



GOBIERNO DEL  
PRINCIPADO DE ASTURIAS

# Plan Especial

ESTUDIO TOPOGRÁFICO

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Gijón, 7 de febrero de 2008  
La Jefa de la Sección de Gestión  
y Planeamiento

Fdo. Angeles García Sierra

16 AGO 2007

## De Actuación Concertada Área Residencial de Rocés. Concejo de Gijón



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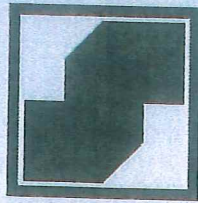
**Sogepssa**



AYUNTAMIENTO DE GIJÓN

Agosto 2007

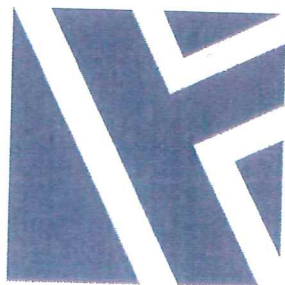
PRINCIPADO DE ASTURIAS  
06 AGO 2007



# Sogepsa

Sociedad Mixta de Gestion y Promocion del Suelo S.A.

## TRABAJOS DE TOPOGRAFIA PARA LA EJECUCION DEL AREA RESIDENCIAL DE ROCES (T.M. GIJON)



TECNIA

*MAYO 2004*

*CALVE T03007*

06 AGO 2007

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## 1.- INTRODUCCIÓN.

El presente trabajo corresponde a la necesidad de obtener una topografía para “La Ejecución del Area Residencial de Roces ,Termino municipal de Gijón” a pedido de Sogepsa.

## 2.- ANTECEDENTES.

El ámbito de trabajo se definió a partir de los estudios en materia de desarrollo urbanístico previstos para el área en cuestión.

## 3.- VUELO FOTOGRAMETRICO

El vuelo fotogramétrico se ha realizado siguiendo las siguientes fases:

- Planificación del vuelo
- Ejecución del vuelo fotogramétrico
- Características técnicas
- Material fotográfico
- Recursos Humanos
- Listado de coordenadas aproximadas de los centros de proyección



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### 3.3.- CARACTERÍSTICAS TÉCNICAS.

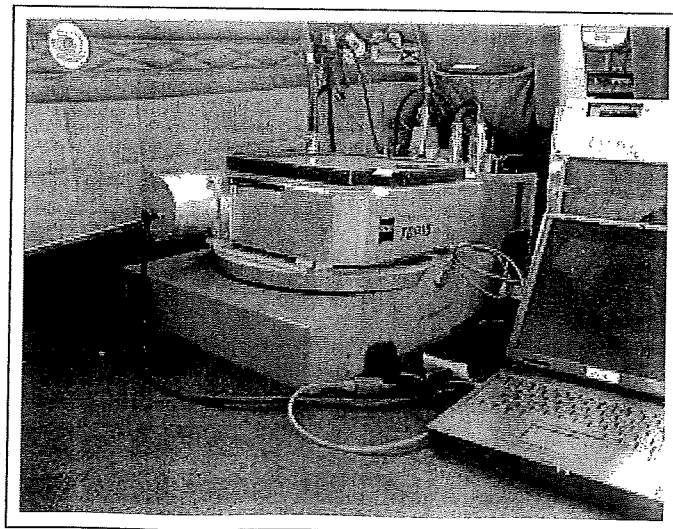
Vuelo fotogramétrico color a escala 1/4.000 con recubrimiento longitudinal de 60%. Se ejecutaron 13 pasadas sobre el area seleccionada. Para la actuación del presente trabajo solo se utilizaron las pasadas 7 - 8 -9 -

La dirección de las pasadas ha sido libre según

La cámara empleada ha sido una RMK TOP 15 con un objetivo gran-angular de 153,312 mm de la casa ZEISS de alta precisión, dotada de dispositivo para la compensación del arrastre de la imagen (F.M.C.) y control automático de la exposición por microprocesador (P.E.M.).



La distorsión radial de los objetivos es siempre inferior a 10 micras en todo el formato excepto en las regiones próximas a las esquinas y el AWAR de cada una de ellas de 100 líneas pares por milímetro.



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Dicha cámara está montada sobre una plataforma de sustentación giroestabilizada T-AS de tal modo que quedan ampliamente amortiguados los efectos de las vibraciones mecánicas del avión, así como los giros en  $\square\square\square$ .



El avión empleado para este trabajo ha sido un Cessna 402 dotado de los más avanzados elementos técnicos para la navegación aérea: GPS, instrumentación para vuelo instrumental, VOR, ADF, RMI, HSI.

### 3.4.- MATERIAL FOTOGRÁFICO.

La película y el material de laboratorio utilizado es el indicado para COLOR, como lo solicitó el cliente. La película que se empleó en todos los casos ha sido KODAK 2444 de la casa KODAK, se trata de una película de alta definición con una emulsión capaz de registrar detalles perceptibles comprendidos entre 2 y 3 micras.

El espesor del soporte es de 0,1 mm aproximadamente y su estabilidad dimensional asegura que las distancias entre marcas fiduciales no difieran en más del 0,3‰ de las proporcionadas en el Certificado de Calibración.

Para cada rollo se dejó un espacio de al menos dos metros de película antes de comenzar a tomar exposiciones. Ningún negativo original incluye manchas, decoloraciones o partes quebradizas atribuidas a envejecimiento. Tampoco hay marcas de ningún tipo, arañazos, perforaciones, rayas, manchas, etc.

Los tiempos de exposición y abertura relativa empleados, han sido los correspondientes a los parámetros descritos por el fabricante de la película. El almacén utilizado para el proceso del vuelo ha sido de la casa Zeiss, dotado del dispositivo (F.M.C.), con N° 144.400

### 3.5.- RECURSOS HUMANOS.

El equipo humano con el cual ha sido posible realizar este proyecto está compuesto por :

Un equipo de navegación ( Comandante de vuelo y Observador).

Dos responsables técnicos del proyecto de vuelo.

Dos técnicos de fotografía.

Dos técnicos comerciales.

Un director responsable de todos los componentes.





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#### 4.- CERTIFICADOS DE CALIBRACIÓN DE LAS CAMARA

## 5.- APOYO DE CAMPO PARA EL VUELO.

El objeto de los trabajos de topografía ejecutados en el campo, es la obtención de los puntos de apoyo perfectamente identificados en campo en correspondencia con las fotos del vuelo. El objeto de éste trabajo es poder realizar con éstos puntos la orientación de los modelos fotogrametricos necesarios para obtener la cartografía deseada.

### 5.1.- RED BASICA

Se elige el Sistema de Posicionamiento Global (GPS) como método de trabajo, tomando como Red Básica la Red de Bases Principales planas utilizadas para las obras de ejecución de la Autovía Minera.

### 5.2.- APARATOS EMPLEADOS Y OBSERVACION

Se utilizan dos receptores de doble frecuencia marca LEICA, SISTEM 500, Mod. 530 para trabajos RTK (Real Time Kinematic), a los que se les introduce la siguiente configuración:

Mínimo número de satélites.....	4
Máscara de observación.....	10°
Intervalo de grabación de datos.....	10s

## 6.- CALCULO

Se realiza el cálculo mediante el software SKI-PRO de Leica, empezando por volcar los datos desde los receptores de campo al ordenador.

Para el paso de este sistema al sistema ED50 (coordenadas UTM), se realiza una transformación de semejanza (Helmert tridimensional) con las coordenadas UTM :

Las coordenadas de los vértices utilizados para vincular el trabajo se obtuvieron del documento preparado para la topografía de la Ronda Sur de Gijón desde Los enlaces de Roces Hasta el Enlace de La Guía, según se adjunta en el anexo complementario.

El trabajo partió de la base 30051 ubicada en el margen derecha del Puente de la Ronda Sur entre Roces y Gijón.

## 7.- APARATOS EMPLEADOS Y OBSERVACION

Se utilizan dos receptores de doble frecuencia marca LEICA, SISTEM 500, Mod. 530 para trabajos RTK (Real Time Kinematic), a los que se les introduce la siguiente configuración:

Mínimo número de satélites.....	4
Máscara de observación.....	10°
Intervalo de grabación de datos.....	10s

## 8.- CALCULO

Se realiza el cálculo mediante el software SKI-PRO de Leica, empezando por volcar los datos desde los receptores de campo al ordenador.

Para el paso de este sistema WGS84 al sistema local de coordenadas planas, se realiza una transformación de semejanza (Helmert tridimensional) con las coordenadas UTM e ITRS89 de los vértices

- 30004
- 31006
- 30051
- 30065
- 30506

Estos vértices forman bloque con el proyecto, obteniendo como producto final del trabajo, un listado de coordenadas planas, de los puntos de apoyo del citado vuelo.

## 9.- PARÁMETROS DE TRANSFORMACIÓN GPS -PLANAS

### Reporte de Transformación por Un paso



Sistema A	t04007_roces	Sistema B	locales_t04007
Elipsoide:	WGS 1984	Elipsoide:	-
Sistema:	WGS84	Sistema:	Local
		Modo de altura:	Ortométrica

#### Transformación 2D-Helmert

Número de puntos comunes:	5		
Origen de rotación:	X0	0.1191	m
	Y0	-0.0821	m

Núm.	Parámetro:	Valor	e.m.c.	Unidad
1	2	dX de Desplazamien	dY de Desplazamien	4821356.5983
284503.5345	0.0153	0.0153	m	m
3	Rotación sobre Z	6548.85173	2.17319	"
4	Esc.	9.8628	10.5358	ppm

#### Residuales m

Sistema A	Sistema B	dX	dY
30004	30004 (3)	0.0019	0.0063
31006	31006	-0.0523	-0.0080
30051	30051	-0.0165	0.0072
30065	30065	0.0128	-0.0217
30506	30506	0.0542	0.0161

#### Transformación de altura

Número de puntos comunes:	5		
Parámetro:	0.00005116	0.00001314	-46.8302 m
Inclinación de altura en X:	0.00293	grado	
Inclinación de altura en Y:	0.00075	grado	
Media de la precisión de la trans 5 puntos:	0.0077	m	

#### Residuales m

Sistema A	Sistema B	Tipo de punto	dA
30004	30004 (3)	Posición + Altura	-0.0009
31006	31006	Posición + Altura	-0.0019
30051	30051	Posición + Altura	0.0141
30065	30065	Posición + Altura	-0.0017
30506	30506	Posición + Altura	-0.0096

### 10.-LISTADO DE PUNTOS DE APOYO Y VERICES

Nº Punto	X	Y	Z	Descripción
30004	284597.884	4821049.168	61.155	base gps
31006	284131.360	4820327.078	88.991	base gps
30051	283799.619	4821445.863	55.621	base gps
30065	286869.396	4822428.150	23.022	base gps
30506	283119.030	4821533.417	44.512	base gps
5331	282995.813	4820958.092	49.047	punto de apoyo
5332	283655.327	4820544.259	84.687	punto de apoyo
5341	283180.670	4821100.967	49.455	punto de apoyo
5342	283658.434	4820781.941	62.509	punto de apoyo
5361	283620.922	4821674.015	58.017	punto de apoyo
5362	284128.989	4821204.995	37.000	punto de apoyo
5381	283808.436	4822250.589	33.105	punto de apoyo
5382	284478.185	4821883.014	42.914	punto de apoyo
5391	284055.268	4822568.644	24.156	punto de apoyo
5392	284791.992	4822050.573	33.552	punto de apoyo
5401	284846.687	4822446.712	21.988	punto de apoyo
5402	285361.190	4822042.176	24.441	punto de apoyo
5411	284532.725	4822039.321	29.804	punto de apoyo
5412	285262.870	4821701.355	26.992	punto de apoyo
5441	284719.210	4820861.473	56.774	punto de apoyo
5442	284025.065	4821305.647	43.336	punto de apoyo
5461	284225.641	4820332.763	88.130	punto de apoyo
5462	284223.237	4820310.974	87.109	punto de apoyo
5463	284182.426	4820280.017	84.310	punto de apoyo
5471	284106.989	4820112.303	84.571	punto de apoyo
5481	284315.429	4820434.781	72.707	punto de apoyo
5482	284602.946	4820237.952	75.813	punto de apoyo
5483	284909.096	4820108.520	62.218	punto de apoyo
5491	285125.007	4820337.566	58.726	punto de apoyo
5492	284556.597	4820762.552	59.695	punto de apoyo
5521	285790.470	4821261.784	53.892	punto de apoyo
5531	285195.051	4821810.644	29.469	punto de apoyo
5561	285767.990	4822683.034	12.383	punto de apoyo
5562	286507.140	4822285.500	25.409	punto de apoyo
5571	286597.913	4822577.898	13.609	punto de apoyo
5572	286124.248	4822934.574	10.407	punto de apoyo

## 11.-LISTADOS DE CODIFICACION DE LINEAS Y SIMBOLOS

Toda la información topográfica se ha codificado según se describe en el apartado de codificación de líneas y símbolos

010401 LIMITE DE NACION  
010301 LIMITE DE AUTONOMIA  
010201 LIMITE DE PROVINCIA  
010101 LIMITE DE MUNICIPIO  
017401 PERIMETRO PARQUE NACIONAL  
017501 PERIMETRO PARQUE NATURAL  
015401 CENTROIDE DE NACION  
015301 CENTROIDE DE AUTONOMIA  
015201 CENTROIDE DE PROVINCIA  
016101 CENTROIDE DE COMARCA  
018501 MUGA  
018507 MOJON INTERMUNICIPAL  
018506 MOJON DE TRES TERMINOS  
020200 CURVA DE NIVEL (FINA)  
020400 CURVA DE NIVEL (MAESTRA)  
020600 CURVA DE DEPRESION (FINA)  
020800 CURVA DE DEPRESION (MAESTRA)  
021000 # CURVA OCULTA (FINA)  
021200 # CURVA OCULTA (MAESTRA)  
021151 LINEA DE TALUD  
021152 LINEA DE DESMONTE  
021153 LINEA DE TERRAPLEN  
021154 PIE DE TALUD  
021220 MURO DE CONTENCION  
028110 SEÑAL DE NIVELACION  
028112 PUNTO ACOTADO  
028113 COTA ALERO  
030190 CURSO REPRESENTADO POR UNA SOLA LINEA  
030192 MARGEN DE RIO/ARROYO/CURSO FLUVIAL  
030291 CURSO FLUVIAL INTERMITENTE UNA SOLA LINEA  
030292 MARGEN DE CURSO FLUVIAL INTERMITENTE  
030194 EJE DE CURSO FLUVIAL  
030394 EJE DE ACEQUIA/CANAL  
030392 MARGEN DE ACEQUIA/CANAL  
030100 CURSO REPRESENTADO POR UNA SOLA LINEA  
030102 MARGEN DE RIO/ARROYO/CURSO FLUVIAL  
030201 CURSO FLUVIAL INTERMITENTE UNA SOLA LINEA  
030202 MARGEN DE CURSO FLUVIAL INTERMITENTE  
030104 EJE DE CURSO FLUVIAL  
030304 EJE DE ACEQUIA/CANAL  
030302 MARGEN DE ACEQUIA/CANAL  
032301 LINEA DE COSTA  
033301 CONTORNO DE LAGO/LAGUNA  
033401 CONTORNO DE LAGO/LAGUNA INTERMITENTE  
035501 CENTROIDE CORRESPONDIENTE A MAR/OCEANO  
035101 CENTROIDE CORRESPONDIENTE A RIO  
035301 CENTROIDE CORRESPONDIENTE A LAGO/LAGUNA



036301 CENTROIDE CORRESPONDIENTE A CANAL  
037101 POZO  
037102 FUENTE  
037105 ESTANQUE/PISCINA  
037107 ABREVADERO  
037131 DEPOSITO (A NIVEL DEL SUELO)  
037138 DEPOSITO ELEVADO  
057107 DIQUE DE EMBALSE O PRESA  
038101 POZO  
038102 FUENTE  
038105 ESTANQUE/PISCINA  
060194 EJE DE AUTOPISTA/AUTOVIA  
060294 EJE DE CARRETERA  
060494 EJE DE CAMINO VIA PECUARIA  
060594 # SEÑAL HORIZONTAL  
061194 EJE DE FFCC (VIA SIMPLE)  
061294 EJE DE FFCC (VIA DOBLE)  
060192 MARGEN DE AUTOPISTA/AUTOVIA  
060292 MARGEN DE CARRETERA  
060492 MARGEN DE CAMINO VIA PECUARIA  
060199 TELEFERICO FUNICULAR  
060104 EJE DE AUTOPISTA/AUTOVIA  
060204 EJE DE CARRETERA  
060207 "CUNETAS"  
060404 EJE DE CAMINO VIA PECUARIA  
060504 # SEÑAL HORIZONTAL  
061104 EJE DE FFCC (VIA SIMPLE)  
061204 EJE DE FFCC (VIA DOBLE)  
060102 MARGEN DE AUTOPISTA/AUTOVIA  
060201 CARRETERA OCULTA  
060202 MARGEN DE CARRETERA  
060208 CARRETERA EN CONSTRUCCION  
060209 CARRETERA ABANDONADA  
060402 MARGEN DE CAMINO VIA PECUARIA  
060403 MARGEN DISCONTINUO DE CAMINO VIA PECUARIA  
060109 TELEFERICO FUNICULAR  
067121 PERIMETRO DE PUENTE  
067123 PERIMETRO DE ALCANTARILLA  
068125 SEÑAL DE TRAFICA  
068301 BALIZA LUMINOSA  
068401 HITO KILOMETRICO AUTOPISTAS / CARRETERAS  
068411 HITO KILOMETRICO FFCC  
068412 # CAMBIA DE AGUJAS EN FFCC  
108100 VERTICE GEODESICO SIN ESPECIFICAR  
108101 VERTICE GEODESICO (PRIMER ORDEN)  
108102 VERTICE GEODESICO (SEGUNDO ORDEN)  
108103 VERTICE GEODESICO (TERCER ORDEN)  
108104 VERTICE TOPOGRAFICO  
108201 PUNTO DE APOYO. PUNTO DE POLIGONAL  
110100 LIMITE ENTRE CLASES DE SUELO  
110201 LIMITE SUELO DE PATRIMONIO PUBLICO  
110302 ALINEACION EXTERIOR DE MANZANA  
110303 LIMITE ENTRE ZONAS EN INTERIOR DE MANZANA  
110304 ALINEACION INTERIOR O EN FONDO DE MANZANA



110305 LINEA DE PARCELA EDIFICABLE  
110308 DELIMITACION DE AMBITOS DE EJECUCION  
110309 EQUIDISTRIBUCION O AREA DE REPARTO  
110310 SEPARACION DE ALTURAS EDIFICABLES  
110801 LIMITE ZONAS ENTRE S.U.N.P. Y S.N.U.  
111101 LINEA DE SUELO SUJETO  
111600 LINEA DE ESTRUCTURA ORGANICA  
111701 LINEA PLAN TERRITORIAL SUPRAMUNICIPAL  
111704 LINEA DE PLAN ESPECIAL  
111705 LINEA DE ESTUDIO DE DETALLE  
111706 LINEA DE PROYECTO DE URBANIZACION  
111707 LINEA PROYECTO DE EQUIDISTRIBUCION  
111708 LINEA DE PLAN PARCIAL.SECTOR  
111709 LINEA DE PROGRAMA DE ACTUACION URBANISTICA  
112201 LIMITE DE DISTRITO MUNICIPAL  
112301 LIMITE DE BARRIO  
112501 LIMITE DE NUCLEOS DE POBLACION CENSAL  
112601 LIMITE DE DISTRITO CENSAL  
112701 LIMITE DE SECCION CENSAL  
113801 MARGEN CAMINO DE HUERTA (P.G.O.U. MURCIA)  
115600 CENTROIDE DE ESTRUCTURA ORGANICA  
115701 CENTROIDE DE PLAN TERRITORIAL SUPRAMUNICIPAL  
115704 CENTROIDE DE PLAN ESPECIAL  
115705 CENTROIDE DE ESTUDIO DE DETALLE  
115706 CENTROIDE DE PROYECTO DE URBANIZACION  
115707 CENTROIDE DE EQUIDISTRIBUCION  
116201 CENTROIDE DE DISTRITO MUNICIPAL  
116301 CENTROIDE DE BARRIO  
116501 CENTROIDE DE NUCLEO URBANO CENSAL  
116601 CENTROIDE DE DISTRITO CENSAL  
116701 CENTROIDE DE SECCION CENSAL  
115101 CENTROIDE DE SUELO SUJETO A CTU (DIGIT. DE RUSTICA  
114100 CENTROIDE DE SUELO URBANO  
114103 CENTROIDE DE SUELO URBANO PROGRAMADO 1º CUATRIENIO  
114104 CENTROIDE DE SUELO URBANO PROGRAMADO 2º CUATRIENIO  
114105 CENTROIDE DE SUELO URBANO NO PROGRAMADO  
114106 CENTROIDE DE SUELO NO URBANIZABLE  
114201 AREA DE REPARTO EN SUELO URBANIZABLE PROGRAMADO  
114202 AREAS DE TANTEO Y RETRACTO  
114203 SUELO PUBLICO A OBTENER  
114205 AREAS DE RESERVA  
114301 CENTROIDE DE ZONA DE ORDENACION  
114302 CENTROIDE DE SUELO EDIFICABLE  
114304 CENTROIDE DE SUELO NO EDIFICABLE EN FONDO DE MANZANA  
114305 CENTROIDE DE ZONA DE RETRANQUEO  
114308 CENTROIDE DE UNIDAD DE EJECUCION SISTEMATICA  
114309 CENTROIDE DE AREA DE REPARTO EN SUELO URBANO  
114310 CENTROIDE DE UNIDAD DE ACTUACION ASISTEMATICA  
114311 CENTROIDE DE PLAN PARCIAL.SECTOR (EN SUELO URBANO PROGRAMADO)  
114312 CENTROIDE DE AREA DE REPARTO EN S.U.N.P. O EN P.A.U  
114313 CENTROIDE DE ZONAS DE REGULACION ESPECIFICA  
114401 CENTROIDE DE VIARIO O DE SISTEMA GENERAL  
114801 CENTROIDE DE ZONA DE S.U.N.P.  
114802 CENTROIDE DE ZONA DE S.N.U.

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- 118201 PUNTO PERMANENTE DE LIMITE DE SUELO SUJETO
- 120290 LIMITE VIRTUAL (SOLO EN DESCUENTOS)
- 120100 LIM.POL.MATERIALIZACION NO CLASIFICADA O INDETERMINADA
- 120101 LIM.POL.EDIFICIO
- 120102 LIM.POL.MURO
- 120103 LIM.POL.VALLA
- 120104 LIM.POL.ALAMBRADA
- 120105 LIM.POL.SETO
- 120200 BALASTRO G.V.S.
- 120201 LIM.PAR.EDIFICIO
- 120202 LIM.PAR.MURO
- 120203 LIM.PAR.VALLA
- 120204 LIM.PAR.ALAMBRADA
- 120205 LIM.PAR.SETO
- 120500 LIM.SUBPAR.MATERIALIZACION NO CLASIFICADA O INDETERMINADA
- 120501 LIM.SUBPAR.EDIFICIO
- 120502 LIM.SUBPAR.MURO
- 120503 LIM.SUBPAR.VALLA
- 120504 LIM.SUBPAR.ALAMBRADA
- 120505 LIM.SUBPAR.SETO
- 120331 LINEA CONTINUA INDETERMINADA (RUSTICA)
- 120332 LINEA A TRAZOS INDETERMINADA (RUSTICA)
- 123201 BORDE DE ORTOFOTO
- 123301 BORDE DE HOJA CARTOGRAFICA RUSTICA
- 125101 CENTROIDE DE POLIGONO RUSTICO
- 125201 CENTROIDE DE PARCELA/DESCUENTO RUSTICOS
- 125501 CENTROIDE DE SUBPARCELA RUSTICA (CULTIVO/IMPR.)
- 125502 CENTROIDE DE SUBPARCELA RUSTICA (CONST.AGRICOLA)
- 124201 CENTROIDE DE ORTOFOTOMAPA
- 124301 CENTROIDE DE HOJA CARTOGRAFICA DE RUSTICA
- 1401SS LIMITE DE MANZANA URBANA
- 1402SS LIMITE DE PARCELA URBANA
- 1405SS LIMITE DE SUBPARCELA URBANA
- 140501 (PATIO) LIMITE DE SUBPARCELA URBANA
- 140100 LIM.MAN.MATERIALIZACION NO CLASIFICADA O INDETERMINADA
- 140101 MANZA.EDIFICACION
- 140102 LIM.MAN.MURO
- 140103 LIM.MAN.VALLA
- 140104 LIM.MAN.ALAMBRADA
- 140105 LIM.MAN.SETO
- 140200 LIM.PAR.URB.MATERIALIZACION NO CLASIFICADA O INDETERMINADA
- 140201 LIM.PAR.URB.EDIFICACION
- 140202 LIM.PAR.URB.MURO
- 140203 LIM.PAR.URB.VALLA
- 140204 LIM.PAR.URB.ALAMBRADA
- 140205 LIM.PAR.URB.SETO
- 140304 DVI. ALTURAS
- 140500 LIM.SUBPAR.URB.MATERIALIZACION NO CLASIFICADA O INDETERMINADA
- 140501 LIM.SUBPAR.URB.EDIFICACION
- 140502 LIM.SUBPAR.URB.MURO
- 140503 LIM.SUBPAR.URB.VALLA
- 140504 LIM.SUBPAR.URB.ALAMBRADA
- 140505 LIM.SUBPAR.URB.SETO
- 140302 (MEDIANERIA) LIMITE/SEPARACION DE ALTURAS EDIFICADAS



- 140402 LIMITE BAJO RASANTE (NO COINCIDENTE CON OTROS)
- 143301 BORDE DE HOJA CARTOGRAFICA URBANA (VALIDO EN EXPLOTACION CGC)
- 143501 BORDE DE BLOQUE (SOLO VALIDO EN EXPLOTACION CGC)
- 145101 CENTROIDE DE MANZANA URBANA
- 145201 CENTROIDE DE PARCELA URBANA
- 145501 CENTROIDE DE SUBPARCELA URBANA
- 144301 CENTROIDE DE HOJA CARTOGRAFICA DE URBANA
- 161191 EJE DE RED VIARIA
- 160291 LINEA ELECTRICA
- 160292 LINEA TELEFONICA/TELEGRAFICA
- 160293 CONDUCCION DE GAS
- 160294 CONDUCCION DE AGUAS
- 160295 CONDUCCION DE AGUAS RESIDUALES
- 160299 OTRAS CONDUCCIONES
- 160300 LINEA DE ELEMENTO NO CLASIFICADO O INDETERMINADO (EDIFICACION)LINEA NO CLASIF.O INDE.
- 160301 (MURO o TAPIA) NO CLASIF.O INDE.
- 160302 (VALLA)LINEA NO CLASIF.O INDE.
- 160303 (ALAMBRADA)LINEA NO CLASIF.O INDE.
- 160304 (SETO)LINEA NO CLASIF.O INDE.
- 160305 # EDIF.CONST.LINEA NO CLASIFICADA O INDETERMINADA
- 160307 # EDIF.RUINA.LINEA NO CLASIFICADA O INDETERMINADA
- 160308 # EDIF.3D.LINEA NO CLASIFICADA O INDETERMINADA
- 160310 "HORREO"
- 160311 "EXTRUCTURA DE HORMIGON"
- 160312 "JUNTAS"
- 160132 LINEA URBANA INDETERMINADA (A TRAZOS)
- 160101 LINEA DE ACERA
- 161101 EJE DE RED VIARIA
- 160201 LINEA ELECTRICA ALTA
- 160401 LINEA ELECTRICA MEDIA BAJA
- 160202 LINEA TELEFONICA/TELEGRAFICA
- 160203 CONDUCCION DE GAS
- 160204 CONDUCCION DE AGUAS
- 160205 CONDUCCION DE AGUAS RESIDUALES
- 160209 OTRAS CONDUCCIONES
- 160281 LINEA ELECTRICA (BAJO RASANTE)
- 160282 LINEA TELEFONICA/TELEGRAFICA (BAJO RASANTE)
- 160283 CONDUCCION DE GAS (BAJO RASANTE)
- 160284 CONDUCCION DE AGUA POTABLE (BAJO RASANTE)
- 160285 CONDUCCION DE AGUAS RESIDUALES (BAJO RASANTE)
- 160289 OTRAS CONDUCCIONES (BAJO RASANTE)
- 160502 MURO+ENREJADO
- 160802 TAPIA+ENREJADO
- 160805 CHIMENEA
- 160806 SOLERA
- 160807 TOPERA
- 160808 CABLE
- 160809 JUNTA DILATACION
- 161402 TAPIA ANCHA
- 161500 MUELLE/ANDEN/PLATAFORMA
- 161600 TERRAZA
- 161700 PILAR
- 161800 CHAMIZO/CHABOLA/CASETA



- 161803 EXTRUCTURA METALICA
- 167203 LINEA/PERIMETRO DE URBANIZACION
- 167204 LINEA/PERIMETRO DE ZONA DEPORTIVA
- 167205 LINEA/PERIMETRO DE ZONA INDUSTRIAL
- 167206 LINEA/PERIMETRO DE ZONA MILITAR
- 167208 LINEA/PERIMETRO DE ZONA PORTUARIA
- 167210 LINEA/PERIMETRO DE ZONA ESCOLAR/UNIVERSITARIA
- 167211 LINEA/PERIMETRO DE ZONA COMERCIAL
- 167212 LINEA/PERIMETRO DE ZONA MARITIMO/TERRESTRE (NO ES LINEA DE COSTA)
- 167201 LINEA/PERIMETRO DE ZONA VERDE
- 167202 LINEA/PERIMETRO DE ZONA ARBOLADA
- 164221 CENTROIDE DE ESPACIO VERDE
- 164222 CENTROIDE DE ZONA ARBOLADA
- 167102 FUENTE
- 167103 MONUMENTO
- 167104 ESCALERA
- 167105 BANCO
- 167106 ACCESO A PASO SUBTERRANEO
- 167107 GRADAS
- 167111 TRANSFORMADOR DE RED ELECTRICA
- 167113 TORRE DE CONDUCCION ELECTRICA
- 167116 FAROLA
- 167123 REG. TRAFICO
- 167124 ANTENA REPETIDORA
- 167136 "# REG. SANEAMIENTO"
- 167137 SUMIDERO
- 167138 REGISTRO INDETERMINADO
- 167140 REJILLA DE VENTILACION
- 167141 # REGISTRO INDETERMINADO
- 167148 SEYAL DE INFORMACION/PUBLICIDAD
- 167151 MARQUESINA
- 167154 ALCORQUE
- 167156 # BARANDILLA
- 167157 # BIONDAS • QUITAMIEDOS
- 167158 # CARTEL LINEAL
- 167161 KIOSKO PRENSA
- 167162 KIOSKO HOSTELERIA
- 167163 KIOSKO FLORES
- 167164 KIOSKO ONCE
- 167166 CABINA TELEFONICA
- 167167 CABINA/KIOSKO INDETERMINADO
- 167168 BASCULA
- 168102 FUENTE
- 168103 MONUMENTO
- 168106 ACCESO A PASO SUBTERRANEO
- 168112 REGISTRO DE RED ELECTRICA
- 168113 TORRE DE CONDUCCION ELECTRICA
- 168114 POSTE DE CONDUCCION ELECTRICA
- 168115 FAROLA ALUMBRADO (EN FACHADA)
- 168116 FAROLA
- 168117 # FAROLA MULTIPLE
- 168122 SEMAFORO (POSTE)
- 168121 SEMAFORO SUSPENDIDO
- 168123 REGISTRO DE GRUPO DE SEMAFOROS



- 168124 ANTENA REPETIDORA
- 168127 REGISTRO DE RED TELEFONICA
- 168128 REGISTRO DE CONDUCCION DE GAS
- 168131 REGISTRO DE RED ABASTECIMIENTO DE AGUAS
- 168132 BOCA DE RIEGO
- 168133 BOCA EXTINCION DE INCENDIOS/TOMA HIDRANTE
- 168136 REGISTRO RED ALCANTARILLADO
- 168137 SUMIDERO/ALBAÑAL
- 168138 REGISTRO INDETERMINADO
- 168139 REGISTRO ALCANTARILLADO CON SUMIDERO
- 168140 REJILLA DE VENTILACION
- 168141 PUNTO DE ACCESO A VIVIENDA
- 168148 SEÑAL DE INFORMACION/PUBLICIDAD
- 168151 MARQUESINA
- 168152 SURTIDOR
- 168153 ARBOL AISLADO
- 168154 ALCORQUE
- 168155 BUZON
- 168156 # PALMERA
- 168157 # PAPELERA
- 168168 ACCESO A GARAJES/APARCAMIENTOS PUBLICOS
- 189100 OTROS POINTOS DE DIVISIONES ADMINISTRATIVAS
- 189101 TEXTO DE PROVINCIA
- 189102 TEXTO DE TERMINO MUNICIPAL
- 189103 TEXTO DE CASCO URBANO
- 189104 TEXTO DE DISTRITO
- 189105 TEXTO DE BARRIO
- 189200 OTROS TEXTOS DE TOPONIMOS Y DELIMITACIONES CATASTRALES
- 189201 TEXTO DE URBANIZACIONES
- 189202 TEXTO DE ZONAS DE USO DIFERENCIADO
- 189203 TEXTO DE PARAJES
- 189204 TEXTO DE COMARCAS
- 189205 TEXTO DE CALIFICACIONES DEL SUELO
- 189300 OTROS TEXTOS DE INFORMACION URBANA
- 189301 TEXTO DE VIAS PUBLICAS
- 189302 TEXTO ASOCIADO A ELEMENTOS DE INFRAESTRUCTURA URBANA
- 189303 TEXTO ASOCIADO A ELEMENTOS DE INFRAESTRUCTURA RUSTICA (POZO NORIA ...)
- 189401 TEXTO DE NUMERO DE POLICIA PARCELA
- 189500 OTROS TEXTOS DE EDIFICACIONES
- 189501 TEXTOS DE EDIFICACIONES SINGULARES
- 189502 TEXTOS DE DIFICACIONES EN RUINAS CONSTRUCCION
- 189600 OTROS TEXTOS DE HIDROGRAFIA
- 189601 TEXTO DE MAR
- 189602 TEXTO DE RIO
- 189603 TEXTO DE ARROYO
- 189604 TEXTO DE EMBALSE LAGO PANTANO
- 189605 TEXTO DE CANAL
- 189606 TEXTO DE DENOMINACION DE PLAYA
- 189700 OTROS TEXTOS DE VEGETACION Y ACCIDENTES GEOGRAFICOS
- 189701 TEXTO ACCIDENTE GEOGRAFICO EXTENDIDO (SIERRA LOMA ...)
- 189702 TEXTO DE ACCIDENTE GEOGRAFICO PUNTUAL (PICO COLLADO CERRO...)
- 189703 TEXTO DE COTA DE CURVA DE NIVEL
- 189704 TEXTO DE VEGETACION/CULTIVO
- 189800 OTROS TEXTOS DE VIAS DE COMUNICACION



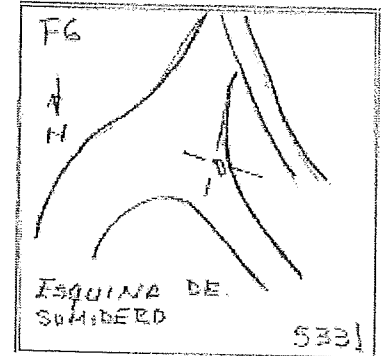
189801 TEXTO DE AUTOPISTA AUTOVIA  
189802 TEXTO DE CARRETERA  
189803 TEXTO DE CAMINO  
189894 TEXTO DE FERROCARRIL  
189900 OTROS TEXTOS DE LINEAS DE CONDUCCION  
189901 TEXTO DE CONDUCCION ELECTRICA  
189902 TEXTO DE CONDUCCION TELEFONICA  
189903 TEXTO DE CONDUCCION DE GAS  
189904 TEXTO DE CONDUCCION DE AGUA POTABLE  
189905 TEXTO DE CONDUCCION DE AGUAS RESIDUALES  
FONT0 # TEXTO TIPO DE LETRA 0  
FONT1 # TEXTO TIPO DE LETRA 1  
FONT2 # TEXTO TIPO DE LETRA 2  
FONT3 # TEXTO TIPO DE LETRA 3  
FONT4 # TEXTO TIPO DE LETRA 4  
FONT5 # TEXTO TIPO DE LETRA 5  
FONT6 # TEXTO TIPO DE LETRA 6  
FONT7 # TEXTO TIPO DE LETRA 7  
FONT8 # TEXTO TIPO DE LETRA 8  
NEGFIN # LINEA NEGRA FINA PLUMA 1  
AZUFIN # LINEA AZUL FINA PLUMA 2  
VERFIN # LINEA VERDE FINA PLUMA 3  
ROJFIN # LINEA ROJA FINA PLUMA 4  
SIEGRU # LINEA SIENA GRUESA PLUMA 5  
ROJGRU # LINEA ROJA GRUESA PLUMA 6  
SIEFIN # LINEA SIENA FINA PLUMA 7  
NEGGRU # LINEA NEGRA GRUESA PLUMA 8  
HOJAS # MARCO DE HOJAS  
COTAS # COTAS DE PUNTOS DE CARGA\_P  
PUNTOS # NUMERO DE PUNTOS DE CARGA\_P  
SOLAPE # SOLAPE ENTRE PLANOS DE GASODUCTO  
cb BALASTO

## 12.-RESEÑA DE PUNTOS DE APOYO

P.A.1	X	Y	Z
5331	282995.81	4820958.09	49.05

ESQUINA DE SUMIDERO EN CALZADA\_

CROQUIS

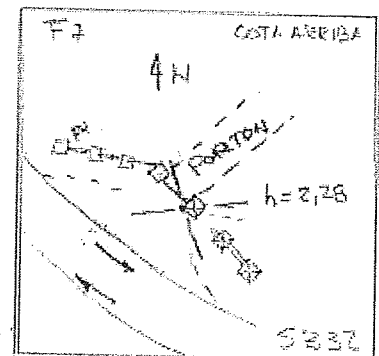


fotograma 533  
pasada 7

P.A.2	X	Y	Z
5332	283655.33	4820544.26	84.69

ESQUINA DE POSTE DE HORMIGON DEL PORTON ,COTA ARRIBA.

CROQUIS

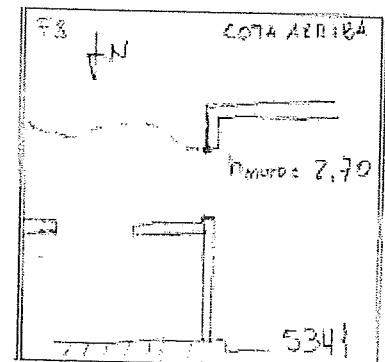


fotograma 533  
pasada 7

P.A.3	X	Y	Z
5341	283180.67	4821100.97	49.45

ESQUINA DE MURO ,COTA ARRIBA\_

CROQUIS



fotograma 534  
pasada 7

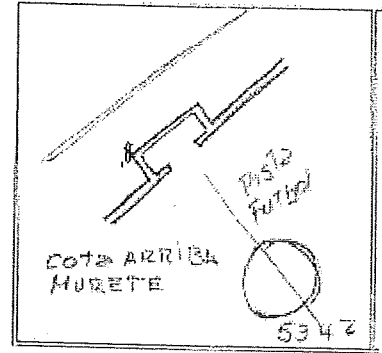
06 AGO 2007

P.A.4      X                      Y                      Z  
5342   283658.43   4820781.94   62.51

ESQUINA DE ,COTA ARRIBA,MURTE DE HORMIGON\_

fotograma 534  
pasada 7

CROQUIS

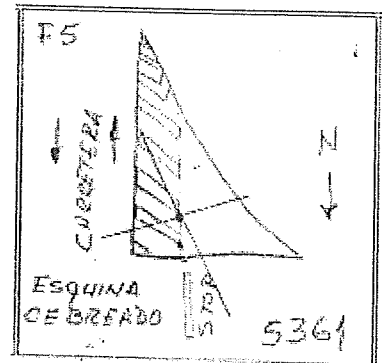


P.A.5      X                      Y                      Z  
5361   283620.92   4821674.02   58.02

COTA SUELO.ESQUINA DE BANDA DE CEBREADO

fotograma 536  
pasada 7

CROQUIS

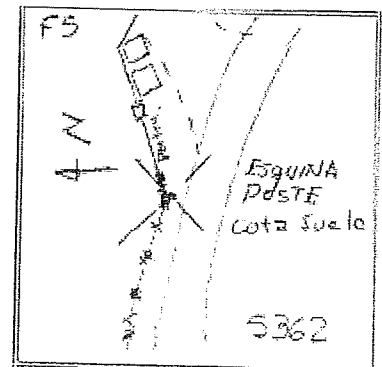


P.A.6      X                      Y                      Z  
5362   284128.99   4821205.00   37.00

ESQUINA DE POSTE DE HORMIGO,COTA ARRIBA\_

fotograma 536  
pasada 7

CROQUIS





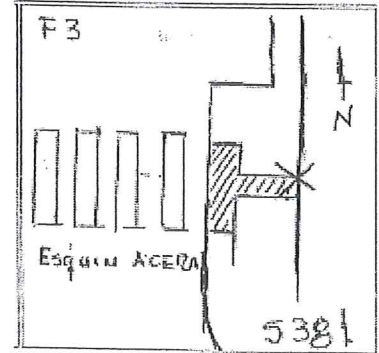


06 AGO 2007

P.A.7            X            Y            Z  
5381   283808.44   4822250.59   33.11

COTA SUELO, ESQUINA DE ACERA PARA CIEGOS □

CROQUIS



fotograma 538  
pasada 7

P.A.8            X            Y            Z  
5382   284478.19   4821883.01   42.91

COTA SUELO, CENTRO DE ARAQUETA

CROQUIS

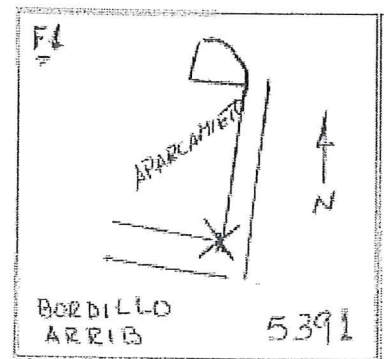


fotograma 538  
pasada 7

P.A.9            X            Y            Z  
5391   284055.27   4822568.64   24.16

COTA SUELO, ARRIBA, ESQUINA DE BORDILLO □

CROQUIS



fotograma 539  
pasada 7



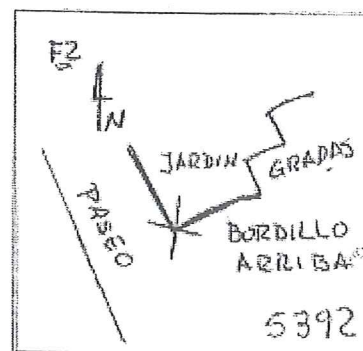
Informe de Topografía

06 AGO 2007

P.A.10	X	Y	Z
5392	284791.99	4822050.57	33.55

CROQUIS

COTA SUELO, ESQUINA DE BORDILLO, ARRIBA

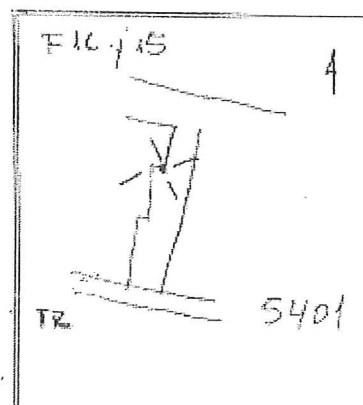


fotograma 539  
pasada 7

P.A.11	X	Y	Z
5401	284846.68	4822446.71	21.98

CROQUIS

COTA SUELO. ESQUINA DE ACERA\_

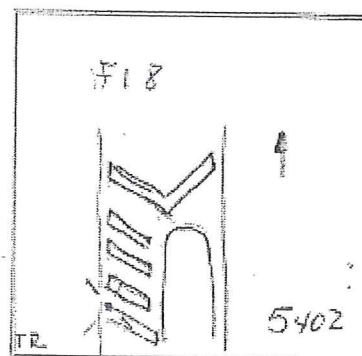


fotograma 540  
pasada 8

P.A.12	X	Y	Z
5402	285361.19	4822042.18	24.44

CROQUIS

COTA SUELO, ESQUINA DE BANDA DE CEBREADO\_



fotograma 540  
pasada 8

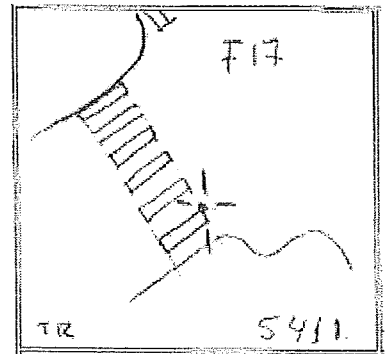
06 AGO 2007

P.A.13      X            Y            Z  
5411   284532.72 4822039.32   29.80

COTA SUELO.ESQUINA DE BANDA DE CEBREADO\_

fotograma 541  
pasada    8

CROQUIS

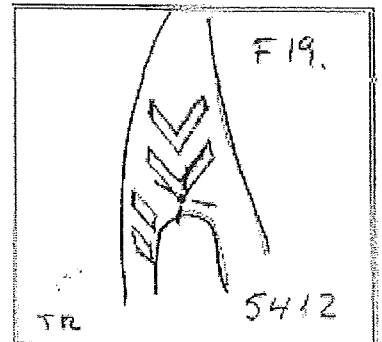


P.A.14      X            Y            Z  
5412   285262.87 4821701.35   26.99

COTA SUELO,ESQUINA DE VERICE DE CEBREADO\_

fotograma 541  
pasada    8

CROQUIS

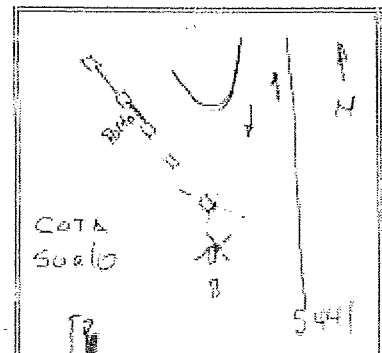


P.A.15      X            Y            Z  
5441   284719.21 4820861.47   56.77

COTA SUELO,ESQUINA DE POSTE DE HORMIGON\_

fotograma 544  
pasada    8

CROQUIS

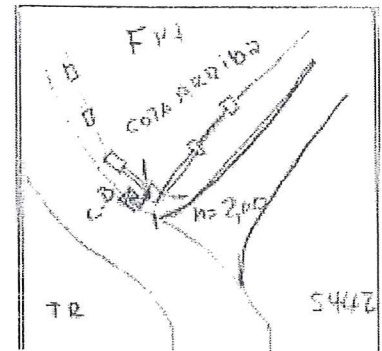




P.A.16      X            Y            Z  
5442   284025.06 4821305.65   43.33

CROQUIS

COTA ARRIBA, ESQUINA DE POSTE HORMIGON\_

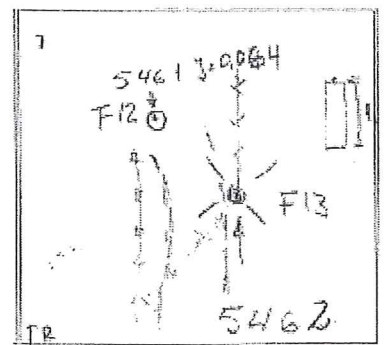


fotograma 544  
pasada 8

P.A.18      X            Y            Z  
5462   284223.24 4820310.97   87.11

CROQUIS

COTA SUELO, ESQUINA DE ALBRADO\_

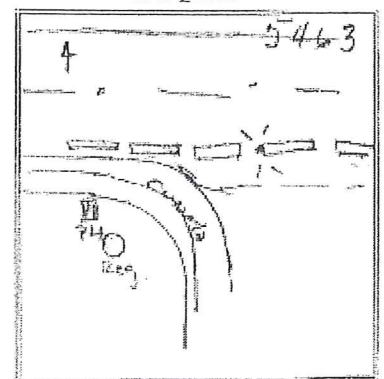


fotograma 546  
pasada 8

P.A.19      X            Y            Z  
5463   284182.43 4820280.02   84.31

CROQUIS

COTA SUELO, ESQUINA DE LINEA BLANCA



fotograma 546  
pasada 8

06 ABO 2007

P.A.20            X            Y            Z  
5471   284106.990 4820112.30   84.57

CROQUIS

COTA ARRIBA, ESQUINA DE PILAR DE ENTRADA

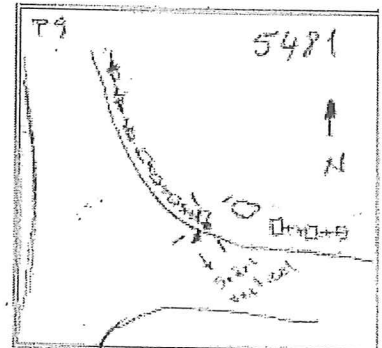


fotograma 547  
pasada 8

P.A.21            X            Y            Z  
5481   284315.43 4820434.78   72.71

CROQUIS

COTA SUELO, ESQUINA DE POSTE ENTRADA A  
FINCA, FRENTE A SEÑAL VERTICAL.

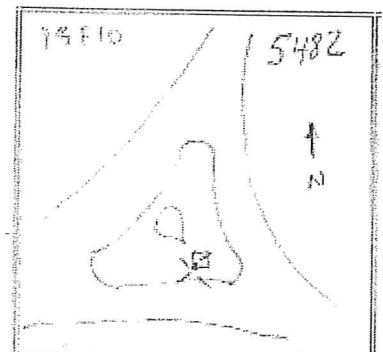


fotograma 548  
pasada 8

P.A.22            X            Y            Z  
5482   284602.94 4820237.95   75.82

CROQUIS

COTA SUELO, ESQUINA DE ARQUETA DENTRO  
DE ISLETA.

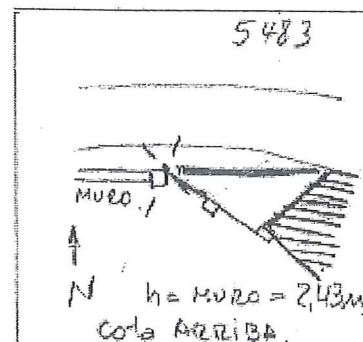


fotograma 548  
pasada 8

P.A.23            X            Y            Z  
5483   284909.10   4820108.52   62.22

COTA ARRIBA, ESQUINA DE POSTE FIN DE MURO  
h= MURO 2.43

CROQUIS

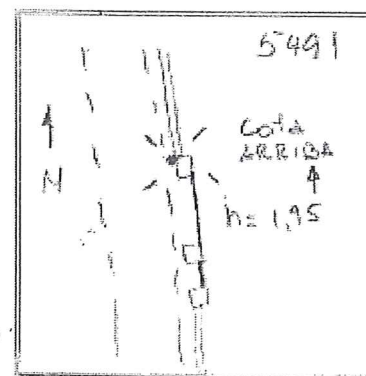


fotograma 548  
pasada 9

P.A.24            X            Y            Z  
5491   285125.01   4820337.57   58.73

COTA ARRIBA, ESQUINA DE PILAR DE  
CIERRE, h=1.95m

CROQUIS

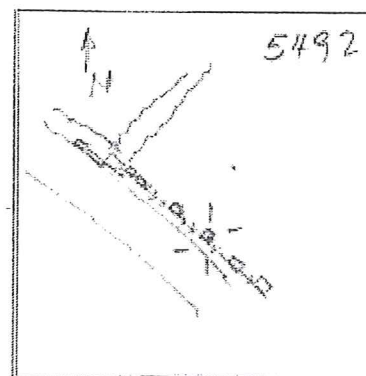


fotograma 549  
pasada 9

P.A.25            X            Y            Z  
5492   284556.60   4820762.55   59.70

COTA SUELO, ESQUINA DE POSTE DE ALAMBRADA

CROQUIS



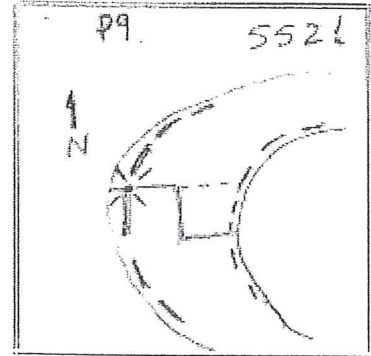
fotograma 549  
pasada 9

06 AGO 2007

P.A.26      X                  Y                  Z  
 5521    285790.47    4821261.78    53.89

CROQUIS

COTA SUELO, CENTRO DE LINEA DE PINTURA  
 BLANCA, COINCIDE CON EL CORTE DE AGLOMERADO

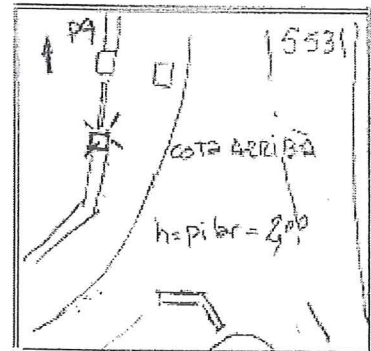


fotograma 552  
 pasada 9

P.A.27      X                  Y                  Z  
 5531    285195.05    4821810.64    29.47

CROQUIS

COTA ARRIBA, ESQUINA DE PILAR.  $h=2.00m$

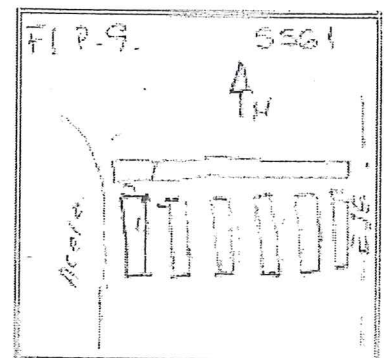


fotograma 552  
 pasada 9

P.A.28      X                  Y                  Z  
 5561    285767.990    4822683.034    12.383

CROQUIS

COTA SUELO, ESQUINA DE BANDA DE PASO  
 DE CEBRA



fotograma 556  
 pasada 9

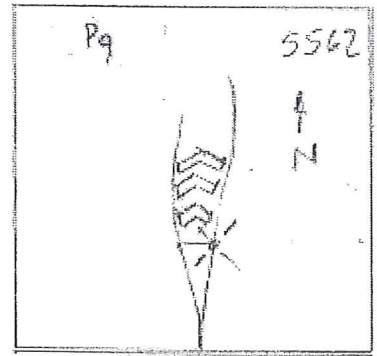


06 AGO 2007

P.A.29      X                  Y                  Z  
 5562   286507.14   4822285.50   25.41

CROQUIS

COTA SUELO, ESQUINA DE CEBREADO EN ISLETA.

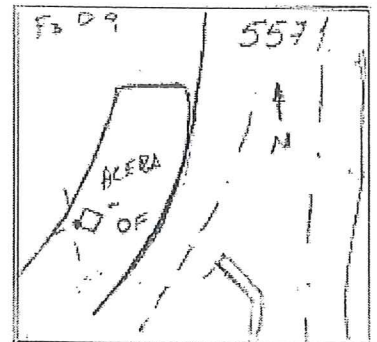


fotograma 556  
pasada 9

P.A.30      X                  Y                  Z  
 5571   286597.91   4822577.90   13.61

CROQUIS

COTA SUELO, ESQUINA DE ARQUETA , JUNTO A FAROLA

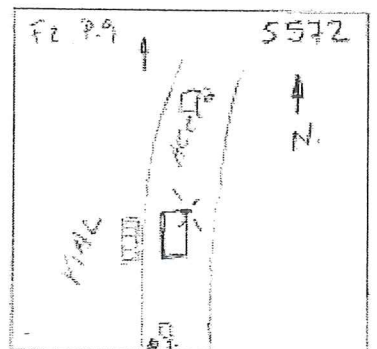


fotograma 557  
pasada 9

P.A.31      X                  Y                  Z  
 5572   286124.25   4822934.57   10.41

CROQUIS

COTA SUELO, ESQUINA DE ARQUETA EN ACERA FRENTE A SUMIDERO.





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### 13.-ANEXO DE TOPOGRAFÍA DE LA RONDA SUR DE GIJON

TECNIA INGENIEROS S.A.



POLIGONAL V-367

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P O L I G O N A L 1  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30004	30060	54.3550	102.3720	919.757	1.30	1.54	54.3555	919.119	-33.966
30060	30004	254.3540	97.6740	919.745	1.30	1.66	254.3555	919.131	34.017
30060	30061	49.0100	100.4070	279.680	1.30	1.66	49.0122	279.674	-1.415
30061	30060	249.0100	99.7080	279.674	1.50	1.63	249.0122	279.671	1.416
30061	30062	34.5090	100.5180	295.017	1.30	1.63	34.5118	295.007	-2.067
30062	30061	234.5090	99.6270	295.011	1.30	1.63	234.5118	295.006	2.059
30062	30063	65.0670	99.3620	354.986	1.30	1.63	65.0705	354.968	3.891
30063	30062	265.0670	100.7580	354.994	1.30	1.62	265.0705	354.969	-3.897
30063	30064	88.0240	100.2850	595.755	1.50	1.62	88.0282	595.749	-2.523
30064	30063	288.0240	99.7450	595.755	1.50	1.63	288.0282	595.750	2.535
30064	30065	95.3660	100.4370	344.639	1.30	1.63	95.3708	344.631	-2.033
30065	30064	295.3660	99.6870	344.634	1.30	1.64	295.3708	344.630	2.042
30065	30067	283.9520	99.0050	1079.298	1.50	1.64	283.9575	1079.166	17.085
30067	30065	83.9520	101.0150	1079.303	1.50	1.57	83.9575	1079.166	-17.059
30067	30066	279.3570	102.3980	449.176	1.30	1.57	279.3632	448.857	-16.631
30066	30067	79.3570	97.6880	449.153	1.30	1.62	79.3632	448.857	16.643
30066	30004	244.0340	98.1110	1256.139	1.30	1.62	244.0408	1255.586	37.692
30004	30066	44.0410	101.9170	1256.154	1.50	1.54	44.0408	1255.585	-37.676

Longitud de la poligonal 5572.8  
 Error de cierre angular = 0.0060  
 Error de cierre en --X-- -0.012  
 Error de cierre en --Y-- -0.052  
 Error de cierre en --Z-- 0.024

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30004	284597.876	4821049.149	61.157	-0.0002	
30060	285290.703	4821653.109	27.170	0.0015	
30061	285485.369	4821853.910	25.753	0.0022	
30062	285637.575	4822106.616	23.691	0.0028	
30063	285940.440	4822291.748	27.586	0.0035	
30064	286525.686	4822403.116	25.059	0.0042	
30065	286869.404	4822428.150	23.022	0.0048	
30067	285824.320	4822159.065	40.100	0.0055	
30066	285398.839	4822016.092	23.465	0.0062	
30004	284597.876	4821049.149	61.157	399.9998	

CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000



TECNIA INGENIEROS S.A.

POLIGONAL V-367

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P O L I G O N A L 2  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30061	30515	209.6810	107.8570	76.729	1.30	1.63	209.6832	76.145	-9.117
30515	30061	9.6800	92.4760	76.683	1.60	1.68	9.6832	76.148	9.121
30515	30529	374.5070	98.7860	166.323	1.30	1.68	374.5102	166.293	3.552
30529	30515	174.5070	101.4900	166.335	1.30	1.65	174.5102	166.289	-3.540
30529	30530	235.8750	98.6050	244.735	1.30	1.65	235.8782	244.676	5.717
30530	30529	35.8750	101.5790	244.746	1.30	1.66	35.8782	244.671	-5.709

Longitud de la poligonal 487.1

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30061	285485.369	4821853.910	25.753	0.0022	
30515	285473.831	4821778.642	16.634	0.0032	
30529	285409.014	4821931.781	20.180	0.0032	
30530	285278.307	4821724.946	25.893	0.0032	

CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000

TECNIA INGENIEROS S.A.

06 AGO 2007

POLIGONAL V-367

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P O L I G O N A L 3  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30515	30528	374.3290	100.2490	59.093	1.30	1.68	374.3322	59.093	0.148
30528	30515	174.3290	100.5330	59.093	1.30	1.65	174.3322	59.091	-0.146

Longitud de la poligonal 59.1

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30515	285473.831	4821778.642	16.634	0.0032	
30528	285450.646	4821832.996	16.781	0.0032	

CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000

TECNIA INGENIEROS S.A.

POLIGONAL V-367



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P O L I G O N A L 4  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30063	30523	151.1460	99.4790	32.161	1.30	1.62	151.1495	32.160	0.584
30523	30063	351.1460	101.8410	32.171	1.30	1.65	351.1495	32.158	-0.584
30523	30518	92.6370	101.9230	303.749	1.30	1.68	92.6405	303.610	-8.789
30518	30523	292.6370	98.2290	303.729	1.30	1.63	292.6405	303.611	8.789
30518	30519	79.2200	100.3940	269.811	1.30	1.63	79.2235	269.806	-1.334
30519	30518	279.2200	99.7600	269.813	1.30	1.61	279.2235	269.811	1.334
30519	30531	98.6810	100.2600	370.757	1.30	1.61	98.6845	370.754	-1.193
30531	30519	298.6810	99.8560	370.759	1.30	1.63	298.6845	370.758	1.182

Longitud de la poligonal 976.3

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30063	285940.440	4822291.748	27.586	0.0035	
30523	285962.766	4822268.601	28.169	0.0035	
30518	286264.350	4822303.622	19.382	0.0035	
30519	286519.917	4822390.121	18.048	0.0035	
30531	286890.594	4822397.781	16.860	0.0035	

CALCULO EN COORDENADAS PLANAS ESCALA 1.000000

TECNIA INGENIEROS S.A.

06 AGO 2007

POLIGONAL V-367

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P O L I G O N A L 5  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30523	30525	84.3970	102.6240	257.243	1.30	1.68	84.4005	257.025	-10.21'
30525	30523	284.3970	97.5590	257.212	1.30	1.66	284.4005	257.023	10.22'

Longitud de la poligonal 257.0

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30523	285962.766	4822268.601	28.169	0.0035	
30525	286212.112	4822330.953	17.950	0.0035	

CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000

TECNIA INGENIEROS S.A.

06 AÑO 2007

POLIGONAL V-367

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P O L I G O N A L 6  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30062	30516	135.1620	83.3400	70.209	1.30	1.63	135.1648	67.819	18.490
30516	30062	335.1620	117.2020	70.360	1.30	1.59	335.1648	67.807	-18.487

Longitud de la poligonal 67.8

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30062	285637.575	4822106.616	23.691	0.0028	
30516	285695.303	4822071.034	42.179	0.0028	

CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000

TECNIA INGENIEROS S.A.

06 AGO 2007

POLIGONAL V-367

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P O L I G O N A L 7  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30062	30517	69.5300	100.5250	348.252	1.70	1.63	69.5328	348.240	-2.939
30517	30062	269.5300	99.5330	348.252	1.30	1.66	269.5328	348.243	2.921

Longitud de la poligonal 348.2

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30062	285637.575	4822106.616	23.691	0.0028	
30517	285946.692	4822266.987	20.761	0.0028	

CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000



TECNIA INGENIEROS

POLIGONAL V-367

06 A30 2007

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P O L I G O N A L 8  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30062	30521	390.2870	100.6145	105.952	1.30	1.65	55.3589	105.947	-0.670
30521	30062	190.2875	99.6945	105.950	1.30	1.45	255.3589	105.949	0.657

Longitud de la poligonal 105.9

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30062	285637.575	4822106.616	23.691	65.0719	
30521	285718.525	4822174.968	23.027	65.0714	

CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000\_



TECNIA INGENIEROS

POLIGONAL V-367

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 P O L I G O N A L 9  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30063	30522	196.1920	106.1640	61.121	1.30	1.65	261.2639	60.835	-5.558
30522	30063	396.1915	94.5725	61.058	1.30	1.65	61.2639	60.836	5.549
30522	30524	20.1065	101.0025	225.746	1.30	1.64	85.1789	225.718	-3.208
30524	30522	220.1065	99.2015	225.735	1.30	1.65	285.1789	225.717	3.185

Longitud de la poligonal 286.6

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30063	285940.440	4822291.748	27.586	65.0719	
30522	285890.523	4822256.974	22.032	65.0724	
30524	286110.151	4822309.050	18.836	65.0724	

### 2.3.2.- CALCULOS TAQIMETRICOS



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 # ----- Datos de Entrada -----  
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06 ABO 2007

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	42	215.81300	108.97700	47.0240			83	285279.256	4821607.981	20.925
	43	238.12600	105.57600	55.2230			84	285259.691	4821607.673	22.704
	44	252.51400	103.30900	65.7000			85	285242.512	4821608.584	24.121
L		40			40		86	Nueva LINEA		
	45	211.59600	106.96600	54.3180			87	285280.921	4821600.010	21.602
L		23			23		88	285279.198	4821594.615	21.890
	46	212.36200	106.00900	59.8820			89	Nueva LINEA		
	47	206.40700	109.12800	51.5800			90	285285.572	4821602.317	20.164
L		4			4		91	285284.099	4821592.219	20.618
	48	206.87600	107.15900	61.6370			92	Nueva LINEA		
L		4			4		93	285292.101	4821589.767	19.760
	49	198.59300	107.77300	63.8330			94	Nueva LINEA		
L		4			4		95	285293.819	4821600.855	19.317
	50	196.20600	109.91300	52.9880			96	Nueva LINEA		
L		4			4		97	285301.163	4821600.523	19.006
	51	187.49800	110.04200	54.2900			98	Nueva LINEA		
L		4			4		99	285300.083	4821589.454	19.578
M		2.1500			632		100	Nueva LINEA		
	53	173.46900	112.71600	48.8440			101	Altura Mira		
L		40			40		102	285310.080	4821609.333	16.993
M		1.3000					103	Nueva LINEA		
	54	175.72700	112.81400	47.5060			104	Altura Mira		
	55	172.90500	114.00500	45.8450			105	285308.022	4821609.904	18.036
	56	176.75100	115.54200	38.2090			106	285309.174	4821612.360	17.530
	57	182.13700	121.19000	28.7680			107	285303.943	4821618.478	18.298
M		1.6200					108	285298.232	4821626.983	18.134
L		60			60		109	Altura Mira		
M		5.1900					110	285298.818	4821631.552	17.803
	59	165.27900	122.90200	19.5750			111	Nueva LINEA		
M		4.1000					112	Altura Mira		
	60	174.65800	120.53400	24.8870			113	285300.207	4821637.445	16.753
	61	173.93600	119.36200	24.3440			114	Altura Mira		
M		4.1900					115	285299.852	4821631.351	16.845
	62	165.51700	117.40100	19.0830			116	285299.948	4821631.802	17.444
M		2.1500					117	Altura Mira		
	63	164.89800	122.60000	19.4650			118	285300.176	4821637.364	19.493
M		2.6500					119	Altura Mira		
	64	158.61600	120.36100	19.9320			120	285300.264	4821637.562	19.918
	65	152.99400	119.40000	20.6920			121	Altura Mira		
M		3.1500					122	285302.154	4821638.047	19.917
	66	152.85800	119.46000	21.0120			123	285303.988	4821638.511	19.976
M		4.1900					124	Altura Mira		
	67	155.27600	117.40100	26.6470			125	285304.221	4821638.318	19.361
	68	155.27600	118.30600	26.6520			126	Altura Mira		
M		5.6000					127	285307.281	4821633.526	17.451
	69	153.12600	119.53300	20.8730			128	285307.216	4821633.603	17.085
L		632			632		129	Altura Mira		
	70	158.65500	120.58600	20.0460			130	285304.065	4821638.365	16.930
L		23			23		131	Nueva LINEA		
M		4.1900					132	285302.197	4821637.971	16.864
	71	177.31600	119.75800	25.8410			133	Nueva LINEA		
M		2.1500					134	Altura Mira		
	72	177.93000	119.38000	30.9780			135	285299.286	4821630.048	16.752
	73	176.15600	117.02100	35.3790			136	Altura Mira		
	74	172.14800	113.75100	45.8790			137	285300.744	4821625.313	17.399
M		0.5000					138	285303.185	4821621.352	17.337
	75	174.40000	114.40400	48.9320			139	285309.688	4821612.516	16.851
L		23			23		140	Altura Mira		
M		1.3000					141	285309.364	4821609.227	17.357
	76	171.78400	113.49700	49.2430			142	Nueva LINEA		
M		2.1500					143	Altura Mira		
	77	167.93300	113.73200	44.6050			144	285311.347	4821609.620	17.172
	78	164.35400	115.33300	39.6660			145	Altura Mira		
M		4.1900					146	285311.733	4821614.949	17.137
	79	155.25900	118.03500	26.9730			147	285311.161	4821620.470	17.223
L		40			40		148	Altura Mira		
	80	155.14200	117.77300	27.0040			149	285307.441	4821633.347	17.105
M		2.1500					150	Nueva LINEA		
	81	160.43500	114.94800	37.9450			151	285307.517	4821633.332	17.203
	82	164.58900	112.62400	44.4390			152	Altura Mira		
	83	171.03800	111.01300	49.4440			153	285312.189	4821623.105	17.856
L		85			85		154	285313.705	4821616.108	17.930
M		1.3000					155	285312.103	4821609.356	18.173
	84	178.67300	118.02200	34.0130			156	Nueva LINEA		
	85	162.69200	114.77000	41.6700			157	Altura Mira		
L		30			30		158	285301.440	4821622.265	18.033
M		2.1500					159	285313.130	4821619.322	17.953
	86	286.62300	101.87800	60.6590			160	Nueva LINEA		
	87	280.12800	104.30900	48.0450			161	Altura Mira		
	88	267.75100	109.01900	35.3870			162	285231.404	4821640.464	24.895
	89	239.37200	117.52200	25.9700			163	285245.084	4821638.389	23.435
	90	207.91500	120.51100	24.3830			164	285260.070	4821636.113	21.688
	91	200.10600	121.39300	23.9030			165	285276.212	4821632.746	19.626
							166	285287.834	4821630.159	18.963
							167	285290.665	4821630.543	18.802

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LN	X	Y	Z
M		3.1500					168	Altura Mira		
M	92	173.22500	122.37200	20.7010			169	285298.638	4821635.367	18.558
M		2.1500					170	Altura Mira		
M	93	166.18500	123.48300	18.7670			171	285299.569	4821638.016	19.917
M		3.1500					172	Altura Mira		
M	94	150.41800	117.55200	20.2630			173	285304.399	4821639.231	20.168
M		2.1500					174	Altura Mira		
M	95	151.43200	118.73200	24.6360			175	285306.995	4821636.066	19.539
M		4.1900					176	Altura Mira		
M	96	157.01200	111.32200	37.6470			177	285313.864	4821624.187	17.984
M		2.1500					178	Altura Mira		
M	97	158.98700	112.68600	43.8700			179	285316.528	4821618.726	18.000
M		4.1900					180	Altura Mira		
M	98	148.56500	106.99000	61.5180			181	285334.903	4821610.856	17.903
M	99	144.89800	105.63300	73.6600			182	285346.570	4821605.546	18.135
M	100	142.95100	104.78100	83.3610			183	285355.615	4821601.183	18.390
L		23			23		184	Nueva LINEA		
L	101	135.38100	104.81300	82.8360			185	285360.869	4821609.528	18.388
L		102	135.80100	105.73800	69.6320		186	285349.371	4821616.131	18.377
L		103	136.64200	107.28500	50.0180		187	285332.387	4821626.060	18.933
L	104	146.29700	113.45700	29.0380			188	285311.911	4821634.234	18.552
L		23			23		189	Nueva LINEA		
M	105	186.90800	121.36600	17.5340			190	285294.083	4821636.902	18.869
M		3.1500					191	Altura Mira		
M	106	259.84500	115.73600	22.4200			192	285273.147	4821640.289	20.199
M		2.1500					193	Altura Mira		
M	107	273.40900	111.68200	30.5070			194	285263.287	4821640.942	21.117
M		1.3000					195	Altura Mira		
M	108	282.42100	107.13500	42.5300			196	285250.041	4821641.588	22.777
M		4.1900					197	Altura Mira		
L	109	287.04100	99.31600	60.5630			198	285231.394	4821640.868	25.295
L		40			40		199	Nueva LINEA		
M		1.3000					200	Altura Mira		
M	110	293.43800	99.28700	56.4930			201	285234.513	4821647.298	28.167
M		111	296.96900	99.49400	42.9350		202	285247.818	4821651.067	27.875
M	112	298.84600	99.91900	29.4180			203	285261.290	4821652.577	27.571
M		113	299.63500	101.35300	13.6610		204	285277.045	4821653.031	27.244
M	114	155.42700	123.00900	1.7480			205	285291.756	4821651.859	26.916
M		115	116.54900	103.76800	15.7030		206	285305.852	4821649.079	26.605
M	116	117.43900	102.41600	30.1420			207	285319.700	4821644.960	26.390
M		117	119.97300	101.88900	44.9640		208	285333.453	4821639.237	26.200
M	118	122.20600	101.69900	58.4610			209	285345.623	4821633.134	25.974
M		119	124.37600	101.56400	74.6030		210	285359.882	4821625.243	25.702
M	120	125.73800	101.50000	86.6000			211	285370.298	4821619.051	25.494
L		174			174		212	Nueva LINEA		
L	121	124.77700	101.33200	86.6340			213	285370.839	4821620.241	25.722
L		122	123.84800	101.39900	75.9870		214	285361.402	4821625.310	25.865
L	123	121.71600	101.56800	59.9880			215	285347.217	4821633.045	26.057
L		124	119.82500	101.67600	50.3320		216	285338.597	4821637.691	26.209
L	125	117.80600	101.85700	40.0450			217	285329.175	4821642.058	26.366
L		126	115.82500	102.11500	30.2880		218	285320.044	4821645.661	26.528
L	127	114.32300	102.42800	22.3190			219	285312.443	4821648.133	26.683
L		128	113.41000	103.48100	12.4420		220	285302.852	4821650.511	26.854
L	129	115.65400	107.14200	4.1920			221	285294.743	4821652.095	27.065
L		130	302.42700	102.59100	6.7380		222	285283.976	4821653.366	27.260
L	131	303.77800	100.61500	14.1380			223	285276.591	4821653.948	27.397
L		132	301.85600	99.87300	23.5430		224	285267.170	4821653.796	27.581
L	133	300.54300	99.53400	31.5670			225	285259.138	4821653.379	27.765
L		134	298.60800	99.39100	40.8470		226	285249.868	4821652.217	27.925
L	135	296.72900	99.24800	48.9800			227	285241.791	4821650.595	28.113
L		136	294.68600	99.12400	57.5800		228	285233.329	4821648.310	28.327
L	137	293.52400	99.03500	63.1040			229	285227.933	4821646.703	28.491
L		10			10		230	Nueva LINEA		
L	138	295.78000	98.97700	63.9490			231	285226.903	4821648.876	28.562
L		139	297.41400	99.04000	57.5960		232	285233.161	4821650.772	28.403
L	140	301.30200	99.17500	43.6640			233	285247.052	4821654.003	28.100
L		141	304.15900	99.20800	33.9580		234	285256.820	4821655.327	27.957
L	142	308.99700	99.48300	22.2790			235	285268.647	4821656.248	27.715
L		143	317.17500	100.09100	11.5950		236	285279.528	4821656.200	27.517
L	144	385.01500	106.45700	2.1980			237	285290.193	4821655.235	27.311
L		145	96.37800	102.82400	9.3180		238	285299.997	4821653.638	27.121
L	146	106.08300	102.00700	19.8290			239	285310.432	4821651.218	26.909
M		2.1500					240	Altura Mira		
M	147	111.70100	100.06500	32.5710			241	285322.725	4821647.155	26.651
M		1.3000					242	Altura Mira		
M	148	114.80700	101.58700	42.9000			243	285332.434	4821643.223	26.465
M		149	118.46400	101.51700	57.5020		244	285345.787	4821636.668	26.164
M	150	121.51000	101.42800	74.4530			245	285360.928	4821628.433	25.864
M		151	122.82600	101.39500	85.2430		246	285370.505	4821623.201	25.667
M	152	123.46600	101.38100	94.4840			247	285378.819	4821619.071	25.485
L		10			10		248	Nueva LINEA		
L	153	118.57100	101.59100	94.7240			249	285381.396	4821625.873	25.168
L		154	117.17200	101.51900	84.2760		250	285371.908	4821630.655	25.524
L	155	114.75100	101.42600	72.5080			251	285361.255	4821636.460	25.910
M		2.1500					252	Altura Mira		



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M	156	109.81300	100.22900	56.5920			253	285346.623	4821644.419	26.481
		1.3000					254	Altura Mira		
	157	106.04600	101.00700	47.5390			255	285338.022	4821648.600	26.782
	158	100.85900	100.77400	37.5120			256	285328.209	4821652.602	27.078
	159	91.47600	100.54400	25.4650			257	285315.939	4821656.508	27.316
	160	75.66800	100.10900	15.8710			258	285305.429	4821659.028	27.507
	161	32.11300	98.94300	8.7000			259	285294.907	4821660.724	27.678
	162	371.61100	98.06600	9.3160			260	285286.687	4821661.510	27.817
	163	335.62300	98.25300	16.6450			261	285276.602	4821661.942	27.991
	164	322.49300	98.45800	24.7770			262	285267.464	4821661.680	28.134
	165	313.63000	98.71300	33.9420			263	285257.543	4821660.320	28.220
	166	307.87900	98.89300	42.8330			264	285248.204	4821658.397	28.279
	167	303.74100	98.94100	52.0870			265	285238.713	4821656.169	28.401
	168	300.40900	98.91500	61.8310			266	285228.883	4821653.508	28.588
	169	297.34300	98.93900	72.2630			267	285218.513	4821650.096	28.739
	170	297.72900	98.95900	72.4130			268	285218.346	4821650.529	28.718
	171	302.25600	98.92200	60.9490			269	285229.801	4821655.270	28.566
	172	308.37700	98.93900	51.1620			270	285239.991	4821659.822	28.387
	173	318.82100	98.94400	41.4180			271	285251.088	4821665.176	28.221
	174	337.46400	99.06600	32.8370			272	285263.393	4821671.336	28.016
	175	356.84600	99.21700	29.3850			273	285272.277	4821675.996	27.895
	176	381.23400	99.54300	29.4500			274	285282.148	4821681.288	27.745
	177	6.64600	99.89900	35.3080			275	285294.383	4821688.224	27.590
	178	20.55100	100.13700	43.4070			276	285304.474	4821694.273	27.441
	179	30.80200	100.28700	54.9550			277	285316.268	4821701.755	27.286
	180	36.55800	100.37900	66.0750			278	285326.596	4821708.583	27.141
	181	40.96500	100.43800	79.5270			279	285338.418	4821716.729	26.987
	182	43.67500	100.48100	92.2540			280	285349.144	4821724.487	26.838
	183	45.54100	100.48300	105.1220			281	285359.651	4821732.457	26.737
	184	47.02500	100.50800	120.2960			282	285371.698	4821742.046	26.575
	185	47.85700	100.50900	133.4930			283	285381.866	4821750.620	26.468
	186	48.41400	100.50900	146.0050			284	285391.340	4821758.883	26.368
	187	48.91100	100.47400	168.0600			285	285407.489	4821773.953	26.285
	188	49.07800	100.46500	168.0720			286	285407.814	4821773.655	26.308
	189	48.90100	100.49500	145.0510			287	285391.483	4821757.424	26.408
	190	48.84700	100.51000	131.4980			288	285381.986	4821747.755	26.482
	191	48.84700	100.50600	119.4620			289	285373.631	4821739.092	26.585
	192	49.17800	100.46700	110.4070			290	285367.758	4821732.175	26.725
	193	50.29200	100.42000	100.6270			291	285362.183	4821723.932	26.871
	194	51.95500	100.37300	92.8780			292	285358.364	4821716.733	26.990
	195	54.41600	100.37800	85.9560			293	285355.550	4821709.527	27.024
	196	57.59000	100.40900	80.0660			294	285353.650	4821702.585	27.020
	197	63.57000	100.49700	73.1760			295	285352.220	4821692.732	26.963
	198	69.91100	100.59100	69.2300			296	285352.341	4821684.622	26.892
	199	77.61100	100.72700	66.8750			297	285353.481	4821676.143	26.771
	200	85.97600	100.85500	66.6900			298	285355.776	4821667.678	26.639
	201	93.01400	100.98900	68.5980			299	285358.880	4821660.619	26.469
	202	100.24800	101.12900	72.7690			300	285363.460	4821652.823	26.244
	203	107.10900	101.25900	79.8470			301	285370.037	4821644.211	25.955
L		174			174		302	Nueva LINEA		
	204	107.29900	101.20100	78.9210			303	285369.091	4821644.080	26.046
	205	102.32900	101.09500	73.2110			304	285363.854	4821650.430	26.275
	206	95.66900	100.96600	68.7060			305	285359.242	4821657.777	26.492
	207	87.70600	100.82600	66.0690			306	285355.539	4821665.786	26.677
	208	79.86200	100.69500	65.6250			307	285353.069	4821673.520	26.818
	209	73.35400	100.58300	66.9120			308	285351.837	4821680.302	26.922
	210	65.79500	100.47700	70.5130			309	285351.280	4821689.195	27.006
	211	60.07000	100.39900	75.6280			310	285351.936	4821697.492	27.060
	212	55.19400	100.33500	82.7250			311	285353.771	4821706.640	27.099
	213	52.47500	100.32400	89.1620			312	285356.154	4821713.655	27.081
	214	50.50700	100.35300	96.5050			313	285359.484	4821720.799	27.000
	215	49.15300	100.42100	105.2670			314	285364.141	4821728.524	26.839
	216	48.63800	100.43900	109.9160			315	285366.745	4821732.472	26.777
	217	48.35200	100.45500	113.3900			316	285368.780	4821735.332	26.724
	218	47.83600	100.44800	113.3210			317	285368.064	4821735.911	26.737
	219	47.49100	100.42800	110.3290			318	285365.583	4821734.132	26.793
	220	46.41500	100.41400	100.2150			319	285357.465	4821727.844	26.883
	221	45.03900	100.40300	90.5540			320	285349.556	4821721.927	26.961
	222	42.81600	100.35000	79.1360			321	285340.004	4821715.009	27.099
	223	39.99200	100.29000	68.9450			322	285331.222	4821708.890	27.220
	224	35.89300	100.20200	58.6880			323	285322.067	4821702.712	27.348
	225	29.89000	100.09600	49.0020			324	285312.875	4821696.808	27.460
	226	23.90700	99.97200	42.5230			325	285306.300	4821692.668	27.553
	227	10.83400	99.73700	34.2080			326	285296.497	4821686.822	27.675
	228	396.77200	99.48000	29.5370			327	285289.207	4821682.607	27.775
	229	377.15500	99.18200	26.7330			328	285281.316	4821678.137	27.878
	230	353.27100	98.86000	27.3040			329	285272.417	4821673.379	28.023
	231	334.36200	98.78700	30.9670			330	285264.144	4821669.022	28.124
	232	320.64000	98.73600	36.8500			331	285255.780	4821664.847	28.266
	233	313.44600	98.78000	41.7660			332	285249.873	4821661.864	28.334
	234	312.20500	98.76200	41.3760			333	285250.093	4821660.993	28.339
	235	315.47200	98.63400	36.0670			334	285255.704	4821661.787	28.308
	236	321.28100	98.39900	28.6990			335	285263.602	4821662.523	28.256
	237	331.79000	98.14800	20.5840			336	285272.641	4821662.962	28.133
	238	346.02000	97.95100	14.8010			337	285279.610	4821662.896	28.010

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

06 AGO 2007

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	239	389.72300	97.91500	9.3510						
	240	40.90300	98.85500	10.4030			338	285289.201	4821662.333	27.840
	241	75.98300	100.00700	17.6500			339	285296.936	4821661.436	27.721
	242	87.08400	100.28300	24.0330			340	285307.112	4821659.610	27.532
	243	96.98600	100.60000	34.2800			341	285314.243	4821657.951	27.421
	244	102.27900	100.80000	42.8080			342	285324.943	4821654.730	27.217
	245	107.75300	101.09700	53.8190			343	285333.480	4821651.576	26.996
M		2.1500					344	285344.115	4821646.570	26.607
	246	111.60600	100.44900	64.1840			345	Altura Mira		
M		1.3000					346	285353.821	4821641.471	26.232
	247	114.55100	101.45600	74.6360			347	Altura Mira		
	248	117.16000	101.55000	87.2220			348	285363.378	4821636.200	25.828
L		32					349	285374.750	4821629.887	25.411
	249	114.26100	101.72800	88.1000	32		350	Nueva LINEA		
	250	110.14200	101.64300	75.7830			351	285376.569	4821633.543	25.143
M		2.1500					352	285365.501	4821641.089	25.579
	251	103.55900	100.84800	65.2120			353	Altura Mira		
	252	88.85200	100.80400	52.1270			354	285355.807	4821649.464	25.816
	253	81.08500	100.75500	48.0590			355	285342.029	4821662.188	26.026
	254	74.03000	100.64100	44.8360			356	285336.653	4821667.177	26.114
	255	65.17900	100.45200	41.2170			357	285331.858	4821670.894	26.233
	256	56.65100	100.44800	37.5000			358	285325.906	4821674.544	26.391
	257	48.56600	100.46800	33.9440			359	285319.840	4821676.714	26.420
	258	51.27900	100.33600	39.1400			360	285314.158	4821677.644	26.435
	259	52.28600	100.29900	45.4440			361	285318.930	4821680.222	26.478
	260	52.30700	100.30400	51.3800			362	285323.970	4821684.067	26.471
	261	51.89500	100.24600	56.9140			363	285328.327	4821688.098	26.439
	262	50.69800	100.07700	68.5770			364	285332.128	4821692.136	26.464
	263	49.40300	99.97900	83.3260			365	285339.724	4821701.064	26.601
M		1.3000					366	285349.070	4821712.577	26.712
	264	48.72200	100.58800	95.3050			367	Altura Mira		
	265	48.42300	100.49700	103.7750			368	285356.726	4821721.834	26.654
	266	48.23800	100.46300	112.4440			369	285362.243	4821728.279	26.725
	267	47.89200	100.47400	112.4280			370	285367.982	4821734.784	26.717
	268	47.71700	100.44900	110.4610			371	285367.526	4821735.191	26.698
	269	48.02500	100.60200	96.2150			372	285365.960	4821733.962	26.756
	270	48.59700	100.67200	84.7190			373	285356.593	4821723.215	26.625
	271	49.18300	100.78800	75.4620			374	285349.272	4821714.315	26.640
	272	50.47300	101.04900	61.4560			375	285343.371	4821707.143	26.600
	273	50.94000	101.25100	53.9110			376	285334.476	4821696.234	26.522
	274	51.05100	101.57400	44.8120			377	285329.376	4821690.654	26.475
M		1.6000					378	285322.900	4821684.258	26.426
	275	49.37700	101.28100	38.3180			379	Altura Mira		
	276	45.49300	101.57000	32.5350			380	285317.527	4821680.461	26.463
	277	39.52400	101.74700	27.9170			381	285312.018	4821677.676	26.432
M		2.1500					382	285306.937	4821675.807	26.468
	278	23.03900	100.51600	21.7920			383	Altura Mira		
	279	5.41700	99.76700	19.1930			384	285298.419	4821673.488	26.507
	280	359.23300	98.03600	20.3070			385	285292.335	4821672.232	26.754
	281	337.73200	97.51900	26.0340			386	285278.576	4821669.385	27.310
	282	331.27400	97.51400	29.1900			387	285269.126	4821667.641	27.698
M		1.3000					388	285264.985	4821666.869	27.824
	283	319.20500	98.82500	36.2080			389	Altura Mira		
	284	313.14000	98.88100	41.5480			390	285256.136	4821663.866	28.202
	285	312.38800	98.83800	41.2830			391	285250.044	4821661.624	28.264
	286	317.96200	98.85200	35.6050			392	285250.206	4821661.091	28.288
	287	327.05800	99.07400	29.9920			393	285256.512	4821663.021	28.176
	288	337.37400	99.72400	24.7750			394	285263.383	4821665.475	27.970
	289	353.93000	100.45100	20.1220			395	285270.077	4821666.833	27.641
M		2.1500					396	285277.380	4821668.188	27.391
	290	378.50700	98.75100	17.4350			397	Altura Mira		
	291	3.11500	99.61000	17.3840			398	285284.930	4821669.557	27.026
	292	35.35300	100.62300	24.2640			399	285291.554	4821670.472	26.791
	293	47.59600	100.49200	32.4090			400	285303.495	4821673.725	26.447
	294	57.15600	100.49100	36.4670			401	285312.738	4821676.873	26.434
	295	64.53900	100.47900	39.7790			402	285319.218	4821675.838	26.403
	296	74.42700	100.67000	43.8680			403	285324.468	4821674.137	26.385
	297	79.61800	100.72900	46.2490			404	285331.077	4821670.258	26.222
	298	87.96100	100.81300	50.3470			405	285334.599	4821667.662	26.155
	299	98.08200	100.78100	56.6200			406	285340.148	4821662.571	26.041
	300	105.95000	100.92800	65.1200			407	285347.293	4821654.813	25.990
	301	109.65000	100.95900	70.9260			408	285355.531	4821647.030	25.735
	302	113.06600	101.04800	78.2760			409	285360.807	4821642.398	25.616
L		630					410	285367.325	4821637.156	25.396
	303	113.04600	101.17000	80.7560	630		411	Nueva LINEA		
	304	108.31600	101.05400	70.4790			412	285369.755	4821636.676	25.200
	305	100.15200	100.98800	59.7140			413	285360.571	4821643.928	25.518
	306	85.72700	101.04900	49.7710			414	285350.409	4821652.965	25.758
	307	79.13800	100.96900	46.5970			415	285339.222	4821664.171	25.864
	308	68.92200	100.89200	42.1230			416	285334.815	4821668.104	25.975
	309	63.37400	100.74800	39.8020			417	285327.902	4821672.862	26.094
	310	56.27000	100.80600	36.6970			418	285324.096	4821674.763	26.216
	311	48.96600	100.81600	33.5400			419	285319.076	4821676.378	26.219
	312	47.24500	100.84500	33.1770			420	285314.030	4821677.205	26.254
	313	50.77700	100.67200	40.1890			421	285313.124	4821677.559	26.244
							422	285319.465	4821681.175	26.260





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 TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	314	51.69600	100.51500	47.8880						
	315	51.33300	100.45100	56.6980			423	285325.455	4821686.055	26.297
	316	50.33400	100.26500	67.5830			424	285331.625	4821692.350	26.283
	317	49.39900	100.19400	78.2950			425	285338.742	4821700.644	26.403
	318	48.38900	100.14800	95.7130			426	285345.542	4821708.990	26.446
	319	48.02200	100.01800	109.2860			427	285356.650	4821722.477	26.462
L		630					428	285365.544	4821732.747	26.654
	320	41.63600	101.00200	28.3460		630	429	Nueva LINEA		
	321	30.35300	101.14200	22.9790			430	285307.947	4821675.602	26.238
L		32					431	285301.247	4821673.522	26.272
	322	12.18700	101.70700	19.4060		32	432	Nueva LINEA		
	323	13.13300	101.66600	18.8630			433	285294.395	4821672.153	26.164
	324	10.07800	101.72100	18.4210			434	285294.566	4821671.566	26.190
	325	9.14800	101.72100	18.9700			435	285293.606	4821671.293	26.186
L		630					436	285293.419	4821671.876	26.171
	326	389.25400	99.88700	17.7960		630	437	Nueva LINEA		
	327	358.41100	98.65400	19.8860			438	285287.714	4821670.652	26.716
	328	329.11600	97.72300	29.6910			439	285278.620	4821668.897	27.104
	329	312.82800	97.70600	41.3640			440	285264.081	4821666.212	27.746
L		4					441	285250.203	4821661.383	28.174
	330	333.00600	97.13900	24.3710		4	442	Nueva LINEA		
	331	369.08500	96.22700	14.5750			443	285269.557	4821665.174	27.779
	332	34.71900	98.66300	16.9990			444	285283.912	4821665.976	27.547
	333	64.90700	99.80100	28.1050			445	285299.519	4821667.639	27.041
	334	73.47500	100.16500	34.2230			446	285314.645	4821667.828	26.772
	335	90.37000	100.28500	43.7080			447	285321.998	4821666.958	26.595
	336	103.43100	100.72900	58.4600			448	285333.911	4821659.694	26.488
	337	110.80600	100.88500	70.4400			449	285349.074	4821649.958	26.015
L		4					450	285360.123	4821641.209	25.705
	338	107.04200	100.79200	73.6380		4	451	Nueva LINEA		
	339	94.05800	100.56700	61.6850			452	285363.885	4821644.979	25.768
	340	79.94700	100.54300	56.0880			453	285352.117	4821658.856	26.135
	341	66.56700	100.31100	56.1430			454	285344.030	4821670.483	26.206
	342	56.27700	99.96100	66.0670			455	285339.280	4821681.255	26.410
	343	51.06700	99.89900	84.9390			456	285341.792	4821694.998	26.725
L		4					457	285351.763	4821712.153	26.819
	344	47.31700	99.93600	86.1370		4	458	Nueva LINEA		
	345	44.78300	99.82700	67.0520			459	285348.992	4821716.527	26.771
	346	44.39900	100.00100	51.5750			460	285334.077	4821704.242	26.867
	347	35.33300	99.85300	36.6490			461	285323.828	4821692.640	26.683
	348	9.43300	98.99500	24.9970			462	285310.016	4821684.256	26.769
	349	360.71000	97.52600	23.1510			463	285294.394	4821677.829	27.079
L		750				750	464	285277.316	4821671.975	27.583
M		1.3000					465	Nueva LINEA		
	350	321.28800	98.74900	35.1180			466	Altura Mira		
L		750				750	467	285257.537	4821664.633	28.224
	351	5.94000	99.65300	30.9780			468	Nueva LINEA		
L		750				750	469	285293.590	4821683.952	27.703
	352	39.50500	100.28000	64.6820			470	Nueva LINEA		
L		750				750	471	285328.315	4821705.730	27.250
	353	47.41700	100.38200	104.2080			472	Nueva LINEA		
L		4				4	473	285361.340	4821729.720	26.909
	354	57.53500	101.66100	42.7740			474	Nueva LINEA		
B	30061	285485.369	4821853.910	25.753			475	285324.298	4821679.562	26.418
L		6				6	476	BASE (coord de FICHERO DE BASES)		
H		1.6280	1.5000				477	Nueva LINEA		
O	30060	249.01000	99.70800	279.6740			478	Altura Aparato y Mira		
L		6				6	479	285290.703	4821653.109	27.170
M		1.3000					480	Nueva LINEA		
D	30062	34.50900	100.51800	295.0170			481	Altura Mira		
L		6				6	482	285637.575	4822106.619	23.686
D	30515	209.68100	107.85700	76.7290			483	Nueva LINEA		
L		10				10	484	285473.831	4821778.644	16.636
	355	224.42600	100.49100	236.5400			485	Nueva LINEA		
	356	226.97800	100.38600	235.9940			486	285396.818	4821634.579	24.260
	357	229.23800	100.29700	234.6120			487	285388.322	4821638.799	24.654
	358	231.33700	100.21800	232.4480			488	285381.360	4821643.616	24.990
	359	233.35000	100.15500	229.5690			489	285375.507	4821649.065	25.289
	360	235.43300	100.08500	225.8170			490	285370.526	4821655.133	25.526
	361	237.38600	100.03100	221.3080			491	285366.066	4821662.182	25.783
	362	239.41300	99.98200	215.4330			492	285362.740	4821669.685	25.976
M		2.1500					493	285360.347	4821678.466	26.145
	363	241.19200	99.68500	209.2040			494	Altura Mira		
	364	242.81800	99.63900	202.2410			495	285359.250	4821687.000	26.269
	365	244.29300	99.60500	193.6470			496	285359.367	4821695.722	26.381
M		1.3000					497	285361.245	4821705.280	26.435
	366	245.39000	99.87900	185.4140			498	Altura Mira		
	367	246.39900	99.88200	173.8950			499	285364.086	4821713.666	26.436
	368	246.84500	99.89000	162.6120			500	285369.551	4821724.198	26.405
	369	246.95900	99.89000	151.5770			501	285376.218	4821733.376	26.364
	370	246.91000	99.87500	141.9590			502	285383.424	4821741.738	26.344
	371	246.76900	99.83900	127.2170			503	285389.974	4821748.782	26.361
	372	246.55300	99.78500	112.6350			504	285400.089	4821759.510	26.404
	373	246.24900	99.74600	99.4560			505	285410.149	4821770.075	26.462
							506	285419.304	4821779.568	26.478



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	374	245.82200	99.70100	85.5690			507	285428.959	4821789.569	26.483
	375	245.45400	99.70800	73.6050			508	285437.167	4821798.285	26.419
	376	245.12500	99.73000	57.9450			509	285447.649	4821809.924	26.327
	377	245.14700	99.81100	41.8090			510	285458.142	4821822.182	26.205
	378	245.58900	99.94800	31.6070			511	285464.620	4821830.068	26.107
	379	247.68700	100.45000	18.8210			512	285472.553	4821840.128	25.948
	380	257.01100	102.39400	7.6860			513	285479.374	4821849.109	25.792
	381	26.30700	103.77000	9.0810			514	285489.010	4821862.212	25.544
	382	33.50400	102.18200	21.3720			515	285496.099	4821872.379	25.349
	383	35.11300	101.71300	35.1930			516	285503.805	4821883.873	25.134
	384	35.55900	101.48100	49.4460			517	285511.568	4821895.829	24.931
	385	35.75700	101.32100	65.3610			518	285520.175	4821909.216	24.725
	386	35.78000	101.25700	76.6320			519	285526.201	4821918.740	24.568
	387	35.82800	101.13400	96.3390			520	285536.765	4821935.376	24.366
	388	35.94400	101.05000	119.5400			521	285549.328	4821954.881	24.110
	389	36.06600	101.00700	134.2200			522	285557.400	4821967.144	23.959
	390	36.24500	100.96800	148.8190			523	285565.588	4821979.236	23.820
	391	36.45300	100.94800	162.0390			524	285573.160	4821990.084	23.670
	392	36.75600	100.91600	176.0520			525	285581.456	4822001.405	23.550
	393	37.26500	100.88600	191.7170			526	285591.288	4822013.689	23.415
L		10					527	Nueva LINEA		
	394	36.58700	100.91100	175.2090		10	528	285580.606	4822000.953	23.576
	395	37.12600	100.88100	191.7120			529	285590.936	4822013.916	23.430
	396	37.67000	100.84700	206.9240			530	285600.785	4822025.633	23.331
	397	38.25500	100.81900	223.1740			531	285611.546	4822037.968	23.213
L		174					532	285618.537	4822045.611	23.159
	399	39.28600	100.83300	232.5120		174	533	Nueva LINEA		
	400	38.87400	100.86100	220.5320			534	285619.913	4822043.515	23.042
	401	38.49500	100.87800	209.8840			535	285611.814	4822034.567	23.102
	402	38.21900	100.89500	201.6750			536	285604.682	4822026.557	23.189
M		2.1500					537	285599.295	4822020.299	23.248
M	403	37.87900	100.63200	190.5560			538	Altura Mira		
		1.3000					539	285592.178	4822011.706	23.342
	404	37.55700	100.95500	176.1920			540	Altura Mira		
	405	37.40100	100.97800	165.6940			541	285583.381	4822000.300	23.440
	406	37.30600	100.99300	154.7540			542	285577.203	4821991.802	23.537
	407	37.26100	101.01700	143.8950			543	285570.947	4821982.825	23.669
	408	37.21500	101.03600	135.1850			544	285564.857	4821973.835	23.784
	409	37.21400	101.05400	129.4990			545	285559.964	4821966.629	23.882
	410	37.21700	101.09100	117.6290			546	285556.824	4821961.889	23.938
	411	37.28600	101.11400	107.7830			547	285550.279	4821951.987	24.066
	412	37.43800	101.15300	94.5120			548	285544.943	4821943.713	24.196
	413	37.56000	101.21200	85.4880			549	285537.795	4821932.530	24.370
	414	37.85200	101.27800	72.2230			550	285532.925	4821924.931	24.454
	415	38.45500	101.40700	54.4740			551	285525.819	4821913.725	24.632
	416	39.35100	101.60300	38.7500			552	285516.303	4821898.732	24.877
	417	40.51900	101.93400	23.9650			553	285507.819	4821885.479	25.105
	418	41.21600	102.52900	14.5610			554	285499.607	4821873.173	25.353
	419	41.92200	103.21800	10.3310			555	285494.145	4821865.515	25.503
	420	52.29500	113.09900	1.7480			556	285491.683	4821862.070	25.559
	421	239.52100	100.63200	13.5510			557	285486.622	4821855.076	25.724
	422	240.84200	99.83000	27.7810			558	285477.487	4821842.888	25.946
	423	241.85700	99.65600	43.6550			559	285468.743	4821831.653	26.155
	424	242.53300	99.61600	56.0930			560	285458.689	4821819.357	26.317
	425	243.32400	99.62100	70.2150			561	285450.618	4821809.880	26.420
	426	243.94300	99.63100	82.1750			562	285441.188	4821799.339	26.499
	427	244.16400	99.63900	86.5670			563	285433.044	4821790.550	26.558
	428	245.01900	99.72400	107.0320			564	285430.016	4821787.355	26.572
	429	245.35500	99.79300	118.6690			565	285415.831	4821772.547	26.546
	430	245.73400	99.88100	135.4160			566	285407.795	4821764.108	26.468
	431	245.95300	99.91800	150.0090			567	285396.239	4821751.964	26.335
	432	245.92500	99.94600	162.8130			568	285386.245	4821741.318	26.276
	433	245.50500	99.93900	174.7370			569	285377.839	4821731.660	26.221
	434	244.96300	99.94100	181.7490			570	285370.831	4821721.948	26.250
	435	244.25500	99.94700	188.1380			571	285367.408	4821715.644	26.252
M		2.1500					572	285364.861	4821709.434	26.240
M	436	243.27700	99.67500	194.8650			573	Altura Mira		
		2.2500					574	285362.867	4821702.370	26.228
M	437	242.19900	99.66200	200.7630			575	Altura Mira		
		2.1500					576	285361.821	4821695.669	26.200
	438	241.08500	99.73200	205.9340			577	Altura Mira		
	439	239.18300	99.77900	213.1150			578	285361.498	4821689.400	26.101
	440	237.58700	99.82300	217.8850			579	285362.321	4821679.910	25.974
	441	235.86200	99.88000	222.1630			580	285364.065	4821672.917	25.840
	442	234.38100	99.92800	225.3160			581	285366.728	4821666.080	25.653
	443	232.56500	99.99500	228.3710			582	285369.508	4821660.666	25.489
	444	230.58800	100.06800	230.9680			583	285373.571	4821654.776	25.252
	445	228.20400	100.15900	233.1500			584	285378.608	4821649.098	24.988
	446	226.39600	100.23900	233.8880			585	285385.416	4821643.274	24.652
	447	224.44700	100.32100	234.2020			586	285391.140	4821639.846	24.357
L		40				40	587	285397.620	4821636.772	24.054
	448	45.27600	100.46200	14.9280			588	Nueva LINEA		
	449	44.44900	99.90500	18.2350			589	285495.113	4821865.218	25.123
	450	40.97600	100.45400	35.9940			590	285497.092	4821867.877	25.258
							591	285506.970	4821882.700	24.974

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

05 450 2007

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	451	39.45300	100.56200	54.3010			592	285516.908	4821898.110	24.752
	452	38.46500	100.69700	73.5640			593	285527.161	4821914.444	24.426
	453	38.14900	100.67400	88.6100			594	285535.346	4821927.075	24.293
	454	37.64900	100.71300	106.8550			595	285544.942	4821942.609	24.035
	455	37.60200	100.75500	127.2310			596	285556.223	4821959.575	23.723
L		60			60		597	Nueva LINEA		
	456	37.49200	100.69800	127.6220			598	285556.258	4821960.023	23.833
	457	38.23300	100.90800	127.7030			599	285557.531	4821959.253	23.411
	458	37.71000	100.70300	139.6930			600	285563.360	4821969.793	23.690
L		23			23		601	285562.607	4821970.352	23.784
	460	38.66600	100.98000	126.6860			602	Nueva LINEA		
	461	38.82300	101.14300	109.0620			603	285557.665	4821957.923	23.282
M		3.1500					604	285547.825	4821943.296	23.274
	462	40.81100	100.83600	93.6480			605	Altura Mira		
	463	43.09900	101.66800	72.9500			606	285541.372	4821928.957	23.002
	464	46.12600	102.52600	58.9180			607	285531.055	4821910.750	22.320
	465	52.74100	104.41900	42.0800			608	285524.390	4821897.991	21.894
	466	61.96800	107.92300	28.4670			609	285516.304	4821882.287	21.313
L		40			40		610	285508.724	4821869.798	20.697
M		1.8000					611	Nueva LINEA		
	467	136.96500	82.61400	107.4940			612	Altura Mira		
	468	133.10000	82.41800	105.9500			613	285571.912	4821797.125	54.575
	469	126.97100	82.52500	103.6540			614	285573.831	4821803.263	54.472
	470	116.51000	83.04500	107.6380			615	285576.319	4821812.890	53.678
	471	107.29500	83.95300	112.2470			616	285585.738	4821827.277	53.911
M		2.5000					617	285593.355	4821841.477	53.577
	472	98.51800	84.33100	117.5570			618	Altura Mira		
L		23			23		619	285599.352	4821856.559	53.525
M		2.1500					620	Nueva LINEA		
	473	180.58000	108.04200	66.0860			621	Altura Mira		
	474	150.46600	109.64000	48.6550			622	285505.057	4821791.377	16.905
M		1.3000					623	285519.128	4821819.650	17.892
	475	121.31100	110.35900	42.3280			624	Altura Mira		
	476	91.92800	107.28900	46.7310			625	285524.819	4821840.186	19.224
M		2.5000					626	285531.421	4821859.779	20.742
	477	75.92000	105.91800	54.6940			627	Altura Mira		
M		2.1500					628	285535.978	4821874.019	19.804
	478	63.83000	103.34100	76.4790			629	Altura Mira		
	479	58.43600	101.95700	97.6270			630	285549.745	4821895.002	21.220
	480	51.09000	101.46300	127.4780			631	285562.883	4821913.185	22.231
	481	50.38900	101.12900	140.8650			632	285577.019	4821942.467	22.303
	482	46.45400	101.03000	175.5460			633	285585.570	4821952.886	22.734
	483	43.75800	100.80400	212.3650			634	285602.385	4821984.736	22.393
	484	43.03800	100.72300	235.7110			635	285620.108	4822018.034	22.552
L		40			40		636	285632.852	4822037.760	22.558
	485	81.83600	88.32700	114.2220			637	Nueva LINEA		
	486	69.49800	90.00900	134.1250			638	285593.137	4821885.516	46.058
L		30			30		639	285602.930	4821914.977	46.195
	487	43.02000	100.77900	235.7460			640	Nueva LINEA		
	488	43.77600	100.95000	215.1420			641	285632.821	4822037.827	22.350
	489	45.74700	100.96900	185.6830			642	285621.912	4822020.137	22.024
	490	49.03800	101.14200	147.7860			643	285607.600	4821993.658	22.407
	491	53.10100	101.70100	117.5200			644	285588.266	4821959.956	22.582
	492	56.85200	101.95600	101.8040			645	285572.387	4821932.833	22.092
	493	61.72900	103.24400	79.9540			646	285564.636	4821917.713	22.104
	494	70.79800	106.67000	52.4750			647	285551.221	4821899.070	21.159
	495	64.17100	110.27400	29.6910			648	285532.162	4821877.016	19.743
	496	59.30600	108.49700	22.6230			649	285510.155	4821869.545	20.460
	497	46.05700	100.75100	14.1020			650	285503.364	4821867.285	22.220
L		750			750		651	285494.704	4821864.479	25.065
M		1.3000					652	Nueva LINEA		
	498	240.21700	98.40200	35.4650			653	Altura Mira		
L		4			4		654	285464.431	4821825.299	26.971
M		2.1500					655	Nueva LINEA		
	499	50.14100	101.62500	17.9150			656	Altura Mira		
	500	46.83000	102.99700	33.3380			657	285498.061	4821866.545	24.774
	501	43.56200	101.94600	49.1580			658	285507.716	4821878.599	23.662
	502	41.26700	101.66300	69.1550			659	285516.429	4821891.982	23.729
L		4			4		660	285527.110	4821909.017	23.425
M		1.3000					661	Nueva LINEA		
	503	62.39800	108.95000	41.2110			662	Altura Mira		
	504	52.76900	104.42800	70.8790			663	285519.261	4821876.633	20.306
M		2.1500					664	285537.495	4821901.684	21.155
	505	48.26100	102.10800	98.2400			665	Altura Mira		
	506	45.89500	101.36600	126.6190			666	285552.877	4821925.206	21.979
	507	43.04400	101.00300	155.2830			667	285568.931	4821949.001	22.515
	508	42.21200	100.90800	180.1440			668	285582.535	4821975.011	22.786
	509	41.40500	100.84400	207.9440			669	285596.248	4821995.864	22.664
	510	41.14400	100.71300	243.4930			670	285611.273	4822019.382	22.477
B	30062	285637.575	4822106.616	23.691			671	285632.005	4822048.278	22.508
L		6			6		672	BASE (coord de FICHERO DE BASES)		
H		1.6250	1.3000				673	Nueva LINEA		
O	30061	234.50900	99.62700	295.0110			674	Altura Aparato y Mira		
							675	285485.369	4821853.910	25.753

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L		6			6		676	Nueva LINEA		
D	30063	65.06700	99.36200	354.98660			677	285940.437	4822291.753	27.582
L		6			6		678	Nueva LINEA		
D	30516	135.16200	83.34000	70.2090			679	285695.308	4822071.031	42.181
L		6			6		680	Nueva LINEA		
M		1.7000					681	Altura Mira		
D	30517	69.53000	100.52500	348.2520			682	285946.690	4822266.985	20.752
L		10			10		683	Nueva LINEA		
M		1.3000					684	Altura Mira		
	511	72.27800	100.80600	186.6420			685	285806.789	4822185.332	21.655
	512	72.44400	100.84800	172.2290			686	285793.909	4822178.845	21.724
	513	72.74100	100.88500	158.7320			687	285781.966	4822172.511	21.811
	514	73.32800	100.94300	142.8280			688	285768.038	4822164.708	21.902
	515	74.35400	101.01200	125.8630			689	285753.350	4822155.947	22.016
	516	76.01900	101.11100	108.3300			690	285738.296	4822146.454	22.126
	517	78.48300	101.23600	92.2270			691	285724.569	4822137.188	22.226
	518	82.55200	101.41500	75.4960			692	285710.236	4822127.041	22.338
	519	87.99900	101.61300	61.9760			693	285698.434	4822118.224	22.446
	520	97.98500	101.95200	48.0650			694	285685.593	4822108.134	22.543
	521	114.91800	102.32800	36.9390			695	285673.480	4822098.043	22.666
	522	138.01600	102.59900	31.1370			696	285663.301	4822089.121	22.745
	523	175.16800	102.26200	32.1690			697	285649.798	4822076.882	22.873
	524	197.10600	101.71300	39.7790			698	285639.380	4822066.893	22.946
	525	212.62600	101.13600	53.0490			699	285627.122	4822054.616	23.070
	526	218.07600	100.90200	61.5510			700	285620.331	4822047.536	23.144
L		174			174		701	Nueva LINEA		
	527	216.43700	100.98500	63.7350			702	285621.301	4822045.002	23.030
	528	210.01200	101.25800	53.9870			703	285629.119	4822053.306	22.949
	529	201.12100	101.59600	45.4830			704	285636.772	4822061.155	22.876
	530	184.55900	102.11000	37.1170			705	285646.483	4822070.605	22.786
	531	166.94600	102.45800	33.3070			706	285654.088	4822077.719	22.730
	532	136.40400	102.63400	33.7230			707	285665.908	4822088.380	22.621
	533	114.13100	102.35500	40.2550			708	285676.815	4822097.758	22.527
	534	101.17900	102.06300	48.8280			709	285686.369	4822105.710	22.434
	535	92.51800	101.79600	59.1160			710	285696.260	4822113.542	22.349
	536	86.13100	101.56700	71.4690			711	285707.334	4822122.055	22.257
	537	82.54800	101.41800	82.0740			712	285716.565	4822128.825	22.188
	538	79.48000	101.29000	95.6190			713	285728.252	4822136.895	22.079
	539	77.47000	101.17500	108.1550			714	285739.012	4822144.087	22.021
	540	75.99500	101.10000	121.0310			715	285750.088	4822151.167	21.926
	541	74.82400	101.02200	135.1390			716	285762.270	4822158.664	21.848
	542	74.10200	100.97300	147.9180			717	285773.408	4822165.130	21.757
	543	73.62800	100.92300	159.7940			718	285783.840	4822170.920	21.701
	544	73.23400	100.88100	174.5830			719	285796.941	4822177.860	21.602
	545	73.03700	100.84400	186.6060			720	285807.681	4822183.293	21.544
L		60			60		721	Nueva LINEA		
	546	73.74900	100.85300	184.2580			722	285806.376	4822180.445	21.549
	547	73.61500	100.82300	194.3750			723	285815.482	4822184.874	21.506
L		32			32		724	Nueva LINEA		
	548	73.51500	100.89400	184.1630			725	285806.016	4822181.026	21.432
	549	73.74100	100.92500	173.0270			726	285796.076	4822175.964	21.504
	550	74.06800	100.96600	161.0910			727	285785.471	4822170.421	21.573
	551	74.76600	101.03500	145.3160			728	285771.609	4822162.705	21.655
	552	75.48900	101.09200	133.8990			729	285761.655	4822156.892	21.721
	553	76.49000	101.15800	122.3720			730	285751.680	4822150.774	21.791
	554	77.69800	101.22700	111.6880			731	285742.461	4822144.935	21.864
	555	79.98600	101.36700	97.1480			732	285729.941	4822136.645	21.931
	556	82.83300	101.45600	84.7030			733	285719.196	4822129.171	22.079
	557	87.55000	101.68700	70.7820			734	285706.984	4822120.362	22.141
	558	92.86800	101.89000	60.6940			735	285697.862	4822113.395	22.215
	559	101.25400	102.14100	50.5490			736	285688.085	4822105.619	22.316
	560	112.88500	102.46800	42.2310			737	285678.912	4822098.131	22.379
	561	131.48900	102.79800	35.8080			738	285669.060	4822089.633	22.443
	562	157.27000	102.82000	33.7770			739	285658.560	4822080.191	22.520
	563	164.97500	102.81900	34.6870			740	285655.691	4822077.076	22.481
	564	173.02700	103.07100	37.1220			741	285652.818	4822072.815	22.226
	565	178.15900	103.14700	39.3720			742	285650.801	4822069.583	22.071
	566	177.29600	103.15700	40.3490			743	285651.643	4822068.852	22.016
	567	171.34300	102.97200	38.1990			744	285654.175	4822072.259	22.233
	568	160.14900	102.78800	35.7260			745	285658.485	4822077.691	22.452
	569	145.39600	102.78500	35.6860			746	285664.539	4822083.293	22.455
	570	129.83200	102.64100	38.1320			747	285671.566	4822089.407	22.435
	571	114.41900	102.33200	43.8560			748	285680.282	4822096.772	22.410
	572	101.41700	102.06200	53.3330			749	285690.867	4822105.427	22.289
	573	93.91100	101.82400	62.6850			750	285699.948	4822112.597	22.220
	574	88.81900	101.61600	72.2490			751	285708.690	4822119.233	22.183
	575	84.78000	101.45600	83.1070			752	285718.298	4822126.287	22.116
	576	82.23900	101.39100	92.8020			753	285726.768	4822132.162	21.989
	577	80.28800	101.31400	102.0840			754	285734.785	4822137.711	21.910
	578	78.75100	101.20800	112.1800			755	285743.546	4822143.356	21.888
	579	77.27000	101.14800	124.3870			756	285754.100	4822150.077	21.774
	580	76.23400	101.06200	135.3630			757	285763.599	4822155.971	21.759
	581	75.33200	101.03000	150.7580			758	285777.140	4822163.567	21.578
	582	74.80400	100.97000	161.6980			759	285786.758	4822168.940	21.554
	583	74.44300	100.93400	172.9210			760	285796.734	4822174.170	21.481

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L	584	74.17500	100.88700	184.3010			761	285806.905	4822179.330	21.450
		630				630	762	Nueva LINEA		
	585	74.04100	101.12800	179.4540			763	285802.292	4822177.761	20.839
	586	73.81800	101.12800	179.3830			764	285801.977	4822178.309	20.840
L		630				630	765	Nueva LINEA		
	587	74.35500	101.18600	167.6360			766	285791.768	4822172.315	20.895
	588	74.12200	101.18100	167.6120			767	285791.505	4822172.869	20.909
L		630				630	768	Nueva LINEA		
	589	74.88200	101.24800	154.1280			769	285779.836	4822165.844	20.996
	590	74.62700	101.24200	154.0610			770	285779.536	4822166.387	21.012
L		630				630	771	Nueva LINEA		
	591	75.49000	101.31800	142.2070			772	285769.346	4822160.006	21.073
	592	75.22800	101.31900	142.1200			773	285769.045	4822160.515	21.073
L		630				630	774	Nueva LINEA		
	593	76.85100	101.43800	125.4580			775	285754.802	4822151.220	21.183
M		1.7000					776	Altura Mira		
	594	76.53800	101.23600	125.2670			777	285754.411	4822151.730	21.185
L		630				630	778	Nueva LINEA		
	595	79.20700	101.39900	106.5320			779	285738.452	4822140.783	21.276
	596	78.85500	101.40500	106.3390			780	285738.079	4822141.277	21.270
L		630				630	781	Nueva LINEA		
	597	82.42800	101.56300	90.0090			782	285724.152	4822131.135	21.407
	598	82.02100	101.56500	89.8230			783	285723.815	4822131.636	21.409
L		630				630	784	Nueva LINEA		
	599	89.27000	101.92200	69.7470			785	285706.303	4822118.307	21.511
	600	88.73500	101.91500	69.5380			786	285705.997	4822118.848	21.525
L		630				630	787	Nueva LINEA		
	601	103.58200	102.38700	50.3710			788	285687.831	4822103.783	21.728
	602	103.01900	102.42300	49.9440			789	285687.426	4822104.248	21.716
L		630				630	790	Nueva LINEA		
	603	127.25600	103.03700	38.1130			791	285672.208	4822090.809	21.799
	604	126.84400	103.06600	37.5930			792	285671.835	4822091.246	21.806
L		630				630	793	Nueva LINEA		
	605	157.07300	103.03200	34.8810			794	285659.327	4822079.399	21.955
	606	157.06800	103.08000	34.3100			795	285658.972	4822079.847	21.957
L		630				630	796	Nueva LINEA		
	607	167.38100	102.99400	36.5050			797	285655.450	4822074.833	21.900
	608	167.79300	103.05300	35.9130			798	285654.957	4822075.237	21.894
L		630				630	799	Nueva LINEA		
	609	177.33300	102.93200	40.0660			800	285651.524	4822069.102	21.771
	610	177.66800	102.96300	39.4720			801	285651.123	4822069.587	21.780
L		750				750	802	Nueva LINEA		
M		1.3000					803	Altura Mira		
	611	230.35300	100.25500	129.5150			804	285578.133	4821991.549	23.498
L		750				750	805	Nueva LINEA		
	612	225.52800	100.59900	92.5840			806	285601.434	4822021.382	23.145
	613	209.99300	101.22600	55.3840			807	285628.916	4822051.924	22.950
L		30				30	808	Nueva LINEA		
M		1.4000					809	Altura Mira		
	614	176.65300	103.03100	40.4970			810	285652.078	4822068.854	21.989
M		0.5000					811	Altura Mira		
	615	158.99800	95.81400	42.3140			812	285662.926	4822072.851	27.596
L		40				40	813	Nueva LINEA		
M		0.0000					814	Altura Mira		
	616	161.42700	102.57900	37.8310			815	285659.101	4822075.544	23.784
	617	153.85000	100.10400	37.3700			816	285662.353	4822078.642	25.255
	618	143.89300	98.04400	38.1310			817	285666.981	4822082.370	26.487
	619	132.95200	97.18000	39.9140			818	285672.225	4822086.884	27.084
	620	122.08000	96.80000	42.3280			819	285677.331	4822092.244	27.443
	621	106.71100	98.91800	50.6230			820	285687.909	4822101.288	26.177
	622	98.69300	99.04100	58.8240			821	285696.380	4822107.821	26.202
	623	90.39100	98.96000	71.0920			822	285707.850	4822117.301	26.478
	624	85.32600	99.10300	85.1340			823	285720.450	4822126.060	26.516
	625	81.31100	99.65600	101.0220			824	285734.275	4822135.843	25.863
	626	78.71700	99.95100	116.1800			825	285747.324	4822144.732	25.406
	627	77.66100	100.05300	129.2760			826	285758.975	4822151.048	25.209
	628	76.53200	100.03600	141.1150			827	285769.212	4822157.459	25.238
	629	75.64600	100.76500	150.7970			828	285777.464	4822162.896	23.505
	630	75.51400	100.90800	154.8090			829	285781.061	4822164.689	23.110
L		23				23	830	Nueva LINEA		
M		2.1500					831	Altura Mira		
	631	75.82500	100.13400	155.7220			832	285782.205	4822164.332	22.840
M		1.3000					833	Altura Mira		
	632	77.62300	99.20300	143.2210			834	285772.030	4822155.917	25.810
	633	78.22200	98.83600	134.8060			835	285764.550	4822151.824	26.482
L		40				40	836	Nueva LINEA		
M		0.0000					837	Altura Mira		
	634	78.57400	98.75400	139.4070			838	285769.137	4822152.639	28.046
	635	78.05900	98.71800	144.7110			839	285773.750	4822155.492	28.231
	636	77.65100	98.38100	150.6890			840	285779.029	4822158.413	29.149
L		40				40	841	Nueva LINEA		
M		1.3000					842	Altura Mira		
	637	58.59300	100.73500	102.3890			843	285719.056	4822168.607	22.835
	638	57.55100	100.76500	88.9660			844	285707.483	4822161.631	22.947
	639	56.26200	100.85700	72.2430			845	285693.425	4822152.429	23.044

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	640	54.88600	101.05400	58.2790			846	285681.818	4822144.537	23.051
	641	53.68000	101.18000	44.6040			847	285670.880	4822136.274	23.189
	642	51.97300	101.40900	33.4370			848	285661.935	4822129.509	23.276
	643	49.99400	101.71200	20.1390			849	285651.810	4822120.852	23.475
	644	43.54700	104.22700	8.8430			850	285643.151	4822113.454	23.429
	645	271.86000	106.41300	4.5480			851	285633.485	4822104.681	23.559
	646	258.32800	102.08700	14.0060			852	285626.470	4822098.094	23.557
	647	254.99800	100.84200	24.8180			853	285618.705	4822090.500	23.688
	648	253.52800	100.56200	37.9500			854	285609.295	4822081.311	23.681
	649	251.89800	100.13600	54.7600			855	285597.715	4822069.068	23.899
	650	251.34100	100.16100	67.9170			856	285588.548	4822059.616	23.845
	651	250.54500	100.11900	87.4360			857	285575.219	4822045.324	23.853
	652	250.46200	100.19100	101.4200			858	285565.339	4822035.427	23.712
	653	250.26600	100.17000	114.0640			859	285556.580	4822026.303	23.712
	654	250.61100	100.21000	125.0170			860	285548.327	4822019.073	23.605
	655	251.14700	100.18800	135.8000			861	285539.832	4822012.342	23.616
	656	252.15800	100.20000	145.9640			862	285530.920	4822006.967	23.559
	657	253.23100	100.13000	155.9340			863	285521.857	4822002.096	23.699
	658	254.53700	100.18400	165.2560			864	285512.693	4821998.386	23.540
	659	256.42700	100.14000	177.2640			865	285500.232	4821994.549	23.628
	660	257.91900	100.15800	185.1990			866	285491.379	4821992.928	23.559
	661	260.27800	100.14400	197.0070			867	285477.685	4821991.523	23.573
L		10			10		868	Nueva LINEA		
	662	259.65400	100.03700	199.6770			869	285476.668	4821988.380	23.903
	663	256.94900	100.02600	186.4980			870	285492.115	4821989.900	23.942
	664	254.80200	100.01100	174.7700			871	285505.028	4821992.706	23.988
	665	253.12700	100.01400	164.2940			872	285515.833	4821996.293	23.982
	666	251.61400	100.00900	153.3760			873	285526.403	4822000.952	23.996
	667	250.12100	100.01300	140.2040			874	285538.243	4822007.670	23.989
	668	249.18000	100.02000	128.3890			875	285547.963	4822014.674	23.977
	669	248.63700	100.02700	115.3090			876	285557.800	4822023.357	23.968
	670	248.33200	100.03100	101.6090			877	285567.630	4822032.913	23.967
	671	248.28200	100.04000	88.4760			878	285576.721	4822042.392	23.961
	672	248.29500	100.04600	66.7820			879	285591.632	4822058.149	23.968
	673	248.27900	100.10600	51.5230			880	285602.139	4822069.214	23.930
	674	247.83800	100.32400	33.2520			881	285614.873	4822082.320	23.847
	675	245.29800	100.98900	17.5970			882	285626.085	4822093.291	23.743
	676	219.09400	106.36300	3.8340			883	285636.448	4822102.972	23.633
	677	62.03900	102.13800	15.0870			884	285650.052	4822115.083	23.509
	678	58.54900	101.22600	31.4960			885	285662.623	4822125.700	23.410
	679	58.44700	100.96100	50.0150			886	285677.306	4822136.987	23.261
	680	58.99100	100.84200	65.5750			887	285690.006	4822145.990	23.149
	681	59.81900	100.75800	84.7650			888	285706.007	4822156.627	23.007
	682	60.77100	100.70300	105.5520			889	285723.711	4822167.611	22.851
	683	61.60400	100.67300	123.7240			890	285739.467	4822176.785	22.709
	684	62.23500	100.65900	138.9790			891	285752.806	4822184.299	22.579
	685	63.00800	100.61700	161.3010			892	285772.400	4822195.146	22.454
L		10			10		893	Nueva LINEA		
	686	62.69200	100.65400	146.1440			894	285759.330	4822187.432	22.516
	687	63.15400	100.62400	160.8650			895	285772.238	4822194.598	22.441
	688	63.74800	100.60000	178.6530			896	285788.034	4822202.928	22.334
	689	64.28500	100.57800	193.7010			897	285801.583	4822209.661	22.260
	690	64.95400	100.56500	210.8190			898	285817.245	4822216.885	22.148
	691	65.71000	100.54300	229.4600			899	285834.544	4822224.305	22.062
	692	66.49300	100.52700	248.2210			900	285852.199	4822231.298	21.965
	693	67.07700	100.51400	262.0970			901	285865.395	4822236.184	21.904
	694	67.90700	100.50300	281.6160			902	285884.156	4822242.630	21.796
	695	68.79700	100.49500	301.7750			903	285903.819	4822248.658	21.676
	696	69.90400	100.50100	326.2950			904	285928.079	4822255.171	21.455
	697	70.78700	100.50200	346.7370			905	285948.439	4822260.180	21.290
	698	71.24800	100.50100	358.1330			906	285959.796	4822262.898	21.206
L		174			174		907	Nueva LINEA		
	699	70.83100	100.49400	358.7310			908	285959.302	4822265.270	21.241
	700	70.35200	100.49400	347.5030			909	285948.067	4822262.645	21.327
	701	69.77400	100.48500	334.4420			910	285935.022	4822259.488	21.475
	702	69.21200	100.48400	321.7420			911	285922.417	4822256.203	21.577
	703	68.71800	100.48000	311.0100			912	285911.786	4822253.346	21.677
	704	67.95800	100.47400	294.2310			913	285895.317	4822248.517	21.831
	705	67.40400	100.47800	282.1730			914	285883.560	4822244.847	21.903
	706	66.67000	100.48900	265.8970			915	285867.854	4822239.537	21.978
	707	66.07600	100.49200	252.9860			916	285855.483	4822235.122	22.065
	708	65.45300	100.50900	239.1200			917	285842.341	4822230.088	22.108
	709	64.87600	100.52300	226.0610			918	285830.092	4822225.094	22.162
	710	64.21600	100.53600	210.3800			919	285815.584	4822218.727	22.248
	711	63.54000	100.54900	194.8410			920	285801.324	4822212.191	22.338
	712	62.87400	100.56300	178.9450			921	285786.942	4822205.146	22.436
	713	62.22000	100.58500	162.6190			922	285772.387	4822197.546	22.523
	714	61.51100	100.61100	145.2560			923	285757.081	4822189.173	22.623
M		2.1500					924	Altura Mira		
M		1.3000					925	285743.215	4822181.500	22.744
	715	60.74000	100.20800	129.4900			926	Altura Mira		
	716	59.88900	100.63700	114.9440			927	285730.447	4822174.332	22.867
	717	58.89400	100.66000	98.3540			928	285716.127	4822165.794	22.997
	718	57.57200	100.71100	78.3150			929	285699.130	4822155.025	23.142
	719	55.96000	100.78700	57.5840			930	285681.919	4822143.344	23.304

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

06 450 2707

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	720	54.54400	100.92400	42.9930			931	285670.064	4822134.767	23.392
	721	53.58200	101.11400	30.1000			932	285660.020	4822126.665	23.489
	722	52.04000	101.70200	15.7000			933	285649.023	4822117.352	23.596
	723	42.41900	107.39300	2.8340			934	285639.315	4822108.829	23.688
	724	256.79500	102.19200	7.8010			935	285631.506	4822101.722	23.747
	725	253.34600	100.34200	22.2060			936	285621.069	4822091.762	23.897
	726	252.32000	100.19100	36.4350			937	285610.889	4822081.810	23.907
	727	251.37800	100.00900	49.0110			938	285602.176	4822072.720	24.009
	728	250.60900	100.02100	64.2930			939	285591.678	4822061.593	23.995
	729	250.13900	100.05500	82.5210			940	285579.094	4822048.395	23.945
	730	249.86200	100.08700	98.3810			941	285568.157	4822036.903	23.882
	731	249.85000	100.09300	114.1190			942	285557.068	4822025.736	23.850
	732	250.23300	100.10000	127.0420			943	285547.411	4822017.118	23.818
	733	251.15900	100.11700	139.4640			944	285537.176	4822009.817	23.761
	734	252.06400	100.10500	148.8210			945	285528.983	4822004.856	23.772
	735	253.44200	100.09400	160.1140			946	285518.400	4821999.688	23.781
	736	254.93000	100.09500	169.8610			947	285508.529	4821996.165	23.764
	737	256.30600	100.09700	178.1600			948	285499.752	4821993.721	23.747
	738	257.66000	100.09200	185.7310			949	285491.424	4821992.005	23.750
	739	259.17600	100.09900	193.2810			950	285482.686	4821991.002	23.718
	740	260.31900	100.10100	198.6590			951	285476.269	4821990.662	23.703
L		174					952	Nueva LINEA		
	741	258.51700	99.90800	203.5270		174	953	285475.744	4821983.191	24.313
	742	257.15600	99.89700	197.4420			954	285483.178	4821983.553	24.338
	743	255.06800	99.87800	187.4010			955	285494.939	4821985.068	24.377
	744	253.82300	99.87100	180.8540			956	285502.243	4821986.645	24.385
	745	252.15900	99.86100	171.5230			957	285512.243	4821989.520	24.392
	746	250.48100	99.85500	160.9750			958	285522.887	4821993.659	24.384
	747	249.35100	99.84100	153.2790			959	285530.297	4821997.138	24.400
	748	248.08900	99.83100	143.1700			960	285539.418	4822002.392	24.397
	749	247.38700	99.82500	136.8380			961	285544.864	4822005.973	24.393
	750	246.59400	99.84800	127.8910			962	285552.104	4822011.481	24.322
	751	246.02800	99.86700	121.0430			963	285557.484	4822015.860	24.270
	752	245.44000	99.86200	121.0830			964	285558.300	4822015.094	24.279
	753	245.37000	99.86000	122.9180			965	285557.200	4822013.618	24.287
	754	245.14500	99.84500	133.2800			966	285550.782	4822005.471	24.342
	755	244.72600	99.85200	145.3730			967	285543.635	4821995.673	24.355
	756	244.29700	99.84900	157.4900			968	285536.617	4821985.743	24.391
	757	243.98300	99.85100	167.1340			969	285531.069	4821977.814	24.409
	758	243.71600	99.84800	175.5280			970	285526.288	4821970.878	24.437
	759	243.43900	99.85500	185.1700			971	285520.799	4821962.912	24.440
	760	243.00800	99.84900	200.7700			972	285512.019	4821949.952	24.495
	761	242.61600	99.85000	216.2920			973	285503.354	4821937.010	24.529
	762	242.23300	99.86200	234.0880			974	285493.417	4821922.184	24.527
	763	242.01100	99.87100	246.4900			975	285486.458	4821911.885	24.519
	764	241.83300	99.87300	259.2310			976	285479.220	4821901.376	24.538
	765	241.63800	99.87500	269.9370			977	285473.335	4821892.395	24.551
	766	241.58700	99.87500	275.3890			978	285470.193	4821887.935	24.562
	767	241.48800	99.87200	292.9230			979	285459.898	4821873.735	24.611
	768	241.45900	99.87800	303.1350			980	285453.813	4821865.532	24.603
	769	241.48400	99.88400	316.6210			981	285445.539	4821854.882	24.600
	770	241.54700	99.88000	331.0490			982	285436.528	4821843.610	24.647
	771	241.64300	99.86700	342.6220			983	285429.090	4821834.729	24.740
	772	241.73100	99.86100	351.2450			984	285423.458	4821828.182	24.791
	773	241.86400	99.85600	359.8810			985	285417.598	4821821.796	24.839
	774	241.92500	99.85500	365.2590			986	285414.033	4821817.753	24.857
	775	242.24700	99.83500	381.2910			987	285402.700	4821806.259	25.014
	776	242.47200	99.82000	393.0950			988	285394.336	4821797.819	25.138
	777	242.71300	99.79800	404.6100			989	285386.009	4821789.723	25.311
	778	243.00900	99.78300	416.6390			990	285377.016	4821781.510	25.448
	779	243.28300	99.77000	427.2570			991	285368.943	4821774.378	25.572
	780	243.54400	99.76100	437.1180			992	285361.352	4821767.840	25.670
	781	243.87200	99.75200	448.6830			993	285352.257	4821760.343	25.777
	782	244.23100	99.74300	460.6200			994	285342.666	4821752.788	25.889
	783	244.70100	99.73100	475.3770			995	285330.531	4821743.709	26.040
	784	245.19900	99.71800	490.2400			996	285318.013	4821734.852	26.203
	785	245.64700	99.70400	503.4700			997	285306.711	4821727.138	26.374
	786	246.05900	99.69200	515.0340			998	285296.606	4821720.621	26.525
	787	246.55700	99.68000	528.5480			999	285284.572	4821713.242	26.691
	788	246.86700	99.67200	536.6840			1000	285277.198	4821708.938	26.800
	789	247.36100	99.66000	549.3240			1001	285265.563	4821702.446	26.970
	790	247.43200	99.66000	550.9700			1002	285263.997	4821701.652	26.979
L		10					1003	Nueva LINEA		
	791	249.40100	99.58900	605.4490		10	1004	285213.496	4821674.520	27.949
	792	248.89100	99.59900	593.3520			1005	285225.374	4821679.837	27.777
	793	248.10000	99.61900	574.6430			1006	285243.537	4821688.365	27.477
	794	247.52800	99.63300	560.6790			1007	285256.793	4821695.090	27.269
	795	246.93800	99.64900	545.8190			1008	285270.614	4821702.578	27.045
	796	246.50600	99.66000	534.6610			1009	285280.809	4821708.408	26.890
	797	246.03500	99.67000	522.2750			1010	285291.961	4821715.064	26.741
	798	245.66400	99.67900	512.3100			1011	285300.799	4821720.566	26.616
	799	245.04600	99.69500	495.1000			1012	285315.749	4821730.392	26.404
	800	244.64000	99.70700	483.1060			1013	285325.893	4821737.511	26.255
	801	244.16300	99.71800	468.5010			1014	285338.005	4821746.414	26.106
	802	243.79100	99.72700	456.6610			1015	285347.633	4821753.817	25.988

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	803	243.30100	99.74000	440.1620			1016	285360.733	4821764.422	25.826
	804	243.02100	99.74900	430.2350			1017	285368.451	4821770.953	25.724
	805	242.67900	99.76100	417.4100			1018	285378.226	4821779.560	25.595
	806	242.34200	99.78100	403.7710			1019	285388.378	4821788.923	25.416
	807	242.00500	99.80300	389.0280			1020	285399.101	4821799.256	25.230
	808	241.70500	99.82800	373.2540			1021	285410.162	4821810.643	25.034
	809	241.48700	99.83400	360.9580			1022	285418.635	4821819.642	24.966
	810	241.29900	99.84100	347.4980			1023	285427.616	4821829.722	24.892
	811	241.11500	99.85500	329.2650			1024	285439.391	4821843.676	24.773
	812	241.01600	99.85500	313.4180			1025	285449.319	4821856.038	24.736
	813	240.98700	99.85200	298.0790			1026	285458.641	4821868.220	24.715
	814	241.04200	99.85200	282.2960			1027	285467.921	4821880.989	24.678
	815	241.17200	99.85800	266.4540			1028	285477.007	4821893.979	24.615
	816	241.38500	99.86000	247.6970			1029	285487.649	4821909.448	24.565
	817	241.77300	99.85000	223.8790			1030	285500.982	4821929.236	24.547
	818	242.19900	99.85400	202.9270			1031	285512.692	4821946.669	24.484
	819	242.65400	99.85700	184.5080			1032	285522.991	4821962.002	24.433
	820	243.10500	99.86400	167.6000			1033	285532.563	4821975.995	24.376
	821	243.57100	99.87400	149.4000			1034	285543.117	4821990.867	24.313
	822	243.99700	99.88600	131.7520			1035	285553.594	4822005.100	24.253
	823	244.29900	99.90200	118.2820			1036	285561.748	4822015.837	24.199
	824	244.53400	99.93300	104.5030			1037	285570.286	4822026.660	24.127
	825	244.62200	99.99000	88.8590			1038	285580.265	4822038.709	24.030
	826	244.32700	100.10900	70.9930			1039	285592.040	4822052.151	23.895
	827	244.65600	100.10200	70.9620			1040	285591.779	4822052.410	23.903
	828	245.41000	99.99100	89.0530			1041	285579.302	4822039.276	24.029
	829	245.79800	99.95500	100.9580			1042	285571.048	4822030.678	24.088
	830	246.28400	99.92200	112.1780			1043	285563.012	4822022.806	24.154
	831	246.82900	99.89500	122.8240			1044	285555.153	4822015.554	24.220
	832	247.66900	99.86600	134.3460			1045	285546.115	4822008.210	24.300
	833	248.83500	99.86200	145.9710			1046	285536.260	4822001.533	24.334
	834	250.05400	99.87100	155.4740			1047	285527.541	4821996.778	24.333
	835	251.66000	99.88800	165.9920			1048	285517.176	4821992.348	24.310
	836	253.10400	99.88300	174.7570			1049	285508.123	4821989.220	24.339
	837	254.45000	99.89700	182.3420			1050	285499.944	4821987.008	24.313
	838	256.39600	99.90600	192.1680			1051	285488.743	4821985.054	24.302
	839	258.83400	99.93200	203.2570			1052	285475.347	4821984.161	24.236
L		40			40		1053	Nueva LINEA		
	840	258.22000	99.94700	204.9260			1054	285475.213	4821981.584	24.189
	841	256.27800	99.93900	195.8880			1055	285486.092	4821982.420	24.206
	842	254.46900	99.93200	186.1620			1056	285497.025	4821984.544	24.217
	843	252.68900	99.89400	175.9260			1057	285508.030	4821987.588	24.311
	844	250.90400	99.92700	166.4490			1058	285518.214	4821990.608	24.209
	845	249.41600	99.88500	156.4730			1059	285527.947	4821994.968	24.300
	846	248.10300	99.92000	146.3070			1060	285537.244	4822000.130	24.201
	847	247.20700	99.85800	138.4710			1061	285544.046	4822004.507	24.326
	848	246.24600	99.83400	128.3950			1062	285552.291	4822010.639	24.352
	849	245.65500	99.84100	128.3610			1063	285553.207	4822009.877	24.338
	850	245.42100	99.88300	138.6420			1064	285546.835	4822001.794	24.272
	851	245.22300	99.91500	145.6660			1065	285542.580	4821996.188	24.212
	852	244.69900	99.86600	156.5790			1066	285536.444	4821987.078	24.347
	853	244.37600	99.90600	165.1100			1067	285531.575	4821980.026	24.262
L		60			60		1068	Nueva LINEA		
	854	244.26400	99.88400	166.7930			1069	285530.720	4821978.547	24.322
M		2.1500					1070	Altura Mira		
	855	244.81200	99.78400	166.9140			1071	285529.543	4821979.380	23.734
M		1.3000					1072	Altura Mira		
	856	244.05500	99.91000	178.8120			1073	285523.471	4821968.943	24.271
L		40			40		1074	Nueva LINEA		
	857	243.83100	99.89500	185.8930			1075	285519.457	4821963.075	24.325
	858	243.13100	99.88500	206.7380			1076	285507.975	4821945.545	24.392
	859	242.74100	99.90800	225.7950			1077	285497.109	4821929.833	24.346
	860	242.29300	99.91300	243.2820			1078	285487.574	4821915.082	24.352
	861	241.95000	99.89200	265.3770			1079	285475.079	4821896.808	24.471
	862	241.86800	99.92300	268.9200			1080	285473.184	4821893.795	24.346
L		750			750		1081	Nueva LINEA		
	863	241.61300	99.74100	315.9030			1082	285445.468	4821855.843	25.308
L		40			40		1083	Nueva LINEA		
	864	242.13300	99.86100	366.0400			1084	285412.611	4821817.869	24.824
	865	242.43200	99.83500	383.6000			1085	285400.400	4821805.128	25.020
	866	242.82400	99.83400	402.9430			1086	285386.495	4821791.466	25.077
	867	243.30500	99.79600	423.4180			1087	285371.243	4821777.455	25.385
	868	243.70800	99.78500	439.2450			1088	285359.132	4821766.907	25.512
	869	244.22900	99.75900	456.9060			1089	285345.055	4821755.631	25.759
	870	244.87200	99.74100	476.4390			1090	285328.869	4821743.726	25.969
	871	245.47700	99.72900	494.8580			1091	285313.367	4821732.761	26.139
	872	246.11000	99.70700	513.1480			1092	285297.547	4821722.306	26.395
	873	246.59800	99.69800	527.0500			1093	285285.320	4821714.584	26.535
	874	247.17700	99.66800	542.7820			1094	285271.149	4821706.199	26.866
	875	247.44400	99.67100	548.7270			1095	285265.441	4821703.370	26.872
B	30516	285695.303	4822071.034	42.179			1096	BASE (coord de FICHERO DE BASES)		
L		6			6		1097	Nueva LINEA		
H		1.5940	1.3000				1098	Altura Aparato y Mira		
O	30062	335.16200	117.20200	70.3600			1099	285637.575	4822106.616	23.691



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# ----- Datos de Entrada -----

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

06 AGO 2007

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		2.1500			3		1100	Nueva LINEA		
	876	59.16300	101.01800	166.3320			1101	Altura Mira		
	877	58.81100	100.94500	160.7710			1102	285828.558	4822170.542	38.965
	878	57.89900	101.17600	152.5480			1103	285823.572	4822167.928	39.238
	879	56.94000	101.69000	142.2060			1104	285815.674	4822164.700	38.807
	880	55.76900	102.43000	130.5480			1105	285806.166	4822160.015	37.850
	881	53.70700	103.43100	115.4870			1106	285795.520	4822154.547	36.642
	882	51.82900	103.84400	104.3750			1107	285781.457	4822147.689	35.403
	883	50.91000	104.26800	93.8420			1108	285771.062	4822142.553	35.325
	884	50.23300	104.74100	78.9110			1109	285762.453	4822136.284	35.337
	885	48.61600	105.43000	63.3690			1110	285751.152	4822126.471	35.752
	886	45.23000	106.56800	49.9040			1111	285738.970	4822116.637	36.225
	887	37.92600	108.35400	38.3590			1112	285727.679	4822108.661	36.484
	888	25.08800	111.69800	27.6590			1113	285716.643	4822102.511	36.604
	889	2.58900	118.31900	18.5640			1114	285705.745	4822096.142	36.569
	890	365.06300	124.72600	14.2460			1115	285696.028	4822088.820	36.355
	891	315.58500	124.05600	13.5320			1116	285688.426	4822082.283	36.228
	892	265.73500	112.24200	19.1020			1117	285683.101	4822074.083	36.630
	893	250.57700	106.88900	28.7900			1118	285679.204	4822061.423	37.972
	894	243.60400	103.20700	43.5040			1119	285674.881	4822050.981	38.514
	895	240.95200	100.81900	61.8500			1120	285667.815	4822037.386	39.433
	896	239.59100	99.84200	77.4150			1121	285658.205	4822021.552	40.828
	897	238.83700	99.39500	92.8390			1122	285650.200	4822008.116	41.816
	898	237.20800	99.13600	105.4770			1123	285642.114	4821994.948	42.506
	899	235.95800	99.01600	110.6310			1124	285637.107	4821983.077	43.055
L		3			3		1125	285636.089	4821977.601	43.334
M		3.2500					1126	Nueva LINEA		
	900	235.25700	98.41700	104.7020			1127	Altura Mira		
M		2.1500					1128	285640.249	4821982.013	43.127
	901	236.77200	99.38300	93.8960			1129	Altura Mira		
	902	236.87500	99.74500	80.9220			1130	285644.032	4821992.378	42.534
	903	237.37700	100.44100	65.7550			1131	285651.005	4822003.315	41.948
	904	238.64200	102.00400	51.7480			1132	285658.876	4822016.294	41.168
	905	241.03100	104.59600	36.6840			1133	285665.799	4822028.552	39.994
	906	247.22500	108.73600	23.8590			1134	285673.319	4822041.787	38.977
M		2.5000					1135	285679.334	4822053.610	38.359
	907	259.02500	111.77100	17.2870			1136	Altura Mira		
M		2.1500					1137	285681.710	4822060.838	38.095
	908	299.67100	126.93700	11.3840			1138	Altura Mira		
	909	354.37200	132.09200	10.9850			1139	285684.923	4822070.981	36.949
M		4.1900					1140	285688.985	4822078.286	36.317
	910	396.77100	115.42300	13.5320			1141	Altura Mira		
	911	19.33000	110.74100	18.8080			1142	285694.638	4822084.154	36.337
M		3.1500					1143	285700.847	4822088.726	36.425
	912	43.80900	106.92800	38.0630			1144	Altura Mira		
M		2.1500					1145	285719.335	4822100.259	36.489
	913	49.84000	105.97600	53.6640			1146	Altura Mira		
	914	51.65700	104.93000	72.7340			1147	285732.989	4822108.906	36.593
	915	52.36300	104.39300	87.3080			1148	285747.899	4822120.956	35.996
	916	52.80500	104.01700	100.4860			1149	285759.138	4822130.292	35.604
	917	54.83800	103.46300	114.0410			1150	285769.273	4822138.751	35.287
	918	56.73700	102.50900	128.7410			1151	285781.707	4822145.204	35.423
	919	57.80000	101.72300	140.7420			1152	285795.369	4822151.875	36.552
	920	59.07400	101.08500	154.4500			1153	285806.202	4822157.607	37.816
	921	59.93400	100.91000	161.9980			1154	285818.908	4822163.605	38.992
L		40			40		1155	285826.254	4822166.373	39.309
	922	57.87300	101.32800	167.6570			1156	Nueva LINEA		
	923	56.76700	101.16900	154.3220			1157	285827.548	4822174.027	38.128
	924	55.28400	101.95800	140.9480			1158	285815.370	4822167.940	38.791
	925	52.34500	103.22100	117.7540			1159	285802.841	4822162.045	37.290
	926	50.33400	104.33100	103.9650			1160	285781.470	4822151.069	35.669
	927	46.06700	105.15900	80.3660			1161	285769.034	4822143.988	34.556
	928	42.35600	105.52400	68.0930			1162	285748.341	4822131.061	35.118
	929	32.23100	107.54100	44.7740			1163	285737.182	4822124.400	35.722
	930	12.42100	111.85100	27.9540			1164	285716.865	4822109.916	36.332
	931	371.63500	119.85600	19.1470			1165	285700.630	4822097.983	36.449
	932	345.42100	120.44900	18.5210			1166	285687.450	4822087.478	35.747
	933	326.53300	120.82000	16.0780			1167	285682.016	4822082.536	35.776
	934	274.87500	111.99100	20.6150			1168	285681.381	4822077.198	36.458
	935	256.16400	106.94500	31.8530			1169	285676.609	4822063.249	37.763
	936	244.07600	102.23300	51.6420			1170	285670.853	4822050.915	38.155
	937	242.15200	101.03500	65.3430			1171	285662.356	4822031.309	39.812
	938	240.62500	99.74700	88.5320			1172	285655.134	4822019.508	40.561
	939	239.43000	99.55400	99.0100			1173	285642.562	4821999.928	41.975
	940	237.04600	99.10400	118.7110			1174	285637.824	4821990.421	42.317
M		4.1900					1175	285630.058	4821971.875	43.295
	941	235.93100	97.81700	134.1410			1176	Altura Mira		
L		40			40		1177	285623.587	4821957.768	44.183
L		742			742		1178	Nueva LINEA		
	942	235.55400	97.76500	135.4970			1179	Nueva LINEA		
M		5.1900					1180	285623.543	4821956.199	44.340
	943	236.71700	98.04000	137.9420			1181	Altura Mira		
M		4.1900					1182	285620.114	4821955.465	42.830
	944	235.53600	97.85200	141.2070			1183	Altura Mira		
							1184	285620.549	4821951.333	44.348

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		40			40					
	945	235.82300	98.06600	147.1840			1185 Nueva LINEA			
	946	234.76800	97.88800	160.5120			1186 285616.814 4821946.606			44.055
L		742			742		1187 285611.975 4821933.951			44.909
M		3.6000					1188 Nueva LINEA			
	947	234.51100	97.99400	165.4210			1189 Altura Mira			
M		5.1900					1190 285609.993 4821929.405			45.386
	948	233.68600	97.50000	163.9690			1191 Altura Mira			
M		5.0000					1192 285612.591 4821929.603			45.022
	949	233.10300	97.44700	166.3790			1193 Altura Mira			
L		40			40		1194 285612.695 4821926.767			45.445
M		3.8000					1195 Nueva LINEA			
	950	234.00400	97.89300	170.3280			1196 Altura Mira			
L		4			4		1197 285608.631 4821924.516			45.611
M		2.1500					1198 Nueva LINEA			
	951	230.05600	98.42400	151.3740			1199 Altura Mira			
	952	229.56100	98.44800	133.9480			1200 285626.477 4821936.265			45.372
	953	227.42100	98.46700	110.1420			1201 285635.329 4821951.308			44.889
	954	225.23000	98.37000	96.3350			1202 285649.324 4821970.984			44.276
L		10			10		1203 285658.124 4821982.197			44.090
	955	223.67600	98.30000	89.4340			1204 Nueva LINEA			
M		1.7500					1205 285662.812 4821987.746			44.011
	956	232.22600	98.72600	87.7580			1206 Altura Mira			
M		2.1500					1207 285652.758 4821994.300			43.780
	957	227.63100	97.92800	43.0320			1208 Altura Mira			
M		1.7500					1209 285677.215 4822032.014			43.023
	958	112.47300	96.94700	7.1080			1210 Altura Mira			
	959	128.54900	97.61000	19.8470			1211 285702.267 4822069.652			42.364
L		4			4		1212 285713.174 4822062.434			42.768
M		2.1500					1213 Nueva LINEA			
	960	207.63400	97.66100	47.6140			1214 Altura Mira			
L		4			4		1215 285689.609 4822023.794			43.372
	961	90.95100	98.30500	25.5410			1216 Nueva LINEA			
L		40			40		1217 285720.577 4822074.650			42.303
	962	84.60400	99.37800	34.4330			1218 Nueva LINEA			
	963	78.73600	98.76000	20.4790			1219 285728.733 4822079.278			41.959
	964	60.29300	98.02200	11.4930			1220 285714.647 4822077.746			42.022
	965	35.56000	97.54000	7.0850			1221 285704.628 4822077.743			41.980
	966	395.31500	104.65900	3.9710			1222 285699.055 4822077.037			41.897
	967	272.13400	98.02900	2.2960			1223 285695.012 4822074.984			41.333
	968	231.63700	97.10400	9.3920			1224 285693.224 4822070.061			41.694
	969	230.13100	98.17900	23.2890			1225 285690.830 4822062.787			42.050
	970	229.74400	97.91600	32.6270			1226 285684.691 4822050.314			42.289
	971	232.25700	98.19500	46.1060			1227 285680.614 4822041.920			42.691
	972	234.05200	98.47700	59.4110			1228 285672.936 4822030.739			42.930
	973	234.75900	98.60500	72.4040			1229 285665.025 4822019.938			43.044
	974	235.62500	98.65000	89.9040			1230 285657.712 4822009.174			43.210
	975	235.41200	98.41600	100.2810			1231 285647.585 4821994.863			43.530
L		4			4		1232 285642.367 4821985.901			44.119
	976	65.62000	92.21300	4.7240			1233 Nueva LINEA			
L		4			4		1234 285699.325 4822073.445			42.199
	977	220.14500	89.31200	3.7810			1235 Nueva LINEA			
L		30			30		1236 285694.143 4822067.491			42.255
	978	340.26800	119.89000	17.6350			1237 Nueva LINEA			
	979	388.24400	118.64000	19.8830			1238 285681.769 4822080.955			36.202
	980	10.80000	113.18900	25.1330			1239 285691.808 4822089.747			35.884
	981	31.42500	108.17600	40.3970			1240 285699.457 4822095.276			36.453
	982	39.43300	106.31600	54.8380			1241 285714.288 4822106.314			36.449
	983	46.39100	105.06800	80.2010			1242 285726.985 4822115.463			36.192
	984	50.57200	103.99800	104.0390			1243 285748.543 4822130.674			35.246
	985	52.61300	103.31400	117.7070			1244 285769.384 4822143.789			35.094
	986	55.42600	101.87800	138.6210			1245 285781.766 4822150.667			35.499
	987	56.55400	101.08500	149.6650			1246 285801.269 4822160.309			37.536
	988	57.72500	101.23900	163.3140			1247 285811.435 4822165.407			39.074
L		741			741		1248 285823.892 4822171.661			38.447
	989	62.53200	100.65300	163.2840			1249 Nueva LINEA			
L		40			40		1250 285831.111 4822161.670			39.950
	990	60.68700	100.84500	164.5580			1251 Nueva LINEA			
	991	59.60400	100.93800	153.1190			1252 285829.461 4822166.301			39.441
	992	58.20900	101.43500	143.1610			1253 285818.607 4822161.787			39.369
	993	57.30700	102.21400	130.7020			1254 285808.685 4822158.378			38.398
	994	56.09000	103.00800	118.9160			1255 285797.641 4822152.207			37.080
	995	55.15700	103.46600	109.5910			1256 285786.937 4822146.615			36.007
	996	53.08500	103.85300	99.4870			1257 285778.691 4822141.892			35.660
	997	53.16000	104.20200	85.6420			1258 285768.844 4822137.765			35.606
	998	52.95900	104.58200	73.4060			1259 285758.655 4822128.384			35.975
	999	51.51900	105.17600	55.8340			1260 285749.426 4822120.341			36.345
	1000	48.76600	106.29700	43.6630			1261 285735.582 4822109.432			37.089
M		4.1900					1262 285725.427 4822102.346			37.311
	1001	33.07300	107.87500	22.2500			1263 Altura Mira			
L		23			23		1264 285706.266 4822090.200			36.838
	1002	29.97500	109.77500	19.6220			1265 Nueva LINEA			
M		4.3000					1266 285704.100 4822088.315			36.582
	1003	55.29400	104.21100	29.5530			1267 Altura Mira			
M		4.1900					1268 285717.815 4822090.080			37.520
							1269 Altura Mira			

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	1004	70.36100	101.99700	40.5050			1270	285731.480	4822089.207	38.313
	1005	75.05300	101.06300	48.5810			1271	285740.196	4822089.583	38.772
L			4				1272	Nueva LINEA		
M		2.1500			4		1273	Altura Mira		
	1006	71.49700	102.21400	66.1300			1274	285754.880	4822099.642	39.324
	1007	67.29100	101.97800	81.0200			1275	285765.830	4822110.831	39.107
L		42			42		1276	Nueva LINEA		
	1008	66.36800	101.70500	100.3650			1277	285781.956	4822121.601	38.936
	1009	58.87400	103.32300	98.2670			1278	285773.664	4822130.106	36.497
L		4			4		1279	Nueva LINEA		
	1010	59.42400	103.64800	80.8200			1280	285760.151	4822119.046	36.995
	1011	59.02900	104.80800	54.1070			1281	285738.464	4822103.406	37.541
L		760			760		1282	Nueva LINEA		
	1012	47.94700	104.75200	78.0310			1283	285748.525	4822127.799	35.804
L		4			4		1284	Nueva LINEA		
M		1.3000					1285	Altura Mira		
	1013	65.72500	100.80600	149.1290			1286	285823.328	4822147.488	40.586
	1014	67.21500	100.97600	122.7660			1287	285802.136	4822131.486	40.592
	1015	67.77100	101.34400	107.7600			1288	285789.527	4822123.271	40.199
L		4			4		1289	Nueva LINEA		
	1016	59.71400	102.50700	110.8210			1290	285784.599	4822136.520	38.111
	1017	60.96400	101.81600	132.8510			1291	285803.911	4822147.449	38.685
	1018	61.76000	101.06100	150.0460			1292	285819.070	4822155.821	39.974
	1019	62.08400	100.99500	159.3320			1293	285827.189	4822160.400	39.985
B	30063	285940.440	4822291.748	27.586			1294	BASE (coord de FICHERO DE BASES)		
L		6			6		1295	Nueva LINEA		
H		1.6210	1.3000				1296	Altura Aparato y Mira		
O	30062	265.06700	100.75800	354.9940			1297	285637.575	4822106.616	23.691
L		6			6		1298	Nueva LINEA		
M		1.5000					1299	Altura Mira		
D	30064	88.02400	100.28500	595.7550			1300	286525.683	4822403.123	25.063
L		6			6		1301	Nueva LINEA		
M		1.3000					1302	Altura Mira		
D	30523	151.14600	99.47900	32.1610			1303	285962.766	4822268.601	28.170
L		178			178		1304	Nueva LINEA		
M		2.1500					1305	Altura Mira		
	1020	179.41200	100.37200	86.6140			1306	285967.959	4822209.624	26.551
	1021	189.58300	99.84200	85.9670			1307	285954.439	4822206.929	27.271
	1022	201.94300	99.04200	88.2230			1308	285937.743	4822203.577	28.385
	1023	211.86300	98.48100	92.5860			1309	285923.286	4822200.792	29.266
	1024	219.68400	98.06500	98.1370			1310	285910.586	4822198.310	30.040
	1025	227.58600	97.55400	106.6380			1311	285895.691	4822195.040	31.154
	1026	233.08100	97.11600	114.1390			1312	285883.815	4822192.781	32.227
	1027	238.41200	96.66400	125.8150			1313	285869.141	4822188.296	33.648
	1028	240.90300	96.43200	132.2160			1314	285861.334	4822186.068	34.464
	1029	244.02800	96.01300	141.7650			1315	285850.199	4822182.776	35.931
	1030	245.40400	95.69400	147.9430			1316	285843.862	4822180.126	37.057
	1031	246.46600	95.41700	155.2930			1317	285837.155	4822176.323	38.228
	1032	246.96700	95.40800	160.9160			1318	285832.478	4822172.990	38.656
	1033	245.52300	95.37800	164.3570			1319	285832.952	4822167.985	38.981
	1034	243.47800	95.26400	171.9960			1320	285832.189	4822158.705	39.842
	1035	241.69900	95.20300	179.2450			1321	285831.552	4822150.010	40.553
L		178			178		1322	Nueva LINEA		
	1036	240.56900	95.18000	175.4280			1323	285836.353	4822151.162	40.328
	1037	242.44600	95.25300	167.9500			1324	285836.856	4822160.140	39.571
	1038	243.11400	95.33200	164.6100			1325	285837.559	4822163.818	39.118
	1039	243.26200	95.42500	161.3100			1326	285839.319	4822166.604	38.641
	1040	243.22000	95.58800	156.3770			1327	285842.474	4822170.344	37.887
	1041	242.81200	95.79900	151.8410			1328	285846.052	4822173.232	37.071
	1042	241.95000	96.07600	147.1670			1329	285850.496	4822175.620	36.124
	1043	240.46800	96.36600	141.3310			1330	285856.659	4822178.214	35.121
	1044	237.72000	96.69700	133.2560			1331	285866.118	4822181.360	33.969
	1045	233.72100	97.04200	124.4430			1332	285877.625	4822184.478	32.838
	1046	229.65200	97.29500	117.3530			1333	285887.777	4822186.994	32.043
	1047	224.29600	97.70300	109.8450			1334	285899.549	4822189.875	31.020
	1048	218.37400	98.11900	103.6490			1335	285910.945	4822192.432	30.120
	1049	211.57200	98.52500	98.4750			1336	285922.637	4822194.923	29.339
	1050	201.84400	99.07500	93.8840			1337	285937.715	4822197.914	28.422
	1051	192.63200	99.61800	91.8560			1338	285951.041	4822200.508	27.609
	1052	181.50200	100.24700	91.9130			1339	285966.767	4822203.687	26.701
L		23			23		1340	Nueva LINEA		
	1053	181.22300	100.25600	94.9420			1341	285968.033	4822200.905	26.676
	1054	184.56300	100.12600	93.3810			1342	285962.856	4822201.098	26.873
	1055	191.73700	99.69000	93.3700			1343	285952.519	4822199.164	27.512
L		4			4		1344	Nueva LINEA		
	1056	196.12100	98.59300	108.5180			1345	285947.040	4822183.458	29.456
	1057	185.88500	99.42900	113.1900			1346	285965.323	4822181.332	28.073
	1058	177.04800	100.25400	117.6550			1347	285981.938	4822181.656	26.588
	1059	171.74900	100.11800	120.2360			1348	285992.056	4822183.155	26.835
M		3.5000					1349	Altura Mira		
	1060	165.42600	99.86300	123.2080			1350	286004.105	4822186.264	25.973
L		4			4		1351	Nueva LINEA		
	1061	166.43300	100.18900	107.8750			1352	285994.714	4822198.522	25.388
M		2.1500					1353	Altura Mira		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		1062	177.15300	100.49800	102.4950			1354	285976.432	4822195.784	26.256
		1063	186.86500	99.86100	99.8150			1355	285960.882	4822194.049	27.276
		1064	196.18500	98.78300	99.6180			1356	285946.399	4822192.327	28.962
L			86			86		1357	Nueva LINEA		
		1065	197.62200	98.80300	96.3790			1358	285944.033	4822195.453	28.870
		1066	200.24700	98.22900	102.7640			1359	285940.035	4822189.025	29.916
L			86			86		1360	Nueva LINEA		
		1067	200.70400	98.00200	102.8700			1361	285939.297	4822188.935	30.286
		1068	197.64200	98.26300	95.8430			1362	285943.982	4822196.007	29.672
L			3			3		1363	Nueva LINEA		
		1069	178.29700	100.42900	96.1980			1364	285972.597	4822201.087	26.409
L			23			23		1365	Nueva LINEA		
		1070	189.17600	99.94000	92.8570			1366	285956.146	4822200.229	27.145
		1071	197.63900	99.28700	93.8130			1367	285943.912	4822198.006	28.108
		1072	204.31800	98.95600	95.8220			1368	285933.941	4822196.160	28.629
		1073	211.84200	98.57200	99.8690			1369	285921.969	4822193.628	29.298
		1074	218.49800	98.17100	104.8970			1370	285910.394	4822191.292	30.071
		1075	225.36900	97.73200	112.6170			1371	285896.763	4822188.024	31.069
		1076	230.04800	97.30800	119.4090			1372	285886.191	4822185.494	32.106
		1077	234.52200	97.03900	127.3960			1373	285874.758	4822182.751	32.981
		1078	237.60600	96.73400	134.6570			1374	285865.534	4822180.062	33.963
		1079	240.28900	96.39100	142.6790			1375	285856.181	4822176.891	35.142
		1080	242.13400	95.97800	150.3020			1376	285848.246	4822173.423	36.548
		1081	242.69500	95.66500	155.8070			1377	285843.824	4822169.976	37.660
		1082	242.89400	95.46300	159.8610			1378	285840.942	4822167.145	38.442
		1083	242.82500	95.35700	164.1340			1379	285838.433	4822163.719	39.019
L			40			40		1380	Nueva LINEA		
		1084	242.35100	95.22900	163.8600			1381	285839.573	4822163.198	39.327
		1085	240.64200	95.26800	154.7360			1382	285848.478	4822167.837	38.550
		1086	238.35800	95.29000	147.0480			1383	285857.325	4822170.931	37.928
		1087	237.65200	94.89300	146.6930			1384	285858.907	4822170.369	38.814
		1088	235.81500	94.86200	143.6370			1385	285864.070	4822170.649	38.638
		1089	233.77100	94.60200	141.1450			1386	285869.278	4822170.443	39.012
		1090	230.11900	94.53500	132.3710			1387	285880.340	4822174.355	38.407
		1091	226.61400	94.66300	126.8030			1388	285889.134	4822176.276	37.676
		1092	223.00200	94.61200	123.5780			1389	285896.904	4822176.566	37.504
		1093	220.77100	95.82000	115.9550			1390	285903.348	4822182.150	34.666
		1094	217.05400	96.22800	109.8950			1391	285911.396	4822185.961	33.565
		1095	211.92000	96.79100	103.7340			1392	285921.149	4822189.958	32.284
		1096	206.76800	97.53100	100.0010			1393	285929.831	4822192.387	30.935
		1097	200.74300	98.02600	96.3870			1394	285939.310	4822195.414	30.046
		1098	198.64500	98.27100	95.6670			1395	285942.469	4822196.138	29.656
L			4			4		1396	Nueva LINEA		
		1099	203.95900	97.62900	107.5010			1397	285933.757	4822184.530	31.061
		1100	213.13300	95.95100	113.4630			1398	285917.239	4822180.917	34.269
		1101	217.52300	95.18600	120.8280			1399	285907.687	4822175.803	36.186
		1102	222.20100	94.57300	128.0460			1400	285896.837	4822171.850	37.960
		1103	227.78100	94.56600	139.3160			1401	285881.763	4822165.952	38.935
		1104	232.85400	94.64800	147.4070			1402	285867.949	4822163.996	39.436
		1105	237.19800	94.89200	157.0170			1403	285854.097	4822161.208	39.644
		1106	240.03300	95.16400	167.8390			1404	285841.993	4822156.413	39.796
L			92			92		1405	Nueva LINEA		
		1107	240.52600	95.18000	174.2220			1406	285837.162	4822152.059	40.237
		1108	236.65100	95.05900	165.5680			1407	285850.563	4822153.293	39.896
		1109	229.84900	94.76500	153.5340			1408	285871.288	4822155.251	39.670
		1110	227.79000	94.82700	161.5570			1409	285872.352	4822145.829	40.172
L			4			4		1410	Nueva LINEA		
		1111	249.70500	95.66900	176.8410			1411	285816.256	4822166.423	39.080
		1112	248.38200	95.41100	168.7870			1412	285824.456	4822169.729	39.215
		1113	247.53900	95.29600	162.3790			1413	285830.438	4822172.910	39.046
		1114	246.89900	95.46700	155.9070			1414	285835.955	4822176.568	38.150
L			710			710		1415	Nueva LINEA		
		1115	246.60900	95.39600	158.9560			1416	285834.456	4822173.841	38.544
L			710			710		1417	Nueva LINEA		
		1116	242.74100	95.38300	161.1210			1418	285840.469	4822165.934	38.734
L			710			710		1419	Nueva LINEA		
		1117	235.71700	96.90400	119.4620			1420	285876.947	4822190.723	32.865
L			741			741		1421	Nueva LINEA		
		1118	241.05100	96.76400	125.7430			1422	285864.953	4822191.389	33.447
L			741			741		1423	Nueva LINEA		
		1119	221.00100	98.06600	96.3750			1424	285909.230	4822200.614	29.985
L			741			741		1425	Nueva LINEA		
		1120	190.65300	99.67100	82.1940			1426	285952.459	4822210.439	27.482
L			40			40		1427	Nueva LINEA		
		1121	182.09700	100.23300	94.5870			1428	285966.685	4822200.876	26.711
		1122	187.43600	99.85400	93.7430			1429	285958.815	4822199.824	27.273
		1123	195.25900	98.95400	94.2870			1430	285947.448	4822197.735	28.607
L			30			30		1431	Nueva LINEA		
		1124	182.43600	100.51400	82.1540			1432	285962.814	4822212.702	26.394
		1125	189.56500	99.82300	82.1010			1433	285953.832	4822210.747	27.286
		1126	201.07100	98.97200	84.0790			1434	285939.021	4822207.692	28.415
		1127	212.79900	98.31800	89.5440			1435	285922.559	4822204.040	29.423
		1128	220.81600	98.08700	95.4930			1436	285909.778	4822201.358	29.927
		1129	224.05400	98.25000	98.6850			1437	285904.042	4822200.061	29.770
		1130	225.39500	98.43000	100.0130			1438	285901.600	4822199.618	29.524

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	1131	235.14500	97.19800	113.6310			1439	285880.899	4822195.095	32.058
	1132	239.92600	96.82600	122.8000			1440	285868.459	4822192.445	33.178
	1133	243.27900	96.67600	132.1360			1441	285857.479	4822189.134	33.954
	1134	245.85000	95.93100	142.6530			1442	285846.540	4822184.746	36.170
	1135	247.21900	95.42300	152.4680			1443	285837.699	4822179.629	38.011
L		40			40		1444	Nueva LINEA		
	1136	247.55900	95.44200	152.0820			1445	285837.362	4822180.459	37.938
	1137	246.20200	95.94100	142.1170			1446	285846.304	4822185.666	36.113
	1138	243.49100	96.57900	129.5160			1447	285858.796	4822191.448	34.015
	1139	240.20700	96.93300	121.6920			1448	285868.669	4822193.649	32.918
	1140	237.65100	97.22200	112.3950			1449	285877.829	4822198.536	31.961
	1141	237.13600	97.89500	103.7490			1450	285883.320	4822205.207	30.488
L		23			23		1451	Nueva LINEA		
	1142	240.90200	98.15100	112.1260			1452	285873.278	4822202.021	30.314
	1143	242.77400	98.22400	118.0760			1453	285866.965	4822199.377	30.351
	1144	244.88500	97.52200	127.7040			1454	285857.735	4822194.571	32.028
M		1.3000					1455	Altura Mira		
	1145	247.38400	98.25400	134.3580			1456	285849.446	4822192.963	31.593
	1146	248.70900	98.37900	143.8090			1457	285840.861	4822188.059	31.570
	1147	250.81600	98.36400	155.4750			1458	285829.133	4822183.272	31.904
	1148	252.51700	98.51200	168.0610			1459	285817.026	4822177.740	31.837
	1149	253.76400	98.62400	182.1380			1460	285804.289	4822170.830	31.846
	1150	255.19800	98.73200	198.5210			1461	285789.106	4822163.324	31.863
L		40			40		1462	Nueva LINEA		
M		0.0000					1463	Altura Mira		
	1151	255.36400	99.14000	198.3640			1464	285788.875	4822163.807	31.889
	1152	254.54200	99.19300	184.5890			1465	285800.948	4822170.879	31.549
	1153	253.62000	99.07900	172.7880			1466	285811.521	4822176.730	31.709
	1154	252.76700	99.10000	161.8660			1467	285821.124	4822182.392	31.497
	1155	251.14300	98.90700	150.4280			1468	285832.189	4822187.329	31.791
	1156	249.08800	98.88400	138.6630			1469	285843.814	4822192.326	31.639
	1157	246.72600	98.87000	128.6120			1470	285854.301	4822196.272	31.491
	1158	244.58900	99.25600	119.5980			1471	285863.356	4822200.317	30.606
	1159	241.82400	99.51500	112.9150			1472	285871.477	4822202.344	30.068
	1160	240.56500	99.27600	107.8640			1473	285876.266	4822205.060	30.434
	1161	237.76800	99.67500	100.5870			1474	285884.201	4822208.354	29.721
	1162	230.84600	100.90500	88.4190			1475	285899.255	4822213.517	27.951
	1163	221.92100	102.02100	78.2750			1476	285914.026	4822218.107	26.723
	1164	214.50900	102.14400	73.1430			1477	285923.919	4822220.538	26.745
	1165	202.05800	102.25200	66.6970			1478	285938.281	4822225.128	26.848
M		1.3000					1479	Altura Mira		
	1166	199.96300	101.44100	66.8000			1480	285940.475	4822224.965	26.395
	1167	193.36200	101.61900	64.8060			1481	285947.179	4822227.315	26.259
	1168	184.66400	101.67400	70.0740			1482	285957.148	4822223.720	26.065
M		2.1500					1483	Altura Mira		
	1169	174.32500	100.97000	79.2470			1484	285971.533	4822218.866	25.850
	1170	170.22200	100.81900	84.0070			1485	285978.309	4822216.769	25.977
	1171	167.61800	100.97100	82.4410			1486	285980.580	4822219.750	25.800
M		3.1500					1487	Altura Mira		
	1172	160.76500	100.09100	83.7570			1488	285988.849	4822223.398	25.938
L		23			23		1489	Nueva LINEA		
M		4.0000					1490	Altura Mira		
	1173	160.76500	100.23800	81.9450			1491	285987.801	4822224.877	24.901
M		3.5000					1492	Altura Mira		
	1174	167.95000	101.04800	77.7230			1493	285977.927	4822223.675	24.428
M		3.2000					1494	Altura Mira		
	1175	170.07000	101.42600	75.8140			1495	285974.772	4822224.175	24.309
M		3.1500					1496	Altura Mira		
	1176	175.04900	101.90100	67.9440			1497	285966.377	4822228.983	24.029
M		2.1500					1498	Altura Mira		
	1177	179.92400	102.53900	69.5290			1499	285961.983	4822225.699	24.285
M		0.5000					1500	Altura Mira		
	1178	185.85900	104.25900	65.1800			1501	285954.763	4822228.311	24.350
L		4			4		1502	Nueva LINEA		
M		2.1500					1503	Altura Mira		
	1179	185.06600	100.60900	75.6840			1504	285958.026	4822218.139	26.333
L		4			4		1505	Nueva LINEA		
	1180	195.57800	100.39800	76.0380			1506	285945.713	4822215.895	26.582
L		4			4		1507	Nueva LINEA		
	1181	213.74400	99.69200	77.3660			1508	285923.862	4822216.180	27.432
L		4			4		1509	Nueva LINEA		
	1182	221.44800	99.13400	85.5570			1510	285912.155	4822211.010	28.221
L		4			4		1511	Nueva LINEA		
	1183	228.75400	99.05700	93.9450			1512	285899.436	4822207.236	28.449
B	30523	285962.766	4822268.601	28.169			1513	BASE (coord de FICHERO DE BASES)		
L		6			6		1514	Nueva LINEA		
H		1.6480	1.3000				1515	Altura Aparato y Mira		
O	30063	351.14600	101.84100	32.1710			1516	285940.440	4822291.748	27.586
L		166			166		1517	Nueva LINEA		
	1184	354.82900	101.95400	25.3120			1518	285946.284	4822287.796	27.740
	1185	351.30700	102.00500	25.2270			1519	285945.307	4822286.793	27.723
	1186	351.49100	102.00500	20.6050			1520	285948.549	4822283.501	27.868
	1187	350.40200	102.56900	13.3250			1521	285953.412	4822278.075	27.979
	1188	347.32200	103.95600	7.4440			1522	285957.296	4822273.629	28.055

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LTN	X	Y	Z
	1189	318.18700	118.05800	1.5840						
	1190	163.75900	105.42100	5.6600			1523	285961.307	4822269.030	28.074
	1191	158.52100	102.80100	12.5800			1524	285965.806	4822263.851	28.036
	1192	156.94300	102.12900	20.2180			1525	285970.387	4822258.607	27.964
	1193	156.22700	101.89000	27.5780			1526	285975.413	4822252.842	27.841
	1194	155.80600	101.79100	36.1020			1527	285980.260	4822247.298	27.698
	1195	155.52900	101.90600	44.6600			1528	285985.852	4822240.864	27.502
	1196	155.39300	101.98700	50.5770			1529	285991.472	4822234.415	27.180
	1197	155.30900	102.09300	52.9200			1530	285995.357	4822229.957	26.939
L		60					1531	285996.918	4822228.214	26.778
	1198	153.61900	101.90600	52.9740			1532	Nueva LINEA		
	1199	153.58700	101.82800	48.2890			1533	285998.018	4822229.091	26.931
	1200	153.38600	101.59700	37.7660			1534	285994.919	4822232.600	27.131
	1201	153.00700	101.54700	28.0170			1535	285988.004	4822240.522	27.570
	1202	152.13500	101.84400	16.9050			1536	285981.613	4822247.882	27.836
	1203	150.75300	102.58800	9.9600			1537	285974.307	4822256.258	28.027
	1204	135.63000	111.67800	1.9740			1538	285969.719	4822261.481	28.112
	1205	359.46700	103.12800	7.2140			1539	285964.411	4822267.570	28.157
	1206	356.89200	101.92100	14.7510			1540	285958.482	4822274.395	28.163
	1207	356.01900	101.67000	19.3960			1541	285953.528	4822280.093	28.072
	1208	354.83800	101.63100	25.2660			1542	285950.412	4822283.545	28.008
L		166					1543	285946.315	4822287.766	27.870
	1209	332.20200	102.78000	26.2870			1544	Nueva LINEA		
	1210	335.29500	102.58100	25.9960			1545	285939.793	4822281.327	27.370
	1211	331.21000	102.74000	20.4640			1546	285940.683	4822282.276	27.463
	1212	316.02700	103.11300	12.7270			1547	285944.730	4822278.228	27.637
	1213	277.98500	104.06000	7.7520			1548	285950.455	4822271.768	27.895
	1214	210.53500	103.50600	9.3120			1549	285955.488	4822265.979	28.023
	1215	183.53500	102.31500	16.2720			1550	285961.234	4822259.430	28.004
	1216	172.90400	101.94700	25.0480			1551	285966.924	4822252.880	27.925
	1217	168.61400	101.80600	32.4160			1552	285973.102	4822245.798	27.751
	1218	165.69000	101.83600	40.6710			1553	285978.100	4822240.056	27.598
	1219	163.82500	101.95300	48.6690			1554	285983.629	4822233.709	27.344
	1220	163.23200	102.03400	52.2020			1555	285988.942	4822227.598	27.024
	1221	163.11200	102.06500	53.6030			1556	285991.250	4822224.887	26.850
L		60					1557	285992.099	4822223.770	26.779
	1222	164.63000	101.90400	53.7210			1558	Nueva LINEA		
	1223	165.60500	101.76300	48.9460			1559	285991.086	4822222.979	26.911
	1224	168.00500	101.58400	40.3870			1560	285987.931	4822226.642	27.162
	1225	172.06300	101.48000	31.2980			1561	285982.212	4822233.218	27.512
	1226	177.97000	101.51000	23.7390			1562	285976.059	4822240.276	27.790
	1227	184.41000	101.54000	18.9350			1563	285970.814	4822246.275	27.954
	1228	205.75600	102.03300	11.9080			1564	285967.354	4822250.236	28.059
	1229	262.80400	102.45600	8.6800			1565	285961.691	4822256.748	28.137
	1230	307.78700	102.18800	12.8780			1566	285955.531	4822263.817	28.182
	1231	320.72900	102.19600	17.0750			1567	285949.992	4822270.172	28.074
	1232	328.50100	102.43400	22.0810			1568	285946.598	4822274.061	27.928
	1233	332.00800	102.36800	26.2600			1569	285942.876	4822278.154	27.673
L		10					1570	285939.772	4822281.247	27.540
	1234	336.05200	102.59100	26.1880			1571	Nueva LINEA		
	1235	333.94900	102.68200	22.8080			1572	285940.685	4822282.641	27.452
	1236	328.37900	102.80800	17.8100			1573	285943.143	4822280.186	27.556
	1237	310.68600	103.30900	11.1650			1574	285946.713	4822276.273	27.732
	1238	240.45300	104.29300	7.2150			1575	285951.773	4822270.464	27.937
	1239	194.59400	102.88800	11.9310			1576	285958.493	4822262.808	28.031
	1240	175.16500	102.01600	21.9440			1577	285963.776	4822256.725	27.976
	1241	169.23300	101.84800	30.5290			1578	285971.106	4822248.316	27.822
	1242	165.68200	101.82800	39.8960			1579	285976.945	4822241.579	27.631
	1243	163.70200	101.95900	48.3270			1580	285983.236	4822234.376	27.372
	1244	163.32200	101.98700	50.3420			1581	285988.837	4822227.937	27.030
	1245	162.39000	102.14700	56.4410			1582	285990.176	4822226.405	26.946
	1246	161.26800	102.32800	65.0850			1583	285994.184	4822221.752	26.614
	1247	160.44100	102.52100	71.3090			1584	285999.938	4822215.229	26.138
	1248	159.38600	102.65500	77.4440			1585	286004.244	4822210.665	25.694
	1249	157.79800	102.73200	83.8790			1586	286008.845	4822206.441	25.289
	1250	156.51000	102.74700	88.3290			1587	286014.335	4822202.546	24.919
L		10					1588	286018.466	4822200.155	24.707
M		2.1500					1589	Nueva LINEA		
	1251	151.63400	102.96100	89.0020			1590	286023.994	4822204.140	24.379
M		1.3000					1591	Altura Mira		
	1252	153.02100	102.27000	82.8350			1592	286018.456	4822207.352	24.714
	1253	153.92400	102.82900	76.7080			1593	Altura Mira		
	1254	154.69600	102.61200	68.3110			1594	286013.509	4822211.176	25.110
	1255	155.11100	102.36700	61.5930			1595	286007.338	4822216.911	25.715
	1256	155.20900	102.32500	59.9670			1596	286002.656	4822221.726	26.228
	1257	155.59400	102.00800	49.8820			1597	286001.533	4822222.903	26.328
	1258	155.88000	101.86600	41.0530			1598	285994.788	4822230.387	26.944
	1259	156.40800	101.82700	30.0970			1599	285988.981	4822237.031	27.314
	1260	157.09500	102.05600	21.9670			1600	285981.792	4822245.297	27.653
	1261	159.52700	102.93400	11.7570			1601	285976.467	4822251.445	27.808
	1262	173.90900	109.52500	3.1700			1602	285969.739	4822259.151	27.975
	1263	331.77200	110.10800	2.8290			1603	285964.015	4822265.726	28.044
	1264	348.11100	103.23100	10.0270			1604	285960.313	4822269.938	28.070
	1265	350.70100	102.21500	18.1900			1605	285955.478	4822275.469	28.008
	1266	350.98600	102.04700	22.1810			1606	285950.055	4822281.597	27.884
							1607	285947.335	4822284.519	27.804

16 250 2007

CO ISPOL

TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	1267	350.91500	102.00100	25.2240			1608	285945.198	4822286.683	27.724
L		178					1609	Nueva LINEA		
	1268	163.81400	102.13300	54.5600			1610	285992.116	4822222.645	26.690
	1269	163.73700	102.15200	56.0420			1611	285992.970	4822221.433	26.623
M		2.1500					1612	Altura Mira		
	1270	164.80700	101.32300	57.3320			1613	285992.861	4822219.818	26.476
	1271	167.34200	101.46100	57.7030			1614	285991.076	4822218.337	26.343
	1272	172.79700	101.62000	58.0870			1615	285986.828	4822215.753	26.189
	1273	181.23000	101.61100	58.3260			1616	285979.706	4822212.809	26.191
	1274	187.89700	101.46000	58.5600			1617	285973.826	4822211.111	26.324
	1275	195.53500	101.16600	59.3610			1618	285966.922	4822209.396	26.580
L		30					1619	Nueva LINEA		
	1276	196.61900	101.61000	55.2800			1620	285965.697	4822213.417	26.269
	1277	185.73500	101.74700	54.7150			1621	285974.917	4822215.274	26.166
	1278	178.99700	102.07900	55.0210			1622	285980.578	4822216.574	25.871
M		2.0000					1623	Altura Mira		
	1279	175.56800	102.38700	54.8530			1624	285983.287	4822217.773	25.761
	1280	164.80500	101.84200	53.6660			1625	285990.932	4822222.947	26.265
L		178					1626	Nueva LINEA		
M		2.1500					1627	Altura Mira		
	1281	188.48200	101.27200	64.5160			1628	285974.369	4822205.150	26.378
	1282	175.44400	101.60000	65.3530			1629	285987.343	4822208.068	26.025
	1283	169.11200	101.73200	67.9360			1630	285994.435	4822208.527	25.819
	1284	165.68200	101.81500	70.6600			1631	285999.020	4822207.984	25.653
	1285	162.18200	101.95200	75.1310			1632	286004.795	4822206.369	25.364
	1286	159.75800	102.01900	79.7750			1633	286009.874	4822204.271	25.138
	1287	157.64100	102.11300	85.4680			1634	286015.497	4822201.399	24.831
	1288	156.39700	102.13600	89.0700			1635	286019.077	4822199.655	24.680
	1289	154.95000	102.15000	93.9180			1636	286023.778	4822197.271	24.496
L		4					1637	Nueva LINEA		
	1290	155.81900	102.19500	94.2620			1638	286023.017	4822196.182	24.418
	1291	158.13500	102.22300	86.8050			1639	286015.788	4822199.938	24.637
	1292	161.62200	102.19600	78.8260			1640	286007.429	4822203.706	24.949
	1293	165.70400	102.03700	72.5300			1641	285999.954	4822206.374	25.347
	1294	169.12800	101.84700	69.1810			1642	285994.998	4822207.421	25.660
	1295	176.44400	101.68700	66.1790			1643	285986.687	4822206.922	25.914
	1296	185.87100	101.48900	65.6110			1644	285977.201	4822204.616	26.133
	1297	195.15700	100.97700	65.8920			1645	285967.770	4822202.907	26.656
L		643					1646	Nueva LINEA		
	1298	215.34900	99.08100	73.6870			1647	285945.170	4822197.054	28.731
	1299	209.47600	99.74400	70.6840			1648	285952.280	4822198.700	27.952
	1300	197.31500	100.85000	67.8590			1649	285965.623	4822200.809	26.761
	1301	194.43800	100.89600	68.7290			1650	285968.759	4822200.141	26.700
L		643					1651	Nueva LINEA		
	1302	191.11500	101.11300	68.2720			1652	285972.259	4822201.003	26.474
	1303	182.77800	101.76800	67.0180			1653	285980.665	4822204.045	25.806
	1304	173.10300	101.79900	69.8970			1654	285991.412	4822204.874	25.692
	1305	165.33900	102.23700	76.2290			1655	286002.221	4822203.432	24.989
	1306	161.02100	102.18800	84.0380			1656	286011.033	4822199.868	24.780
	1307	156.30700	102.09900	96.8740			1657	286024.118	4822193.699	24.474
L		710					1658	Nueva LINEA		
	1308	171.36000	101.70200	67.0670			1659	285991.917	4822208.227	25.874
L		710					1660	Nueva LINEA		
	1309	159.17600	102.04600	81.6930			1661	286011.607	4822203.169	25.042
L		741					1662	Nueva LINEA		
	1310	167.57000	101.86400	71.1790			1663	285997.459	4822206.485	25.584
L		178					1664	Nueva LINEA		
M		1.3000					1665	Altura Mira		
	1311	154.18700	102.22300	55.2730			1666	285999.172	4822227.057	26.588
	1312	154.19000	102.46500	63.7580			1667	286004.753	4822220.684	26.049
	1313	154.03900	102.68400	70.2430			1668	286009.142	4822215.927	25.557
M		2.2000					1669	Altura Mira		
	1314	153.30500	102.12400	77.9210			1670	286014.899	4822210.747	25.018
M		2.1500					1671	Altura Mira		
	1315	152.74800	102.28200	82.9470			1672	286018.793	4822207.509	24.695
	1316	152.20400	102.34600	84.9710			1673	286020.691	4822206.513	24.537
	1317	151.28700	102.37700	89.2550			1674	286024.543	4822204.267	24.336
	1318	149.59000	102.37200	95.5740			1675	286030.730	4822201.500	24.107
L		86					1676	Nueva LINEA		
M		1.7000					1677	Altura Mira		
	1319	145.37400	103.18100	92.5880			1678	286032.725	4822208.130	23.493
L		86					1679	Nueva LINEA		
	1320	145.18500	103.34600	89.5560			1680	286030.599	4822210.319	23.413
M		2.1500					1681	Altura Mira		
	1321	145.25200	103.07100	87.0880			1682	286028.684	4822211.843	23.468
	1322	146.01100	103.05300	85.9170			1683	286027.126	4822211.834	23.549
	1323	148.00400	103.00700	84.2300			1684	286024.092	4822210.999	23.690
	1324	151.41100	102.73400	81.7940			1685	286019.252	4822209.548	24.156
L		86					1686	Nueva LINEA		
M		1.3000					1687	Altura Mira		
	1325	145.59600	103.21900	96.2190			1688	286035.247	4822205.507	23.654
L		44					1689	Nueva LINEA		
M		2.1500					1690	Altura Mira		
	1326	145.32200	103.15400	86.4800			1691	286028.157	4822212.171	23.385
	1327	139.36100	103.92100	80.6130			1692	286028.328	4822221.960	22.706

# DEUTSCHER KALIBRIERDIENST **DKD**

Kalibrierlaboratorium für geometrische Optik  
*Calibration laboratory for measured quantities geometric optics*

Akkreditiert durch die / *accredited by the*

Akkreditierungsstelle des DKD bei der

PHYSIKALISCH-TECHNISCHEN BUNDESANSTALT (PTB)

06 449 2707



## Kalibrierschein *Calibration Certificate*

Kalibrierzeichen  
*Calibration label*

7609
DKD-K-05201
03-08

Gegenstand  
*Object* Aerial Survey Camera

Hersteller  
*Manufacturer* Carl Zeiss  
 D-73446 Oberkochen

Typ  
*Type* RMK TOP 15

Fabrikat/Serien-Nr.  
*Serial number* 142 817

Auftraggeber  
*Customer* Heliberica Fotogrametria S.L.  
 Madrid  
 Spain

Auftragsnummer  
*Order No.* 41 270

Anzahl der Seiten des Kalibrierscheines  
*Number of pages of the certificate* 4

Datum der Kalibrierung  
*Date of calibration* 22.08.03

Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI).

Der DKD ist Unterzeichner der multilateralen Übereinkommen der European co-operation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine.

Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

*This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI).*

*The DKD is signatory to the multilateral agreements of the European co-operation for Accreditation (EA) and of the International Laboratory Accreditation Cooperation (ILAC) for the mutual recognition of calibration certificates.*

*The user is obliged to have the object recalibrated at appropriate intervals.*

Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung sowohl der Physikalisch-Technischen Bundesanstalt als auch des ausstellenden Kalibrierlaboratoriums. Kalibrierscheine ohne Unterschrift und Stempel haben keine Gültigkeit.

*This calibration certificate may not be reproduced other than in full except with the permission of both the Physikalisch-Technische Bundesanstalt and the issuing laboratory. Calibration certificates without signature and seal are not valid.*

Stempel <i>Seal</i>	Datum <i>Date</i>	Leiter des Kalibrierlaboratoriums <i>Head of the calibration laboratory</i>	Bearbeiter <i>Person in charge</i>
	25.08.03	 Dr. Wiedenmann	 Müller

Carl Zeiss  
 Industrielle Messtechnik GmbH  
 Mess- und Kalibrierzentrum  
 D - 73447 Oberkochen

Telefon 07364-20-3731  
 Telefax 07364-20-4511  
 E-Mail kalibrieren@zeiss.de



CAMERA TYPE: RMK TOP 15 SERIAL NO. 142817  
 LENS TYPE: PLEOGON A3 SERIAL NO. 142818  
 MAX. APERTURE: F/4 NOM. FOCAL LENGTH: 153 MM

1) CALIBRATED FOCAL LENGTH = 153.761 MM

2) DISTORTION /0.001 MM, REFERRING TO P.P. OF SYMMETRY PPS

S/MM=	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
5	0	0	0	1	1	3	3	3	2	2	1	0	0	-1	-1	-2
6	0	1	1	2	3	4	5	5	2	2	1	-1	-2	-1	-1	0
7	0	0	1	2	3	4	5	5	4	2	0	-2	-2	-3	-3	-5
8	0	0	0	1	1	3	3	3	2	1	0	-2	-2	-3	-3	-4
AV.	0	0	1	2	2	3	4	4	2	2	0	-1	-2	-2	-2	-3

3) P.P. OF AUTOCOLLIMATION AND FIDUCIAL CENTRE, REFERRING TO PPS

P.P. OF AUTOCOLLIMATION PPA	X=	-0.012	Y=	0.003 MM
FIDUCIAL CENTRE FC	X=	0.004	Y=	0.001 MM
CORNER FIDUCIAL CENTRE FCC	X=	0.002	Y=	-0.007 MM

4) FIDUCIAL MARKS, REFERRING TO PPS

X1= 112.999	X2=-112.994	X3= 0.006	X4= 0.002 MM
Y1= 0.003	Y2= -0.001	Y3= 113.004	Y4=-113.001 MM
DISTANCES 1-2= 225.993		3-4= 226.005 MM	
X5= 113.007	X6=-113.001	X7=-113.001	X8= 112.991 MM
Y5= 112.991	Y6=-113.002	Y7= 113.000	Y8=-113.000 MM

5) PHOTOGRAPHIC RESOLVING POWER, IN CYCLES PER MM  
 (AS PER DEFINITION, R. P. IS NOT A CALIBRATED DATUM)  
 AREA WEIGHTED AVERAGE RESOLUTION 96

FIELD ANGLE /DEG = 0 7 14 21 28 35 42

RADIAL LINES	129	128	126	121	114	94	86
TANGENTIAL LINES	129	127	122	113	90	69	64

FILM: KODAK PANATOMIC X 3412 SPEED 40 AFS  
 DEVELOPED IN AGFA G 74 C AVIPHOT

6) Filter

7) Magazines

8) Measuring uncertainty

Distortion: U = 3 µm ; Point of symmetric and collimation: U = 3 µm ; Image center: U = 5 µm ; Camera constant: U = 5 µm

The specification indicates the upgraded measuring uncertainty resulting from the multiplication of the standard measuring uncertainty by the factor k = 2. It was determined in conformity with DKD-3. The values of the measurement parameter lie within the specified range with a probability of 95%.

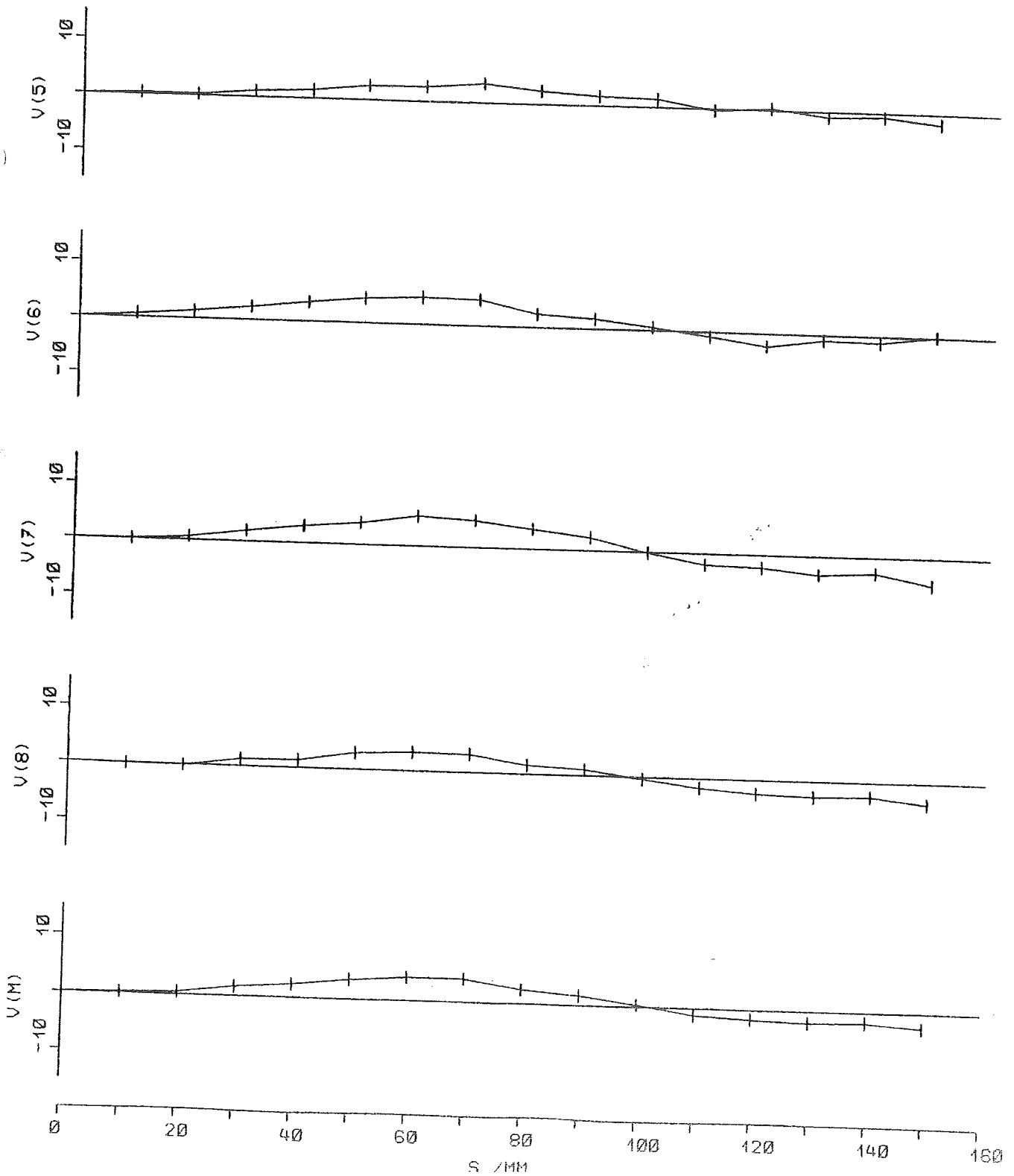
7609
DKD-K-05201
03-08

06 150 7007

RMK TOP 15  
PLEOGON A3 4/153  
CFL=153.761 MM

NO. 142817  
NO. 142818

DISTORTION /0.001 MM, REFERRING TO PPS

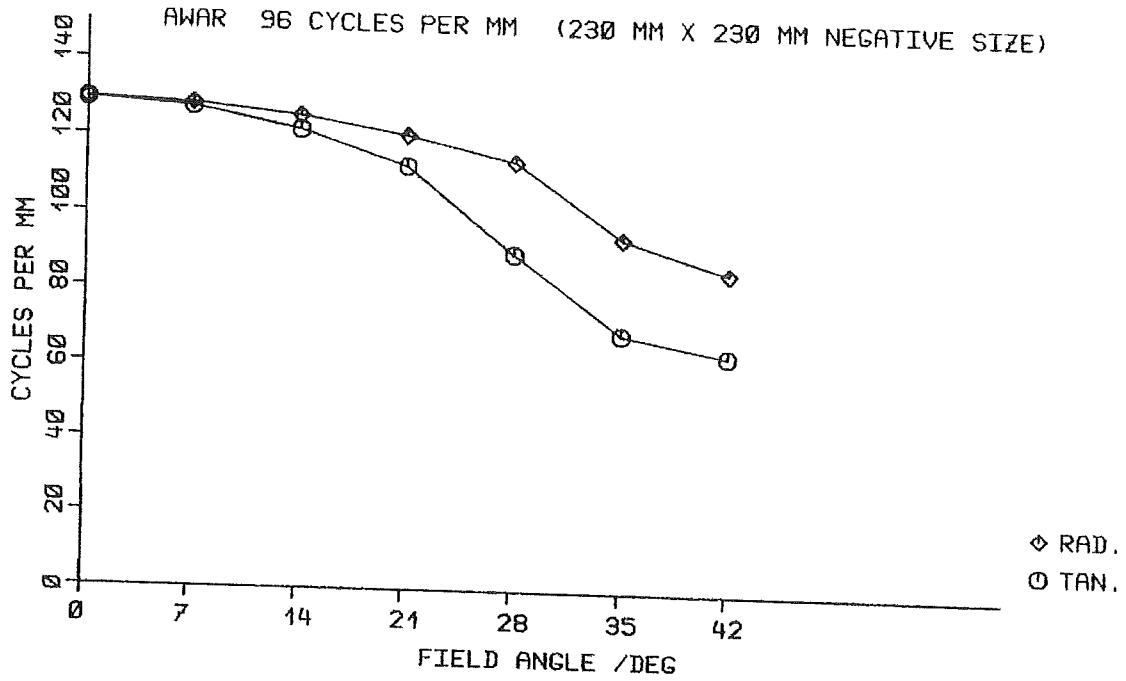


RMK TOP 15

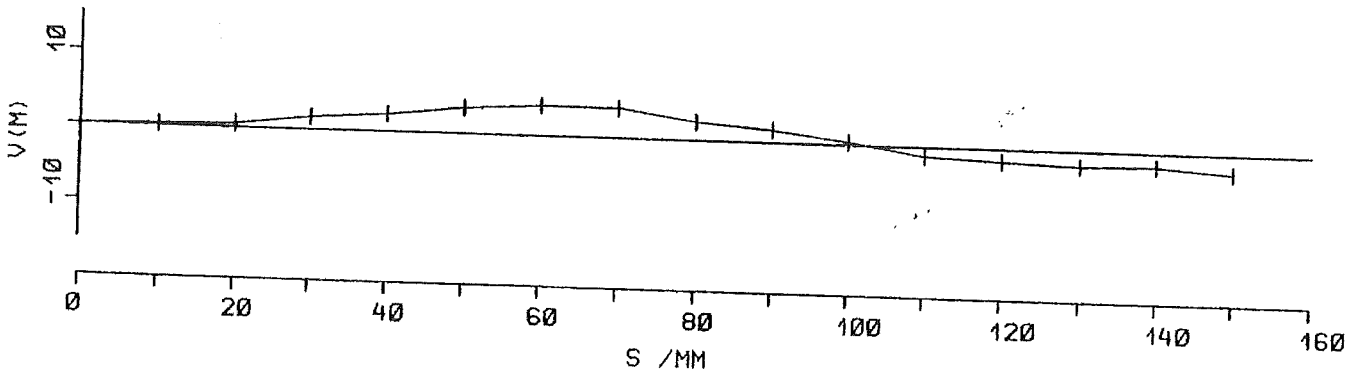
NO. 142817

0.6 ASO 2207

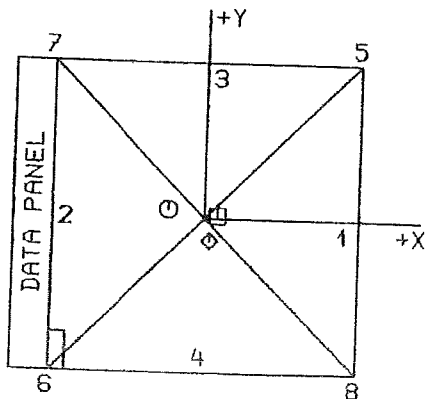
PHOTOGRAPHIC RESOLVING POWER



DEPARTURE OF AVERAGE DISTORTION FROM ZERO REFERENCE



PRINCIPAL POINT (PPA, PPS) AND FIDUCIAL CENTRE (FC)



COORDINATES, REFERRING TO PPS

	X / MM	Y / MM
○ PPA	-0.012	0.003
□ FC	0.004	0.001
◇ FCC (CORNER FIDUCIAL CENTRE)	0.002	-0.007

— 0.01 MM, X-AXIS AS DEFINED BY FIDUCIAL MARK COORDINATES  
 $\alpha(6) = 0.0^\circ$        $\alpha(8) = \alpha(6) + 90^\circ$

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## Appendix

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This camera has been, tested in accordance with the existing regulations. The methods used are based on the Recommended Procedures for Calibrating Photogrammetric Cameras and for Related Optical Tests (International Society of Photogrammetry, 1960, reaffirmed 1964). The optical performance and the external construction are in accordance with our terms of delivery.

### **1. Calibrated Focal Length**

The calibrated focal length is chosen so as to minimize the square sum of the radial measured distortion.

### **2. Distortion**

The values of radial distortion refer to the calibrated focal length and to the principal point of symmetry (Section 3). Regarding the origin for distortion values it must be realized that in the photogrammetric process, the asymmetry due to a displacement of that point is eliminated together with the asymmetry introduced by camera tilt. The principal point of symmetry is chosen as origin for distortion, because only this residual asymmetry cannot be eliminated by simple compensation.

The radial distortion is measured for points of the focal plane separated by 10mm from the axis for each of the four radii 5, 6, 7 and 8. AV is the average radial measured distortion at a given radial distance. A positive value indicates that the image is further from the centre than its distortionfree position. Measurements are made at maximum aperture on the goniometer by attaching the filter D (cut-off wavelength 535 nm at transmittance 50%). The measuring uncertainty (95%;  $k=2$ ) 0.003 mm.

The maximum tangential distortion, i.e. the displacement of the central image from a straight line connecting corresponding image points at equal but opposite angular separations from the axis, does not exceed 0.005 mm.

### **3. Principal Point and Fiducial Centre**

The position of the principal point of autocollimation and of the fiducial centre (Section 4) are given in a rectangular coordinate system as indicated in the plot, with the principal point of symmetry as origin.

#### **4. Fiducial Marks**

For coordinate measurements the fiducial marks are recorded on photographic glass plates. Coordinates of the fiducial marks are given in a rectangular system as shown in the plot, with the principal point of symmetry as origin. Fiducial marks 1 and 2 lie in the line of flight. The location of the fiducial marks can be assumed to be accurate within 0.005 mm.

In the course of camera assembly and maintenance the fiducial marks are adjusted to meet the following specifications:

- The lines joining opposite pairs of fiducial marks intersect at an angle within 30 seconds of  $90^\circ$ .
- The point of intersection (fiducial centre) is within 0.02 mm of the principal point of autocollimation.

#### **5. Photographic Resolving Power**

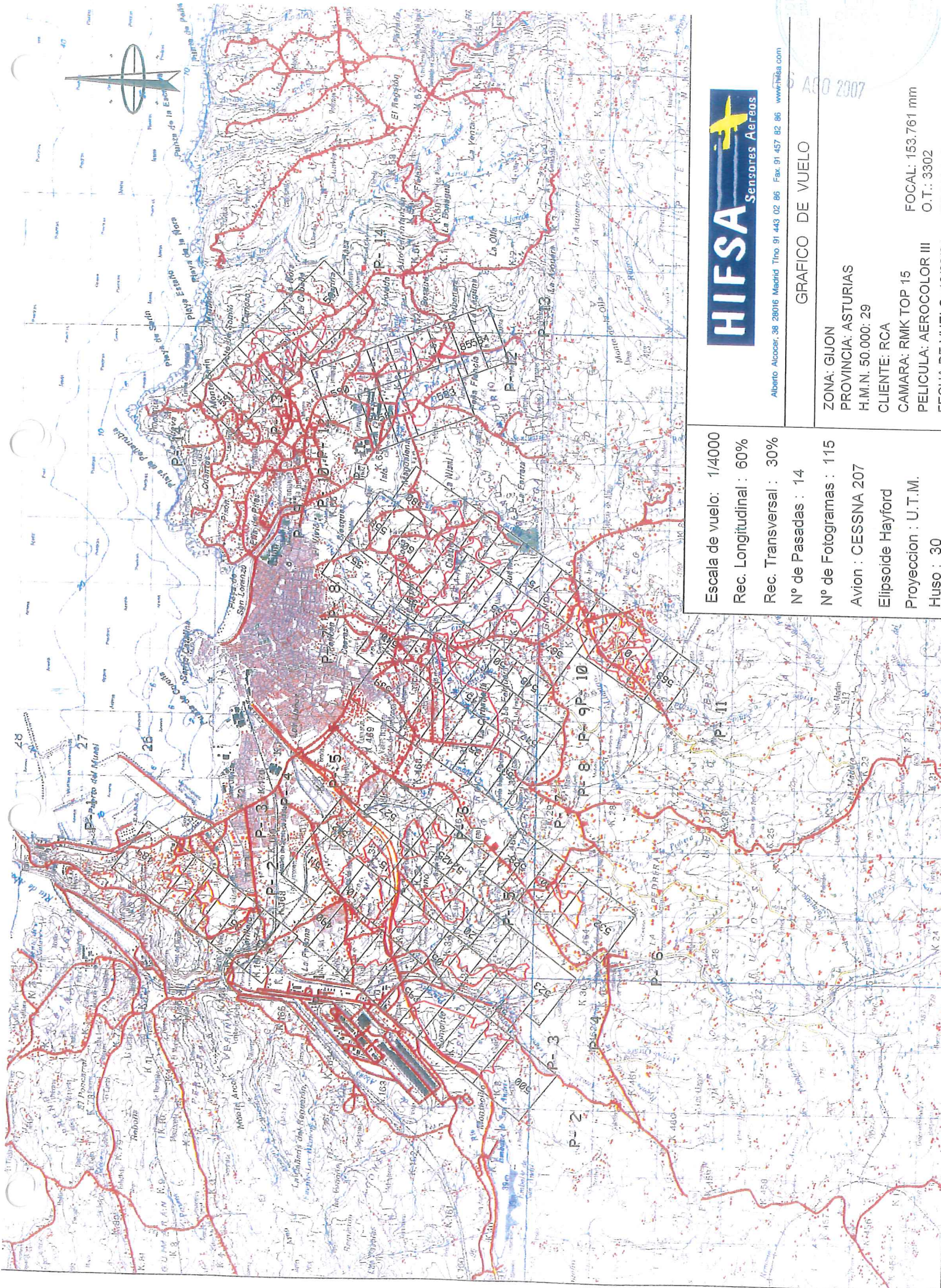
The resolving power is obtained by photographing a series of three line high contrast test figures. The photographs are taken under the recommended standard illumination by using the filter B (cut-off wavelength 490 nm at transmittance 50%). The camera is used at full aperture. The resulting image is examined with a low power stereoscopic microscope to find the spatial frequency of the finest pattern resolved. The values of resolving power are reduced to the image plane and refer to the focus settings as used for determining the calibrated focal length.

#### **6. Filters**

The two surfaces of the filters listed in the certificate are within 5 seconds of being parallel.

#### **7. Magazine Platen**

The platen mounted in the film magazine, serial no. as indicated in the certificate, does not depart from a true plane by more than 0.010 mm.



Alberio Alcocer, 38 28016 Madrid Tfno 91 443 02 86 Fax 91 457 82 86 [www.hifsa.com](http://www.hifsa.com)

**GRAFICO DE VUELO**

Escala de vuelo: 1/4000  
 Rec. Longitudinal : 60%  
 Rec. Transversal : 30%  
 Nº de Pasadas : 14  
 Nº de Fotografías : 115  
 Avion : CESSNA 207  
 Elipsoide Hayford  
 Proyeccion : U.T.M.  
 Huso : 30

ZONA: GIJON  
 PROVINCIA: ASTURIAS  
 H.M.N. 50.000: 29  
 CLIENTE: RCA  
 CAMARA: RMK TOP 15  
 PELICULA: AEROCOLOR III  
 FECHA DE VUELO: 12/02/04

FOCAL: 153.761 mm  
 O.T.: 3302  
 ESCALA GRAFICO: 1/50.000

8 A50 2007

CO ISPOL

TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

06 SEP 2007

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M	1328	135.26600	104.45700	75.6920			1693	286026.978	4822228.877	22.372
		2.5000					1694	Altura Mira		
L	1329	129.49400	104.91000	70.9440	30		1695	286026.041	4822236.988	21.851
		30					1696	Nueva LINEA		
M	1330	128.81700	104.78600	70.5460			1697	286026.026	4822237.831	22.019
		2.1500					1698	Altura Mira		
	1331	135.04800	105.09800	64.0920			1699	286017.211	4822235.177	22.540
	1332	145.20400	105.34200	56.9300			1700	286005.783	4822231.618	22.896
	1333	150.52500	102.80800	54.1630			1701	286000.709	4822230.023	25.279
	1334	153.46400	101.66900	53.0000			1702	285998.135	4822229.154	26.278
L		23			23		1703	Nueva LINEA		
	1335	145.53400	105.32100	57.1710			1704	286005.773	4822231.237	22.894
	1336	149.85000	103.80700	68.3230			1705	286011.102	4822220.487	23.584
L	1337	150.90900	103.08800	77.5550			1706	286016.750	4822213.047	23.907
		710			710		1707	Nueva LINEA		
L	1338	151.75100	102.73100	78.9150			1708	286016.959	4822211.336	24.283
		710			710		1709	Nueva LINEA		
M		1.3000					1710	Altura Mira		
L	1339	141.48600	104.28100	81.5950			1711	286027.491	4822219.222	23.035
		760			760		1712	Nueva LINEA		
M		3.1500					1713	Altura Mira		
L	1340	143.94100	102.65500	85.7030			1714	286028.791	4822214.077	23.094
		40			40		1715	Nueva LINEA		
M		2.1500					1716	Altura Mira		
	1341	153.21300	101.84800	53.7790			1717	285998.809	4822228.719	26.106
	1342	153.58800	101.85900	63.8700			1718	286005.292	4822220.984	25.802
	1343	152.98600	102.36300	76.8510			1719	286014.461	4822211.808	24.815
	1344	152.24300	102.49600	82.8680			1720	286019.215	4822208.021	24.419
L		4			4		1721	Nueva LINEA		
M		1.3000					1722	Altura Mira		
	1345	146.66100	104.02500	79.2440			1723	286021.540	4822215.685	23.511
	1346	141.37700	105.16800	68.7300			1724	286017.300	4822227.144	22.944
L		92			92		1725	Nueva LINEA		
M		4.1900					1726	Altura Mira		
	1347	142.82800	101.35700	103.6880			1727	286043.840	4822204.000	23.418
	1348	141.94200	101.69900	91.9000			1728	286035.403	4822212.358	23.175
M		5.5000					1729	Altura Mira		
	1349	134.39800	101.11500	93.6080			1730	286043.024	4822220.451	22.678
L		92			92		1731	Nueva LINEA		
M		4.1900					1732	Altura Mira		
	1350	130.25800	102.27400	89.4100			1733	286042.213	4822227.709	22.434
		6.0000					1734	Altura Mira		
	1351	134.66900	100.73000	90.1620			1735	286039.878	4822221.891	22.784
	1352	133.78700	100.65600	103.8890			1736	286052.356	4822216.015	22.747
M		4.1900					1737	Altura Mira		
	1353	127.83800	102.12300	103.6990			1738	286056.653	4822224.707	22.170
	1354	127.82800	102.16700	99.8850			1739	286053.204	4822226.336	22.228
L		30			30		1740	Nueva LINEA		
	1355	131.06700	101.84200	110.5820			1741	286060.396	4822216.770	22.429
	1356	127.85900	102.02200	112.0210			1742	286064.177	4822221.148	22.070
	1357	123.17000	102.43600	104.7220			1743	286060.554	4822231.345	21.622
L		91			91		1744	Nueva LINEA		
	1358	129.25800	102.82900	79.2370			1745	286033.709	4822233.485	22.107
	1359	130.29700	102.82900	77.6040			1746	286031.676	4822233.079	22.180
	1360	128.14500	103.16200	75.5670			1747	286030.981	4822236.307	21.876
L		4			4		1748	Nueva LINEA		
M		1.7000					1749	Altura Mira		
	1361	131.74100	104.41000	83.2720			1750	286035.723	4822228.874	22.354
L		4			4		1751	Nueva LINEA		
M		3.0000					1752	Altura Mira		
	1362	127.49700	103.69400	83.6700			1753	286038.622	4822233.631	21.965
L		4			4		1754	Nueva LINEA		
M		6.0000					1755	Altura Mira		
	1363	134.43500	100.76600	88.7120			1756	286038.806	4822222.922	22.750
L		30			30		1757	Nueva LINEA		
M		2.7000					1758	Altura Mira		
	1364	102.12000	103.00600	176.5930			1759	286139.063	4822262.719	18.784
		2.1500					1760	Altura Mira		
	1365	102.38000	102.92500	173.6700			1761	286136.131	4822262.108	19.692
	1366	103.78700	103.04200	160.5660			1762	286122.864	4822259.058	19.999
M		4.1900					1763	Altura Mira		
	1367	107.33300	102.43300	135.1870			1764	286096.958	4822253.068	20.463
	1368	109.96200	102.57700	120.1840			1765	286081.383	4822249.880	20.764
	1369	112.77800	102.80900	107.6480			1766	286068.149	4822247.155	20.879
	1370	116.02100	102.95900	96.6050			1767	286056.225	4822244.567	21.139
L		4			4		1768	Nueva LINEA		
	1371	124.18200	102.04000	121.9660			1769	286075.977	4822223.396	21.720
M		2.1500					1770	Altura Mira		
	1372	119.06000	103.49200	116.4700			1771	286073.885	4822234.295	21.282
L		643			643		1772	Nueva LINEA		
M		1.3000					1773	Altura Mira		
	1373	121.03100	103.19000	136.5960			1774	286091.811	4822224.341	21.676
	1374	114.75000	103.50100	135.3600			1775	286094.308	4822237.559	21.078
L		4			4		1776	Nueva LINEA		
M		2.1500					1777	Altura Mira		

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO										
#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M	1375	118.64700	102.54900	149.4050			1778	286105.690	4822225.490	21.688
		1.3000					1779	Altura Mira		
L	1376	111.47300	103.31400	148.1110			1780	286108.279	4822242.082	20.812
		4			4		1781	Nueva LINEA		
M		2.1500					1782	Altura Mira		
M	1377	115.28700	102.31500	166.1900			1783	286124.078	4822229.095	21.627
		1.3000					1784	Altura Mira		
L	1378	108.69900	103.06700	167.2320			1785	286128.245	4822245.839	20.465
		4			4		1786	Nueva LINEA		
L	1379	113.74500	102.40800	175.3600			1787	286133.929	4822231.051	21.888
		44			44		1788	286134.746	4822239.622	20.860
L	1380	110.62400	102.79400	174.5730			1789	Nueva LINEA		
		44			44		1790	286140.528	4822230.606	21.206
L	1381	113.40200	102.56000	181.9250			1791	286136.836	4822245.935	20.183
		44			44		1792	286136.243	4822260.829	19.723
L	1382	108.24000	103.02100	175.7380			1793	Nueva LINEA		
		44			44		1794	286140.722	4822260.572	19.585
L	1383	102.84700	103.22200	173.8740			1795	286141.699	4822245.622	20.321
		44			44		1796	286143.876	4822234.885	21.072
L	1384	102.86700	103.19000	178.3620			1797	Nueva LINEA		
		4			4		1798	286033.951	4822202.022	23.912
L	1385	108.12800	102.89100	180.5890			1799	286027.849	4822207.589	23.820
		4			4					
L	1386	111.71400	102.57200	184.3730						
		4			4					
L	1387	147.86900	103.00600	97.5770						
		4			4					
L	1388	147.94200	103.34900	89.3330						
		4			4					
B	30523	285962.766	4822268.601	28.169			1800	BASE (coord de FICHERO DE BASES)		
L		6			6		1801	Nueva LINEA		
H		1.6790	1.3000				1802	Altura Aparato y Mira		
O	30063	351.14600	101.90500	32.1820			1803	285940.440	4822291.748	27.586
L		30			30		1804	Nueva LINEA		
M		2.1500					1805	Altura Mira		
M	1389	101.82600	102.85600	179.8470			1806	286142.357	4822263.439	19.635
		1.3000					1807	Altura Mira		
M	1390	99.55300	102.79000	209.9890			1808	286172.547	4822270.063	19.351
		2.1500					1809	Altura Mira		
M	1391	98.39900	102.28800	228.2500			1810	286190.796	4822274.325	19.500
		42			42		1811	286206.226	4822278.154	19.669
L	1392	97.50000	102.09800	243.7810			1812	286219.703	4822285.328	20.044
		42			42		1813	286228.060	4822289.563	20.197
L	1393	95.85800	101.89300	257.5960			1814	286236.922	4822291.303	20.554
		42			42		1815	286246.006	4822293.010	20.597
L	1394	94.97700	101.79500	266.2280			1816	286258.802	4822292.390	20.695
		42			42		1817	286266.930	4822291.942	20.520
L	1395	94.73700	101.65400	275.1880			1818	Nueva LINEA		
		42			42		1819	Altura Mira		
L	1396	94.52400	101.59100	284.3800			1820	286397.210	4822315.450	22.142
		42			42		1821	Altura Mira		
L	1397	94.89200	101.50200	297.0740			1822	286395.759	4822305.628	22.655
		42			42		1823	Altura Mira		
L	1398	95.12100	101.49900	305.1440			1824	286393.249	4822301.084	22.985
		42			42		1825	Nueva LINEA		
M	1399	93.15800	100.90600	437.0090			1826	Altura Mira		
		1.3000					1827	286381.889	4822308.623	22.673
M	1400	94.56600	100.86500	434.6150			1828	286361.891	4822303.136	22.750
		4.1900					1829	Altura Mira		
M	1401	95.20200	100.39600	431.7170			1830	286336.439	4822298.936	22.305
		4			4		1831	Nueva LINEA		
L	1402	93.93600	100.89000	421.0720			1832	286311.918	4822299.475	21.724
		4			4		1833	Altura Mira		
L	1403	94.50200	100.92300	400.6600			1834	286316.035	4822295.107	21.906
		4.1900					1835	Nueva LINEA		
L	1404	94.84000	100.57100	374.9190			1836	Altura Mira		
		42			42		1837	286318.147	4822292.926	22.203
M	1405	94.38200	100.71600	350.5380			1838	286326.381	4822280.798	23.335
		5.1900					1839	Nueva LINEA		
L	1406	95.22900	100.49600	354.2740			1840	286335.366	4822280.701	23.828
		42			42		1841	Altura Mira		
M	1407	95.64600	100.61900	356.2310			1842	286375.973	4822294.687	23.343
		4.1900					1843	Nueva LINEA		
L	1408	97.86200	100.40800	363.8280			1844	Altura Mira		
		4			4		1845	286396.940	4822318.224	22.010
L	1409	97.93000	100.31400	372.8020			1846	286375.786	4822313.967	22.304
		5.1900					1847	286355.795	4822309.580	22.187
M	1410	95.98300	100.20400	414.0330			1848	286335.342	4822305.100	21.876
		30			30		1849	286320.184	4822301.762	21.734
L	1411	92.75200	100.89600	437.0460			1850	286311.332	4822299.892	21.647
		1.7000					1851	Nueva LINEA		
L	1412	93.03200	100.89700	415.5470			1852	286288.553	4822295.625	21.550
		30			30		1853	286299.039	4822297.527	21.379
L	1413	93.38300	100.96200	395.2060			1854	Nueva LINEA		
		44			44		1855	Altura Mira		
L	1414	93.78000	101.06800	374.4140			1856	286231.599	4822281.519	20.764
		44			44		1857	Nueva LINEA		
L	1415	94.10700	101.13900	359.0120			1858	286237.552	4822269.877	21.391
		4			4		1859	286243.302	4822250.397	22.629
L	1416	94.29700	101.18400	350.0300			1860	Nueva LINEA		
		30			30		1861	286250.118	4822250.199	22.823
L	1417	94.72800	101.28600	326.9740						
		4			4					
L	1418	94.53400	101.27800	337.5840						
		643			643					
M		2.1500								
L	1419	96.94000	101.64100	269.2340						
		44			44					
L	1420	99.70100	101.46200	274.8630						
		4			4					
L	1421	104.12200	101.14900	281.1730						
		4			4					
L	1422	104.06800	101.07900	287.9830						

06 A60 2007



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO 06 ACO 2007

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		3.1500								
	1423	102.81500	100.67600	307.9410			1862	Altura Mira		
L		4			4		1863	286270.387	4822254.974	23.434
M		1.3000					1864	Nueva LINEA		
	1424	99.41600	101.30900	296.9870			1865	Altura Mira		
	1425	99.49700	101.48700	284.2170			1866	286259.677	4822271.310	22.448
L		4			4		1867	286246.896	4822270.831	21.915
	1426	98.17200	101.95800	262.4900			1868	Nueva LINEA		
	1427	104.22100	101.63000	268.9480			1869	286225.023	4822276.120	20.481
L		4			4		1870	286231.033	4822250.774	21.667
	1428	105.07300	101.96500	245.2020			1871	Nueva LINEA		
	1429	102.69300	102.36600	235.9800			1872	286207.072	4822249.079	20.985
L		4			4		1873	286198.371	4822258.616	19.783
	1430	102.57400	102.74200	211.6920			1874	Nueva LINEA		
	1431	107.56100	102.30300	213.0440			1875	286174.088	4822260.041	19.436
L		4			4		1876	286174.169	4822243.363	20.846
M		2.1500					1877	Nueva LINEA		
	1432	109.96200	102.37100	183.9090			1878	Altura Mira		
	1433	107.01700	102.62600	181.1070			1879	286144.300	4822239.950	20.852
M		2.0000					1880	286142.619	4822248.687	20.232
	1434	102.19200	102.91900	179.6420			1881	Altura Mira		
L		40			40		1882	286142.112	4822262.414	19.616
M		1.9000					1883	Nueva LINEA		
	1435	102.01800	102.99600	179.1800			1884	Altura Mira		
M		2.0000					1885	286141.657	4822262.919	19.521
	1436	101.41200	102.97300	177.6880			1886	Altura Mira		
L		23			23		1887	286140.216	4822264.655	19.555
M		3.1500					1888	Nueva LINEA		
	1437	101.41000	102.97100	176.9840			1889	Altura Mira		
M		2.1500					1890	286139.513	4822264.677	18.444
	1438	102.14500	103.12200	177.9370			1891	Altura Mira		
L		23			23		1892	286140.387	4822262.605	18.977
M		3.5000					1893	Nueva LINEA		
	1439	101.41200	102.96100	176.1950			1894	Altura Mira		
L		40			40		1895	286138.726	4822264.689	18.158
M		2.5000					1896	Nueva LINEA		
	1440	101.44300	103.01700	175.5910			1897	Altura Mira		
M		1.3000					1898	286138.114	4822264.617	19.032
	1441	102.78300	103.17700	174.1520			1899	Altura Mira		
L		23			23		1900	286136.534	4822260.991	19.863
M		1.9000					1901	Nueva LINEA		
	1442	102.84100	103.33000	174.9050			1902	Altura Mira		
L		85			85		1903	286137.257	4822260.800	18.805
M		2.1500					1904	Nueva LINEA		
	1443	102.84600	103.25200	175.2030			1905	Altura Mira		
L		6			6		1906	286137.565	4822260.772	18.754
M		1.3000					1907	Nueva LINEA		
D	30518	92.63700	101.92300	303.7490			1908	Altura Mira		
L		40			40		1909	286264.349	4822303.622	19.380
M		2.1500					1910	Nueva LINEA		
	1444	152.17600	102.30700	52.3910			1911	Altura Mira		
M		4.1900					1912	285998.499	4822230.334	25.800
	1445	152.17600	101.12100	49.8740			1913	Altura Mira		
L		23			23		1914	285996.799	4822232.154	24.780
	1446	152.17600	103.24000	46.0320			1915	Nueva LINEA		
	1447	146.50800	103.19500	50.1180			1916	285994.142	4822235.000	23.316
	1448	144.61300	103.26800	54.4460			1917	286000.046	4822235.199	23.144
L		40			40		1918	286004.324	4822233.538	22.865
M		2.1500					1919	Nueva LINEA		
	1449	134.54600	105.26800	61.5860			1920	Altura Mira		
	1450	128.49000	104.71900	66.7840			1921	286015.323	4822236.904	22.608
	1451	121.72800	103.86800	76.7210			1922	286022.806	4822239.778	22.752
	1452	116.48800	103.47000	87.9060			1923	286034.927	4822242.965	23.040
	1453	114.19700	103.26900	94.5800			1924	286047.613	4822246.117	22.909
	1454	111.42700	103.05000	104.1850			1925	286054.881	4822247.706	22.844
	1455	105.13900	102.51900	133.8480			1926	286065.158	4822250.017	22.709
L		6			6		1927	286096.073	4822257.810	22.404
M		1.3000					1928	Nueva LINEA		
D	30525	84.39700	102.62400	257.2430			1929	Altura Mira		
L		23			23		1930	286212.112	4822330.954	17.952
M		3.1500					1931	Nueva LINEA		
	1456	104.99700	102.75300	146.5840			1932	Altura Mira		
M		3.5000					1933	286108.761	4822257.110	20.363
	1457	106.54800	102.76100	137.9870			1934	Altura Mira		
M		3.1500					1935	286099.893	4822254.440	20.367
	1458	109.96900	103.16300	118.4150			1936	Altura Mira		
	1459	113.09400	103.56100	105.5790			1937	286079.586	4822250.151	20.818
M		4.0000					1938	286065.956	4822247.067	20.796
	1460	115.75500	103.05100	96.3540			1939	Altura Mira		
L		86			86		1940	286056.076	4822245.020	21.233
M		2.1500					1941	Nueva LINEA		
	1461	112.91500	103.12700	97.4670			1942	Altura Mira		
L		23			23		1943	286058.118	4822248.982	22.913
	1462	121.90300	104.87400	81.2700			1944	Nueva LINEA		
	1463	130.52700	105.29700	68.0300			1945	286039.047	4822241.265	21.482
							1946	286022.913	4822237.321	22.044

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L		760			760					
	1464	128.36700	104.75800	67.5930			1947	Nueva LINEA		
L		86			86		1948	286023.587	4822239.548	22.651
	1465	130.83500	104.99500	61.8540			1949	Nueva LINEA		
L		30			30		1950	286017.335	4822239.885	22.850
M		1.8000					1951	Nueva LINEA		
	1466	126.21000	105.53100	73.8380			1952	Altura Mira		
M		3.1500					1953	286030.177	4822239.161	21.641
	1467	119.43300	103.95400	87.2090			1954	Altura Mira		
							1955	286045.781	4822242.438	21.285
B	30517	285946.692	4822266.987	20.761			1956	BASE (coord de FICHERO DE BASES)		
L		6			6		1957	Nueva LINEA		
H		1.6580	1.3000				1958	Altura Aparato y Mira		
O	30062	269.53000	99.53300	348.2520			1959	285637.575	4822106.616	23.691
L		10			10		1960	Nueva LINEA		
	1468	92.79600	100.34100	296.5430			1961	286241.335	4822300.459	19.536
	1469	93.16300	100.34500	281.2460			1962	286226.314	4822297.120	19.600
	1470	93.80700	100.34800	257.6660			1963	286203.136	4822292.001	19.715
	1471	94.62600	100.34700	232.7210			1964	286178.581	4822286.598	19.854
	1472	95.58100	100.34800	209.1500			1965	286155.335	4822281.484	19.979
	1473	96.85500	100.35200	184.5130			1966	286130.977	4822276.090	20.101
	1474	98.39700	100.35500	161.3520			1967	286107.990	4822271.042	20.221
	1475	100.31800	100.35400	139.7210			1968	286086.409	4822266.283	20.343
	1476	103.31200	100.36500	115.7460			1969	286062.279	4822260.963	20.456
	1477	107.44300	100.36900	93.8930			1970	286039.942	4822256.031	20.575
	1478	114.08600	100.38100	72.5340			1971	286017.455	4822251.066	20.685
	1479	126.40900	100.38500	52.1330			1972	285994.401	4822245.974	20.804
	1480	137.69300	100.35300	42.5730			1973	285982.017	4822243.226	20.883
	1481	161.92600	100.30500	33.2870			1974	285965.433	4822239.477	20.960
	1482	196.81300	100.20600	31.6320			1975	285948.273	4822235.395	21.017
	1483	225.25300	100.12900	38.7450			1976	285931.721	4822231.251	21.041
	1484	244.02500	100.03200	53.1350			1977	285912.805	4822226.061	21.092
	1485	252.54800	99.98900	67.1490			1978	285897.347	4822221.446	21.131
	1486	257.29000	99.92500	80.3740			1979	285883.735	4822217.023	21.214
	1487	260.89400	99.88700	96.5010			1980	285867.830	4822211.371	21.291
	1488	263.91100	99.84000	119.1590			1981	285846.170	4822203.003	21.419
	1489	265.40800	99.81600	139.4500			1982	285827.324	4822194.894	21.523
	1490	266.26400	99.79600	158.8170			1983	285809.655	4822186.717	21.630
L		174			174		1984	Nueva LINEA		
	1491	265.40500	99.84500	159.7450			1985	285809.956	4822184.395	21.510
	1492	264.92900	99.85600	148.3830			1986	285820.259	4822189.322	21.456
	1493	264.25400	99.86500	137.3180			1987	285830.455	4822193.877	21.411
	1494	263.42600	99.88600	127.0850			1988	285840.006	4822197.932	21.348
	1495	262.23900	99.90200	115.4020			1989	285851.000	4822202.485	21.298
	1496	260.54700	99.93600	103.1960			1990	285862.684	4822207.053	21.223
	1497	257.58000	99.98800	88.6300			1991	285877.018	4822212.207	21.136
	1498	254.20300	100.04100	77.0110			1992	285888.761	4822216.246	21.070
	1499	249.12700	100.10900	65.3660			1993	285901.108	4822220.139	21.007
	1500	240.53200	100.16000	53.1560			1994	285915.088	4822224.247	20.986
	1501	225.63400	100.23600	41.9070			1995	285930.269	4822228.433	20.964
	1502	199.85500	100.30200	34.3270			1996	285946.769	4822232.661	20.956
	1503	167.24900	100.37800	34.7540			1997	285963.791	4822236.731	20.913
	1504	136.82100	100.43600	46.3470			1998	285985.498	4822241.649	20.802
	1505	125.75200	100.44900	56.8390			1999	285998.941	4822244.615	20.718
	1506	115.85600	100.42400	73.6300			2000	286018.047	4822248.835	20.629
	1507	109.99000	100.41000	90.5900			2001	286036.166	4822252.826	20.536
	1508	105.89400	100.40300	108.6810			2002	286054.905	4822256.935	20.432
	1509	102.86400	100.38800	127.7280			2003	286074.288	4822261.237	20.342
	1510	100.44800	100.37900	148.9320			2004	286095.617	4822265.932	20.234
	1511	98.79400	100.37400	168.1750			2005	286114.834	4822270.165	20.133
	1512	97.19700	100.36900	192.5310			2006	286139.033	4822275.453	20.005
	1513	95.97700	100.36500	216.1130			2007	286162.370	4822280.625	19.883
	1514	95.13800	100.36400	236.1850			2008	286182.185	4822284.997	19.772
	1515	94.26000	100.35900	261.5360			2009	286207.162	4822290.524	19.649
	1516	93.67200	100.35900	281.7680			2010	286227.065	4822294.936	19.535
	1517	93.28600	100.35300	297.3130			2011	286242.349	4822298.271	19.476
L		32			32		2012	Nueva LINEA		
	1518	93.53700	100.38400	297.1030			2013	286242.260	4822297.083	19.333
	1519	94.12000	100.38700	276.8390			2014	286222.346	4822292.507	19.441
M		2.1500					2015	Altura Mira		
	1520	94.84500	100.26900	257.5580			2016	286203.404	4822287.808	19.185
	1521	95.62200	100.31600	237.2450			2017	286183.373	4822283.279	19.095
	1522	96.54900	100.35000	217.8220			2018	286164.191	4822278.779	19.075
	1523	97.92600	100.41300	195.1230			2019	286141.707	4822273.334	19.006
L		32			32		2020	Nueva LINEA		
	1524	97.92400	100.37700	191.7020			2021	286138.288	4822273.229	19.136
	1525	98.08300	100.13800	184.3010			2022	286130.909	4822272.528	19.872
M		1.3000					2023	Altura Mira		
	1526	98.49200	100.43800	178.4640			2024	286125.101	4822271.206	19.893
	1527	99.94700	100.43400	159.6520			2025	286106.340	4822267.113	20.032
	1528	101.99100	100.44600	139.4410			2026	286086.061	4822262.621	20.143
	1529	104.71100	100.48000	119.1320			2027	286065.494	4822258.174	20.222
	1530	108.20100	100.49600	101.1070			2028	286046.957	4822253.994	20.332
	1531	113.26600	100.51500	82.9140			2029	286027.809	4822249.831	20.449
	1532	121.60400	100.60900	64.8250			2030	286007.816	4822245.406	20.499

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	1533	137.38600	100.60100	47.6410			2031	285986.348	4822240.590	20.669
	1534	159.76300	100.69600	37.5590			2032	285968.879	4822236.684	20.708
	1535	196.99100	100.54400	35.1580			2033	285948.352	4822231.870	20.819
	1536	224.52200	100.44600	42.7780			2034	285930.617	4822227.345	20.819
	1537	242.99900	100.31200	57.8290			2035	285910.534	4822221.857	20.836
	1538	251.90600	100.16900	73.7820			2036	285892.980	4822216.403	20.923
	1539	258.24600	100.06200	95.0700			2037	285871.345	4822209.012	21.027
	1540	260.90500	99.99900	110.6470			2038	285856.259	4822203.234	21.122
	1541	262.27100	99.95800	121.1220			2039	285846.223	4822199.338	21.200
	1542	263.84000	99.93000	138.2050			2040	285830.185	4822192.646	21.272
	1543	264.40800	99.92000	149.0350			2041	285820.345	4822187.944	21.308
L		32					2042	Nueva LINEA		
M		2.1500			32		2043	Altura Mira		
	1544	263.71800	99.55100	149.9860			2044	285820.412	4822186.068	21.328
	1545	262.56900	99.53700	134.0970			2045	285835.114	4822192.615	21.245
	1546	261.19600	99.54900	120.6950			2046	285847.732	4822197.897	21.125
	1547	259.68900	99.52600	109.5330			2047	285858.393	4822202.179	21.085
	1548	256.16800	99.52900	92.0660			2048	285875.599	4822208.494	20.951
	1549	252.37700	99.47600	79.4860			2049	285888.428	4822212.924	20.924
	1550	244.19600	99.46500	62.9120			2050	285906.441	4822218.640	20.798
	1551	235.31400	99.34500	52.6410			2051	285918.966	4822222.243	20.811
	1552	223.40800	99.15800	44.5250			2052	285930.687	4822225.443	20.858
	1553	210.45600	99.03300	39.5810			2053	285940.219	4822227.944	20.870
	1554	191.08900	99.07200	36.5370			2054	285951.787	4822230.811	20.802
	1555	167.99600	99.19900	37.8010			2055	285964.902	4822233.865	20.745
	1556	147.69700	99.40900	43.9890			2056	285978.899	4822237.027	20.677
M		1.3000					2057	Altura Mira		
	1557	136.65700	100.64000	50.7610			2058	285989.264	4822239.347	20.609
	1558	124.16400	100.62500	64.3200			2059	286006.430	4822243.154	20.488
	1559	116.46000	100.49000	79.3140			2060	286023.366	4822246.705	20.509
	1560	111.96600	100.47200	92.0730			2061	286037.140	4822249.779	20.437
	1561	106.81200	100.46400	113.9280			2062	286059.964	4822254.815	20.289
	1562	104.04100	100.40500	131.0090			2063	286077.434	4822258.671	20.287
	1563	101.73200	100.43900	150.1440			2064	286096.776	4822262.896	20.085
	1564	100.24200	100.42100	165.8010			2065	286112.488	4822266.349	20.024
	1565	98.73800	100.43300	184.7500			2066	286131.401	4822270.641	19.865
M		2.1500					2067	Altura Mira		
L		98.25100	100.37700	191.8130			2068	286138.429	4822272.247	19.136
L		32			32		2069	Nueva LINEA		
	1567	98.21900	100.40900	195.3540			2070	286141.965	4822272.443	19.016
	1568	96.99200	100.35800	214.9530			2071	286161.401	4822277.130	19.063
	1569	96.30300	100.34300	227.8930			2072	286174.197	4822280.203	19.045
	1570	95.35100	100.28100	250.5840			2073	286196.606	4822285.259	19.167
	1571	94.56700	100.19000	272.8960			2074	286218.594	4822290.236	19.459
	1572	94.26300	100.17800	285.3630			2075	286230.896	4822292.655	19.476
	1573	93.92600	100.20200	297.5500			2076	286242.888	4822295.320	19.331
L		630			630		2077	Nueva LINEA		
	1574	93.66600	100.33000	297.1740			2078	286242.393	4822296.492	18.734
	1575	93.79300	100.33000	297.2490			2079	286242.526	4822295.909	18.734
L		630			630		2080	Nueva LINEA		
	1576	94.34400	100.26400	272.8150			2081	286218.429	4822291.181	19.143
	1577	94.49200	100.26200	272.9480			2082	286218.617	4822290.560	19.151
L		630			630		2083	Nueva LINEA		
	1578	94.63200	100.28500	266.2320			2084	286211.976	4822289.397	19.082
	1579	95.51400	100.34500	243.0760			2085	286189.161	4822284.090	18.956
	1580	96.57400	100.40000	220.2100			2086	286166.579	4822278.822	18.889
	1581	98.07000	100.45400	195.1750			2087	286141.772	4822272.894	18.880
L		630			630		2088	Nueva LINEA		
	1582	97.98700	100.43200	191.7110			2089	286138.302	4822273.039	18.971
	1583	98.18700	100.43200	191.7760			2090	286138.385	4822272.439	18.970
L		630			630		2091	Nueva LINEA		
	1584	98.28900	100.34000	184.4280			2092	286131.050	4822271.935	19.286
	1585	98.50900	100.34800	184.5500			2093	286131.188	4822271.301	19.262
L		630			630		2094	Nueva LINEA		
	1586	100.24400	100.34800	159.0800			2095	286105.768	4822266.370	19.401
	1587	100.48200	100.35500	159.2070			2096	286105.891	4822265.775	19.383
L		630			630		2097	Nueva LINEA		
	1588	102.61200	100.34000	136.4540			2098	286083.029	4822261.384	19.541
	1589	102.90800	100.34800	136.5530			2099	286083.100	4822260.746	19.524
L		630			630		2100	Nueva LINEA		
	1590	105.27900	100.35400	117.9730			2101	286064.257	4822257.211	19.614
	1591	105.60100	100.35900	118.1190			2102	286064.351	4822256.603	19.604
L		630			630		2103	Nueva LINEA		
	1592	111.92300	100.33900	88.6350			2104	286033.775	4822250.480	19.798
	1593	112.32200	100.35200	88.8810			2105	286033.911	4822249.887	19.778
L		630			630		2106	Nueva LINEA		
	1594	119.04000	100.28700	70.6220			2107	286014.177	4822246.176	19.951
	1595	119.53800	100.31200	70.9390			2108	286014.314	4822245.553	19.922
L		630			630		2109	Nueva LINEA		
	1596	138.11500	100.24900	48.8860			2110	285987.073	4822239.434	20.078
	1597	137.53600	100.25900	48.4720			2111	285986.978	4822240.033	20.072
L		630			630		2112	Nueva LINEA		
	1598	173.26600	100.16100	35.7480			2113	285961.265	4822234.345	20.179
	1599	173.42900	100.16500	36.3560			2114	285961.428	4822233.752	20.175
L		630			630		2115	Nueva LINEA		

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	1600	214.49200	100.06400	39.4110			2116	285937.796	4822228.593	
L	1601	214.19800	100.05300	39.9960			2117	285937.844	4822227.982	20.229
		630				630	2118	Nueva LINEA		20.236
	1602	234.53500	100.03300	50.1460			2119	285920.802	4822224.042	20.243
	1603	234.00700	100.04900	50.5980			2120	285920.929	4822223.439	20.230
	1604	234.91400	100.05100	51.3960			2121	285919.895	4822223.130	20.228
	1605	235.48000	100.04000	50.9790			2122	285919.727	4822223.724	20.237
L		630				630	2123	Nueva LINEA		
	1606	252.71600	99.97400	77.2200			2124	285889.808	4822214.765	20.301
L	1607	252.25500	99.97600	77.5450			2125	285889.950	4822214.133	20.299
		630				630	2126	Nueva LINEA		
	1608	259.70700	99.86700	104.9320			2127	285862.083	4822204.924	20.489
L	1609	259.36100	99.87100	105.0800			2128	285862.302	4822204.376	20.483
		630				630	2129	Nueva LINEA		
	1610	262.27000	99.84600	124.3270			2130	285843.566	4822197.547	20.571
L	1611	261.96800	99.84700	124.4260			2131	285843.814	4822197.003	20.569
		630				630	2132	Nueva LINEA		
	1612	263.94600	99.80600	143.8180			2133	285825.325	4822189.829	20.709
L	1613	263.66300	99.80000	143.9400			2134	285825.567	4822189.224	20.723
		40				40	2135	Nueva LINEA		
M		0.0000					2136	Altura Mira		
	1614	186.40400	97.79900	38.7590			2137	285954.900	4822229.131	23.759
	1615	169.63900	97.93800	39.3260			2138	285964.733	4822232.067	23.693
	1616	155.83900	98.89600	42.6570			2139	285973.960	4822234.192	23.159
M		1.3000					2140	Altura Mira		
	1617	151.99000	96.71400	46.6720			2141	285978.602	4822233.014	23.527
L	1618	149.45200	97.10900	50.6390			2142	285982.767	4822231.524	23.418
		40				40	2143	Nueva LINEA		
M		0.0000					2144	Altura Mira		
	1619	148.89600	100.87800	44.7590			2145	285978.881	4822235.893	21.802
L	1620	159.16700	99.33100	41.0330			2146	285971.240	4822234.110	22.850
		23				23	2147	Nueva LINEA		
M		1.3000					2148	Altura Mira		
	1621	126.83400	100.47500	61.1790			2149	286002.513	4822241.955	20.663
	1622	126.28700	100.38500	63.2180			2150	286004.594	4822241.617	20.737
	1623	125.12100	100.59400	65.5660			2151	286007.215	4822241.779	20.508
	1624	118.33700	100.38900	77.5800			2152	286021.073	4822244.946	20.645
	1625	112.72000	100.35500	92.7940			2153	286037.637	4822248.566	20.602
	1626	109.44800	100.21400	106.2400			2154	286051.763	4822251.273	20.763
	1627	105.12200	100.36700	126.7270			2155	286073.006	4822256.797	20.390
	1628	103.08000	100.37100	141.5290			2156	286088.052	4822260.136	20.296
	1629	102.01600	100.40300	148.8690			2157	286095.483	4822262.267	20.178
L	1630	101.73000	100.37100	160.1150			2158	286106.744	4822262.629	20.188
		40				40	2159	Nueva LINEA		
	1631	103.23200	99.58300	150.4780			2160	286096.972	4822259.344	22.106
	1632	105.59400	99.24100	134.2960			2161	286080.459	4822255.196	22.721
	1633	109.40700	99.07500	112.3130			2162	286057.768	4822250.448	22.752
	1634	113.14700	98.86500	98.0240			2163	286042.617	4822246.886	22.867
	1635	121.75200	98.58300	75.9680			2164	286018.249	4822241.536	22.810
	1636	124.44200	98.48600	71.1840			2165	286012.674	4822240.328	22.812
	1637	127.20100	98.59800	67.4520			2166	286008.064	4822239.040	22.605
	1638	128.88700	98.37800	64.0110			2167	286004.205	4822238.935	22.750
	1639	137.48100	97.81700	55.2440			2168	285992.606	4822236.325	23.013
L		4				4	2169	Nueva LINEA		
	1640	101.43800	100.41600	166.9600			2170	286113.605	4822263.209	20.030
L	1641	100.63300	100.37700	181.9080			2171	286128.587	4822265.170	20.044
		750				750	2172	Nueva LINEA		
L	1642	96.23900	100.40700	217.8090			2173	286164.116	4822279.837	19.730
		750				750	2174	Nueva LINEA		
L	1643	94.67200	100.37500	257.4810			2175	286203.267	4822288.499	19.607
		60				60	2176	Nueva LINEA		
	1644	140.04600	96.01500	61.2750			2177	285996.140	4822231.003	24.952
	1645	140.77900	96.15900	60.4240			2178	285995.048	4822230.939	24.763
	1646	142.09300	96.15900	60.1320			2179	285994.064	4822230.128	24.745
M		0.0000					2180	Altura Mira		
	1647	144.36100	97.49100	58.4970			2181	285991.516	4822229.472	24.724
L	1648	145.77900	97.47600	58.3120			2182	285990.530	4822228.605	24.731
		0.1000					2183	Altura Mira		
M	1649	146.44300	97.35300	58.7710			2184	285990.465	4822227.847	24.762
	1650	146.53700	97.32600	59.4220			2185	285990.891	4822227.349	24.814
M		0.0000					2186	Altura Mira		
	1651	148.10400	97.40300	59.2120			2187	285989.752	4822226.415	24.834
	1652	148.90100	97.37300	59.3850			2188	285989.364	4822225.760	24.869
	1653	149.26300	97.24400	59.6850			2189	285989.339	4822225.312	25.002
	1654	149.40100	96.92800	59.9900			2190	285989.457	4822225.016	25.313
L	1655	149.65600	95.99600	62.4290			2191	285990.984	4822223.167	26.343
		60				60	2192	Nueva LINEA		
	1656	149.29400	95.51700	59.2470			2193	285988.941	4822225.661	26.588
	1657	146.87700	95.91300	59.4080			2194	285990.617	4822227.170	26.231
	1658	146.53300	96.21400	59.4370			2195	285990.866	4822227.377	25.952
	1659	144.63200	96.33300	59.6330			2196	285992.103	4822228.583	25.852
L		60				60	2197	Nueva LINEA		
	1660	141.83600	95.88800	60.2020			2198	285994.255	4822230.286	26.305
L	1661	139.86800	95.61900	60.5600			2199	285995.642	4822231.574	26.583
		60				60	2200	Nueva LINEA		

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#L	Ba/PT	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		0.0400								
	1662	146.06100	96.51500	58.4450			2201	Altura Mira		
	1663	144.46000	96.51600	58.6160			2202	285990.428	4822228.351	25.577
L		99					2203	285991.516	4822229.353	25.585
M		1.3000			99		2204	Nueva LINEA		
	1664	139.37400	96.25800	58.9870			2205	Altura Mira		
	1665	138.93500	97.59600	56.9810			2206	285994.667	4822232.843	24.584
	1666	138.30200	97.61900	54.8870			2207	285993.310	4822234.292	23.270
L		99					2208	285991.908	4822235.941	23.172
	1667	148.37100	97.03600	49.5920			2209	Nueva LINEA		
	1668	148.63800	97.08800	52.9200			2210	285982.604	4822232.864	23.427
	1669	149.13000	95.97300	55.7120			2211	285984.862	4822230.413	23.539
L		60					2212	285986.539	4822228.211	24.641
	1670	135.43600	100.91400	26.7370			2213	Nueva LINEA		
	1671	133.75000	100.88200	26.7690			2214	285969.390	4822252.862	20.735
	1672	130.55100	100.91600	28.3350			2215	285969.784	4822253.451	20.748
L		99					2216	285971.823	4822253.905	20.711
	1673	50.17500	102.77700	13.6630			2217	Nueva LINEA		
	1674	399.82500	102.97600	6.7920			2218	285956.371	4822276.612	20.523
L		99					2219	285946.674	4822273.772	20.802
	1675	12.38900	85.70000	17.3980			2220	Nueva LINEA		
	1676	379.79900	80.08900	12.1720			2221	285949.973	4822283.628	24.994
L		60					2222	285943.079	4822277.990	24.864
M		0.0000					2223	Nueva LINEA		
	1677	371.66200	81.75200	16.2840			2224	Altura Mira		
M		1.3000					2225	285939.967	4822281.085	27.023
	1678	375.25600	80.07300	14.3070			2226	Altura Mira		
	1679	377.67800	81.67500	13.8000			2227	285941.534	4822279.584	25.525
	1680	382.49900	81.92800	13.8370			2228	285942.147	4822279.414	25.037
	1681	388.43200	82.82900	14.6830			2229	285943.087	4822279.772	24.994
	1682	389.92600	82.54100	14.1380			2230	285944.135	4822280.906	25.031
	1683	391.65100	82.38700	13.9400			2231	285944.548	4822280.427	24.948
	1684	393.51600	82.59400	14.0250			2232	285944.939	4822280.282	24.927
	1685	398.37000	83.51900	14.8830			2233	285945.320	4822280.421	24.906
	1686	2.40400	84.23900	15.8330			2234	285946.324	4822281.369	24.929
	1687	2.98600	84.46100	16.2280			2235	285947.272	4822282.326	24.999
M		1.5000					2236	285947.431	4822282.717	25.041
	1688	2.39600	83.87600	16.6140			2237	Altura Mira		
L		60					2238	285947.298	4822283.059	25.082
M		1.3000					2239	Nueva LINEA		
	1689	4.29200	85.57100	18.1360			2240	Altura Mira		
	1690	5.15400	85.43500	18.9130			2241	285947.883	4822284.619	25.194
L		60					2242	285948.182	4822285.347	25.408
M		0.0000					2243	Nueva LINEA		
	1691	6.54100	82.97400	19.0910			2244	Altura Mira		
L		60					2245	285948.581	4822285.302	27.464
	1692	2.18400	84.40400	15.8830			2246	Nueva LINEA		
	1693	393.11700	82.33800	14.0520			2247	285947.221	4822282.387	26.271
	1694	388.60600	83.15500	14.6680			2248	285945.234	4822280.423	26.268
L		60					2249	285944.172	4822280.918	26.255
	1695	377.51300	77.37900	13.6270			2250	Nueva LINEA		
	1696	386.65300	80.20500	14.5780			2251	285942.273	4822278.974	27.160
	1697	387.73000	80.91400	14.6940			2252	285943.804	4822280.562	26.879
	1698	388.44100	81.95300	14.7330			2253	285944.004	4822280.766	26.759
L		205					2254	285944.138	4822280.900	26.540
M		1.3000					2255	Nueva LINEA		
	1699	86.41800	100.80000	54.6700			2256	Altura Mira		
L		23					2257	286000.119	4822278.559	20.432
M		2.1500					2258	Nueva LINEA		
	1700	86.26400	100.45000	39.1520			2259	Altura Mira		
	1701	88.31700	100.22300	27.2460			2260	285984.935	4822275.367	19.992
	1702	97.01400	98.82400	12.2110			2261	285973.480	4822271.958	20.174
	1703	249.21200	93.57500	4.4570			2262	285958.887	4822267.559	20.495
L		40					2263	285943.595	4822263.813	20.718
	1704	234.35700	88.60400	5.1120			2264	Nueva LINEA		
	1705	105.63700	95.60300	11.8900			2265	285944.107	4822262.672	21.179
	1706	94.72400	98.22500	26.0930			2266	285958.507	4822265.938	21.090
	1707	90.56200	99.12600	35.7190			2267	285972.685	4822269.145	20.996
L		86					2268	285982.016	4822272.261	20.759
M		1.3000					2269	Nueva LINEA		
	1708	89.99600	100.41100	52.4430			2270	Altura Mira		
M		2.1500					2271	285998.488	4822275.192	20.781
	1709	89.35500	99.64400	66.8920			2272	Altura Mira		
	1710	88.55700	99.89000	89.1570			2273	286012.650	4822278.117	20.643
	1711	88.05300	99.97500	113.1750			2274	286034.413	4822282.922	20.424
	1712	87.73900	100.04700	136.0240			2275	286057.881	4822288.096	20.314
	1713	87.49200	100.09200	162.8940			2276	286080.202	4822293.017	20.170
	1714	87.34200	100.12300	182.1860			2277	286106.453	4822298.779	20.035
M		2.5000					2278	286125.289	4822302.965	19.919
	1715	87.24300	100.05800	196.0420			2279	Altura Mira		
L		750					2280	286138.812	4822306.000	19.743
M		3.1500					2281	Nueva LINEA		
	1716	87.22100	99.86900	195.1330			2282	Altura Mira		
L		750					2283	286137.908	4822305.885	19.673
M		2.1500					2284	Nueva LINEA		
							2285	Altura Mira		

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L	1717	87.50000	100.06900	155.1200			2286	286098.832	4822297.243	20.102
L	1718	87.95000	99.95200	115.0880	750		2287	Nueva LINEA		
L	1719	88.87200	99.67800	75.1470	750		2288	286059.725	4822288.636	20.357
L		750			750		2289	Nueva LINEA		
M		1.3000					2290	286020.693	4822280.052	20.649
L	1720	91.87100	100.34700	35.2300			2291	Nueva LINEA		
L	1721	247.04100	98.53900	6.3600	750		2292	Altura Mira		
B	30518	286264.350	4822303.622	19.382			2293	285981.635	4822271.472	20.927
L		6			6		2294	Nueva LINEA		
H		1.6310	1.3000				2295	285942.410	4822262.287	21.265
O	30523	292.63700	98.22900	303.7290			2296	BASE (coord de FICHERO DE BASES)		
L		3			3		2297	Nueva LINEA		
L	1722	273.70600	98.67200	35.4610			2298	Altura Aparato y Mira		
L	1723	271.37600	98.24300	29.4340			2299	285962.766	4822268.601	28.169
L	1724	263.78000	97.32900	23.5620			2300	Nueva LINEA		
L	1725	237.10800	95.04400	16.8260			2301	286231.877	4822289.393	20.453
L	1726	209.06800	93.64300	15.1040			2302	286237.851	4822290.835	20.525
L	1727	189.82900	93.38400	15.5160			2303	286244.517	4822290.940	20.701
L	1728	166.32600	93.65500	17.0830			2304	286255.116	4822289.617	21.022
L	1729	148.07000	94.26300	20.5690			2305	286262.216	4822288.746	21.219
M		2.1500					2306	286266.804	4822288.386	21.323
L	1730	134.07400	92.94600	25.4380			2307	286272.927	4822288.946	21.413
L	1731	120.89400	94.42800	32.9700			2308	286279.267	4822289.582	21.564
L	1732	115.27000	95.57900	43.3070			2309	Altura Mira		
M		3.1500					2310	286286.096	4822290.726	21.676
L	1733	113.90600	94.84400	49.5250			2311	286295.440	4822293.033	21.745
L	1734	114.92100	95.21700	53.9750			2312	286306.315	4822293.356	21.868
M		4.1900					2313	Altura Mira		
L	1735	119.75300	94.22100	59.2030			2314	286312.539	4822292.923	21.870
L	1736	126.63700	94.66900	70.1440			2315	286316.700	4822291.120	21.915
L	1737	129.17900	94.76700	77.3530			2316	Altura Mira		
L		3			3		2317	286320.493	4822285.617	22.190
L	1738	130.70100	94.68200	75.8790			2318	286328.217	4822275.218	22.690
L	1739	129.21600	94.55300	71.0440			2319	286333.483	4822269.508	23.175
L	1740	123.58500	94.19200	59.8230			2320	Nueva LINEA		
L	1741	120.45900	93.89200	54.1150			2321	286331.339	4822268.551	23.155
L	1742	118.78900	93.50400	49.9720			2322	286327.808	4822272.263	22.895
L	1743	118.52500	93.00400	45.9190			2323	286319.881	4822282.050	22.273
L	1744	120.73500	92.35300	41.1650			2324	286315.457	4822286.605	22.007
M		2.1500					2325	286311.912	4822289.160	21.913
L	1745	128.19800	94.55100	33.1660			2326	286308.072	4822290.525	21.859
L	1746	143.11600	92.90000	25.3570			2327	286303.069	4822290.543	21.756
L	1747	168.14400	91.38000	20.3160			2328	Altura Mira		
L	1748	185.14900	90.96600	19.4370			2329	286294.205	4822289.458	21.698
L	1749	202.76400	91.12800	18.4540			2330	286283.987	4822287.829	21.685
L	1750	220.03700	91.43500	17.9880			2331	286274.007	4822285.960	21.605
L	1751	248.04200	93.85400	21.8800			2332	286268.797	4822284.901	21.612
L	1752	262.59300	95.53800	27.7000			2333	286263.556	4822285.364	21.426
L	1753	267.88400	96.50700	32.7800			2334	286258.831	4822286.673	21.276
M		42			42		2335	286249.431	4822287.757	20.972
M	1754	266.20800	97.40200	35.0210			2336	286241.352	4822288.305	20.803
M		2.1500					2337	286235.696	4822287.803	20.661
L	1755	255.67800	95.38700	26.9710			2338	Nueva LINEA		
L	1756	225.63500	92.85000	19.5930			2339	Altura Mira		
L	1757	206.47500	90.95900	19.1970			2340	286234.172	4822285.910	20.592
L	1758	195.55900	91.97900	23.4420			2341	Altura Mira		
L	1759	187.85200	91.95400	28.6470			2342	286243.709	4822286.372	20.816
M		4.1900					2343	286256.719	4822285.710	21.059
L	1760	177.47700	90.63500	43.1530			2344	286262.420	4822284.717	21.580
L	1761	174.29800	91.42800	50.4960			2345	286265.970	4822280.422	21.809
M		1.3000			4		2346	286269.739	4822275.719	22.474
L	1762	165.65100	95.07400	53.7870			2347	Altura Mira		
L	1763	169.95700	93.94000	31.7000			2348	286279.137	4822263.578	23.148
L		4			4		2349	286284.005	4822257.605	23.602
L	1764	148.42500	95.53300	54.6910			2350	Nueva LINEA		
M		2.1500					2351	Altura Mira		
L	1765	140.49100	93.73500	40.2630			2352	286291.898	4822257.613	23.871
L		4			4		2353	286278.694	4822275.514	22.726
M		4.1900					2354	Nueva LINEA		
L	1766	132.43300	93.08900	62.2460			2355	286303.868	4822266.009	23.548
M		2.1500					2356	Altura Mira		
L	1767	125.22700	94.68400	49.6390			2357	286296.582	4822279.820	22.819
M		4.1900					2358	Nueva LINEA		
L	1768	128.02800	93.61300	65.0830			2359	Altura Mira		
L	1769	121.59300	92.81000	52.5960			2360	286318.370	4822273.440	23.567
M		2.1500					2361	Altura Mira		
L	1770	121.10000	94.76300	46.1090			2362	286309.982	4822284.527	23.003
M		1.3000					2363	Nueva LINEA		
							2364	Altura Mira		
							2365	286322.929	4822276.022	23.342
							2366	286313.632	4822286.231	22.751
							2367	Altura Mira		
							2368	286307.801	4822288.667	22.652
							2369	Altura Mira		

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

06 ABR 2007

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	1771	134.01500	94.78700	34.2680			2370	286293.742	4822286.228	22.516
	1772	145.02900	94.56100	28.8010			2371	286286.161	4822284.974	22.171
M		2.1500					2372	Altura Mira		
L	1773	182.66000	90.86700	22.0350			2373	286270.216	4822282.617	22.013
		30					2374	Nueva LINEA		
	1774	185.71500	91.93100	22.7200			2375	286269.364	4822281.649	21.735
	1775	184.22800	91.61900	21.5480			2376	286269.587	4822282.912	21.692
	1776	183.23600	91.60100	21.3390			2377	286269.855	4822283.197	21.670
	1777	155.06000	92.72300	24.8880			2378	286280.389	4822284.805	21.702
	1778	133.02900	94.80200	33.7920			2379	286293.596	4822286.920	21.619
	1779	121.89100	95.69900	43.7930			2380	286305.484	4822288.890	21.820
M		4.1900					2381	Altura Mira		
	1780	120.10800	93.08900	46.6440			2382	286308.425	4822289.216	21.877
	1781	120.08800	93.29400	49.6880			2383	286311.322	4822288.285	22.048
	1782	120.69700	93.63300	52.6890			2384	286314.028	4822286.874	22.084
	1783	124.29700	94.09500	59.2610			2385	286319.109	4822281.642	22.312
	1784	130.32500	94.45700	72.0090			2386	286328.098	4822270.725	23.085
L		741					2387	Nueva LINEA		
M		1.3000				741	2388	Altura Mira		
L	1785	206.54500	94.00500	19.8700			2389	286262.319	4822283.945	21.581
D		6				6	2390	Nueva LINEA		
L	30519	79.22000	100.39400	269.8110			2391	286519.914	4822390.121	18.048
		174				174	2392	Nueva LINEA		
	1786	78.79000	100.40700	256.0730			2393	286506.341	4822387.353	18.080
	1787	78.09900	100.40800	229.2020			2394	286480.121	4822380.913	18.248
	1788	77.31800	100.42000	204.2350			2395	286455.758	4822374.847	18.368
	1789	76.04600	100.43300	178.5180			2396	286430.378	4822369.209	18.501
	1790	74.44600	100.45200	153.1650			2397	286405.340	4822363.456	18.627
	1791	72.05600	100.47400	127.5210			2398	286379.781	4822357.809	18.765
	1792	68.09000	100.51800	100.4520			2399	286352.444	4822351.884	18.896
	1793	60.41500	100.58100	71.4160			2400	286322.399	4822345.217	19.062
	1794	45.95400	100.70700	47.7180			2401	286295.880	4822339.435	19.183
	1795	1.22800	100.80100	28.9800			2402	286264.910	4822332.594	19.348
	1796	340.43500	100.35100	37.4710			2403	286234.188	4822325.855	19.506
	1797	316.49100	100.05300	61.5840			2404	286204.822	4822319.400	19.662
	1798	305.71100	99.92600	93.1840			2405	286171.541	4822311.975	19.822
	1799	300.62600	99.86600	125.5540			2406	286138.803	4822304.863	19.978
	1800	297.46000	99.82000	159.9580			2407	286104.520	4822297.250	20.167
	1801	295.88700	99.80200	185.8110			2408	286078.928	4822291.635	20.293
	1802	294.28900	99.78500	222.4120			2409	286042.833	4822283.708	20.467
	1803	293.42000	99.75100	248.7010			2410	286016.978	4822277.976	20.690
	1804	292.92000	99.72700	267.3320			2411	285998.671	4822273.967	20.864
	1805	292.25400	99.69300	296.6710			2412	285969.875	4822267.630	21.149
	1806	291.87300	99.68000	315.6120			2413	285951.309	4822263.458	21.306
L		10				10	2414	Nueva LINEA		
	1807	291.38700	99.68900	314.8100			2415	285952.419	4822261.177	21.257
	1808	292.12100	99.71400	279.6560			2416	285986.835	4822269.114	20.974
	1809	292.97600	99.74600	244.5490			2417	286021.289	4822276.708	20.693
	1810	294.26900	99.77700	205.8770			2418	286059.308	4822285.124	20.437
	1811	295.85500	99.78700	172.1600			2419	286092.556	4822292.430	20.291
	1812	298.17200	99.82300	139.1100			2420	286128.298	4822299.635	20.101
	1813	302.51000	99.86700	102.7100			2421	286161.721	4822307.676	19.928
	1814	310.50400	99.96200	69.9120			2422	286195.388	4822315.109	19.755
	1815	331.65000	100.20200	39.7640			2423	286229.401	4822322.588	19.587
	1816	397.80700	100.74300	26.5240			2424	286263.438	4822330.128	19.403
	1817	47.94600	100.65500	46.2100			2425	286295.954	4822337.331	19.238
	1818	62.33300	100.55600	71.3850			2426	286323.600	4822343.432	19.090
	1819	68.80700	100.48700	96.8480			2427	286349.803	4822349.193	18.973
	1820	72.87100	100.45600	125.6710			2428	286378.781	4822355.562	18.814
	1821	75.87500	100.42500	161.5890			2429	286414.474	4822363.392	18.636
	1822	78.08800	100.40700	205.8290			2430	286458.106	4822373.065	18.400
L		10				10	2431	Nueva LINEA		
	1823	77.32300	100.41800	190.9390			2432	286443.302	4822370.196	18.462
	1824	78.43000	100.40700	219.7810			2433	286471.635	4822376.659	18.311
L	1825	79.33400	100.39400	255.7990			2434	286506.788	4822385.195	18.134
		4				4	2435	Nueva LINEA		
L	1826	283.54700	100.09100	134.3410			2436	286134.469	4822269.295	19.522
		40				40	2437	Nueva LINEA		
	1827	283.14500	100.42100	125.8280			2438	286142.908	4822270.703	18.882
	1828	283.01100	100.17200	102.2050			2439	286165.762	4822276.675	19.438
	1829	281.74800	100.34200	74.4510			2440	286192.938	4822282.572	19.313
	1830	280.21600	100.23300	53.5380			2441	286213.376	4822287.254	19.517
	1831	278.35900	99.81100	42.0260			2442	286224.728	4822289.612	19.838
	1832	270.56300	99.04100	18.7530			2443	286247.568	4822295.258	19.996
	1833	160.80700	95.40000	5.3900			2444	286267.454	4822299.233	20.102
	1834	99.21000	98.01700	26.4620			2445	286290.797	4822303.949	20.537
	1835	92.61700	98.93700	55.4550			2446	286319.425	4822310.035	20.639
	1836	90.70000	98.78800	90.1760			2447	286353.550	4822316.741	21.430
	1837	89.66500	99.07300	115.7460			2448	286378.563	4822322.322	21.399
	1838	89.41800	99.03700	135.6990			2449	286398.164	4822326.065	21.767
L		4				4	2450	Nueva LINEA		
	1839	281.86000	100.19900	119.2430			2451	286149.914	4822270.109	19.341
	1840	281.42100	100.16000	99.5560			2452	286169.003	4822274.984	19.463
	1841	280.49000	100.17300	80.2600			2453	286187.829	4822279.413	19.495
	1842	278.81300	100.13400	55.1010			2454	286212.272	4822285.624	19.597

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		40			40		2455	Nueva LINEA		
	1843	284.48400	100.28900	43.3870			2456	286222.245	4822293.154	19.516
	1844	284.61800	100.29700	59.8500			2457	286206.239	4822289.305	19.434
	1845	284.58200	100.33300	66.0250			2458	286200.252	4822287.791	19.368
	1846	285.13300	100.10700	82.0300			2459	286184.546	4822284.643	19.576
	1847	285.16100	100.10300	99.8360			2460	286167.213	4822280.566	19.552
	1848	285.15400	100.05000	104.8300			2461	286162.357	4822279.402	19.631
	1849	285.40800	99.98300	125.0370			2462	286142.582	4822275.219	19.747
	1850	285.51600	99.94700	134.7930			2463	286133.029	4822273.226	19.826
L	1851	91.91500	98.95000	130.3390	4		2464	Nueva LINEA		
L					6		2465	286393.622	4822320.121	21.864
D	30527	92.06400	98.55100	85.6660	6		2466	Nueva LINEA		
L					4		2467	286349.330	4822314.266	21.663
	1852	91.86900	98.72400	106.9060			2468	Nueva LINEA		
	1853	92.85500	98.71600	87.0520			2469	286370.364	4822317.231	21.856
	1854	97.18500	98.44900	42.2610			2470	286350.837	4822313.365	21.469
	1855	107.68600	98.48100	23.7780			2471	286306.557	4822305.487	20.743
	1856	173.76700	95.24900	9.7800			2472	286287.948	4822300.758	20.280
							2473	286268.256	4822294.685	20.442
B	30515	285473.831	4821778.642	16.634	6		2474	BASE (coord de FICHERO DE BASES)		
L		1.6790	1.6000		6		2475	Nueva LINEA		
H	30061	9.68000	92.47600	76.6830	23		2476	Altura Aparato y Mira		
O					23		2477	285485.369	4821853.910	25.753
L		1.5000					2478	Nueva LINEA		
M	1857	23.38700	97.97300	91.1530			2479	Altura Mira		
		2.1500					2480	285506.557	4821863.668	19.715
M	1858	20.75200	98.67200	80.6680			2481	Altura Mira		
	1859	16.31900	99.37300	76.2330			2482	285499.662	4821855.044	17.846
L					4		2483	285493.162	4821852.379	16.914
M		1.3000					2484	Nueva LINEA		
	1860	33.16000	98.47400	94.3500			2485	Altura Mira		
	1861	28.46700	98.43800	95.7550			2486	285520.774	4821860.453	19.275
L					4		2487	285515.228	4821864.954	19.363
	1862	34.42900	98.52100	77.5550			2488	Nueva LINEA		
	1863	26.90400	99.07400	81.6420			2489	285513.751	4821845.109	18.815
L					4		2490	285507.316	4821853.091	18.201
	1864	37.53700	98.64400	63.9490			2491	Nueva LINEA		
L					4		2492	285509.385	4821831.779	18.375
	1865	26.33100	99.84500	67.4360			2493	Nueva LINEA		
	1866	37.71000	99.78100	54.9370			2494	285500.938	4821840.390	17.177
L					4		2495	285504.505	4821824.217	17.202
	1867	40.83200	100.00200	44.8240			2496	Nueva LINEA		
M		2.1500					2497	285500.651	4821814.556	17.012
	1868	18.32400	99.62400	57.9350			2498	Altura Mira		
L					4		2499	285490.280	4821834.192	16.505
	1869	5.77500	99.80700	73.0860			2500	Nueva LINEA		
L		99			99		2501	285480.456	4821851.427	16.385
M		4.1900					2502	Nueva LINEA		
	1870	14.42600	97.71200	76.0760			2503	Altura Mira		
	1871	9.94500	97.87200	75.8260			2504	285490.916	4821852.724	16.857
M		2.1500					2505	285485.626	4821853.502	16.658
	1872	4.76000	99.75100	80.3170			2506	Altura Mira		
	1873	1.02200	99.73400	88.0270			2507	285479.835	4821858.733	16.478
	1874	396.87400	99.75400	101.0190			2508	285475.249	4821866.657	16.531
	1875	394.50200	99.66700	112.1740			2509	285468.878	4821879.538	16.554
	1876	393.75400	99.63900	116.4460			2510	285464.162	4821890.397	16.751
M		0.0000					2511	285462.431	4821894.526	16.824
	1877	395.11800	99.92200	113.7910			2512	Altura Mira		
M		1.3000					2513	285465.120	4821892.099	18.453
	1878	396.69900	98.11000	110.8060			2514	Altura Mira		
	1879	399.05800	98.24200	99.6300			2515	285468.097	4821889.250	20.303
	1880	1.91900	97.98700	90.9840			2516	285472.363	4821878.223	19.765
	1881	4.51300	97.85000	85.6320			2517	285476.577	4821869.539	19.890
	1882	8.83200	97.95000	79.5730			2518	285479.898	4821864.010	19.905
M		2.6000					2519	285484.834	4821857.409	19.575
	1883	11.00100	96.65400	78.4820			2520	Altura Mira		
L		40			40		2521	285487.311	4821855.847	19.836
M		1.5500					2522	Nueva LINEA		
	1884	12.35400	97.44900	81.1490			2523	Altura Mira		
M		2.1500					2524	285489.472	4821858.203	20.014
	1885	13.77800	95.22900	84.7740			2525	Altura Mira		
L		99			99		2526	285491.989	4821861.205	22.511
M		1.3000					2527	Nueva LINEA		
	1886	78.30600	100.63500	31.5420			2528	Altura Mira		
	1887	52.52100	100.86800	32.8580			2529	285503.558	4821789.182	16.698
	1888	32.56000	100.83000	39.0500			2530	285497.966	4821800.935	16.565
M		1.9000					2531	285492.944	4821812.691	16.504
	1889	19.87700	100.31800	47.1390			2532	Altura Mira		
M		1.3000					2533	285488.313	4821823.500	16.178
	1890	8.38800	100.78900	60.1160			2534	Altura Mira		
M		2.1500					2535	285481.732	4821838.232	16.268
	1891	1.03900	100.05500	74.8440			2536	Altura Mira		
M		1.3000					2537	285475.057	4821853.476	16.099
							2538	Altura Mira		



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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	1892	398.28200	100.55300	83.8970			2539	285471.572	4821862.505	16.285
	1893	394.66600	100.49300	98.3710			2540	285465.604	4821876.665	16.252
	1894	392.74900	100.38600	109.3630			2541	285461.408	4821887.295	16.351
	1895	391.68000	100.42500	116.3240			2542	285458.679	4821893.972	16.237
L		99			99		2543	Nueva LINEA		
M	1896	389.27200	101.12500	116.5940			2544	Altura Mira		
		3.4000					2545	285454.285	4821893.567	13.654
M	1897	391.18200	100.76600	104.7090			2546	Altura Mira		
		2.6000					2547	285459.381	4821882.341	13.654
M	1898	393.41500	101.45700	91.3930			2548	Altura Mira		
		2.1500					2549	285464.402	4821869.523	13.622
M	1899	398.97900	102.41800	71.4070			2550	Altura Mira		
		3.1500					2551	285472.691	4821849.988	13.452
M	1900	9.03400	101.77200	52.5710			2552	Altura Mira		
		2.1500					2553	285481.266	4821830.664	13.700
	1901	29.29900	103.74200	36.1320			2554	Altura Mira		
	1902	69.12800	104.91500	27.6400			2555	285489.853	4821810.958	14.040
L		174			174		2556	285498.212	4821791.487	14.031
M		1.3000					2557	Nueva LINEA		
	1903	173.85600	99.22900	31.3030			2558	Altura Mira		
	1904	173.62900	100.17300	19.0400			2559	285486.325	4821749.943	17.392
	1905	172.36900	103.02000	6.2620			2560	285481.493	4821761.212	16.961
	1906	376.23000	104.41600	6.5550			2561	285476.461	4821772.967	16.716
	1907	374.85900	101.57300	21.1120			2562	285471.446	4821784.731	16.559
	1908	375.04600	100.87300	36.4440			2563	285465.712	4821798.123	16.491
	1909	375.00000	100.45300	50.9290			2564	285459.912	4821812.319	16.513
	1910	374.99600	100.03600	69.2200			2565	285454.344	4821825.694	16.651
	1911	374.88700	99.68900	86.5660			2566	285447.341	4821842.593	16.974
	1912	374.84700	99.36500	105.1380			2567	285440.567	4821858.560	17.436
	1913	374.86000	99.14200	123.4420			2568	285433.371	4821875.677	18.062
	1914	374.83300	98.94700	144.3960			2569	285426.352	4821892.575	18.678
	1915	374.80100	98.80400	163.9630			2570	285418.238	4821911.886	19.403
	1916	374.80400	98.68500	187.1590			2571	285410.632	4821929.904	20.095
	1917	374.78900	98.60700	205.6680			2572	285401.701	4821951.300	20.881
L		10			10		2573	285394.526	4821968.351	21.516
	1918	374.05800	98.59400	205.0810			2574	Nueva LINEA		
	1919	373.98900	98.67900	185.0220			2575	285392.585	4821966.888	21.545
	1920	373.86000	98.84700	154.8800			2576	285400.346	4821948.401	20.854
	1921	373.72800	99.03100	132.0360			2577	285412.026	4821920.628	19.820
	1922	373.47600	99.32800	105.6700			2578	285420.889	4821899.582	19.024
	1923	373.05900	99.81300	78.0910			2579	285431.075	4821875.269	18.129
	1924	372.20700	100.39900	50.4380			2580	285441.766	4821849.845	17.243
	1925	369.85900	101.21800	25.7510			2581	285452.507	4821824.349	16.697
	1926	362.86100	102.67200	10.3060			2582	285462.093	4821801.557	16.520
	1927	195.39700	102.84800	5.9340			2583	285468.159	4821787.236	16.581
	1928	180.47600	99.85400	21.1180			2584	285474.259	4821772.729	16.748
	1929	178.05700	98.97100	36.2270			2585	285480.205	4821758.509	17.061
L		6			6		2586	285486.068	4821744.550	17.599
D	30528	374.32900	100.24900	59.0930			2587	Nueva LINEA		
L		6			6		2588	285450.646	4821832.996	16.782
D	30529	374.50700	98.78600	166.3230			2589	Nueva LINEA		
L		10			10		2590	285409.014	4821931.782	20.186
	1930	215.49600	99.55100	38.6570			2591	Nueva LINEA		
	1931	241.80200	100.37900	26.6220			2592	285464.512	4821741.126	17.286
	1932	283.07600	101.08200	23.3600			2593	285457.579	4821757.557	16.855
	1933	318.12400	101.08300	29.8750			2594	285451.295	4821772.507	16.616
	1934	339.02100	100.68300	43.6220			2595	285445.163	4821787.033	16.505
	1935	345.67600	100.47300	52.6850			2596	285438.153	4821803.737	16.545
	1936	353.77700	100.03300	71.8230			2597	285434.138	4821813.283	16.622
	1937	357.94100	99.68300	89.1050			2598	285426.148	4821832.353	16.976
	1938	360.62600	99.38300	105.8160			2599	285419.157	4821849.000	17.457
	1939	362.81400	99.13800	125.1240			2600	285412.486	4821864.855	18.039
	1940	365.13600	98.86300	155.3530			2601	285404.842	4821883.014	18.708
L		174			174		2602	285392.963	4821911.258	19.789
	1941	364.25200	98.88000	156.0560			2603	Nueva LINEA		
	1942	361.68300	99.16700	125.7620			2604	285390.755	4821910.718	19.760
	1943	358.68000	99.48700	102.2000			2605	285402.637	4821882.299	18.660
	1944	356.01500	99.75000	88.0500			2606	285412.065	4821860.061	17.837
	1945	352.73200	100.02900	75.6610			2607	285417.726	4821846.501	17.359
	1946	343.76400	100.51400	54.8530			2608	285422.678	4821834.391	16.979
	1947	332.67000	100.85900	41.7710			2609	285431.440	4821813.451	16.570
	1948	306.48500	101.18500	29.1440			2610	285437.445	4821799.150	16.450
	1949	261.93000	100.88700	26.0510			2611	285444.843	4821781.607	16.471
	1950	231.45400	100.08400	32.7960			2612	285452.302	4821763.978	16.650
	1951	217.59500	99.61000	40.9750			2613	285458.277	4821749.769	16.970
L		32			32		2614	285462.648	4821739.223	17.264
	1952	219.69200	99.74700	40.9610			2615	Nueva LINEA		
	1953	243.90300	100.60300	30.0950			2616	285461.360	4821739.626	17.176
	1954	274.99400	101.24400	26.6380			2617	285454.683	4821755.426	16.728
	1955	298.57900	101.22300	28.6950			2618	285449.226	4821768.449	16.493
	1956	303.39000	101.24300	28.8150			2619	285445.148	4821778.003	16.462
L		630			630		2620	285445.062	4821780.177	16.450
	1957	354.22600	99.92700	89.6780			2621	Nueva LINEA		
	1958	353.83200	99.93300	86.5430			2622	285414.769	4821846.124	17.116
							2623	285416.432	4821843.411	17.105



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LINEA	X	Y	Z
	1959	352.16500	100.17500	75.7510			2624	285422.123	4821833.999	16.805
	1960	348.79900	100.39600	66.2580			2625	285426.108	4821824.603	16.601
	1961	342.33300	100.72600	53.8800			2626	285431.435	4821811.888	16.399
	1962	335.42500	100.96500	45.3080			2627	285435.364	4821802.572	16.326
	1963	320.87700	101.29800	35.0440			2628	285440.662	4821789.929	16.299
	1964	317.84400	101.31900	33.6720			2629	285441.481	4821787.957	16.315
	1965	316.67000	101.35500	33.1880			2630	285441.782	4821787.233	16.307
	1966	306.18900	101.47200	29.8020			2631	285444.178	4821781.536	16.324
	1967	302.34200	101.52200	29.2720			2632	285444.587	4821779.720	16.313
	1968	298.36500	101.54000	29.2340			2633	285444.615	4821777.893	16.306
	1969	292.87500	101.55300	28.3970			2634	285445.620	4821775.473	16.320
L		60			60		2635	Nueva LINEA		
	1970	291.87000	100.86800	30.8860			2636	285443.199	4821774.710	16.592
	1971	293.34500	99.77400	32.8140			2637	285441.196	4821775.220	17.130
	1972	295.21700	98.90500	34.3490			2638	285439.584	4821776.066	17.604
	1973	304.38400	90.88100	42.1270			2639	285432.235	4821781.513	23.027
	1974	304.92200	90.95100	42.5520			2640	285431.834	4821781.898	23.041
L		100			100		2641	Nueva LINEA		
M		2.1500					2642	Altura Mira		
L	1975	305.22400	89.86800	43.5120			2643	285431.014	4821782.166	23.059
L		60			60		2644	Nueva LINEA		
M		0.0000					2645	Altura Mira		
L	1976	306.31500	90.96700	42.9110			2646	285431.560	4821782.851	24.381
L	1977	304.34200	91.21600	44.0210			2647	285430.330	4821781.616	24.368
L		60			60		2648	Nueva LINEA		
M		1.3000					2649	Altura Mira		
L	1978	304.08100	91.05100	43.0600			2650	285431.284	4821781.376	23.046
L	1979	303.32700	90.94000	42.5480			2651	285431.771	4821780.844	23.048
L	1980	294.21300	98.87600	34.8530			2652	285439.127	4821775.481	17.628
L	1981	291.97000	99.81700	33.2680			2653	285440.827	4821774.459	17.109
L	1982	290.10200	100.74300	31.2480			2654	285442.962	4821773.805	16.648
L	1983	290.57700	101.61200	28.0820			2655	285446.065	4821774.503	16.302
L	1984	262.05300	101.34200	27.7680			2656	285450.856	4821763.058	16.428
L	1985	237.82500	100.65100	32.4940			2657	285455.640	4821751.719	16.681
L	1986	218.95600	99.91600	42.4270			2658	285461.382	4821738.083	17.069
L		750			750		2659	Nueva LINEA		
L	1987	225.57900	99.81400	36.5260			2660	285459.545	4821745.026	17.120
L		750			750		2661	Nueva LINEA		
L	1988	297.00400	101.21700	27.9200			2662	285445.947	4821777.330	16.479
L		4			4		2663	Nueva LINEA		
L	1989	279.03800	100.43000	29.8220			2664	285445.611	4821769.001	16.812
L	1990	229.26500	99.57100	38.7920			2665	285456.619	4821743.879	17.275
L		4			4		2666	Nueva LINEA		
L	1991	267.49700	98.55500	34.7410			2667	285443.527	4821761.671	17.802
L	1992	233.00200	97.90600	43.9870			2668	285452.046	4821740.456	18.460
L		4			4		2669	Nueva LINEA		
L	1993	266.10400	96.66800	48.6090			2670	285432.007	4821754.003	19.556
L	1994	236.67100	97.08900	54.3090			2671	285444.278	4821733.146	19.496
L		4			4		2672	Nueva LINEA		
L	1995	265.66700	95.41400	65.8320			2673	285417.488	4821744.926	21.752
L	1996	238.37800	96.52800	71.4070			2674	285433.401	4821719.912	20.906
L		4			4		2675	Nueva LINEA		
L	1997	261.81700	95.32500	80.0910			2676	285407.895	4821733.560	22.890
L	1998	239.03400	96.43700	86.3940			2677	285424.190	4821708.099	21.846
L		4			4		2678	Nueva LINEA		
M		2.1500					2679	Altura Mira		
L	1999	258.36100	95.14600	97.4080			2680	285396.748	4821719.554	23.583
L	3500	239.65600	96.10000	101.1160			2681	285414.946	4821696.675	22.354
L		4			4		2682	Nueva LINEA		
M	3501	257.61200	95.63300	119.7030			2683	285379.914	4821704.879	24.369
M	3502	248.18700	96.17300	124.3320			2684	285388.604	4821688.427	23.634
M		2.4000					2685	Altura Mira		
L	3503	239.62700	96.47400	128.3710			2686	285399.095	4821674.512	23.020
L		4			4		2687	Nueva LINEA		
M		3.1500					2688	Altura Mira		
L	3504	248.38400	95.91100	139.4220			2689	285377.972	4821677.799	24.113
L	3505	240.10700	96.27400	145.9230			2690	285388.002	4821660.939	23.700
L		23			23		2691	Nueva LINEA		
L	3506	240.80700	96.40400	157.0350			2692	285380.068	4821652.985	24.030
L	3507	246.24200	96.17400	153.7790			2693	285371.876	4821663.892	24.401
L	3508	250.49800	96.00800	149.3020			2694	285367.640	4821674.111	24.520
L	3509	254.89200	95.75500	143.3300			2695	285365.237	4821685.585	24.715
L	3510	259.36200	95.48100	135.0450			2696	285365.647	4821698.383	24.742
L	3511	263.65000	95.00200	123.8550			2697	285369.941	4821711.915	24.878
M		2.1500					2698	Altura Mira		
L	3512	269.11000	94.65200	104.0720			2699	285382.094	4821730.279	24.896
L	3513	272.70800	94.20500	88.7390			2700	285393.455	4821741.911	24.230
L	3514	275.90100	94.28500	71.7710			2701	285407.408	4821752.228	22.598
L	3515	278.32400	95.51400	56.2710			2702	285420.921	4821759.900	20.125
L	3516	284.63900	96.81300	40.8980			2703	285434.167	4821768.884	18.210
L	3517	291.10300	97.10300	34.4790			2704	285439.723	4821773.846	17.732
L		23			23		2705	Nueva LINEA		
L	3518	297.98900	98.44400	30.3470			2706	285443.508	4821777.685	16.905
L		40			40		2707	Nueva LINEA		
M		1.3000					2708	Altura Mira		



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	3519	323.05300	92.71200	41.1860			2709	285435.569	4821793.139	21.718
	3520	317.60600	90.47900	42.2720			2710	285433.620	4821790.057	23.312
M		0.1000					2711	Altura Mira		
	3521	311.99300	88.66900	44.7750			2712	285430.544	4821786.897	26.140
L		4			4		2713	Nueva LINEA		
M		1.3000					2714	Altura Mira		
	3522	308.60700	92.05100	37.1540			2715	285437.303	4821783.613	21.640
L		40			40		2716	Nueva LINEA		
	3523	310.18500	86.85600	45.4440			2717	285429.921	4821785.730	26.329
	3524	303.56500	87.74000	48.9610			2718	285425.851	4821781.334	26.384
	3525	289.53500	90.30800	61.2820			2719	285414.074	4821768.733	26.307
	3526	278.64100	92.77700	80.6020			2720	285398.211	4821752.279	26.139
	3527	274.23500	93.71600	92.5550			2721	285389.166	4821742.380	26.135
	3528	270.95800	94.48300	104.6500			2722	285380.233	4821732.719	26.071
	3529	267.15200	95.10900	116.5310			2723	285372.767	4821721.323	25.958
M		2.1500					2724	Altura Mira		
	3530	263.22300	95.20000	129.2370			2725	285365.870	4821708.273	25.899
	3531	258.50400	95.57000	139.8200			2726	285362.941	4821694.034	25.886
M		2.2000					2727	Altura Mira		
	3532	253.69000	95.82300	147.8490			2728	285363.638	4821680.547	25.808
M		2.1500					2729	Altura Mira		
	3533	250.09900	96.08900	152.2230			2730	285366.224	4821671.381	25.510
	3534	245.71400	96.33100	156.3960			2731	285371.097	4821661.066	25.173
	3535	242.92300	96.49500	158.4050			2732	285375.082	4821655.092	24.881
	3536	240.22800	96.64100	159.1860			2733	285379.927	4821650.378	24.560
L		4			4		2734	Nueva LINEA		
	3537	270.74200	94.18600	99.9050			2735	285384.663	4821734.516	25.275
	3538	277.04800	92.84000	79.1320			2736	285400.253	4821750.907	25.045
	3539	296.43000	88.11000	50.2090			2737	285424.573	4821775.880	25.486
L		99			99		2738	Nueva LINEA		
M		1.3000					2739	Altura Mira		
	3540	304.28200	100.98600	29.7120			2740	285444.190	4821780.640	16.553
M		0.0000					2741	Altura Mira		
	3541	305.41700	100.36600	30.5130			2742	285443.429	4821781.237	18.138
	3542	313.98500	98.25500	33.3410			2743	285441.304	4821785.906	19.227
M		1.3000					2744	Altura Mira		
	3543	325.81400	93.62500	40.1360			2745	285437.135	4821794.397	21.026
	3544	334.47800	94.42100	47.1330			2746	285433.599	4821802.847	21.138
M		0.0000					2747	Altura Mira		
	3545	343.07700	96.89900	58.4390			2748	285428.324	4821815.195	21.159
	3546	346.22100	98.58500	63.9160			2749	285426.048	4821821.069	19.734
M		2.1500					2750	Altura Mira		
	3547	350.01500	98.73900	71.9310			2751	285422.993	4821829.510	17.588
	3548	350.33200	99.38100	71.8420			2752	285423.302	4821829.706	16.862
	3549	344.91500	99.47800	59.2900			2753	285428.699	4821817.089	16.649
	3550	331.21000	99.57700	42.3110			2754	285436.506	4821798.565	16.444
L		32			32		2755	Nueva LINEA		
M		1.3000					2756	Altura Mira		
	3551	377.04200	99.99500	78.6460			2757	285446.084	4821852.231	17.020
	3552	377.59800	100.25500	65.3670			2758	285451.304	4821840.004	16.751
	3553	378.59800	100.47800	51.2450			2759	285456.929	4821827.018	16.628
	3554	381.00200	101.24800	34.2690			2760	285463.759	4821811.391	16.341
	3555	384.08100	101.96300	23.4590			2761	285468.030	4821801.361	16.290
	3556	32.27600	107.64800	4.4900			2762	285475.996	4821782.539	16.475
	3557	155.82300	101.36900	12.8980			2763	285482.078	4821768.729	16.736
	3558	166.06800	99.43700	29.1420			2764	285488.637	4821753.543	17.271
L		32			32		2765	Nueva LINEA		
	3559	168.18400	99.47500	29.0500			2766	285487.750	4821753.145	17.253
	3560	162.99200	100.87200	15.3170			2767	285482.240	4821765.842	16.803
	3561	397.72200	105.05400	6.9820			2768	285473.582	4821785.598	16.459
	3562	383.45700	102.77000	15.5290			2769	285469.846	4821793.636	16.338
	3563	379.69100	102.20600	19.7660			2770	285467.637	4821797.400	16.328
	3564	379.31600	102.04100	21.4660			2771	285466.983	4821798.975	16.325
	3565	380.40500	101.57400	27.4050			2772	285465.532	4821804.751	16.336
	3566	377.91000	100.69200	45.1390			2773	285458.484	4821821.089	16.522
	3567	376.79200	100.28900	62.6600			2774	285451.494	4821837.185	16.729
	3568	376.28700	100.01200	78.6050			2775	285445.228	4821851.858	16.999
L		630			630		2776	Nueva LINEA		
	3569	376.60900	100.08400	78.5980			2777	285445.602	4821851.995	16.910
	3570	377.81600	100.65400	53.3230			2778	285455.627	4821828.758	16.465
	3571	381.50000	102.02100	27.3360			2779	285466.004	4821804.819	16.145
L		630			630		2780	Nueva LINEA		
	3572	383.10400	103.80400	21.3100			2781	285468.253	4821799.169	15.740
	3573	381.23400	103.80400	21.2270			2782	285467.676	4821798.917	15.745
	3574	381.58000	104.03000	20.1860			2783	285468.084	4821797.950	15.736
	3575	383.55400	103.99700	20.2500			2784	285468.669	4821798.182	15.742
L		630			630		2785	Nueva LINEA		
	3576	386.93400	103.84200	14.4590			2786	285470.890	4821792.772	16.141
	3577	140.24700	105.85000	6.1580			2787	285478.778	4821775.018	16.448
	3578	167.82100	99.69100	32.0870			2788	285489.366	4821750.567	17.169
L		30			30		2789	Nueva LINEA		
M		2.1500					2790	Altura Mira		
	3579	164.35900	97.60800	32.4510			2791	285491.051	4821751.164	17.382
M		1.3000					2792	Altura Mira		
	3580	118.15200	103.39600	7.3290			2793	285480.854	4821776.583	16.622

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	3581	1.13900	103.15800	14.4140						
	3582	389.24000	101.99600	26.0480			2794	285474.089	4821793.036	16.298
	3583	382.72000	100.75200	48.3390			2795	285469.453	4821804.306	16.196
L		99			99		2796	285460.874	4821825.209	16.442
M		2.1500					2797	Nueva LINEA		
	3584	382.89700	99.78300	60.1540			2798	Altura Mira		
	3585	386.10400	99.81200	44.4090			2799	285457.867	4821836.639	16.368
	3586	392.39600	99.85300	30.2270			2800	285464.217	4821821.997	16.294
	3587	20.34000	98.44200	12.0770			2801	285470.231	4821808.654	16.233
	3588	149.44800	97.86400	20.1660			2802	285477.624	4821790.104	16.459
L		100			100		2803	285488.205	4821764.514	16.840
	3589	1.93000	104.27500	22.3510			2804	Nueva LINEA		
L		99			99		2805	285474.508	4821800.932	14.663
M		4.1900					2806	Nueva LINEA		
	3590	387.43900	100.81200	57.1850			2807	Altura Mira		
	3591	392.13600	100.33400	41.3450			2808	285462.625	4821834.713	13.394
	3592	3.27000	99.78800	26.1850			2809	285468.739	4821819.672	13.906
	3593	9.17800	100.53800	20.5590			2810	285475.177	4821804.792	14.210
	3594	59.80300	97.56700	10.7890			2811	285476.786	4821798.987	13.949
	3595	141.99200	98.14300	21.5810			2812	285482.534	4821785.005	14.535
L		750			750		2813	285490.877	4821765.422	14.752
M		1.3000					2814	Nueva LINEA		
	3596	166.76500	101.79000	10.3480			2815	Altura Mira		
L		750			750		2816	285478.989	4821769.676	16.722
	3597	377.29900	101.33900	29.5530			2817	Nueva LINEA		
	30529	285409.014	4821931.781	20.180			2818	285463.519	4821806.330	16.392
B		6			6		2819	BASE (coord de FICHERO DE BASES)		
L		1.6510	1.3000				2820	Nueva LINEA		
H		174.50700	101.49000	166.3350			2821	Altura Aparato y Mira		
O		99			99		2822	285473.831	4821778.642	16.634
L		2.1500					2823	Nueva LINEA		
M		3598	169.40500	102.30800	97.6260		2824	Altura Mira		
	3599	168.85200	102.48900	87.3270			2825	285454.112	4821845.268	16.143
	3600	168.92600	102.40100	77.4330			2826	285450.021	4821854.757	16.268
	3601	168.18600	102.77900	67.2270			2827	285445.297	4821863.438	16.762
	3602	166.13400	103.60700	55.8110			2828	285441.195	4821872.830	16.748
	3603	162.89600	104.87900	45.7380			2829	285437.275	4821883.758	16.521
	3604	155.99000	105.81200	34.9090			2830	285434.112	4821893.705	16.179
	3605	145.28100	108.37900	26.0580			2831	285431.176	4821904.998	16.498
	3606	129.15300	111.25800	20.7390			2832	285428.582	4821914.917	16.261
	3607	76.70300	113.23300	20.3000			2833	285427.326	4821922.754	16.033
	3608	40.51100	108.15200	32.3110			2834	285427.562	4821938.888	15.492
L		99			99		2835	285428.059	4821957.554	15.555
M		4.1900					2836	Nueva LINEA		
	3609	47.54500	109.91300	33.4330			2837	Altura Mira		
	3610	75.06600	114.06600	23.3190			2838	285431.452	4821956.018	12.456
	3611	107.09200	114.71600	21.5230			2839	285430.044	4821940.465	12.531
	3612	132.49600	112.15200	26.2910			2840	285429.834	4821929.451	12.710
	3613	151.79500	107.49200	37.1980			2841	285431.536	4821919.168	12.653
	3614	159.24500	104.87500	49.8470			2842	285434.387	4821904.933	13.274
	3615	164.73300	103.41000	74.4000			2843	285438.700	4821891.920	13.828
	3616	166.54800	103.03100	90.6640			2844	285448.094	4821868.597	13.658
L		100			100		2845	285454.437	4821853.435	13.327
M		1.3000					2846	Nueva LINEA		
	3617	167.78600	104.30800	81.1600			2847	Altura Mira		
L		60			60		2848	285448.258	4821860.952	15.044
M		2.1500					2849	Nueva LINEA		
	3618	70.21000	98.71300	144.7810			2850	Altura Mira		
	3619	70.94300	98.72000	145.6920			2851	285538.207	4821997.064	22.609
L		100			100		2852	285539.768	4821995.974	22.612
M		2.5000					2853	Nueva LINEA		
	3620	70.39400	99.08300	144.9550			2854	Altura Mira		
M		2.1500					2855	285538.564	4821996.775	21.420
	3621	70.69000	99.18100	145.3420			2856	Altura Mira		
L		630			630		2857	285539.214	4821996.345	21.552
	3622	70.86000	99.17700	144.5700			2858	Nueva LINEA		
	3623	71.32700	99.18500	140.8570			2859	285538.694	4821995.656	21.551
	3624	72.06100	99.21600	134.2520			2860	285535.816	4821993.087	21.486
	3625	73.50200	99.52000	122.1770			2861	285530.537	4821988.816	21.335
	3626	74.93500	100.32100	111.6560			2862	285520.758	4821981.172	20.603
	3627	74.54900	100.31600	111.5310			2863	285512.128	4821974.609	19.119
	3628	73.45600	99.65600	119.3510			2864	285511.751	4821975.185	19.128
	3629	71.78100	99.21900	133.4780			2865	285518.140	4821980.109	20.327
	3630	70.59400	99.17500	144.1900			2866	285529.586	4821989.018	21.320
L		23			23		2867	285538.085	4821996.028	21.551
	3631	71.45600	99.20400	133.8220			2868	Nueva LINEA		
	3632	72.09100	99.53000	123.8260			2869	285529.602	4821989.781	21.355
	3633	73.52600	101.16900	103.2870			2870	285521.130	4821984.336	20.596
	3634	71.24400	102.01700	85.6110			2871	285503.484	4821973.494	17.785
	3635	68.75100	102.09900	80.3120			2872	285486.002	4821969.127	16.970
L		4			4		2873	285479.807	4821969.614	17.034
	3636	73.94100	102.63300	77.7560			2874	Nueva LINEA		
L		4			4		2875	285480.287	4821962.698	16.466
	3637	82.40100	101.91100	84.2200			2876	Nueva LINEA		
							2877	285490.001	4821954.753	17.154

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L	3638	75.16100	101.37500	103.2940	4		2878	Nueva LINEA		
L		23			23		2879	285504.524	4821971.054	17.451
	3639	73.40300	99.27900	128.0460			2880	Nueva LINEA		
	3640	77.18500	100.02100	112.2760			2881	285526.042	4821983.725	21.132
	3641	82.13100	100.21200	99.7400			2882	285514.158	4821971.157	19.645
	3642	88.74700	100.75000	86.4680			2883	285504.851	4821959.405	19.350
	3643	98.75700	101.48200	73.5380			2884	285494.129	4821946.980	18.663
	3644	114.99300	101.93200	64.4590			2885	285482.518	4821933.213	17.970
	3645	122.39700	102.21100	61.9820			2886	285471.664	4821916.744	17.725
L		60			60		2887	285467.163	4821910.432	17.529
M		1.3000					2888	Nueva LINEA		
	3646	18.19400	101.57800	70.6620			2889	Altura Mira		
	3647	17.31500	101.55300	62.4670			2890	285428.932	4821999.555	18.780
M		0.0000					2891	285425.793	4821991.933	19.008
	3648	11.50500	97.97000	63.4540			2892	Altura Mira		
	3649	17.05300	97.97000	62.4550			2893	285420.416	4821994.169	23.854
	3650	17.51100	98.21800	63.7710			2894	285425.539	4821991.977	23.822
	3651	17.51100	99.93100	64.3470			2895	285426.331	4821993.130	23.616
	3652	17.93900	100.21400	68.3450			2896	285426.494	4821993.708	21.901
L		60			60		2897	285428.022	4821997.429	21.602
	3653	17.49300	98.38700	64.7590			2898	Nueva LINEA		
	3654	17.51900	99.65200	65.1900			2899	285426.583	4821994.089	23.472
	3655	17.80200	99.79400	67.5910			2900	285426.731	4821994.516	22.188
L		23			23		2901	285427.672	4821996.745	22.050
M		1.3000					2902	Nueva LINEA		
	3656	126.73300	103.72700	60.0700			2903	Altura Mira		
	3657	132.33600	104.18100	59.7090			2904	285463.770	4821907.330	17.017
L		60			60		2905	285461.071	4821902.800	16.613
	3658	136.86200	104.02200	62.4330			2906	285461.164	4821897.683	16.590
	3659	137.66300	103.32400	64.7870			2907	Nueva LINEA		
	3660	135.50900	98.79600	70.9890			2908	285462.715	4821895.696	17.150
	3661	134.88500	97.31900	73.3080			2909	285469.231	4821894.210	21.874
M		0.0000					2910	285471.531	4821893.621	23.618
	3662	134.37800	97.69600	74.9570			2911	Altura Mira		
L		60			60		2912	285473.261	4821893.264	24.544
M		2.1500					2913	Nueva LINEA		
	3663	135.44500	96.75000	73.3660			2914	Altura Mira		
L		30			30		2915	285471.216	4821893.059	23.425
	3664	135.63300	96.61000	74.3170			2916	Nueva LINEA		
M		1.3000					2917	285471.899	4821892.375	23.637
	3665	133.77800	97.49500	71.6960			2918	Altura Mira		
	3666	132.11000	98.85500	69.0160			2919	285470.803	4821895.525	23.352
	3667	128.29300	101.60200	63.8740			2920	285469.424	4821898.430	21.773
	3668	126.57700	102.69100	61.9520			2921	285466.663	4821904.325	18.924
	3669	124.10600	103.50600	60.3580			2922	285465.593	4821906.682	17.913
	3670	114.72100	103.99600	58.4640			2923	285465.010	4821909.499	17.209
	3671	81.01800	104.08200	62.4700			2924	285465.809	4821918.406	16.864
	3672	65.33000	103.72000	71.8260			2925	285468.606	4821950.092	16.528
	3673	63.95900	103.27900	73.0480			2926	285470.346	4821968.925	16.337
L		23			23		2927	285470.585	4821970.907	16.771
	3674	62.60000	103.81400	70.8860			2928	Nueva LINEA		
	3675	58.36300	104.06200	69.8420			2929	285467.911	4821970.997	16.287
M		2.1500					2930	285464.332	4821974.183	16.078
	3676	51.86200	103.02700	73.0190			2931	Altura Mira		
L		30			30		2932	285462.076	4821981.822	16.211
	3677	29.44000	110.12700	26.0110			2933	Nueva LINEA		
	3678	60.60000	116.49400	15.7850			2934	285420.473	4821954.765	15.561
	3679	116.38600	115.90400	14.8300			2935	285421.443	4821940.632	15.637
	3680	135.70700	109.18800	18.2540			2936	285422.910	4821928.122	16.015
	3681	154.58800	106.53200	28.0720			2937	285424.310	4821922.171	17.056
	3682	163.99500	104.87500	40.5590			2938	285427.285	4821910.664	16.806
	3683	167.61800	103.91200	52.7210			2939	285430.684	4821897.637	16.578
	3684	168.82900	102.74200	64.5220			2940	285434.638	4821885.820	16.444
	3685	169.64900	102.22100	78.9580			2941	285439.328	4821874.891	16.903
	3686	170.18100	102.22100	93.3600			2942	285445.222	4821861.669	16.927
L		99			99		2943	285451.132	4821848.525	16.425
	3687	50.31200	103.71700	65.4120			2944	Nueva LINEA		
	3688	61.43100	104.17400	52.6180			2945	285455.416	4821977.726	15.864
	3689	81.79000	105.44300	43.5580			2946	285452.176	4821961.678	16.234
	3690	114.53500	105.18700	43.7990			2947	285450.650	4821944.024	15.962
	3691	137.76400	103.62600	58.1780			2948	285451.534	4821921.898	16.116
L		60			60		2949	285457.173	4821899.309	16.369
M		0.0000					2950	Nueva LINEA		
	3692	139.09400	102.54800	69.5030			2951	Altura Mira		
L		99			99		2952	285465.771	4821891.762	19.050
M		4.1900					2953	Nueva LINEA		
	3693	141.16700	104.18500	56.0990			2954	Altura Mira		
	3694	129.24900	105.09200	46.0980			2955	285453.688	4821898.051	13.956
	3695	112.25700	105.92400	39.9050			2956	285450.198	4821911.402	13.958
	3696	90.11800	106.87800	38.4520			2957	285448.012	4821924.176	13.933
	3697	71.29400	105.78100	42.9460			2958	285446.782	4821937.689	13.495
	3698	50.67500	104.03500	58.6660			2959	285447.509	4821950.417	13.747
L		60			60		2960	285450.852	4821972.737	13.925
M		0.0000					2961	Nueva LINEA		
							2962	Altura Mira		

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LINEA	X	Y	Z
	3699	135.20400	98.10700	74.7210						
	3700	135.27000	97.95800	74.7610			2963	285472.568	4821892.550	24.053
	3701	139.10000	97.95000	74.6180			2964	285472.557	4821892.466	24.229
M		1.3000					2965	285469.961	4821888.799	24.234
L	3702	139.10000	99.57500	74.5750			2966	Altura Mira		
		60			60		2967	285469.956	4821888.802	21.029
	3703	49.78400	101.26400	83.5860			2968	Nueva LINEA		
	3704	54.30600	100.96400	77.7430			2969	285467.909	4821991.071	18.872
M		0.0000					2970	285467.572	4821982.903	19.354
	3705	57.31600	98.32700	81.6050			2971	Altura Mira		
	3706	54.44100	98.22700	77.8400			2972	285472.934	4821982.466	23.976
	3707	53.56600	98.42800	78.5610			2973	285467.737	4821982.829	23.999
	3708	53.21900	99.85200	79.0770			2974	285467.573	4821984.116	23.771
	3709	50.97500	100.13000	81.9450			2975	285467.687	4821984.796	22.015
L		60			60		2976	285467.841	4821988.827	21.664
	3710	51.43500	99.75700	81.4660			2977	Nueva LINEA		
	3711	52.80100	99.62800	79.6920			2978	285467.905	4821988.070	22.142
	3712	53.08700	98.58600	79.4400			2979	285467.790	4821985.595	22.297
L		4			4		2980	285467.831	4821985.148	23.596
M		1.3000					2981	Nueva LINEA		
	3713	131.50900	97.68800	71.3010			2982	Altura Mira		
	3714	113.36800	97.42400	77.8510			2983	285471.715	4821897.934	23.120
	3715	97.30400	97.72300	89.1800			2984	285485.092	4821915.563	23.681
	3716	84.04700	98.23400	108.2150			2985	285498.057	4821935.550	23.721
	3717	73.63300	98.56300	136.3050			2986	285513.810	4821958.600	23.533
	3718	70.48800	98.71600	148.8510			2987	285533.765	4821986.614	23.609
	3719	69.34300	98.66100	148.0360			2988	285542.131	4821998.319	23.534
	3720	69.38500	98.43900	122.8850			2989	285540.188	4822000.324	23.646
	3721	65.90300	98.04100	99.3400			2990	285517.931	4821988.602	23.545
	3722	61.78300	97.71200	85.7800			2991	285494.405	4821982.451	23.588
L		30			30		2992	285479.753	4821980.203	23.614
M		2.1500					2993	Nueva LINEA		
	3723	59.50300	97.21300	80.7860			2994	Altura Mira		
	3724	58.95900	96.55900	81.9140			2995	285473.938	4821979.725	23.217
	3725	58.39500	96.50500	83.0040			2996	285474.394	4821980.931	24.107
L		174			174		2997	285474.817	4821982.167	24.236
M		1.3000					2998	Nueva LINEA		
	3726	57.97500	97.13200	83.8910			2999	Altura Mira		
	3727	54.56100	96.96600	78.7780			3000	285475.216	4821983.169	24.310
	3728	49.80900	96.80200	73.4310			3001	285468.498	4821983.293	24.284
	3729	42.27200	96.59400	67.8750			3002	285460.719	4821983.792	24.219
	3730	31.98500	96.41600	63.8640			3003	285450.787	4821985.156	24.161
	3731	21.34600	96.33500	62.7030			3004	285439.722	4821987.662	24.125
	3732	9.83800	96.46700	64.4640			3005	285429.615	4821990.893	24.139
L		10			10		3006	285418.924	4821995.378	24.107
M	3733	9.96200	96.56300	65.2820			3007	Nueva LINEA		
		2.1500					3008	285419.176	4821996.171	24.054
	3734	24.81700	95.62400	63.7360			3009	Altura Mira		
	3735	43.02700	95.94600	69.4130			3010	285433.181	4821990.595	24.059
	3736	54.31500	96.39000	79.8840			3011	285452.352	4821985.822	24.099
L		174			174		3012	285469.102	4821984.224	24.209
M	3737	53.81100	97.11400	88.7490			3013	Nueva LINEA		
		1.9000					3014	285475.346	4821990.605	23.703
	3738	44.29900	97.00100	77.8620			3015	Altura Mira		
	3739	32.63900	96.78400	71.7220			3016	285458.874	4821991.472	23.598
	3740	17.30200	96.72100	70.4170			3017	285444.154	4821994.200	23.553
	3741	11.25800	96.80300	71.7870			3018	285427.895	4821999.522	23.557
L		10			10		3019	285421.630	4822002.358	23.535
M	3742	10.82100	96.55100	69.5590			3020	Nueva LINEA		
		2.1500					3021	285420.767	4822000.236	23.698
	3743	24.89000	96.22000	67.9940			3022	Altura Mira		
	3744	40.87600	96.42600	72.8010			3023	285434.883	4821994.532	23.716
	3745	52.08100	96.77500	82.8430			3024	285452.546	4821989.990	23.766
L		4			4		3025	285469.401	4821988.338	23.876
M		1.3000					3026	Nueva LINEA		
	3746	172.29100	102.53900	82.6290			3027	Altura Mira		
	3747	171.55300	102.77100	67.7390			3028	285443.822	4821856.914	17.237
L		750			750		3029	285438.255	4821870.750	17.584
L	3748	173.30300	102.50600	76.5890			3030	Nueva LINEA		
		40			40		3031	285440.171	4821861.881	17.517
	3749	169.11400	104.11500	42.7720			3032	Nueva LINEA		
	3750	168.47100	103.96600	32.0610			3033	285428.917	4821894.023	17.768
	3751	162.10700	105.21200	24.4170			3034	285424.220	4821903.626	18.535
	3752	158.55500	106.20400	17.9610			3035	285422.658	4821911.630	18.534
	3753	128.88000	115.55700	7.1620			3036	285419.846	4821917.561	18.783
	3754	34.45100	114.86700	5.0010			3037	285415.260	4821928.735	18.798
	3755	396.35800	104.54700	14.0230			3038	285411.520	4821935.951	19.374
L		23			23		3039	285408.215	4821945.745	19.530
M		2.1500					3040	Nueva LINEA		
	3756	18.43700	113.85900	18.0030			3041	Altura Mira		
	3757	79.35000	122.86100	10.7000			3042	285414.035	4821948.627	15.793
	3758	124.39400	117.41500	12.8160			3043	285418.509	4821934.973	15.921
	3759	148.84300	108.18400	15.4820			3044	285420.458	4821927.167	16.219
L		40			40		3045	285420.066	4821921.122	17.696
	3760	172.85800	102.93400	48.6590			3046	Nueva LINEA		
							3047	285429.113	4821887.524	17.439

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	3761	171.42300	103.00900	36.7090			3048	285424.925	4821898.745	17.947
	3762	169.58900	103.62900	20.3150			3049	285418.337	4821913.769	18.524
	3763	154.84800	108.22900	6.0240			3050	285412.904	4821927.248	18.905
	3764	6.38500	104.99700	3.8890			3051	285409.402	4821935.639	19.376
	3765	381.95200	100.01500	14.8600			3052	285404.858	4821946.048	19.678
L		6			6		3053	Nueva LINEA		
M		1.3000					3054	Altura Mira		
D	30530	235.87500	98.60500	244.7350			3055	285278.306	4821724.944	25.897
L		60			60		3056	Nueva LINEA		
M	3766	195.60300	98.78200	110.4160			3057	285416.627	4821821.648	22.644
		0.0000					3058	Altura Mira		
	3767	197.28400	98.39000	112.8240			3059	285413.819	4821819.096	24.685
	3768	195.60300	98.48500	110.4450			3060	285416.628	4821821.631	24.460
B	30530	285278.307	4821724.946	25.893			3061	BASE (coord de FICHERO DE BASES)		
L		6			6		3062	Nueva LINEA		
H		1.6570	1.3000				3063	Altura Aparato y Mira		
O	30529	35.87500	101.57900	244.7460			3064	285409.014	4821931.781	20.180
L		174			174		3065	Nueva LINEA		
	3769	39.21000	103.16100	95.5440			3066	285333.439	4821802.834	21.509
	3770	40.97500	103.21100	81.2640			3067	285327.015	4821789.865	22.153
	3771	42.18100	103.21800	71.1650			3068	285322.031	4821780.979	22.655
	3772	43.91400	103.21900	57.0300			3069	285314.556	4821768.879	23.368
	3773	45.33800	103.21300	44.2320			3070	285307.176	4821758.383	24.019
	3774	47.01700	103.37700	27.2530			3071	285296.629	4821745.069	24.805
	3775	47.13100	104.00500	15.2780			3072	285288.593	4821736.202	25.290
	3776	43.24100	106.94900	5.3690			3073	285281.660	4821729.098	25.665
	3777	258.03200	100.82800	8.9800			3074	285271.209	4821719.447	26.133
	3778	256.74700	99.42700	17.9500			3075	285264.343	4821713.669	26.412
	3779	257.32700	99.03100	32.4850			3076	285252.853	4821704.769	26.745
	3780	258.60400	98.90600	43.6760			3077	285243.548	4821698.511	27.001
	3781	260.02500	98.90200	55.9900			3078	285233.002	4821692.061	27.216
	3782	261.10400	98.90200	66.0770			3079	285224.191	4821687.048	27.390
	3783	261.92800	98.91400	73.5710			3080	285217.512	4821683.533	27.505
L		10			10		3081	Nueva LINEA		
	3784	260.06000	98.81500	73.7690			3082	285218.594	4821681.653	27.623
	3785	257.29700	98.76400	55.7610			3083	285234.634	4821690.294	27.333
	3786	254.94200	98.78100	41.9300			3084	285246.453	4821697.692	27.053
	3787	251.97000	98.82500	27.8100			3085	285258.046	4821705.904	26.763
	3788	247.97100	99.10200	16.2920			3086	285267.160	4821713.066	26.480
	3789	157.58600	109.14600	1.6750			3087	285279.331	4821723.643	26.010
	3790	56.31600	103.25300	16.5380			3088	285291.086	4821735.410	25.405
	3791	51.85400	103.01400	28.8710			3089	285299.285	4821744.734	24.884
	3792	48.67200	103.01200	43.9020			3090	285308.664	4821756.593	24.174
	3793	45.93900	103.04900	59.9160			3091	285317.844	4821769.874	23.382
	3794	44.43800	103.07300	69.8420			3092	285323.145	4821778.388	22.880
	3795	42.42200	103.08000	84.2020			3093	285330.297	4821791.055	22.178
	3796	40.71400	103.06000	95.7700			3094	285335.402	4821801.697	21.649
L		174			174		3095	Nueva LINEA		
	3797	40.29800	102.71000	119.0310			3096	285348.662	4821820.825	21.185
	3798	42.67000	102.79500	104.8740			3097	285343.395	4821807.049	21.648
	3799	45.12100	102.80900	90.8730			3098	285337.401	4821793.864	22.242
	3800	47.91100	102.77300	76.2860			3099	285330.404	4821780.573	22.929
	3801	50.41200	102.68100	64.9710			3100	285324.506	4821770.546	23.515
	3802	54.27900	102.56600	50.0840			3101	285315.991	4821757.873	24.232
	3803	58.49100	102.35300	38.1790			3102	285308.634	4821748.095	24.839
	3804	66.69300	102.07700	24.6370			3103	285299.638	4821737.248	25.446
	3805	78.94200	101.59200	15.5780			3104	285293.036	4821730.003	25.860
	3806	182.82900	98.23900	7.6280			3105	285280.338	4821717.597	26.461
	3807	229.81800	98.15300	17.9360			3106	285270.213	4821708.949	26.770
	3808	237.40900	98.31900	25.2960			3107	285264.287	4821703.901	26.918
L		10			10		3108	Nueva LINEA		
	3809	254.30800	98.60500	63.0720			3109	285230.804	4821683.478	27.632
	3810	250.62400	98.55900	48.2560			3110	285243.859	4821691.170	27.342
	3811	247.18600	98.50400	37.5370			3111	285252.969	4821697.265	27.132
	3812	240.54900	98.43900	25.0710			3112	285263.400	4821704.798	26.865
	3813	224.65000	98.18700	13.3040			3113	285273.285	4821712.632	26.629
	3814	143.31100	99.81700	5.9640			3114	285282.943	4821721.194	26.267
	3815	81.52200	101.68700	12.5900			3115	285290.366	4821728.547	25.916
	3816	64.27000	102.27300	24.3390			3116	285298.900	4821737.891	25.381
	3817	58.13400	102.43100	34.9360			3117	285305.938	4821746.283	24.916
	3818	53.10600	102.64700	49.7750			3118	285315.148	4821758.353	24.181
	3819	49.85700	102.74200	62.8470			3119	285322.608	4821769.442	23.544
	3820	46.84500	102.83700	77.7190			3120	285330.424	4821782.497	22.788
	3821	44.99600	102.85400	87.8910			3121	285335.329	4821791.712	22.312
	3822	43.25200	102.86400	97.6930			3122	285339.632	4821800.866	21.857
	3823	41.50600	102.81400	108.3480			3123	285343.988	4821810.983	21.463
	3824	39.57000	102.73600	120.5120			3124	285348.422	4821822.824	21.073
	3825	37.51200	102.63100	133.7170			3125	285352.559	4821836.015	20.727
L		23			23		3126	Nueva LINEA		
	3826	36.96000	102.78600	155.2040			3127	285363.361	4821854.591	19.462
	3827	39.04200	102.93400	141.4800			3128	285359.654	4821840.517	19.733
	3828	41.89900	103.11700	125.5690			3129	285355.024	4821824.164	20.105
	3829	45.29200	103.29800	105.9050			3130	285347.366	4821805.049	20.767
	3830	50.03400	103.46900	90.1260			3131	285341.978	4821788.543	21.342

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M	3831	54.89400	103.49300	69.8370			3132	285331.258	4821770.319	22.420
		2.1500					3133	Altura Mira		
	3832	59.58800	102.44600	53.2440			3134	285321.149	4821756.495	23.355
L	3833	69.89000	102.36500	35.1520			3135	285309.579	4821740.946	24.095
		32				32	3136	Nueva LINEA		
M		1.3000					3137	Altura Mira		
	3834	227.01700	98.43000	19.3780			3138	285270.330	4821707.293	26.728
	3835	171.39900	101.11600	9.6270			3139	285282.487	4821716.275	26.081
M	3836	108.28100	103.03200	13.0260			3140	285291.208	4821723.258	25.630
		2.1500					3141	Altura Mira		
	3837	75.01600	102.00200	29.7230			3142	285305.757	4821736.307	24.466
	3838	70.48700	102.27900	35.8110			3143	285310.318	4821740.947	24.118
	3839	63.13800	102.66500	53.2670			3144	285322.853	4821754.066	23.171
	3840	59.31600	102.80800	70.1450			3145	285334.556	4821766.740	22.307
	3841	56.99400	102.86000	83.3490			3146	285343.287	4821777.009	21.657
	3842	55.13200	102.83000	93.7240			3147	285349.634	4821785.603	21.236
M		1.3000					3148	Altura Mira		
	3843	53.44100	103.33000	102.1960			3149	285354.268	4821793.103	20.908
	3844	50.79800	103.25000	115.2830			3150	285360.736	4821805.326	20.368
	3845	49.50700	103.24300	122.6270			3151	285364.236	4821812.207	20.007
	3846	47.29900	103.18800	134.9470			3152	285369.486	4821824.200	19.496
	3847	45.66800	103.19000	144.7480			3153	285373.349	4821833.879	19.001
	3848	45.32300	103.17600	148.0750			3154	285374.929	4821836.909	18.867
	3849	45.44200	103.14000	151.6670			3155	285377.490	4821839.443	18.774
	3850	46.66900	103.07000	158.8800			3156	285384.505	4821842.870	18.593
	3851	48.17200	102.96700	166.0880			3157	285392.211	4821845.574	18.514
	3852	49.65400	102.91300	172.5630			3158	285399.541	4821847.493	18.359
	3853	50.94700	102.89600	177.5190			3159	285405.559	4821848.455	18.179
	3854	52.34900	103.10900	183.1740			3160	285412.366	4821849.448	17.310
	3855	50.93700	103.04000	184.6190			3161	285410.615	4821853.402	17.440
	3856	46.47600	102.82700	189.2630			3162	285404.409	4821865.829	17.851
	3857	43.42900	102.68700	193.3870			3163	285400.134	4821874.913	18.093
	3858	40.11000	102.51800	198.8340			3164	285395.372	4821885.472	18.390
L		32				32	3165	Nueva LINEA		
	3859	40.26300	102.50500	199.6950			3166	285396.267	4821885.885	18.397
	3860	43.56800	102.66100	194.2580			3167	285401.013	4821875.323	18.135
	3861	46.60700	102.80400	190.1800			3168	285405.313	4821866.252	17.879
	3862	50.48600	103.01800	186.0470			3169	285410.720	4821855.339	17.436
	3863	52.44800	103.08900	184.5100			3170	285413.541	4821850.147	17.303
	3864	53.82900	103.13100	183.4550			3171	285415.432	4821846.482	17.233
L		32				32	3172	Nueva LINEA		
M		2.1500					3173	Altura Mira		
M	3865	53.63800	102.85800	181.6320			3174	285413.735	4821845.705	17.251
		1.3000					3175	Altura Mira		
	3866	52.69700	103.13400	182.6900			3176	285412.686	4821848.384	17.262
	3867	52.39500	103.02100	181.5530			3177	285411.278	4821848.258	17.640
	3868	51.20400	102.90000	176.8330			3178	285405.563	4821847.465	18.200
	3869	49.98200	102.92300	172.2680			3179	285399.962	4821846.657	18.345
	3870	48.44800	102.96400	165.3110			3180	285392.197	4821844.517	18.558
	3871	46.91200	103.07400	157.8960			3181	285384.293	4821841.736	18.630
	3872	45.75100	103.15600	150.8580			3182	285377.511	4821838.351	18.776
	3873	45.88500	103.20200	146.4160			3183	285374.818	4821834.805	18.890
	3874	47.36200	103.18500	137.4890			3184	285371.304	4821825.978	19.376
	3875	49.28400	103.17100	126.7580			3185	285366.819	4821815.463	19.940
	3876	50.17000	103.20000	121.9990			3186	285364.698	4821810.868	20.121
	3877	53.55200	103.27400	104.6920			3187	285356.248	4821794.635	20.869
	3878	54.67500	103.33400	99.5120			3188	285353.545	4821789.866	21.042
	3879	56.70900	103.42900	89.1460			3189	285347.526	4821780.916	21.451
M		2.1500					3190	Altura Mira		
	3880	58.45400	102.79400	79.6060			3191	285341.496	4821773.237	21.908
	3881	60.34200	102.80000	69.5900			3192	285334.773	4821765.505	22.341
	3882	63.59000	102.65700	55.7130			3193	285325.114	4821755.072	23.076
	3883	69.36000	102.46000	40.8800			3194	285314.517	4821743.854	23.821
	3884	77.59800	101.79200	29.4160			3195	285305.910	4821735.079	24.572
	3885	93.51100	100.61100	18.7240			3196	285296.933	4821726.850	25.220
	3886	128.53600	97.90500	11.5610			3197	285288.720	4821719.938	25.780
	3887	183.40800	95.37800	11.2950			3198	285281.209	4821714.061	26.219
	3888	216.58500	95.33500	16.7410			3199	285274.006	4821708.814	26.626
	3889	224.95500	95.62700	19.8820			3200	285270.728	4821706.616	26.765
L		630				630	3201	Nueva LINEA		
	3890	225.89400	96.16000	19.6420			3202	285270.550	4821706.940	26.584
	3891	185.15700	96.42500	10.8750			3203	285280.815	4821714.382	26.010
	3892	102.92800	100.38900	14.8740			3204	285293.165	4821724.261	25.309
	3893	82.88500	101.86200	23.7540			3205	285301.198	4821731.252	24.705
	3894	72.14300	102.55100	34.8690			3206	285309.866	4821739.708	24.003
	3895	65.59500	102.82100	47.9240			3207	285319.362	4821749.577	23.277
	3896	59.77700	102.96800	70.0730			3208	285334.793	4821766.284	22.135
	3897	57.55800	102.96000	82.3360			3209	285342.946	4821775.802	21.574
	3898	55.23800	102.93500	94.9150			3210	285350.637	4821786.249	21.026
	3899	53.29800	102.88900	104.2370			3211	285355.655	4821794.661	20.672
	3900	48.99900	102.84400	126.8910			3212	285366.527	4821815.975	19.734
	3901	45.93300	102.89500	144.3180			3213	285373.539	4821833.184	18.841
	3902	45.55000	102.86100	150.9160			3214	285377.212	4821838.732	18.622
	3903	46.46300	102.81000	156.7240			3215	285382.706	4821841.630	18.486
	3904	48.69300	102.67900	167.4950			3216	285394.190	4821845.676	18.355



# -ISPOL- Libreta Topografica  
 # ---- Datos de Entrada ----  
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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	3905	50.28800	102.66200	174.0760						
	3906	52.52300	102.83900	182.9290						
L		630			630		3217	285401.851	4821847.365	18.125
	3907	39.76600	102.28000	199.9960			3218	285412.553	4821848.939	17.247
M		1.7500					3219	Nueva LINEA		
	3908	43.71100	102.58800	193.4630			3220	285395.199	4821887.067	18.241
	3909	48.85400	102.85300	187.1170			3221	Altura Mira		
M		2.1500					3222	285400.853	4821874.440	17.940
	3910	51.69800	102.84400	184.4530			3223	285408.091	4821859.476	17.419
L		630			630		3224	Altura Mira		
	3911	53.33800	102.99200	182.3970			3225	285412.039	4821851.715	17.165
	3912	53.44000	102.97500	183.3520			3226	Nueva LINEA		
	3913	53.77800	102.97600	183.0270			3227	285413.719	4821846.842	16.833
	3914	53.67300	102.99400	182.0600			3228	285414.626	4821847.263	16.837
L		750			750		3229	285415.031	4821846.322	16.849
	3915	55.77400	102.85600	182.6920			3230	285414.107	4821845.903	16.843
L		750			750		3231	Nueva LINEA		
M		1.3000					3232	285418.523	4821841.772	17.209
	3916	43.39900	102.52200	197.9730			3233	Nueva LINEA		
L		746			746		3234	Altura Mira		
M		3.1500					3235	285402.963	4821878.544	18.412
	3917	45.11000	102.14600	188.5090			3236	Nueva LINEA		
M		1.3000					3237	Altura Mira		
	3918	45.71600	102.82900	187.6410			3238	285400.918	4821867.990	18.049
L		747			747		3239	Altura Mira		
	3919	45.48800	102.79400	186.1060			3240	285401.652	4821866.104	17.917
	3920	45.08900	102.84400	183.7210			3241	Nueva LINEA		
	3921	43.85100	102.77300	185.5770			3242	285400.144	4821865.390	18.087
L		742			742		3243	285397.707	4821864.336	18.047
	3922	41.75700	102.69100	179.6550			3244	285396.158	4821868.070	18.171
	3923	41.45300	102.67500	179.2720			3245	Nueva LINEA		
L		742			742		3246	285387.785	4821867.187	18.660
	3924	46.77700	103.18100	146.3820			3247	285386.874	4821867.406	18.722
	3925	47.45700	103.19500	145.7030			3248	Nueva LINEA		
L		4			4		3249	285376.327	4821833.418	18.940
	3926	40.13800	102.62000	186.6690			3250	285377.019	4821831.866	18.942
	3927	42.43400	103.03300	154.6390			3251	Nueva LINEA		
L		4			4		3252	285388.269	4821875.592	18.572
	3928	45.38200	103.15300	128.9380			3253	285373.814	4821846.343	18.887
	3929	40.34500	102.95700	146.4750			3254	Nueva LINEA		
L		4			4		3255	285362.534	4821822.363	19.868
	3930	49.69300	103.32500	107.1750			3256	285364.956	4821842.846	19.450
L		4			4		3257	Nueva LINEA		
	3931	51.71900	103.01700	148.3040			3258	285353.626	4821800.987	20.656
L		4			4		3259	Nueva LINEA		
	3932	54.29200	103.46100	85.2630			3260	285385.851	4821826.823	19.226
L		4			4		3261	Nueva LINEA		
	3933	55.21000	102.70800	130.2700			3262	285342.429	4821780.951	21.617
	3934	50.52600	102.98400	140.7890			3263	Nueva LINEA		
L		4			4		3264	285377.558	4821809.141	20.711
	3935	57.58300	103.03900	107.3750			3265	285378.573	4821823.559	19.655
	3936	61.34700	103.10100	85.8080			3266	Nueva LINEA		
L		60			60		3267	285362.624	4821791.231	21.127
	3937	61.36500	100.63800	164.4700			3268	285348.697	4821773.841	22.072
L		4			4		3269	Nueva LINEA		
	3938	54.00600	103.00000	170.8610			3270	285413.405	4821818.732	24.604
L		23			23		3271	Nueva LINEA		
M		2.1500					3272	285406.345	4821837.794	18.203
	3939	58.16600	102.67000	174.5910			3273	Nueva LINEA		
	3940	57.49300	102.67400	167.5430			3274	Altura Mira		
	3941	57.42300	102.61900	164.6070			3275	285416.423	4821831.493	18.082
L		60			60		3276	285409.759	4821828.587	18.367
	3942	58.51700	102.00500	164.5160			3277	285407.348	4821826.916	18.632
L		23			23		3278	Nueva LINEA		
	3943	57.91300	102.56800	151.3010			3279	285409.054	4821824.664	20.221
	3944	59.06200	102.18900	139.6230			3280	Nueva LINEA		
	3945	61.62300	102.07500	121.8520			3281	285397.638	4821817.761	19.300
	3946	64.11000	102.05200	99.7260			3282	285389.981	4821808.614	20.601
	3947	67.08100	101.93000	77.5010			3283	285378.631	4821793.991	21.430
	3948	72.77700	101.65800	51.4390			3284	285362.559	4821778.204	22.187
	3949	81.80900	101.18400	30.7980			3285	285345.646	4821763.238	23.051
L		4			4		3286	285325.099	4821746.268	24.061
	3950	75.93000	99.62200	56.0170			3287	285307.851	4821733.624	24.827
	3951	67.15500	100.11400	103.3600			3288	Nueva LINEA		
	3952	63.42300	100.25600	135.5690			3289	285330.367	4821745.621	25.733
L		40			40		3290	285368.215	4821775.933	25.216
	3953	37.97800	102.83100	93.8360			3291	285392.111	4821798.615	24.856
	3954	39.60900	102.78200	79.4350			3292	Nueva LINEA		
	3955	41.30300	102.74500	66.0050			3293	285330.975	4821802.494	21.229
M		1.3000					3294	285324.561	4821789.432	21.930
	3956	42.78400	103.53400	54.6920			3295	285318.154	4821777.489	22.555
	3957	43.80300	103.49200	47.0250			3296	Altura Mira		
	3958	43.94600	104.09200	25.0190			3297	285312.307	4821767.677	23.216
	3959	39.28300	106.31200	10.0300			3298	285308.126	4821761.216	23.672
	3960	275.65500	104.30500	5.1100			3299	285294.206	4821744.196	24.643
							3300	285284.083	4821733.086	25.257
							3301	285273.577	4821723.044	25.905

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	3961	259.78700	100.22000	22.2560						
	3962	259.75600	99.53800	34.7150			3302	285260.345	4821711.805	26.173
	3963	260.39600	99.05500	45.5960			3303	285250.300	4821704.436	26.502
	3964	261.96600	99.18900	63.0870			3304	285241.256	4821698.380	26.927
	3965	262.68800	99.17700	71.7220			3305	285226.151	4821689.464	27.054
L		4					3306	285218.558	4821685.282	27.178
	3966	264.25700	99.48000	63.6270	4		3307	Nueva LINEA		
	3967	263.50600	99.93400	40.8320			3308	285224.448	4821691.074	26.770
L		4					3309	285244.001	4821702.802	26.292
	3968	264.25700	101.89500	26.3480	4		3310	Nueva LINEA		
	3969	371.73300	124.39600	3.8230			3311	285256.013	4821710.925	25.466
	3970	36.37900	108.51900	18.1090			3312	285276.784	4821728.148	24.821
L		4					3313	285288.014	4821740.041	23.834
	3971	42.07600	104.84700	31.3630	4		3314	Nueva LINEA		
	3972	42.32900	104.17000	46.3580			3315	285297.505	4821749.632	23.865
L		750					3316	285306.849	4821761.349	23.216
	3973	39.95200	103.27500	83.8110			3317	Nueva LINEA		
L		23					3318	285327.457	4821792.695	21.941
M		4.1900					3319	Nueva LINEA		
	3974	36.49400	102.12900	87.4140			3320	Altura Mira		
	3975	38.09000	102.16400	68.5630			3321	285325.694	4821798.343	20.438
	3976	39.36600	102.04800	49.5720			3322	285316.906	4821781.564	21.030
	3977	37.33400	102.62600	34.7390			3323	285307.031	4821765.316	21.766
	3978	27.68500	105.51000	21.1570			3324	285297.517	4821753.855	21.928
	3979	12.02900	114.88300	15.6630			3325	285287.188	4821744.061	21.531
M		2.1500					3326	285281.170	4821739.912	19.732
	3980	367.67900	124.66900	10.6510			3327	Altura Mira		
	3981	292.28300	110.93200	17.2210			3328	285273.513	4821733.564	21.375
	3982	274.69500	103.55400	32.9630			3329	285261.464	4821722.895	22.457
M		3.1500					3330	285247.961	4821712.207	23.561
	3983	269.81600	98.93700	63.9010			3331	Altura Mira		
L		30					3332	285221.462	4821695.778	25.467
M		2.1500			30		3333	Nueva LINEA		
	3984	262.46300	98.68300	73.4310			3334	Altura Mira		
M		3.1500					3335	285217.286	4821684.126	26.919
	3985	269.06600	98.85400	65.8090			3336	Altura Mira		
M		2.1500					3337	285220.123	4821694.220	25.585
	3986	284.20500	99.94000	56.6460			3338	Altura Mira		
	3987	286.06400	100.89000	54.0500			3339	285223.395	4821711.038	25.454
	3988	292.01000	103.15500	39.2720			3340	285225.552	4821713.212	24.645
	3989	321.21500	111.82300	18.2330			3341	285239.392	4821720.038	23.455
M		2.7500					3342	285261.374	4821730.808	22.033
	3990	353.13500	116.35100	13.4240			3343	Altura Mira		
M		2.1500					3344	285269.590	4821734.568	21.390
	3991	370.01800	124.22500	13.6010			3345	Altura Mira		
	3992	9.68700	122.45100	16.6680			3346	285272.578	4821736.200	20.348
	3993	12.35400	121.43600	19.2620			3347	285280.679	4821740.407	19.643
M		3.1500					3348	285281.814	4821742.785	19.036
	3994	21.12100	106.59100	26.1270			3349	Altura Mira		
M		3.5000					3350	285286.773	4821749.515	21.700
	3995	28.21300	103.38900	66.6690			3351	Altura Mira		
M		2.1500					3352	285306.857	4821785.088	20.503
	3996	28.57800	103.56800	94.7740			3353	Altura Mira		
L		32					3354	285319.376	4821810.194	20.092
M		3.1500			32		3355	Nueva LINEA		
	3997	278.69200	102.63800	36.3780			3356	Altura Mira		
	3998	279.97000	102.65000	36.4870			3357	285243.977	4821713.008	22.893
	3999	279.84000	102.54300	37.1920			3358	285243.641	4821713.666	22.882
L		60					3359	285242.992	4821713.375	22.915
M		4.1900			60		3360	Nueva LINEA		
	4000	2.17900	125.81600	16.9730			3361	Altura Mira		
	4001	0.72400	123.68300	18.4710			3362	285278.842	4821740.533	16.664
M		2.1500					3363	285278.504	4821742.152	16.646
	4002	1.13100	125.37500	18.6150			3364	Altura Mira		
	4003	2.60500	123.91600	16.7900			3365	285278.613	4821742.099	18.175
	4004	386.13400	124.69200	16.2900			3366	285278.947	4821740.552	19.240
	4005	385.96900	126.18800	18.0730			3367	285275.049	4821739.670	19.239
M		4.1900					3368	285274.686	4821741.111	18.173
	4006	386.03500	124.34800	17.9850			3369	Altura Mira		
	4007	386.32700	126.69000	16.4710			3370	285274.677	4821741.232	16.648
L		632					3371	285275.101	4821739.645	16.655
	4008	394.73300	126.36600	16.6590	632		3372	Nueva LINEA		
L		60					3373	285277.047	4821740.144	16.656
M		2.1500			60		3374	Nueva LINEA		
	4009	384.16400	123.29300	16.0330			3375	Altura Mira		
M		1.4000					3376	285274.622	4821739.457	19.664
	4010	4.57600	124.93900	16.9900			3377	Altura Mira		
L		60					3378	285279.436	4821740.608	19.663
M		1.3000			60		3379	Nueva LINEA		
	4011	394.65200	127.64300	16.8110			3380	Altura Mira		
L		100					3381	285277.028	4821740.143	19.178
M		2.1500			100		3382	Nueva LINEA		
	4012	361.91800	122.86300	14.9320			3383	Altura Mira		
L		60					3384	285270.435	4821736.498	20.152
	4013	363.42900	118.95400	13.9070			3385	Nueva LINEA		
							3386	285271.083	4821736.107	21.320

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		1.3000								
L	4014	360.07600	120.77700	15.4440			3387	Altura Mira		
		60			60		3388	285269.723	4821736.792	21.299
	4015	365.40000	125.08500	16.0630			3389	Nueva LINEA		
	4016	366.23000	124.97900	16.1930			3390	285270.638	4821737.641	20.083
M		4.1900					3391	285270.738	4821737.853	20.058
	4017	382.12000	122.00600	19.4430			3392	Altura Mira		
	4018	384.29100	122.62800	18.8610			3393	285273.237	4821742.522	16.772
M		1.3000					3394	285273.989	4821742.093	16.796
	4019	367.80300	126.05200	15.5680			3395	Altura Mira		
	4020	367.21500	126.03300	15.4760			3396	285271.388	4821737.441	20.056
							3397	285271.314	4821737.305	20.096
B	30519	286519.917	4822390.121	18.048			3398	BASE (coord de FICHERO DE BASES)		
L		6			6		3399	Nueva LINEA		
H		1.6120	1.3000				3400	Altura Aparato y Mira		
O	30518	279.22000	99.76000	269.8130			3401	286264.350	4822303.622	19.382
L		174			174		3402	Nueva LINEA		
	4021	279.45100	99.76000	283.2410			3403	286251.301	4822300.291	19.433
	4022	278.95300	99.76600	263.6130			3404	286270.577	4822304.563	19.334
	4023	278.53000	99.77200	249.1930			3405	286284.759	4822307.678	19.257
	4024	277.89700	99.77400	230.2950			3406	286303.361	4822311.773	19.181
	4025	276.98700	99.78700	207.5560			3407	286325.773	4822316.727	19.057
	4026	276.17300	99.79300	190.9450			3408	286342.188	4822320.322	18.983
	4027	274.91500	99.81300	169.8390			3409	286363.091	4822324.926	18.861
	4028	273.59700	99.82900	152.2960			3410	286380.530	4822328.761	18.771
	4029	272.06600	99.84700	135.9900			3411	286396.807	4822332.354	18.688
	4030	269.46800	99.87800	115.1390			3412	286417.765	4822336.999	18.582
	4031	265.63300	99.92900	94.2450			3413	286439.072	4822341.684	18.466
	4032	260.48500	99.98900	76.1370			3414	286457.979	4822345.843	18.374
	4033	244.83100	100.22100	49.3460			3415	286487.967	4822352.515	18.189
	4034	224.94500	100.45800	36.3700			3416	286506.026	4822356.509	18.098
	4035	190.91100	100.77600	30.0230			3417	286524.187	4822360.406	17.994
	4036	155.87400	100.86100	33.5510			3418	286541.351	4822364.313	17.906
	4037	129.46200	100.75200	47.5130			3419	286562.428	4822368.908	17.799
	4038	117.54800	100.67700	63.0540			3420	286580.586	4822372.958	17.690
	4039	110.16000	100.59500	81.4260			3421	286600.304	4822377.177	17.599
	4040	105.76900	100.57100	99.4460			3422	286618.950	4822381.117	17.469
	4041	101.54900	100.58100	130.8270			3423	286650.699	4822386.931	17.167
	4042	100.45400	100.58500	144.0410			3424	286663.948	4822389.086	17.038
	4043	99.44400	100.58300	162.3650			3425	286682.269	4822391.530	16.875
L		10			10		3426	Nueva LINEA		
	4044	98.58500	100.53300	161.8260			3427	286681.697	4822393.709	17.007
	4045	99.43200	100.54200	144.2450			3428	286664.151	4822391.400	17.133
	4046	100.93100	100.53600	124.9380			3429	286644.837	4822388.287	17.309
	4047	102.79100	100.53600	109.0270			3430	286628.835	4822385.337	17.443
	4048	105.43700	100.52500	93.3580			3431	286612.931	4822382.153	17.591
	4049	110.67900	100.58100	73.6420			3432	286592.521	4822377.822	17.688
	4050	119.92300	100.66100	54.5250			3433	286571.790	4822373.333	17.794
	4051	140.10800	100.77900	36.7900			3434	286549.641	4822368.446	17.910
	4052	173.34000	100.77600	28.1420			3435	286531.358	4822364.412	18.017
	4053	220.22600	100.47400	32.0330			3436	286509.909	4822359.693	18.122
	4054	247.94100	100.16200	48.7730			3437	286486.561	4822354.538	18.236
	4055	258.65100	100.02400	65.8740			3438	286467.454	4822350.284	18.335
	4056	265.90800	99.90300	87.9450			3439	286444.282	4822345.248	18.495
	4057	270.91100	99.83900	116.0010			3440	286415.814	4822338.948	18.654
	4058	273.43800	99.81800	138.5970			3441	286393.208	4822333.964	18.757
	4059	275.62300	99.78900	166.9370			3442	286365.067	4822327.758	18.915
	4060	276.64100	99.78300	184.6230			3443	286347.581	4822323.899	18.992
	4061	277.76700	99.76800	209.3140			3444	286323.236	4822318.510	19.126
	4062	278.57000	99.76100	231.2570			3445	286301.637	4822313.749	19.232
	4063	279.41600	99.75300	259.7330			3446	286273.641	4822307.611	19.372
L		32			32		3447	Nueva LINEA		
	4064	278.78600	99.79800	267.9090			3448	286266.743	4822302.504	19.215
	4065	278.34100	99.80000	253.0920			3449	286281.329	4822305.680	19.159
	4066	278.01100	99.82300	243.1680			3450	286291.108	4822307.803	19.040
	4067	277.85700	99.82400	243.2440			3451	286291.236	4822307.224	19.036
	4068	277.71800	99.82000	238.6630			3452	286295.721	4822308.296	19.039
	4069	277.87100	99.81200	238.5600			3453	286295.622	4822308.870	19.068
	4070	277.37000	99.81700	225.0330			3454	286308.950	4822311.814	19.010
	4071	276.87800	99.82200	213.4500			3455	286320.389	4822314.301	18.960
	4072	275.95900	99.83900	194.0200			3456	286339.565	4822318.592	18.853
	4073	274.76100	99.84000	173.9370			3457	286359.468	4822322.965	18.799
	4074	273.45900	99.87000	156.1850			3458	286377.107	4822326.885	18.681
	4075	271.40200	99.87900	134.7600			3459	286398.524	4822331.607	18.617
	4076	268.47600	99.95200	112.8860			3460	286420.588	4822336.485	18.446
	4077	265.30000	99.99200	96.3000			3461	286437.569	4822340.197	18.373
	4078	260.48100	100.07400	79.0130			3462	286455.643	4822344.166	18.269
	4079	252.05400	100.14200	60.7040			3463	286475.628	4822348.606	18.225
	4080	238.67200	100.40300	45.6450			3464	286493.862	4822352.644	18.071
	4081	211.75700	100.64800	33.7170			3465	286513.724	4822356.979	18.017
	4082	170.18900	100.91800	32.0090			3466	286534.361	4822361.560	17.899
	4083	138.61700	100.88900	42.2740			3467	286554.644	4822366.022	17.770
	4084	122.75900	100.78500	57.0240			3468	286573.330	4822370.165	17.657
	4085	113.17300	100.66300	75.4320			3469	286593.735	4822374.621	17.575
	4086	107.27100	100.60300	95.9630			3470	286615.250	4822379.180	17.452

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4087	104.30700	100.64300	112.8210			3471	286632.473	4822382.488	17.221
	4088	101.84600	100.61800	133.4770			3472	286653.331	4822386.244	17.065
	4089	100.51800	100.61100	151.2640			3473	286671.169	4822388.882	16.910
	4090	99.81900	100.61900	164.9080			3474	286684.816	4822390.581	16.758
L		32			32		3475	Nueva LINEA		
	4091	278.59000	99.79300	276.8880			3476	286258.538	4822298.762	19.265
	4092	277.82200	99.80500	251.6670			3477	286283.365	4822304.224	19.135
	4093	277.00900	99.81600	229.3090			3478	286305.397	4822309.109	19.026
	4094	275.80600	99.84000	203.2860			3479	286331.132	4822314.722	18.874
	4095	274.29300	99.85800	177.3440			3480	286356.833	4822320.448	18.758
	4096	272.23800	99.89400	151.5160			3481	286382.578	4822326.129	18.614
	4097	268.63800	99.96400	121.1070			3482	286413.208	4822332.850	18.429
	4098	264.04200	100.05200	96.5740			3483	286438.340	4822338.433	18.282
	4099	256.91900	100.14000	74.3500			3484	286461.949	4822343.564	18.197
	4100	236.18700	100.47300	46.5600			3485	286494.852	4822350.885	18.014
	4101	227.97100	100.46900	41.5250			3486	286502.252	4822352.542	18.054
	4102	226.88300	100.41700	41.0430			3487	286503.094	4822352.685	18.091
	4103	207.35000	100.69400	34.7330			3488	286515.914	4822355.622	17.981
	4104	188.71200	100.79100	32.9720			3489	286525.730	4822357.668	17.950
	4105	153.63900	100.90300	37.7090			3490	286545.010	4822361.978	17.825
	4106	132.55500	100.80500	49.4350			3491	286563.023	4822365.928	17.735
	4107	120.97500	100.69300	63.3110			3492	286579.818	4822369.635	17.671
	4108	111.29600	100.58400	85.8910			3493	286604.455	4822374.957	17.573
	4109	105.50900	100.63400	111.9280			3494	286631.420	4822380.442	17.246
	4110	102.55200	100.60500	135.8990			3495	286655.700	4822384.668	17.070
	4111	101.13600	100.61800	154.2250			3496	286674.110	4822387.361	16.864
	4112	100.58800	100.60400	164.4150			3497	286684.317	4822388.594	16.802
	4113	100.21600	100.57600	172.8350			3498	286692.743	4822389.525	16.798
L		630			630		3499	Nueva LINEA		
M		2.1500					3500	Altura Mira		
	4114	99.80400	100.50800	171.4670			3501	286691.377	4822390.639	16.144
M		1.7000					3502	Altura Mira		
	4115	100.02800	100.66800	171.5830			3503	286691.490	4822390.036	16.162
L		630			630		3504	Nueva LINEA		
M		2.1500					3505	Altura Mira		
	4116	100.60200	100.52200	154.2700			3506	286674.174	4822388.654	16.247
	4117	100.85900	100.51500	154.2160			3507	286674.113	4822388.032	16.264
L		630			630		3508	Nueva LINEA		
	4118	102.70100	100.50800	128.2150			3509	286648.012	4822384.676	16.488
	4119	103.00700	100.50400	128.3240			3510	286648.093	4822384.055	16.495
L		630			630		3511	Nueva LINEA		
	4120	105.83200	100.46700	105.4990			3512	286624.970	4822380.464	16.737
	4121	106.17900	100.46700	105.6510			3513	286625.067	4822379.877	16.736
L		630			630		3514	Nueva LINEA		
	4122	111.83900	100.44700	80.8890			3515	286599.408	4822375.161	16.942
	4123	112.26700	100.43400	81.1410			3516	286599.553	4822374.579	16.957
L		630			630		3517	Nueva LINEA		
	4124	132.63400	100.50300	47.4990			3518	286561.308	4822366.823	17.135
	4125	133.24200	100.48000	47.8790			3519	286561.413	4822366.239	17.149
L		630			630		3520	Nueva LINEA		
	4126	170.49000	100.48400	32.6150			3521	286534.498	4822360.948	17.262
	4127	170.79200	100.48200	33.1900			3522	286534.614	4822360.363	17.259
L		630			630		3523	Nueva LINEA		
	4128	229.09900	100.13200	40.5020			3524	286502.040	4822353.778	17.426
	4129	228.40200	100.12800	40.9190			3525	286502.259	4822353.208	17.428
L		630			630		3526	Nueva LINEA		
	4130	258.42400	99.92100	74.9740			3527	286460.369	4822344.568	17.603
	4131	257.97900	99.92400	75.2860			3528	286460.442	4822343.961	17.600
L		630			630		3529	Nueva LINEA		
	4132	268.02600	99.83800	112.3440			3530	286421.445	4822336.045	17.797
	4133	267.68800	99.84700	112.4990			3531	286421.598	4822335.447	17.781
L		630			630		3532	Nueva LINEA		
	4134	273.13500	99.78400	155.6100			3533	286377.956	4822326.394	18.040
	4135	272.90100	99.78400	155.8250			3534	286377.995	4822325.784	18.040
L		630			630		3535	Nueva LINEA		
	4136	275.43200	99.76900	188.2910			3536	286345.472	4822319.257	18.196
	4137	275.22500	99.77300	188.3170			3537	286345.679	4822318.681	18.184
L		630			630		3538	Nueva LINEA		
	4138	277.71000	99.75000	238.6360			3539	286295.757	4822308.277	18.451
	4139	277.53800	99.75300	238.7280			3540	286295.893	4822307.640	18.440
L		630			630		3541	Nueva LINEA		
	4140	278.78000	99.74100	272.9310			3542	286262.006	4822300.837	18.625
	4141	278.64400	99.74100	273.1540			3543	286261.987	4822300.213	18.626
L		40			40		3544	Nueva LINEA		
M		1.3000					3545	Altura Mira		
	4142	209.24200	93.68800	41.5940			3546	286513.927	4822349.167	22.477
	4143	215.70800	94.64100	42.0710			3547	286509.676	4822349.469	21.897
	4144	222.59700	95.12600	44.6980			3548	286504.426	4822348.333	21.779
L		60			60		3549	Nueva LINEA		
	4145	223.05200	95.07300	45.0700			3550	286503.997	4822348.101	21.845
	4146	220.45000	94.84300	46.8640			3551	286505.167	4822345.801	22.152
	4147	216.40400	94.56600	50.0930			3552	286507.196	4822341.859	22.631
M		2.1500					3553	Altura Mira		
	4148	215.87900	93.49300	50.5530			3554	286507.501	4822341.389	22.668
	4149	216.84900	93.53600	50.8510			3555	286506.681	4822341.294	22.665

06/160/2007



TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L. VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		1.3000								
	4150	218.19500	94.67400	49.6990			3556	Altura Mira		
	4151	223.97400	95.09100	45.5500			3557	286505.952	4822342.606	22.513
L		40			40		3558	286503.214	4822347.890	21.869
	4152	225.02800	95.21600	45.7800			3559	Nueva LINEA		
	4153	232.82100	96.06500	49.9030			3560	286502.426	4822347.954	21.797
	4154	244.06400	96.90300	59.4610			3561	286495.359	4822346.789	21.443
	4155	251.38100	97.08500	70.4850			3562	286482.012	4822344.400	21.252
	4156	257.91200	97.18700	86.5640			3563	286469.058	4822341.427	21.587
	4157	261.56700	97.46400	99.1440			3564	286451.655	4822337.027	22.184
	4158	264.54000	97.70900	112.0240			3565	286438.360	4822333.887	22.309
	4159	266.16000	97.82700	120.8170			3566	286424.885	4822330.944	22.391
L		23			23		3567	286415.828	4822328.923	22.484
M		2.1500					3568	Nueva LINEA		
	4160	264.01000	97.18800	121.4800			3569	Altura Mira		
	4161	261.66800	96.93700	110.1070			3570	286417.435	4822325.114	22.875
	4162	257.82700	96.63200	95.5420			3571	286429.276	4822327.835	22.806
	4163	252.64700	96.26400	83.4260			3572	286444.686	4822331.444	22.563
	4164	249.35800	95.79200	76.5320			3573	286458.628	4822333.734	22.403
L		23			23		3574	286466.463	4822335.584	22.565
M		1.3000					3575	Nueva LINEA		
	4165	209.05300	93.16500	43.5850			3576	Altura Mira		
	4166	212.74000	93.57100	43.3900			3577	286513.773	4822347.225	23.031
	4167	215.45700	93.79300	47.0300			3578	286511.333	4822347.814	22.734
L		40			40		3579	286508.661	4822344.688	22.938
	4168	211.47000	91.60700	47.2250			3580	Nueva LINEA		
	4169	209.30500	91.38500	47.6840			3581	286511.525	4822344.064	24.568
L		60			60		3582	286513.033	4822343.377	24.793
M		0.0000					3583	Nueva LINEA		
	4170	208.59100	92.90000	47.7030			3584	Altura Mira		
	4171	208.35900	94.54800	45.3760			3585	286513.536	4822343.146	24.969
	4172	208.02100	94.99300	44.9720			3586	286513.995	4822345.301	23.541
	4173	207.61100	95.01700	44.7500			3587	286514.281	4822345.644	23.194
	4174	207.03200	95.03100	44.6160			3588	286514.594	4822345.827	23.159
M		0.1000					3589	286515.011	4822345.912	23.139
	4175	204.55300	95.03100	44.7570			3590	Altura Mira		
	4176	204.42000	95.01800	44.0590			3591	286516.726	4822345.615	23.050
	4177	204.07000	94.99800	43.7200			3592	286516.867	4822346.303	23.005
	4178	203.52600	95.01000	43.6560			3593	286517.130	4822346.625	22.992
M		0.1500					3594	286517.505	4822346.666	22.978
	4179	199.68200	94.99300	44.0900			3595	Altura Mira		
	4180	199.19200	94.88400	44.2700			3596	286520.134	4822346.168	22.974
	4181	199.04900	94.88400	44.7210			3597	286520.475	4822345.998	23.064
L		60			60		3598	286520.580	4822345.549	23.100
M		1.3000					3599	Nueva LINEA		
	4182	199.24200	93.31400	45.4710			3600	Altura Mira		
	4183	197.11600	93.34700	45.8250			3601	286520.453	4822344.904	23.127
	4184	196.54900	93.34700	46.0080			3602	286521.978	4822344.593	23.140
	4185	196.19200	93.29900	46.2860			3603	286522.394	4822344.431	23.159
	4186	195.96800	92.87600	46.8500			3604	286522.666	4822344.173	23.223
L		60			60		3605	286522.861	4822343.657	23.592
M		0.0000					3606	Nueva LINEA		
	4187	195.72600	92.53600	46.1180			3607	Altura Mira		
	4188	198.04400	92.83500	45.6620			3608	286522.987	4822344.423	25.055
L		60			60		3609	286521.308	4822344.769	24.788
	4189	199.35900	93.39400	45.4510			3610	Nueva LINEA		
	4190	204.36800	93.37100	44.8900			3611	286520.370	4822344.917	24.368
	4191	205.00800	92.85800	44.8690			3612	286516.854	4822345.580	24.326
	4192	208.21000	92.31200	44.7040			3613	286516.411	4822345.672	24.683
L		60			60		3614	286514.207	4822346.112	25.046
	4193	203.50900	93.59200	43.8000			3615	Nueva LINEA		
	4194	199.73300	93.63000	44.2600			3616	286517.514	4822346.609	24.061
L		99			99		3617	286520.099	4822346.083	24.081
M		1.3000					3618	Nueva LINEA		
	4195	192.55800	93.09800	39.2800			3619	Altura Mira		
	4196	208.05500	93.09200	41.8570			3620	286524.469	4822351.338	22.610
L		40			40		3621	286514.664	4822348.843	22.893
	4197	191.40800	93.40500	39.3510			3622	Nueva LINEA		
	4198	190.05100	94.24500	39.0620			3623	286525.181	4822351.337	22.429
	4199	188.31500	94.72200	37.4040			3624	286525.970	4822351.692	21.886
	4200	171.24500	95.24400	37.6160			3625	286526.718	4822353.471	21.458
	4201	146.32800	96.04800	45.1800			3626	286536.288	4822356.371	21.168
	4202	139.83700	95.45100	49.9850			3627	286553.586	4822360.125	21.163
	4203	129.88500	95.21800	58.7270			3628	286560.326	4822360.917	21.929
	4204	118.65400	97.06300	76.8940			3629	286572.142	4822363.626	22.767
	4205	115.53100	97.31700	85.2710			3630	286593.454	4822367.931	21.907
	4206	112.16200	97.92900	94.5540			3631	286602.588	4822369.538	21.953
	4207	109.15800	98.43800	105.3530			3632	286612.700	4822372.172	21.436
M		0.0000					3633	286624.149	4822375.017	20.945
	4208	106.50500	99.56200	118.2410			3634	Altura Mira		
	4209	104.06900	100.06500	134.1580			3635	286637.537	4822378.054	20.474
	4210	102.53300	100.55600	145.0420			3636	286653.800	4822381.545	19.524
L		60			60		3637	286664.838	4822384.344	18.395
M		1.3000					3638	Nueva LINEA		
	4211	187.82000	102.05900	15.4960			3639	Altura Mira		
							3640	286522.861	4822374.916	17.859

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4212	185.53400	102.12900	14.9330						
	4213	176.93800	102.15800	15.0870						
	4214	175.05500	102.10000	15.6840						
L		6					3641	286523.278	4822375.580	17.861
D	30531	98.68100	100.26000	370.7570	6		3642	286525.260	4822376.021	17.849
L		60					3643	286525.902	4822375.633	17.843
M		0.0000			60		3644	Nueva LINEA		
M	4215	20.24600	85.45800	20.8570			3645	286890.591	4822397.782	16.855
		1.3000					3646	Nueva LINEA		
	4216	21.23500	83.78300	18.8000			3647	Altura Mira		
	4217	22.47000	84.66700	18.0950			3648	286526.270	4822409.417	24.383
	4218	26.11700	85.17500	17.7870			3649	Altura Mira		
	4219	31.59400	85.40600	18.1580			3650	286525.875	4822407.311	23.097
	4220	33.36400	85.17800	17.2280			3651	286525.992	4822406.610	22.676
	4221	34.83700	85.28600	17.2150			3652	286526.820	4822405.991	22.465
	4222	39.61300	85.84900	17.7400			3653	286528.338	4822405.670	22.486
	4223	43.86600	86.20300	18.3220			3654	286528.306	4822404.634	22.335
	4224	44.80700	86.27300	18.6680			3655	286528.637	4822404.431	22.304
	4225	44.63200	86.32900	19.0040			3656	286530.003	4822404.181	22.271
L		60			60		3657	286531.294	4822403.931	22.300
	4226	47.86600	87.09900	20.3740			3658	286531.719	4822404.023	22.354
	4227	49.46100	87.26300	21.0780			3659	286531.895	4822404.309	22.410
M		0.0000					3660	Nueva LINEA		
M	4228	49.48600	86.19900	21.6480			3661	286533.549	4822404.697	22.461
	4229	50.62400	85.09500	21.1140			3662	286534.401	4822404.850	22.549
L		60					3663	286534.746	4822405.190	23.016
L	4230	47.22100	85.23600	20.3750			3664	Altura Mira		
	4231	43.93500	86.19600	18.3510			3665	286534.582	4822404.500	24.558
L		60			60		3666	286533.314	4822404.740	24.343
L	4232	34.76400	85.23700	17.2350			3667	Nueva LINEA		
	4233	22.34000	82.19800	17.7510			3668	286531.327	4822403.941	23.608
	4234	30.24500	83.97600	18.1620			3669	286528.629	4822404.455	23.621
	4235	31.50600	85.17100	18.1780			3670	Nueva LINEA		
L		99			99		3671	286525.783	4822406.142	24.559
M		1.3000					3672	286527.964	4822405.762	24.183
	4236	23.75500	84.03900	15.5570			3673	286528.318	4822405.685	23.856
L		40					3674	Nueva LINEA		
L	4237	53.56100	87.54900	19.7180			3675	Altura Mira		
	4238	20.01100	84.99800	14.7770			3676	286525.412	4822404.154	22.220
L		23					3677	286534.338	4822403.011	22.192
L	4239	16.59900	83.97900	16.1730			3678	Nueva LINEA		
	4240	26.41700	103.37700	7.9860			3679	286524.360	4822403.785	21.810
L		32					3680	286523.956	4822405.255	22.387
L	4241	0.00200	106.31400	9.4400			3681	Nueva LINEA		
	4242	76.54100	102.31200	15.3520			3682	286523.132	4822397.419	17.937
	4243	349.35600	114.73700	2.3000			3683	286519.918	4822399.515	17.425
	4244	292.93700	102.51800	15.7010			3684	Nueva LINEA		
	4245	292.28100	102.36300	29.7640			3685	286534.229	4822395.646	17.803
L		32					3686	286518.318	4822391.688	17.832
	4246	292.04000	103.10300	31.9470			3687	286504.325	4822388.385	17.739
	4247	293.40800	103.25300	32.9730			3688	286490.392	4822386.525	17.256
	4248	289.67600	101.36500	44.1590			3689	286488.257	4822386.143	16.804
	4249	287.98500	100.80700	54.4650			3690	Nueva LINEA		
	4250	286.83000	100.30900	74.6010			3691	286487.163	4822386.719	16.676
	4251	286.60000	100.11500	91.9090			3692	286476.347	4822382.995	17.413
	4252	286.47800	99.93800	114.1150			3693	286466.423	4822379.906	17.670
	4253	286.43900	99.97300	136.6970			3694	286446.907	4822374.802	17.998
	4254	286.33200	99.98700	162.8910			3695	286430.036	4822370.923	18.195
	4255	286.36200	100.01400	186.4190			3696	286408.366	4822366.071	18.472
	4256	286.30700	100.03000	205.2070			3697	286386.308	4822361.230	18.419
	4257	286.37300	100.03000	224.1870			3698	286360.764	4822355.426	18.395
	4258	286.26000	99.94200	231.1700			3699	286337.758	4822350.500	18.321
	4259	286.31500	99.95500	250.4530			3700	286319.437	4822346.334	18.266
	4260	286.46600	99.97500	271.3120			3701	286300.844	4822342.511	18.258
	4261	286.53800	100.01400	281.9380			3702	286294.108	4822340.627	18.574
L		32					3703	286275.226	4822336.710	18.541
	4262	286.79900	99.97400	261.5540			3704	286254.711	4822332.891	18.471
	4263	286.75900	99.94200	238.5980			3705	286244.257	4822330.961	18.303
	4264	286.76100	99.91300	229.9330			3706	Nueva LINEA		
	4265	286.67900	100.02600	224.3890			3707	286263.964	4822336.287	18.471
	4266	286.58900	100.01800	206.5560			3708	286286.459	4822340.865	18.581
	4267	286.69600	100.00800	184.5340			3709	286294.936	4822342.661	18.678
	4268	286.68500	100.03100	167.3200			3710	286300.420	4822343.523	18.272
	4269	286.81300	99.96700	155.9480			3711	286317.926	4822346.940	18.304
	4270	286.91600	99.95900	129.5490			3712	286339.396	4822351.847	18.339
	4271	286.99000	99.92400	119.6170			3713	286356.242	4822355.389	18.280
	4272	287.10600	100.03400	102.2840			3714	286367.301	4822358.057	18.442
	4273	287.66300	100.28400	75.6940			3715	286393.093	4822363.690	18.445
	4274	288.14100	100.59400	63.0840			3716	286402.788	4822365.852	18.504
	4275	289.60500	100.94200	51.3970			3717	286419.723	4822369.551	18.306
	4276	290.61600	101.24000	46.0070			3718	286445.640	4822375.548	18.023
	4277	292.74100	101.86700	39.3140			3719	286457.927	4822378.441	17.772
	4278	294.77900	102.60000	33.9230			3720	286469.209	4822381.770	17.600
	4279	295.06700	103.34000	33.1470			3721	286474.417	4822383.368	17.464
L		32					3722	286480.875	4822385.652	17.207
							3723	286486.136	4822387.346	16.975
							3724	286486.915	4822387.560	16.622
							3725	Nueva LINEA		

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4280	295.85900	102.61600	32.1480			3726	286487.864	4822388.035	17.039
	4281	297.48800	101.95200	22.7920			3727	286497.153	4822389.224	17.661
	4282	302.43700	102.71300	13.8310			3728	286506.109	4822390.651	17.771
	4283	40.23300	106.01800	5.9590			3729	286523.422	4822394.907	17.798
	4284	68.57500	102.29700	15.2930			3730	286533.376	4822397.362	17.808
B	30519	286519.917	4822390.121	18.048			3731	BASE (coord de FICHERO DE BASES)		
L		6					3732	Nueva LINEA		
H		1.6760	1.3000				3733	Altura Aparato y Mira		
O	30518	279.22000	99.77600	269.8140			3734	286264.350	4822303.622	19.382
L		174					3735	Nueva LINEA		
	4285	82.08700	101.52400	17.9060		174	3736	286537.114	4822395.091	17.995
	4286	83.46100	100.74600	36.9420			3737	286555.617	4822399.608	17.991
	4287	83.96200	100.44900	58.5090			3738	286576.578	4822404.702	18.012
	4288	84.27900	100.29900	84.3880			3739	286601.745	4822410.744	18.028
	4289	84.82400	100.25700	108.2410			3740	286625.097	4822415.674	17.988
	4290	85.01700	100.25500	114.4820			3741	286631.243	4822416.810	17.966
	4291	85.45000	100.26100	128.9220			3742	286645.487	4822419.323	17.897
	4292	85.91400	100.26900	142.8810			3743	286659.315	4822421.470	17.822
	4293	86.45900	100.27500	159.0630			3744	286675.395	4822423.690	17.739
L		10				10	3745	Nueva LINEA		
	4294	87.44600	100.25900	159.5810			3746	286676.405	4822421.378	17.776
	4295	87.04400	100.25800	144.9660			3747	286661.891	4822419.412	17.838
	4296	86.61900	100.25600	129.1320			3748	286646.207	4822417.056	17.906
	4297	86.27200	100.25800	111.6610			3749	286628.992	4822414.007	17.972
	4298	86.15200	100.26200	97.3690			3750	286614.992	4822411.129	18.024
	4299	86.14800	100.31800	83.8460			3751	286601.786	4822408.216	18.006
	4300	86.49400	100.43900	58.7460			3752	286577.345	4822402.487	18.019
	4301	86.94500	100.56900	45.2490			3753	286564.217	4822399.332	18.020
L	4302	90.23700	101.30500	18.3790			3754	286538.077	4822392.927	18.047
		32				32	3755	Nueva LINEA		
	4303	78.88800	101.83800	21.8140			3756	286540.534	4822397.219	17.794
	4304	81.56500	100.89600	40.8590			3757	286559.071	4822401.785	17.849
	4305	82.69600	100.59500	61.1770			3758	286578.846	4822406.542	17.852
	4306	83.25900	100.43100	79.9170			3759	286597.086	4822410.890	17.883
	4307	83.72900	100.33100	98.1720			3760	286614.900	4822414.934	17.914
	4308	84.11500	100.32500	108.5340			3761	286625.090	4822416.916	17.871
	4309	84.49600	100.34800	119.7080			3762	286636.092	4822418.980	17.771
	4310	85.01500	100.33000	133.7840			3763	286650.011	4822421.314	17.732
	4311	85.45100	100.33100	146.0920			3764	286662.210	4822423.210	17.666
L	4312	86.03900	100.33100	160.5770			3765	286676.648	4822425.045	17.591
		32				32	3766	Nueva LINEA		
	4313	85.26000	100.33400	161.0870			3767	286676.705	4822427.077	17.581
	4314	84.76500	100.33000	149.2430			3768	286664.906	4822425.488	17.652
	4315	83.98700	100.32700	131.1820			3769	286646.971	4822422.763	17.751
	4316	83.13100	100.33400	111.7360			3770	286627.753	4822419.377	17.839
	4317	82.47600	100.32400	98.4230			3771	286614.635	4822416.867	17.924
	4318	81.86500	100.40600	81.6550			3772	286598.281	4822413.063	17.904
	4319	80.79500	100.56600	63.1860			3773	286580.248	4822408.891	17.863
	4320	79.21900	100.85100	44.4940			3774	286562.058	4822404.385	17.829
	4321	76.56500	101.23500	30.4880			3775	286548.358	4822401.089	17.833
	4322	71.97800	102.02900	19.1780			3776	286537.259	4822398.287	17.813
L		205				205	3777	Nueva LINEA		
	4323	73.64500	98.15900	28.6980			3778	286546.180	4822401.659	19.254
L		23				23	3779	Nueva LINEA		
M		3.1500					3780	Altura Mira		
	4324	66.51500	94.17100	30.9080			3781	286546.536	4822405.572	19.400
L		741				741	3782	Nueva LINEA		
M		2.1500					3783	Altura Mira		
	4325	70.04900	96.72600	39.7300			3784	286555.285	4822408.105	19.616
L		40				40	3785	Nueva LINEA		
M		0.0000					3786	Altura Mira		
	4326	49.65800	88.04400	23.9370			3787	286536.457	4822406.838	24.193
M		1.3000					3788	Altura Mira		
	4327	57.35500	87.82800	24.1430			3789	286538.499	4822404.837	23.012
	4328	63.29000	91.34500	25.1690			3790	286540.822	4822403.716	21.835
	4329	71.17900	97.37600	28.6540			3791	286545.663	4822402.643	19.605
M		0.0000					3792	Altura Mira		
	4330	76.70500	100.38700	41.8260			3793	286558.974	4822405.084	19.470
	4331	78.52500	99.90200	52.5000			3794	286569.459	4822407.494	19.805
	4332	79.32500	99.28500	65.2180			3795	286581.723	4822410.926	20.457
M		0.6000					3796	Altura Mira		
	4333	80.11400	98.69500	79.7120			3797	286595.757	4822414.608	20.758
M		0.5000					3798	Altura Mira		
	4334	80.76400	99.14000	91.9360			3799	286607.681	4822417.472	20.466
M		1.3000					3800	Altura Mira		
	4335	80.74900	98.83100	111.2580			3801	286626.110	4822423.243	20.468
	4336	82.00800	99.23100	127.4490			3802	286642.303	4822425.653	19.965
	4337	83.04200	99.50500	145.0740			3803	286659.872	4822428.301	19.553
	4338	84.26400	99.91100	160.7280			3804	286675.761	4822429.438	18.650
L		23				23	3805	Nueva LINEA		
	4339	85.10200	100.27200	160.8570			3806	286676.390	4822427.413	17.738
	4340	83.71300	100.27000	134.0770			3807	286649.630	4822424.042	17.857
	4341	82.98900	100.32600	112.3090			3808	286628.240	4822419.769	17.850
L		630				630	3809	Nueva LINEA		

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		2.1500								
	4342	85.76600	100.23000	160.5480			3810	Altura Mira		
	4343	85.51500	100.23200	160.5620			3811	286676.469	4822425.710	16.996
L		630				630	3812	286676.341	4822426.330	16.991
	4344	84.12400	100.19800	118.0810			3813	Nueva LINEA		
	4345	83.80200	100.20300	118.2490			3814	286634.346	4822419.257	17.208
L		630				630	3815	286634.360	4822419.878	17.198
	4346	83.17000	100.17600	93.3780			3816	Nueva LINEA		
	4347	82.73100	100.17700	93.4760			3817	286610.052	4822414.515	17.316
L		630				630	3818	286609.976	4822415.162	17.315
	4348	81.93200	100.33400	58.3030			3819	Nueva LINEA		
	4349	81.25600	100.34200	58.3610			3820	286575.888	4822406.443	17.268
L		630				630	3821	286575.767	4822407.054	17.261
	4350	78.66300	100.88800	27.4140			3822	Nueva LINEA		
	4351	77.26000	100.88800	27.5670			3823	286545.804	4822399.136	17.192
L		630				630	3824	286545.742	4822399.757	17.190
	4352	32.45100	106.86900	3.5340			3825	Nueva LINEA		
	4353	27.70900	105.94600	4.0940			3826	286521.632	4822393.188	17.193
L		630				630	3827	286521.636	4822393.817	17.192
	4354	295.03700	101.67100	16.3160			3828	Nueva LINEA		
	4355	297.41900	101.72400	16.4400			3829	286503.656	4822388.852	17.146
L		630				630	3830	286503.497	4822389.456	17.129
	4356	293.31400	102.27800	31.9570			3831	Nueva LINEA		
	4357	294.58600	102.27800	32.0240			3832	286488.156	4822386.775	16.431
L		60				60	3833	286488.029	4822387.404	16.428
M		1.3000					3834	Nueva LINEA		
	4358	290.75100	102.25900	33.0480			3835	Altura Mira		
	4359	290.93200	102.35400	31.5240			3836	286487.238	4822385.341	17.252
L		100				100	3837	286488.733	4822385.651	17.259
M		2.1500					3838	Nueva LINEA		
	4360	290.93000	102.68300	32.3350			3839	Altura Mira		
L		630				630	3840	286487.938	4822385.536	16.212
	4361	294.23500	102.08200	33.0270			3841	Nueva LINEA		
	4362	293.87800	101.43000	34.0970			3842	286487.043	4822387.138	16.494
L		630				630	3843	286485.986	4822386.850	16.808
	4363	289.81500	100.36300	46.4870			3844	Nueva LINEA		
	4364	287.83600	100.02100	60.8170			3845	286474.024	4822382.718	17.309
	4365	287.16500	99.77800	77.8430			3846	286460.206	4822378.574	17.554
	4366	286.91200	99.70200	93.4830			3847	286443.651	4822374.537	17.846
	4367	286.77400	99.60400	114.2150			3848	286428.403	4822371.043	18.012
	4368	286.65500	99.69000	139.3930			3849	286408.159	4822366.569	18.285
	4369	286.50400	99.75700	162.4310			3850	286383.576	4822361.122	18.254
	4370	286.54900	99.79500	177.5070			3851	286361.122	4822355.953	18.196
	4371	286.45700	99.83200	201.1470			3852	286346.357	4822352.904	18.148
	4372	286.52300	99.87300	223.7130			3853	286323.303	4822347.663	18.107
L		630				630	3854	286301.197	4822343.127	18.024
	4373	286.42900	99.87400	232.4010			3855	Nueva LINEA		
	4374	286.58700	99.87400	232.4300			3856	286292.775	4822340.966	18.038
L		630				630	3857	286292.625	4822341.524	18.038
	4375	286.50900	99.94200	257.3720			3858	Nueva LINEA		
	4376	286.61600	99.94200	257.3360			3859	286268.300	4822336.001	17.813
L		750				750	3860	286268.245	4822336.431	17.813
M		1.3000					3861	Nueva LINEA		
	4377	286.19500	99.84500	271.2080			3862	Altura Mira		
L		750				750	3863	286255.059	4822331.785	19.089
	4378	286.21400	99.81800	231.1870			3864	Nueva LINEA		
	4379	286.22900	99.84400	191.1890			3865	286294.128	4822340.461	19.088
L		4				4	3866	286333.182	4822349.096	18.895
	4380	286.85200	99.89800	213.0690			3867	Nueva LINEA		
	4381	286.88100	99.94800	193.3240			3868	286311.374	4822346.440	18.768
	4382	286.89200	100.00400	183.0720			3869	286330.682	4822350.574	18.584
L		86				86	3870	286340.710	4822352.702	18.415
	4383	286.98300	100.00300	162.6860			3871	Nueva LINEA		
	4384	287.09200	99.97300	141.7320			3872	286360.619	4822357.097	18.418
	4385	287.32200	99.96000	114.1200			3873	286381.087	4822361.588	18.485
L		750				750	3874	286408.052	4822367.551	18.497
	4386	286.23800	99.88400	153.1840			3875	Nueva LINEA		
L		40				40	3876	286370.297	4822357.272	18.705
	4387	288.07500	99.59600	112.8190			3877	Nueva LINEA		
	4388	288.56300	99.40600	96.7110			3878	286409.073	4822369.118	19.141
	4389	288.29300	99.67000	85.8970			3879	286424.766	4822372.846	19.327
	4390	288.33000	99.96600	79.0930			3880	286435.469	4822374.419	18.870
	4391	288.06100	100.46100	70.6130			3881	286442.149	4822375.708	18.467
L		750				750	3882	286450.543	4822376.960	17.913
	4392	286.21000	99.88500	115.1780			3883	Nueva LINEA		
L		750				750	3884	286407.430	4822365.373	18.633
	4393	286.30300	100.18400	77.1190			3885	Nueva LINEA		
L		750				750	3886	286444.576	4822373.661	18.201
	4394	287.87500	100.69700	39.2750			3887	Nueva LINEA		
L		205				205	3888	286481.354	4822382.688	17.994
	4395	142.31400	101.07600	42.4660			3889	Nueva LINEA		
L		205				205	3890	286553.337	4822363.930	17.706
	4396	75.73800	101.66700	28.8410			3891	Nueva LINEA		
B	30525	286212.112	4822330.953	17.950			3892	286546.680	4822400.843	17.669



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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		1.6560	1.3000		6					
O	30523	284.39700	97.55900	257.2120			3894	Nueva LINEA		
L		60					3895	Altura Aparato y Mira		
L	4397	253.98700	98.20600	15.9900	60		3896	285962.766 4822268.601		28.169
L	4398	239.32800	98.05100	11.3720			3897	Nueva LINEA		
L	4399	272.35400	98.33600	38.8150	750		3898	286200.124 4822320.381		18.757
L	4400	170.12900	94.08600	8.6840	750		3899	286205.528 4822321.688		18.654
L	4401	96.42400	99.72300	31.9360	32		3900	Nueva LINEA		
L	4402	97.54900	100.29600	25.5040			3901	286176.911 4822314.629		19.321
L	4403	98.56500	101.84500	21.1040			3902	Nueva LINEA		
L	4404	99.98200	99.98700	32.2370	32		3903	286216.021 4822323.241		19.112
L	4405	100.91400	100.24300	25.9630			3904	Nueva LINEA		
L	4406	101.78900	101.79400	19.5800			3905	286243.997 4822332.744		18.445
L	4407	99.13300	101.96500	20.8710	630		3906	286237.597 4822331.933		18.187
L	4408	100.92300	102.06400	19.9480			3907	286233.202 4822331.427		17.694
L	4409	81.42200	99.81200	35.4030	40		3908	Nueva LINEA		
L	4410	89.51300	98.78100	30.4900			3909	286244.349 4822330.960		18.313
L	4411	96.38000	99.50500	26.2250			3910	286238.072 4822330.579		18.207
L	4412	95.25000	98.72800	29.5080			3911	286231.676 4822330.402		17.754
L	4413	93.35600	98.90200	41.2450			3912	Nueva LINEA		
M	4414	91.97200	97.78600	50.7140			3913	286232.971 4822331.236		17.662
M	4415	90.87300	98.18300	60.0660			3914	286232.047 4822330.663		17.659
M	4416	78.02300	100.08600	40.5220	741		3915	Nueva LINEA		
M	4417	69.39200	102.27600	44.2350	85		3916	286246.019 4822341.136		18.411
M	4418	68.55900	102.26100	44.2910			3917	286242.184 4822335.950		18.890
M	4419	68.35700	102.11200	41.5420			3918	286238.294 4822332.442		18.510
M	4420	73.41700	101.94100	33.7830			3919	286241.532 4822333.151		18.896
M	4421	85.87000	102.16400	24.7940			3920	286253.127 4822335.247		19.017
M	4422	90.08800	102.39500	22.1690			3921	Altura Mira		
M	4423	96.93900	102.75400	17.9570			3922	286262.393 4822337.325		19.220
M	4424	102.81100	103.28100	14.9960			3923	286271.538 4822339.528		19.170
M	4425	108.22800	103.77000	12.5420			3924	Nueva LINEA		
M	4426	267.35200	102.72400	14.9420			3925	Altura Mira		
M	4427	277.71500	99.10900	32.3460			3926	286250.244 4822344.663		18.251
M	4428	280.84300	99.35100	51.2720			3927	Nueva LINEA		
M	4429	282.42900	99.50600	73.6040			3928	Altura Mira		
M	4430	282.89800	99.53500	84.0180			3929	286251.308 4822351.396		15.875
M	4431	281.73300	99.53500	84.1050	60		3930	Nueva LINEA		
M	4432	281.73500	99.53500	84.1080			3931	286251.087 4822351.933		15.883
M	4433	281.00600	99.06900	84.1770			3932	286248.608 4822350.749		16.078
M	4434	281.02200	99.50600	84.1210			3933	286242.979 4822344.645		16.426
M	4435	281.00100	99.51300	84.5050			3934	286236.284 4822336.407		16.613
M	4436	280.92500	99.50700	83.1470			3935	286233.997 4822334.387		16.622
M	4437	280.84600	99.50300	81.8160			3936	286230.031 4822331.814		16.679
M	4438	280.90700	99.50000	82.2000	60		3937	286227.073 4822330.291		16.683
M	4439	280.89600	99.68500	82.1240			3938	286224.527 4822329.339		16.714
M	4440	281.66100	99.54300	82.0880			3939	286199.104 4822323.629		16.817
M	4441	281.66100	99.54300	82.0850			3940	Altura Mira		
M	4442	280.97400	99.50700	83.0370	100		3941	286181.730 4822319.863		16.909
M	4443	281.11100	99.50200	73.6410	60		3942	286163.146 4822315.760		16.979
M	4444	279.10400	99.38300	52.4350			3943	286141.295 4822310.899		17.027
M	4445	274.12200	99.08300	30.8560			3944	286131.109 4822308.658		17.070
M	4446	130.42400	98.19900	9.0990			3945	Nueva LINEA		
M	4447	114.68300	98.80500	13.2460			3946	286131.447 4822307.155		17.071
M	4448	98.87600	99.33300	20.0550			3947	Altura Mira		
M	4449	89.79100	101.79100	25.1370			3948	286131.443 4822307.157		18.071
M	4450	85.71200	101.67100	27.3150			3949	286131.661 4822306.216		18.687
M	4451	72.16500	101.65400	38.9040			3950	Altura Mira		
							3951	286131.702 4822306.251		17.069
							3952	Nueva LINEA		
							3953	Altura Mira		
							3954	286131.344 4822306.112		18.953
							3955	286132.671 4822306.416		18.950
							3956	286133.973 4822306.712		18.945
							3957	Nueva LINEA		
							3958	Altura Mira		
							3959	286133.583 4822306.673		17.062
							3960	Altura Mira		
							3961	286133.658 4822306.682		18.713
							3962	Altura Mira		
							3963	286133.407 4822307.637		18.046
							3964	Altura Mira		
							3965	286133.410 4822307.638		17.046
							3966	Nueva LINEA		
							3967	286132.757 4822306.509		17.099
							3968	Nueva LINEA		
							3969	286141.690 4822309.427		17.032
							3970	286162.478 4822314.053		16.964
							3971	286183.773 4822318.756		16.901
							3972	286220.188 4822326.769		16.713
							3973	286225.005 4822327.925		16.705
							3974	286232.163 4822331.306		16.666
							3975	Altura Mira		
							3976	286236.917 4822334.964		16.599
							3977	286238.733 4822337.029		16.589
							3978	286247.345 4822347.419		16.295

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/PT	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4452	70.68800	101.84800	41.4930						
	4453	70.11200	101.99400	44.2230			3979	286249.269	4822349.380	16.102
L							3980	286251.532	4822350.948	15.921
M		2.1500					3981	Nueva LINEA		
	4454	116.60600	98.60600	13.6090			3982	Altura Mira		
	4455	268.36900	98.79000	22.3750			3983	286225.257	4822327.443	17.754
	4456	278.66500	99.29200	54.3660			3984	286192.446	4822320.291	17.881
	4457	281.19500	99.43600	80.2910			3985	286160.773	4822313.076	18.061
							3986	286135.300	4822307.585	18.168
B	30528	285450.646	4821832.996	16.781			3987	BASE (coord de FICHERO DE BASES)		
L		1.6490	1.3000				3988	Nueva LINEA		
H							3989	Altura Aparato y Mira		
O	30515	174.32900	100.53300	59.0930			3990	285473.831	4821778.642	16.634
L							3991	Nueva LINEA		
	4458	61.90800	94.04300	49.4750			3992	285491.348	4821860.740	21.753
	4459	61.63500	94.47000	49.0360			3993	285490.893	4821860.683	21.384
	4460	61.08000	94.92800	48.6660			3994	285490.372	4821860.838	21.003
	4461	59.52200	95.20100	48.2650			3995	285489.370	4821861.574	20.765
L							3996	Nueva LINEA		
	4462	59.57200	95.48800	47.4730			3997	285488.769	4821861.085	20.492
	4463	59.52900	95.50100	47.1440			3998	285488.487	4821860.916	20.459
	4464	59.15300	95.55500	46.8840			3999	285488.116	4821860.986	20.401
	4465	55.75000	95.38200	46.1880			4000	285486.027	4821862.497	20.478
	4466	55.35500	95.30800	46.2270			4001	285485.870	4821862.739	20.534
	4467	54.98400	95.47200	46.4160			4002	285485.846	4821863.072	20.429
	4468	54.66300	95.59400	47.2200			4003	285486.305	4821863.777	20.396
	4469	48.15800	95.76200	46.3360			4004	285482.380	4821866.618	20.212
	4470	48.26100	95.38600	45.5400			4005	285481.876	4821865.977	20.428
	4471	47.83400	95.49900	45.1210			4006	285481.372	4821865.884	20.318
	4472	44.01800	95.60900	44.8340			4007	285479.168	4821867.449	20.220
	4473	43.63100	95.62300	44.9100			4008	285479.006	4821867.681	20.215
	4474	43.28300	95.68800	45.2260			4009	285479.016	4821868.083	20.191
	4475	43.19600	95.81500	45.9750			4010	285479.441	4821868.709	20.150
	4476	40.46100	95.93500	45.9460			4011	285477.867	4821869.894	20.062
	4477	39.72800	96.03100	46.1370			4012	285477.554	4821870.363	20.005
	4478	39.18200	96.00300	46.5510			4013	285477.471	4821870.929	20.051
	4479	38.98000	96.08600	47.0320			4014	285477.628	4821871.409	20.020
	4480	39.09000	96.39100	55.9470			4015	285482.831	4821878.648	20.300
	4481	36.98700	96.27800	55.9660			4016	285481.313	4821879.697	20.400
	4482	36.84400	96.01200	55.0490			4017	285480.700	4821878.988	20.576
	4483	36.38000	95.98800	54.8150			4018	285480.237	4821879.009	20.582
	4484	33.33700	96.19500	54.9700			4019	285478.087	4821880.513	20.414
	4485	32.97200	96.19900	55.1560			4020	285477.906	4821880.831	20.421
	4486	32.84300	96.28900	55.5390			4021	285478.000	4821881.223	20.366
	4487	32.91000	96.45600	56.2020			4022	285478.382	4821881.777	20.257
	4488	27.50700	96.40800	56.9010			4023	285474.439	4821884.584	20.339
	4489	27.33100	96.34700	56.1670			4024	285473.989	4821883.981	20.351
	4490	27.12400	96.27400	55.9230			4025	285473.721	4821883.831	20.401
	4491	26.70300	96.29300	55.8220			4026	285473.344	4821883.891	20.379
	4492	23.75700	96.46700	56.3900			4027	285471.175	4821885.423	20.258
	4493	23.48900	96.43300	56.5860			4028	285471.024	4821885.690	20.299
	4494	23.41900	96.39700	56.9260			4029	285471.088	4821886.027	20.350
L							4030	Nueva LINEA		
	4495	23.37800	96.39400	57.6990			4031	285471.331	4821886.761	20.397
	4496	22.05900	96.38100	57.9600			4032	285470.301	4821887.422	20.423
	4497	21.56100	96.28500	58.2280			4033	285469.962	4821887.822	20.526
L							4034	Nueva LINEA		
M		0.0400					4035	Altura Mira		
	4498	23.89600	95.07900	56.4770			4036	285471.292	4821885.383	22.751
	4499	26.68400	95.04500	55.9520			4037	285473.351	4821883.948	22.741
L							4038	Nueva LINEA		
	4500	33.40600	94.70000	55.1160			4039	285478.165	4821880.530	22.973
	4501	36.34300	94.68600	54.9440			4040	285480.235	4821879.065	22.971
L							4041	Nueva LINEA		
	4502	44.05400	93.04700	45.0230			4042	285479.205	4821867.454	23.298
	4503	47.63400	93.06500	45.2870			4043	285481.276	4821865.988	23.314
L							4044	Nueva LINEA		
	4504	55.77300	92.85700	46.3940			4045	285486.065	4821862.507	23.585
	4505	59.12300	92.97800	47.1130			4046	285488.148	4821861.037	23.576
L							4047	Nueva LINEA		
M		0.0000					4048	Altura Mira		
	4506	59.64400	92.61700	47.2880			4049	285488.492	4821860.815	23.902
	4507	55.31100	92.58000	46.3200			4050	285485.776	4821862.701	23.817
	4508	51.76500	91.14900	45.7580			4051	285483.567	4821864.137	24.771
	4509	48.27800	92.61600	45.1000			4052	285481.456	4821865.516	23.649
	4510	43.56900	92.69400	44.7920			4053	285478.779	4821867.471	23.559
	4511	39.76800	91.88200	44.9190			4054	285476.705	4821869.135	24.143
L							4055	Nueva LINEA		
	4512	37.59900	93.30200	56.1800			4056	285481.760	4821879.400	24.330
	4513	36.97200	94.39300	56.0860			4057	285481.301	4821879.703	23.364
	4514	32.93500	94.53800	56.3350			4058	285478.408	4821881.777	23.258
	4515	30.13900	93.22100	56.7070			4059	285476.357	4821883.179	24.457
	4516	27.49600	94.69900	57.0260			4060	285474.437	4821884.604	23.173
	4517	23.60700	94.91600	57.7430			4061	285471.507	4821886.642	23.037
L							4062	Nueva LINEA		



TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		1.3000								
	4518	223.90200	91.83600	45.9490			4063	Altura Mira		
	4519	225.05700	92.03300	44.9690			4064	285433.933	4821790.600	23.006
	4520	226.24700	91.81100	44.7020			4065	285433.533	4821791.791	22.743
L		60					4066	285432.880	4821792.379	22.864
	4521	226.41400	91.96500	43.9210	60		4067	Nueva LINEA		
	4522	226.50700	92.32200	43.4070			4068	285433.080	4821793.122	22.659
	4523	226.88300	92.27600	43.2280			4069	285433.216	4821793.587	22.353
	4524	230.51200	92.85200	42.4260			4070	285433.058	4821793.856	22.362
	4525	231.12400	92.94100	42.5080			4071	285431.203	4821795.588	21.884
	4526	231.46300	92.98100	42.8100			4072	285430.803	4821795.699	21.834
	4527	231.67100	92.88000	43.4190			4073	285430.461	4821795.539	21.841
	4528	238.77300	92.94300	42.4820			4074	285430.053	4821795.080	21.976
	4529	238.65600	92.82300	41.7960			4075	285426.490	4821798.368	21.830
	4530	238.83300	92.82700	41.3930			4076	285426.948	4821798.890	21.832
	4531	239.34500	92.76000	41.2010			4077	285427.082	4821799.284	21.784
	4532	243.29700	92.74800	40.9380			4078	285426.925	4821799.635	21.806
	4533	243.88900	92.82500	41.1000			4079	285425.066	4821801.374	21.783
	4534	244.13700	92.91300	41.4380			4080	285424.667	4821801.485	21.752
	4535	244.20000	92.95100	42.0870			4081	285424.326	4821801.323	21.734
	4536	248.71300	93.01800	42.0120			4082	285423.880	4821800.851	21.781
	4537	248.99200	91.63800	31.6910			4083	285421.719	4821802.878	21.728
	4538	249.45600	91.83100	31.0130			4084	285428.784	4821810.432	21.281
	4539	251.67100	91.88100	30.5280			4085	285429.082	4821811.063	21.099
	4540	253.08000	91.73000	30.5890			4086	285428.679	4821812.155	21.013
	4541	253.27700	91.83800	29.9280			4087	285428.185	4821812.612	21.093
	4542	253.57800	91.30400	29.6340			4088	285428.604	4821813.116	20.957
	4543	254.47700	91.22200	29.4840			4089	285428.752	4821813.437	21.165
	4544	259.96500	92.06900	29.8560			4090	285428.595	4821813.849	21.183
	4545	260.70400	92.29400	30.1350			4091	285426.688	4821815.571	20.840
	4546	260.75100	92.39800	30.4830			4092	285426.251	4821815.683	20.769
L		60					4093	285425.951	4821815.498	20.761
	4547	260.93700	92.45600	31.1850	60		4094	Nueva LINEA		
	4548	269.88600	93.16200	32.4930			4095	285425.328	4821815.167	20.817
	4549	270.37200	93.21200	31.8530			4096	285421.887	4821818.280	20.613
	4550	271.00900	93.22200	31.5650			4097	285422.342	4821818.784	20.520
	4551	271.77300	93.20300	31.5520			4098	285422.458	4821819.193	20.484
	4552	276.41100	93.06500	32.6110			4099	285422.307	4821819.539	20.492
	4553	276.90700	92.90700	32.9760			4100	285420.428	4821821.259	20.676
	4554	276.85800	92.78400	33.2770			4101	285420.007	4821821.369	20.797
L		60					4102	285419.743	4821821.242	20.894
	4555	276.96700	92.92300	34.0970	60		4103	Nueva LINEA		
	4556	278.73800	92.33800	34.6360			4104	285418.953	4821821.003	20.913
	4557	279.56900	91.74400	35.1940			4105	285418.160	4821821.726	21.289
L		60					4106	285417.529	4821821.989	21.681
M		0.0400					4107	Nueva LINEA		
	4558	276.38100	90.82600	32.8040			4108	Altura Mira		
	4559	271.74900	90.53000	31.7670			4109	285420.390	4821821.228	23.101
L		60					4110	285422.272	4821819.509	23.098
	4560	259.89500	89.09800	30.0930	60		4111	Nueva LINEA		
	4561	254.50200	88.94000	29.6940			4112	285426.684	4821815.528	23.518
L		60					4113	285428.555	4821813.829	23.523
	4562	243.29000	91.23700	41.0870	60		4114	Nueva LINEA		
	4563	239.37900	91.30800	41.3450			4115	285425.054	4821801.351	24.028
L		60					4116	285426.893	4821799.627	24.018
	4564	230.53300	90.94200	42.6090	60		4117	Nueva LINEA		
	4565	226.89200	91.09600	43.3620			4118	285431.182	4821795.578	24.432
L		60					4119	285433.041	4821793.833	24.435
M		0.0000					4120	Nueva LINEA		
	4566	226.15300	90.59800	43.3890			4121	Altura Mira		
	4567	231.08300	90.59500	42.3240			4122	285433.505	4821793.651	24.815
	4568	234.80400	88.74600	42.0420			4123	285431.007	4821796.026	24.660
	4569	238.55200	90.76000	41.3310			4124	285429.128	4821797.643	25.824
	4570	243.92600	90.96400	40.9840			4125	285427.365	4821799.373	24.408
	4571	248.75700	89.57500	41.1270			4126	285424.819	4821801.706	24.228
L		60					4127	285422.518	4821803.751	25.135
	4572	248.18100	85.64800	30.9170	60		4128	Nueva LINEA		
	4573	253.15800	88.49700	30.8210			4129	285429.954	4821811.089	25.341
	4574	260.38100	89.18900	31.3100			4130	285428.169	4821812.648	23.969
	4575	265.55600	87.03400	32.1480			4131	285425.571	4821815.008	23.722
	4576	269.96700	90.09100	32.6340			4132	285423.658	4821816.782	24.932
	4577	274.77400	90.74200	33.6160			4133	285421.927	4821818.346	23.489
L		60					4134	285419.962	4821820.160	23.301
M		1.3000					4135	Nueva LINEA		
	4578	146.68900	103.06700	12.1210			4136	Altura Mira		
	4579	141.50600	103.52700	10.3080			4137	285459.640	4821824.891	16.546
	4580	136.93200	103.71600	10.1290			4138	285458.827	4821826.751	16.559
L		60					4139	285459.103	4821827.453	16.539
	4581	92.54600	106.00500	5.3660	60		4140	Nueva LINEA		
	4582	67.60500	106.22400	5.1450			4141	285455.952	4821833.620	16.625
	4583	62.13200	106.94900	5.7280			4142	285455.118	4821835.490	16.628
L		60					4143	285455.362	4821836.186	16.506
	4584	15.03200	105.24500	9.4170	60		4144	Nueva LINEA		
	4585	10.03300	103.95700	9.5470			4145	285452.842	4821842.121	16.355
	4586	3.76600	102.64700	11.3140			4146	285452.142	4821842.406	16.537
							4147	285451.315	4821844.280	16.660

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L. VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		60			60					
	4587	394.37700	101.97600	18.0860			4148	Nueva LINEA		
	4588	392.10100	101.67200	18.4210			4149	285449.052	4821851.003	16.569
	4589	390.28000	100.68300	20.3640			4150	285448.368	4821851.269	16.646
							4151	285447.550	4821853.122	16.912
B	30531	286890.594	4822397.781	16.860			4152	BASE (coord de FICHERO DE BASES)		
L		6			6		4153	Nueva LINEA		
H		1.6340	1.3000				4154	Altura Aparato y Mira		
O	30519	298.68100	99.85600	370.7590			4155	286519.917	4822390.121	18.048
L		60			60		4156	Nueva LINEA		
	4590	356.24900	92.79300	33.3760			4157	286869.557	4822423.417	20.964
	4591	356.28600	93.44800	32.8240			4158	286869.897	4822423.033	20.566
	4592	357.27000	94.34800	32.1140			4159	286870.702	4822422.831	20.041
M		2.1500					4160	Altura Mira		
M	4593	363.54200	92.86900	31.0690			4161	286873.865	4822423.730	19.817
		1.3000					4162	Altura Mira		
	4594	363.10600	94.75400	30.2960			4163	286874.061	4822423.045	19.688
	4595	363.09900	94.67800	29.9880			4164	286874.228	4822422.784	19.698
	4596	363.91400	94.66900	29.6280			4165	286874.742	4822422.689	19.672
	4597	371.17200	94.64100	28.8360			4166	286878.024	4822423.620	19.619
	4598	372.06500	94.89900	28.9050			4167	286878.354	4822423.864	19.508
	4599	372.50500	94.99800	29.1170			4168	286878.445	4822424.143	19.479
	4600	372.82200	94.99200	29.9390			4169	286878.237	4822424.949	19.547
	4601	382.91700	94.59900	29.5740			4170	286882.783	4822426.194	19.700
	4602	382.78800	93.69700	22.9370			4171	286884.499	4822419.777	19.461
	4603	383.05900	93.59600	21.9550			4172	286884.710	4822419.372	19.453
	4604	384.62200	93.41800	21.8420			4173	286885.371	4822418.985	19.460
	4605	386.00500	93.29200	22.3610			4174	286885.859	4822418.979	19.491
	4606	396.56800	93.45400	21.6990			4175	286889.397	4822419.992	19.489
	4607	396.98800	93.19800	21.3970			4176	286889.575	4822419.332	19.508
	4608	397.66400	93.21800	21.3360			4177	286889.815	4822419.042	19.469
	4609	398.94000	93.16300	22.4510			4178	286890.242	4822418.991	19.481
	4610	8.41800	92.55500	22.7360			4179	286893.535	4822419.884	19.814
	4611	9.32100	92.30500	23.1730			4180	286893.888	4822420.109	19.936
	4612	9.34400	92.14700				4181	286893.959	4822420.530	20.045
L		60			60		4182	Nueva LINEA		
	4613	9.60800	92.25800	23.9470			4183	286894.169	4822421.281	20.099
	4614	12.73900	91.88100	24.5390			4184	286895.433	4822421.635	20.315
	4615	15.83500	90.23200	25.2530			4185	286896.739	4822421.969	21.054
	4616	16.89000	89.44200	25.6560			4186	286897.230	4822422.199	21.429
	4617	17.32100	89.12400	26.0810			4187	286897.502	4822422.536	21.628
L		60			60		4188	Nueva LINEA		
M		0.0000					4189	Altura Mira		
	4618	18.23600	87.97400	26.0180			4190	286897.816	4822422.294	23.380
	4619	12.58500	88.05900	24.7310			4191	286895.367	4822421.605	23.106
	4620	8.62300	89.45800	23.8700			4192	286893.775	4822421.109	22.429
	4621	396.58300	88.67000	22.5750			4193	286889.403	4822419.967	22.491
	4622	383.18000	85.65400	22.1980			4194	286884.945	4822418.667	23.454
L		60			60		4195	Nueva LINEA		
	4623	382.91400	90.27000	29.8070			4196	286882.784	4822426.186	23.032
	4624	374.54800	90.90200	30.0490			4197	286879.019	4822425.179	22.774
	4625	372.64700	92.38200	30.0570			4198	286878.165	4822424.911	22.082
	4626	363.55900	92.69900	31.0940			4199	286873.864	4822423.748	22.052
	4627	360.94200	91.53700	31.5630			4200	286872.583	4822423.361	22.678
	4628	355.77900	91.25300	32.7620			4201	286869.822	4822422.716	22.981
L		60			60		4202	Nueva LINEA		
	4629	363.94300	92.82600	29.7710			4203	286874.722	4822422.745	21.842
	4630	371.15500	92.60500	28.9790			4204	286877.995	4822423.661	21.853
L		60			60		4205	Nueva LINEA		
	4631	398.93200	88.88600	21.5730			4206	286890.239	4822419.023	22.241
	4632	8.38800	89.41700	22.6470			4207	286893.530	4822419.922	22.241
L		60			60		4208	Nueva LINEA		
M		1.3000					4209	Altura Mira		
	4633	283.14800	105.53300	7.5460			4210	286883.338	4822395.815	16.539
	4634	269.10200	107.62800	5.5290			4211	286885.738	4822395.220	16.533
	4635	258.64400	107.64300	5.6020			4212	286886.165	4822394.417	16.523
L		60			60		4213	Nueva LINEA		
	4636	144.31700	104.15000	9.6990			4214	286898.020	4822391.574	16.562
	4637	138.80500	103.89200	9.9750			4215	286898.757	4822392.081	16.585
	4638	134.16600	103.05300	12.3710			4216	286901.213	4822391.463	16.601
L		60			60		4217	Nueva LINEA		
	4639	205.05500	87.75800	37.9030			4218	286887.641	4822360.694	24.438
	4640	203.87900	88.58100	37.3150			4219	286888.356	4822361.133	23.851
	4641	199.24900	90.53900	36.3430			4220	286891.016	4822361.841	22.575
L		60			60		4221	Nueva LINEA		
	4642	199.14900	90.59800	35.6460			4222	286891.063	4822362.526	22.439
	4643	199.02200	90.82300	35.1600			4223	286891.127	4822362.990	22.245
	4644	198.41700	91.12700	34.9280			4224	286891.452	4822363.202	22.046
	4645	192.21500	91.03600	34.2610			4225	286894.730	4822364.112	22.002
	4646	191.40500	91.02300	34.3780			4226	286895.173	4822364.054	22.026
	4647	191.01700	90.99100	34.7150			4227	286895.425	4822363.754	22.090
	4648	190.91600	90.88900	35.4000			4228	286895.575	4822363.099	22.243
	4649	184.70200	90.87800	35.0830			4229	286898.856	4822364.055	22.204
	4650	182.94300	90.98500	35.4330			4230	286899.879	4822363.954	22.195
	4651	182.31500	91.18900	36.2330			4231	286900.433	4822363.270	22.193



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4652	182.31500	92.59800	42.8160						
	4653	175.34200	92.67700	43.1010			4232	286902.254	4822356.884	22.161
	4654	175.22000	92.63100	42.4260			4233	286906.764	4822358.136	22.141
	4655	174.87000	92.59600	42.0300			4234	286906.584	4822358.790	22.094
	4656	174.25100	92.61600	41.9630			4235	286906.646	4822359.245	22.071
	4657	169.17100	92.83600	42.5260			4236	286906.994	4822359.462	22.050
	4658	168.57400	92.88700	42.8020			4237	286910.265	4822360.382	21.970
	4659	168.53200	92.87300	43.1640			4238	286910.746	4822360.323	21.966
L		60			60		4239	286910.941	4822360.020	22.016
	4660	168.38000	92.97000	43.8720			4240	Nueva LINEA		
M	4661	164.61700	93.07000	44.5390			4241	286911.370	4822359.444	22.029
		0.0000					4242	286913.952	4822360.169	22.033
L	4662	163.44200	95.02000	45.0650			4243	Altura Mira		
		60			60		4244	286914.997	4822360.059	22.016
	4663	163.02200	88.84200	45.2350			4245	Nueva LINEA		
L	4664	166.42200	88.97400	44.6140			4246	286915.033	4822360.543	26.382
		60			60		4247	286912.711	4822359.806	26.183
	4665	168.79700	89.86200	44.0630			4248	Nueva LINEA		
	4666	175.24200	89.57600	43.3600			4249	286911.072	4822359.396	25.481
	4667	176.12800	88.66800	43.4410			4250	286906.813	4822358.195	25.562
L	4668	182.32900	88.16200	43.2540			4251	286906.251	4822357.996	26.186
		60			60		4252	286902.240	4822356.899	26.491
	4669	182.23900	86.19000	35.8480			4253	Nueva LINEA		
	4670	189.44700	86.66900	35.7000			4254	286900.233	4822364.126	26.210
	4671	191.05300	87.86900	35.6500			4255	286896.354	4822363.339	25.915
	4672	198.79300	88.28600	36.4880			4256	286895.495	4822363.121	25.246
	4673	200.99300	87.26400	36.9630			4257	286891.272	4822361.915	25.170
L	4674	205.68600	87.10300	37.9100			4258	286890.027	4822361.560	25.840
		60			60		4259	286887.280	4822360.795	26.122
L	4675	198.34500	88.26900	35.2100			4260	Nueva LINEA		
	4676	192.19600	88.04100	34.5480			4261	286891.492	4822363.179	24.946
L		60			60		4262	286894.742	4822364.095	24.946
	4677	174.26000	89.72800	42.2540			4263	Nueva LINEA		
	4678	169.19100	89.88800	42.7930			4264	286906.998	4822359.438	25.282
B	30064	286525.686	4822403.116	25.059			4265	286910.252	4822360.378	25.263
L		6			6		4266	BASE (coord de FICHERO DE BASES)		
H		1.6250	1.5000				4267	Nueva LINEA		
O	30063	288.02400	99.74500	595.7550			4268	Altura Aparato y Mira		
L		60			60		4269	285940.440	4822291.748	27.586
M		3.1900					4270	Nueva LINEA		
	4679	279.37600	100.97300	407.9950			4271	Altura Mira		
M		2.1500					4272	286138.951	4822273.286	17.269
	4680	279.37300	100.88100	408.0470			4273	Altura Mira		
M	4681	278.80500	100.87500	409.4270			4274	286138.900	4822273.248	18.898
		3.1900					4275	286138.769	4822269.351	18.918
L	4682	278.80500	100.90300	409.3240			4276	Altura Mira		
		60			60		4277	286138.869	4822269.386	17.699
M	4683	279.34200	100.96600	406.0380			4278	Nueva LINEA		
		2.1500					4279	286140.874	4822273.703	17.344
	4684	279.34800	100.88300	405.9440			4280	Altura Mira		
M	4685	278.79200	100.88300	405.5090			4281	286140.944	4822273.766	18.915
		3.1900					4282	286142.499	4822270.553	18.921
L	4686	278.77600	100.88300	405.5710			4283	Altura Mira		
		60			60		4284	286142.474	4822270.437	17.880
L	4687	279.35900	100.97200	407.0220			4285	Nueva LINEA		
		60			60		4286	286139.908	4822273.492	17.291
M		2.1500					4287	Nueva LINEA		
	4688	279.39300	100.85100	408.3190			4288	Altura Mira		
	4689	279.37400	100.85100	407.0020			4289	286138.599	4822273.282	19.087
	4690	279.35000	100.85000	405.6500			4290	286139.886	4822273.586	19.104
L		6			6		4291	286141.216	4822273.871	19.129
M		1.3000					4292	Nueva LINEA		
D	30065	95.36600	100.43700	344.6390			4293	Altura Mira		
L		30			30		4294	286869.405	4822428.154	23.026
M		2.1500					4295	Nueva LINEA		
	4691	212.59600	98.96600	61.5500			4296	Altura Mira		
	4692	215.64200	100.08500	62.8030			4297	286513.584	4822342.776	25.534
	4693	218.12900	101.55900	63.9630			4298	286510.405	4822342.201	24.450
	4694	221.16100	101.58800	65.4370			4299	286507.717	4822341.749	22.968
M		3.1500					4300	286504.335	4822341.282	22.902
	4695	230.91900	100.53300	72.5600			4301	Altura Mira		
M		2.1500					4302	286491.811	4822338.952	22.927
	4696	245.16300	100.65600	92.0740			4303	Altura Mira		
	4697	252.69800	100.26300	110.3890			4304	286465.708	4822333.264	23.586
	4698	257.69100	100.11600	128.2140			4305	286444.388	4822328.443	24.079
	4699	261.86300	100.30900	148.4000			4306	286424.754	4822324.050	24.301
L		4			4		4307	286403.123	4822319.449	23.815
	4700	255.68400	100.07700	165.9410			4308	Nueva LINEA		
L	4701	260.59500	100.23200	153.5390			4309	286398.346	4822296.718	24.335
		4			4		4310	286400.627	4822314.043	23.976
	4702	249.34900	99.24000	150.5440			4311	Nueva LINEA		
	4703	255.95400	99.78700	138.2120			4312	286420.329	4822295.598	26.333
L		4			4		4313	286419.250	4822314.948	24.998
	4704	243.14700	98.76900	137.4280			4314	Nueva LINEA		
							4315	286439.521	4822296.089	27.192



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4705	251.07200	99.63000	122.6480						
L		4			4		4316	286437.508	4822317.872	25.248
	4706	232.67800	98.42400	120.6680			4317	Nueva LINEA		
	4707	241.28700	99.56800	102.0680			4318	286466.442	4822298.036	27.522
L		4			4		4319	286464.031	4822321.778	25.227
	4708	221.13500	98.68900	107.7980			4320	Nueva LINEA		
	4709	228.37700	99.89500	83.8990			4321	286490.552	4822301.229	26.755
L		4			4		4322	286489.509	4822327.418	24.673
	4710	219.66800	100.06400	79.0250			4323	Nueva LINEA		
L		40			40		4324	286501.653	4822327.835	24.455
	4711	218.81400	101.43100	65.5070			4325	Nueva LINEA		
	4712	217.16200	100.41100	70.9810			4326	286506.608	4822340.466	23.062
	4713	215.76500	99.85000	80.5670			4327	286506.777	4822334.702	24.076
	4714	216.01400	99.26400	90.3070			4328	286505.932	4822325.009	24.724
	4715	215.69200	99.07600	101.6020			4329	286503.203	4822315.659	25.579
L		23			23		4330	286500.890	4822304.598	26.009
	4716	214.07200	99.68200	100.6830			4331	Nueva LINEA		
	4717	214.04400	100.07900	91.6090			4332	286503.605	4822304.886	25.038
	4718	214.74700	100.51100	78.4810			4333	286505.634	4822313.729	24.421
	4719	216.06400	101.05300	70.6040			4334	286507.663	4822326.735	23.904
	4720	217.50500	101.34200	66.7190			4335	286508.056	4822334.759	23.367
L		23			23		4336	286507.570	4822338.919	23.128
	4721	216.94900	101.52800	65.6660			4337	Nueva LINEA		
	4722	215.29200	100.87900	72.1790			4338	286508.410	4822339.783	22.958
	4723	214.43800	100.60500	77.5900			4339	286508.511	4822333.018	23.538
	4724	213.69900	100.09500	89.4460			4340	286508.235	4822327.518	23.797
	4725	213.54700	99.78100	98.5180			4341	286506.581	4822315.735	24.401
L		643			643		4342	286504.873	4822306.823	24.874
	4726	214.77000	99.29900	105.6480			4343	Nueva LINEA		
	4727	214.74900	99.76500	91.3940			4344	286501.388	4822300.307	25.698
	4728	214.78100	100.46400	78.4380			4345	286504.695	4822314.166	24.872
	4729	213.94700	100.20700	76.5150			4346	286507.632	4822326.786	23.963
L		40			40		4347	286509.052	4822328.432	24.286
	4730	214.12600	99.49400	62.7240			4348	Nueva LINEA		
	4731	213.16700	99.45200	72.8330			4349	286511.878	4822341.933	25.033
	4732	212.39200	99.37400	81.4460			4350	286510.725	4822331.839	25.161
L		60			60		4351	286509.927	4822323.213	25.335
M		1.3000					4352	Nueva LINEA		
	4733	211.36000	99.90100	61.6180			4353	Altura Mira		
	4734	211.05300	100.05800	47.5400			4354	286514.745	4822342.478	25.480
	4735	210.58900	100.34200	33.2480			4355	286517.470	4822356.292	25.341
	4736	209.40600	101.00600	18.7800			4356	286520.179	4822370.328	25.205
	4737	200.88700	105.66800	4.6230			4357	286522.920	4822384.543	25.087
	4738	19.97300	105.01200	6.5780			4358	286525.622	4822398.512	24.973
L		60			60		4359	286527.710	4822409.353	24.867
	4739	5.89200	103.58900	6.5220			4360	Nueva LINEA		
	4740	388.93100	111.26400	1.8690			4361	286526.288	4822409.600	25.017
	4741	215.18200	101.07800	12.5750			4362	286525.368	4822404.928	25.055
	4742	213.63500	100.22100	27.4910			4363	286522.715	4822390.899	25.171
	4743	213.08500	99.99700	40.0030			4364	286519.841	4822376.254	25.289
	4744	212.81600	99.86600	56.8700			4365	286517.519	4822363.956	25.386
	4745	212.77500	99.85700	61.5800			4366	286514.310	4822347.396	25.504
L		60			60		4367	286513.407	4822342.773	25.523
	4746	204.65300	99.91000	62.0750			4368	Nueva LINEA		
	4747	202.38900	100.06300	47.3200			4369	286521.148	4822341.207	25.472
	4748	198.58500	100.30000	34.1390			4370	286523.907	4822355.830	25.337
	4749	180.68400	101.38300	15.2110			4371	286526.442	4822368.986	25.223
	4750	65.79400	103.55000	9.6860			4372	286530.229	4822388.603	25.054
L		60			60		4373	286533.995	4822408.065	24.844
	4751	71.36000	102.33300	10.7640			4374	Nueva LINEA		
	4752	100.08900	102.43200	8.7960			4375	286535.373	4822407.793	24.990
	4753	175.38500	100.79900	15.7640			4376	286534.476	4822403.103	25.048
	4754	192.83700	100.19400	28.9650			4377	286531.629	4822388.517	25.186
	4755	198.76200	99.98200	41.3050			4378	286528.936	4822374.334	25.296
	4756	202.52200	99.83400	57.5200			4379	286526.486	4822361.819	25.396
	4757	203.27800	99.82400	62.1840			4380	286523.404	4822345.642	25.534
L		10			10		4381	286522.481	4822341.015	25.556
	4758	211.09800	99.90400	61.7960			4382	Nueva LINEA		
	4759	210.03700	100.44200	29.4350			4383	286514.963	4822342.258	25.477
	4760	21.86100	105.04700	6.5410			4384	286521.062	4822374.047	25.180
	4761	14.12800	102.27900	27.8980			4385	286527.882	4822409.256	24.866
	4762	13.44100	102.42700	40.4080			4386	286531.825	4822430.312	24.386
L		10			10		4387	286534.151	4822442.597	23.844
	4763	23.21600	102.44800	40.7800			4388	Nueva LINEA		
	4764	32.66300	102.24600	22.3270			4389	286540.222	4822441.185	23.816
	4765	103.77000	104.03900	7.1470			4390	286536.640	4822422.555	24.596
	4766	195.33200	100.54700	27.2450			4391	286532.806	4822402.693	24.931
	4767	204.42400	99.95200	58.6110			4392	286527.680	4822375.945	25.150
L		178			178		4393	286521.612	4822344.647	25.428
	4768	8.03300	105.03900	7.3180			4394	Nueva LINEA		
	4769	11.71800	102.74000	17.1600			4395	286526.605	4822410.353	24.805
	4770	12.39600	102.33300	31.3480			4396	286528.825	4822419.970	24.646
	4771	12.65700	102.49100	41.8430			4397	286531.750	4822433.850	24.236
L		178			178		4398	286533.947	4822444.103	23.747
	4772	23.41600	102.49300	42.2140			4399	Nueva LINEA		
							4400	286540.857	4822442.475	23.731

# -ISPOL- Libreta Topografica  
 # ---- Datos de Entrada ----  
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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4773	30.47200	102.25200	27.4240			4401	286538.311	4822427.442	24.414
	4774	45.42100	102.61300	16.5040			4402	286536.479	4822415.583	24.707
	4775	66.14500	103.41700	11.1800			4403	286535.309	4822408.776	24.784
L		40			40		4404	Nueva LINEA		
	4776	74.15400	104.49000	11.8420			4405	286536.539	4822407.780	24.549
	4777	46.82900	102.93900	18.1190			4406	286537.832	4822416.535	24.548
	4778	26.33500	102.63100	37.5890			4407	286540.785	4822437.504	23.831
	4779	23.47000	102.79300	46.8580			4408	286542.559	4822446.782	23.329
L		23			23		4409	Nueva LINEA		
M		4.3000					4410	Altura Mira		
	4780	81.20800	107.78800	21.9420			4411	286546.522	4822409.450	19.706
M		5.1900					4412	Altura Mira		
	4781	60.77300	105.24600	26.6840			4413	286547.390	4822418.483	19.298
M		5.5000					4414	Altura Mira		
	4782	38.45500	105.25800	47.7830			4415	286552.736	4822442.307	17.242
L		741			741		4416	Nueva LINEA		
M		5.1900					4417	Altura Mira		
	4783	64.32000	104.93900	24.9840			4418	286546.785	4822416.355	19.558
L		3			3		4419	Nueva LINEA		
M		4.1900					4420	Altura Mira		
	4784	78.48100	105.75400	32.5860			4421	286556.303	4822413.876	19.553
	4785	66.35300	106.63900	34.7650			4422	286555.545	4822420.549	18.875
M		5.1900					4423	Altura Mira		
	4786	58.90700	105.88100	38.1710			4424	286556.049	4822425.979	17.973
M		5.5000					4425	Altura Mira		
	4787	49.02100	104.98100	47.9000			4426	286558.932	4822437.395	17.440
L		4			4		4427	Nueva LINEA		
M		4.1900					4428	Altura Mira		
	4788	75.13100	103.47500	50.0000			4429	286571.852	4822422.123	19.766
	4789	73.79500	102.36200	65.7820			4430	286585.934	4822429.413	20.054
L		4			4		4431	Nueva LINEA		
	4790	61.93900	102.90200	70.5320			4432	286583.926	4822442.771	19.280
	4791	59.86000	103.91000	57.1380			4433	286571.753	4822436.735	18.987
L		30			30		4434	Nueva LINEA		
M		2.1500					4435	Altura Mira		
	4792	76.14600	100.68500	11.8570			4436	286536.720	4822407.454	24.406
M		5.1900					4437	Altura Mira		
	4793	85.55300	105.67000	21.3740			4438	286546.430	4822407.904	19.593
M		4.1900					4439	Altura Mira		
	4794	83.42400	105.55100	33.3730			4440	286557.812	4822411.673	19.588
M		2.1500					4441	Altura Mira		
	4795	81.57000	105.96000	47.3190			4442	286570.838	4822416.562	20.111
M		2.0000					4443	Altura Mira		
	4796	81.96500	104.67800	58.3200			4444	286581.531	4822419.369	20.403
B	30065	286869.404	4822428.150	23.022			4445	BASE (coord de FICHERO DE BASES)		
L		6			6		4446	Nueva LINEA		
H		1.6400	1.3000				4447	Altura Aparato y Mira		
O	30064	295.36600	99.68700	344.6340			4448	286525.686	4822403.116	25.059
L		6			6		4449	Nueva LINEA		
M		1.5000					4450	Altura Mira		
D	30067	283.95200	99.00500	1079.2980			4451	285824.326	4822159.076	40.107
B	30067	285824.320	4822159.065	40.100			4452	BASE (coord de FICHERO DE BASES)		
L		6			6		4453	Nueva LINEA		
H		1.5710	1.5000				4454	Altura Aparato y Mira		
O	30065	83.95200	101.01500	1079.3030			4455	286869.404	4822428.150	23.022
L		6			6		4456	Nueva LINEA		
M		1.3000					4457	Altura Mira		
D	30066	279.35700	102.39800	449.1760			4458	285398.845	4822016.090	23.469
B	30066	285398.839	4822016.092	23.465			4459	BASE (coord de FICHERO DE BASES)		
L		6			6		4460	Nueva LINEA		
H		1.6210	1.3000				4461	Altura Aparato y Mira		
O	30067	79.35700	97.68800	449.1530			4462	285824.320	4822159.065	40.100
L		6			6		4463	Nueva LINEA		
D	30004	244.03400	98.11100	1256.1390			4464	284597.903	4821049.150	61.157
L		60			60		4465	Nueva LINEA		
M		5.5000					4466	Altura Mira		
	4797	236.89000	102.24200	90.8910			4467	285349.094	4821940.090	16.386
M		4.1900					4468	Altura Mira		
	4798	236.89000	101.47700	90.9140			4469	285349.063	4821940.044	18.787
	4799	236.96900	102.16000	92.6250			4470	285348.046	4821938.700	17.754
M		5.4900					4471	Altura Mira		
	4800	236.96300	102.16000	92.6080			4472	285348.063	4821938.709	16.455
L		60			60		4473	Nueva LINEA		
	4801	239.60200	102.31300	90.5370			4474	285346.110	4821942.568	16.308
M		4.1900					4475	Altura Mira		
	4802	239.64900	101.48400	90.5320			4476	285346.038	4821942.583	18.786
	4803	239.73800	102.17300	92.2380			4477	285344.956	4821941.296	17.749
M		5.5000					4478	Altura Mira		
	4804	239.73900	102.17300	92.2340			4479	285344.957	4821941.300	16.439
L		60			60		4480	Nueva LINEA		
M		4.1900					4481	Altura Mira		
	4805	239.91600	101.19000	90.4150			4482	285345.794	4821942.892	19.207

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4806	238.24300	101.18500	90.6400						
	4807	236.55500	101.18500	90.8530			4483	285347.609	4821941.338	19.209
L		632					4484	285349.493	4821939.827	19.206
M		5.5000			632		4485	Nueva LINEA		
	4808	238.21400	102.31000	90.7370			4486	Altura Mira		
L		40					4487	285347.613	4821941.271	16.295
M		4.1900			40		4488	Nueva LINEA		
	4809	244.18500	101.21300	93.2560			4489	Altura Mira		
	4810	243.52800	101.18300	106.6300			4490	285339.192	4821944.428	19.120
	4811	240.27900	101.12900	121.4440			4491	285331.486	4821933.451	18.915
M		4.5000					4492	285327.029	4821918.177	18.743
	4812	230.03900	100.27200	215.2160			4493	Altura Mira		
M		2.5000					4494	285301.000	4821824.404	19.670
	4813	231.31900	100.42900	274.7690			4495	Altura Mira		
L		742					4496	285269.034	4821773.926	20.739
M		5.5000			742		4497	Nueva LINEA		
	4814	232.42700	99.59800	273.9450			4498	Altura Mira		
L		4					4499	285265.240	4821776.940	21.321
M		1.3000			4		4500	Nueva LINEA		
	4815	238.04200	100.52300	265.3010			4501	Altura Mira		
	4816	238.48500	100.81400	228.6020			4502	285249.560	4821796.786	21.611
L		4					4503	285268.904	4821828.031	20.867
	4817	238.20200	101.49000	177.4890			4504	Nueva LINEA		
L		4					4505	285298.625	4821869.661	19.634
	4818	241.77800	102.18000	143.6030			4506	Nueva LINEA		
L		4					4507	285311.262	4821902.392	18.871
M		4.1900			4		4508	Nueva LINEA		
	4819	246.30900	101.05600	111.9280			4509	Altura Mira		
L		40					4510	285324.416	4821932.512	19.040
	4820	238.25400	100.75900	86.7770			4511	Nueva LINEA		
	4821	243.46300	100.93800	85.5480			4512	285349.775	4821944.525	19.862
L		630					4513	285344.867	4821949.731	19.636
M		5.1900			630		4514	Nueva LINEA		
	4822	240.63100	102.16200	92.6440			4515	Altura Mira		
M		4.1900					4516	285343.670	4821941.733	16.751
	4823	243.95700	100.95400	85.9570			4517	Altura Mira		
M		2.1500					4518	285344.093	4821949.836	19.608
	4824	246.58100	102.24400	81.6010			4519	Altura Mira		
M		2.2000					4520	285344.348	4821955.420	20.061
	4825	253.74200	102.02800	73.4750			4521	Altura Mira		
M		2.1500					4522	285343.946	4821967.309	20.546
	4826	263.88100	101.45500	67.3400			4523	Altura Mira		
L		30					4524	285342.061	4821979.918	21.397
M		4.1900			30		4525	Nueva LINEA		
	4827	224.54100	100.78400	166.8110			4526	Altura Mira		
M		3.0000					4527	285336.108	4821861.540	18.844
	4828	227.71100	101.59300	126.9210			4528	Altura Mira		
M		4.1900					4529	285345.328	4821901.047	18.911
	4829	233.93700	101.66900	97.6370			4530	Altura Mira		
M		2.1500					4531	285349.231	4821932.036	18.337
	4830	236.44700	102.23300	89.2040			4532	Altura Mira		
	4831	239.76600	102.14500	85.0410			4533	285350.537	4821941.163	19.808
M		3.1500					4534	285349.129	4821947.153	20.072
	4832	253.45000	101.44500	81.7150			4535	Altura Mira		
	4833	258.53100	101.41600	81.4790			4536	285338.024	4821961.545	20.082
M		2.1500					4537	285334.056	4821966.710	20.124
	4834	269.10100	100.55500	74.4450			4538	Altura Mira		
	4835	284.38000	97.42900	73.2170			4539	285332.992	4821981.369	22.287
	4836	304.89400	94.97700	79.2200			4540	285327.871	4821998.328	25.892
	4837	314.64700	94.74300	85.5520			4541	285320.100	4822022.164	29.180
L		40					4542	285315.827	4822035.543	29.993
	4838	313.70900	94.79300	83.5120			4543	Nueva LINEA		
	4839	302.66000	95.28400	75.1640			4544	285317.530	4822033.884	29.759
	4840	287.89400	97.19300	68.2770			4545	285323.947	4822019.230	28.499
	4841	275.86200	99.57900	66.0220			4546	285331.857	4822003.205	25.946
	4842	269.69900	100.90300	66.6280			4547	285337.506	4821991.661	23.373
L		32					4548	285339.620	4821985.571	21.991
	4843	269.50400	100.81800	66.1210			4549	Nueva LINEA		
	4844	284.88600	100.02000	65.0810			4550	285340.163	4821985.623	22.087
	4845	307.80100	99.17900	71.6110			4551	285335.582	4822000.791	22.916
	4846	324.22700	98.67100	84.1700			4552	285327.772	4822024.851	23.860
L		32					4553	285320.711	4822047.356	24.693
	4847	325.20900	98.55300	82.8150			4554	Nueva LINEA		
	4848	306.11500	99.15800	68.6140			4555	285322.455	4822048.033	24.819
	4849	290.28600	99.71300	63.8000			4556	285330.548	4822022.678	23.844
	4850	277.36200	100.21000	63.2080			4557	285335.780	4822006.400	23.224
	4851	269.07400	100.54300	64.7430			4558	285339.584	4821994.091	22.728
L		630					4559	285341.586	4821985.870	22.384
	4852	269.25000	101.07300	65.2700			4560	Nueva LINEA		
	4853	269.45400	101.06300	65.8600			4561	285341.042	4821985.786	21.836
L		630					4562	285340.422	4821985.699	21.837
	4854	294.22800	100.23600	65.2150			4563	Nueva LINEA		
	4855	294.18300	100.25900	65.8240			4564	285333.892	4822010.193	22.695
L		630					4565	285333.290	4822010.092	22.668
	4856	318.85700	99.29900	77.4040			4566	Nueva LINEA		
							4567	285324.813	4822038.691	23.789

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L	4857	318.80700 630	99.32600	78.1180	630		4568	285324.112	4822038.841	23.763
	4858	329.17300	98.92200	88.4400			4569	Nueva LINEA		
L	4859	328.60400 750	98.96400	88.5380	750		4570	285319.539	4822055.217	24.434
	4860	359.19800 750	98.18600	55.8250	750		4571	285319.103	4822054.550	24.377
M	4861	250.24200 1.3000	101.90600	71.7690	4		4572	Nueva LINEA		
	4862	244.02900 4	101.57000	79.0610	40		4573	285365.477	4822060.823	24.527
L	4863	236.86800	101.69600	85.6540			4574	Nueva LINEA		
	4864	233.22600	101.65600	92.0440			4575	Altura Mira		
	4865	227.43700	101.67000	105.7130			4576	285347.917	4821965.564	21.638
	4866	224.43600	101.63700	117.8460			4577	Nueva LINEA		
	4867	221.69700	101.52300	133.0300			4578	Altura Mira		
	4868	220.26900	101.41100	146.1350			4579	285348.426	4821955.221	20.987
	4869	219.23100	101.22000	161.6380			4580	Nueva LINEA		
L	4870	218.72900 23	101.01700	175.4690	23		4581	285351.972	4821944.434	20.655
	4871	219.65600	101.12000	175.3670			4582	285352.960	4821936.333	20.543
	4872	220.55000	101.49300	157.8400			4583	285354.683	4821920.083	20.164
	4873	222.92200	101.84100	133.2350			4584	285354.713	4821906.862	19.907
	4874	227.63800	102.02600	111.3660			4585	285354.375	4821890.754	19.755
	4875	232.45000	102.43500	96.7600			4586	285353.093	4821877.340	19.699
B	30529	285409.014 6	4821931.781	20.180	6		4587	285350.746	4821861.806	19.840
L		1.4140	1.3000				4588	285347.951	4821848.188	20.135
H	30515	174.50700 99	101.40000	166.3250	99		4589	Nueva LINEA		
O	4876	39.43600	108.88700	33.7400			4590	285345.544	4821849.049	19.853
L	4877	28.51300	105.24400	55.0660			4591	285348.770	4821866.450	19.236
M	4878	26.72700 99	104.42800	64.6740	99		4592	285351.905	4821891.457	19.085
	4879	30.94100	105.13900	64.9130			4593	285352.011	4821915.113	19.393
M	4880	40.44400 4.3000	106.51600	37.8500			4594	285351.654	4821931.698	19.237
L	4881	40.49000 23	106.60300	37.8340	23		4595	BASE (coord de FICHERO DE BASES)		
M	4882	22.54700	103.61200	61.2750			4596	Nueva LINEA		
	4883	20.67400	104.03200	53.2430			4597	Altura Aparato y Mira		
	4884	9.97700	103.04600	48.7220			4598	285473.831	4821778.642	16.634
	4885	399.15400	101.97400	53.9230			4599	Nueva LINEA		
	4886	395.55400	101.08500	58.5750			4600	285428.414	4821958.984	15.599
	4887	392.31900	100.78200	61.6230			4601	285432.782	4821981.246	15.763
L	4888	387.96900 60	101.81200	64.7930	60		4602	285435.314	4821990.694	15.800
M	4889	388.71100 2.1500	101.28200	66.2100			4603	Nueva LINEA		
	4890	388.74200	100.93600	66.2030			4604	Altura Mira		
	4891	387.51600	101.84600	65.2040			4605	285439.240	4821988.988	13.210
	4892	384.47200	101.89000	62.8880			4606	285431.359	4821962.086	14.577
M	4893	383.18400 4.1900	100.98500	61.9400			4607	Altura Mira		
L	4894	383.13700 60	101.35300	61.9220	60		4608	285431.368	4821962.053	13.377
M	4895	380.95200 5.1900	100.34300	65.2940			4609	Nueva LINEA		
	4896	380.95200	98.94200	65.2470			4610	Altura Mira		
	4897	382.19100	99.82200	66.1200			4611	285430.233	4821989.159	15.970
	4898	385.18200	99.82900	68.5600			4612	285425.971	4821982.139	16.074
	4899	386.21200	99.02100	69.2330			4613	285416.612	4821979.850	17.114
L	4900	386.37700 60	101.22600	69.3020	60		4614	285408.301	4821985.673	17.772
M	4901	386.13900 1.3000	101.14200	69.7560			4615	285404.930	4821990.205	18.446
	4902	387.54700	101.17700	67.8170			4616	285401.601	4821992.952	18.687
L	4903	389.05000 60	101.21100	65.8850	60		4617	285396.850	4821995.395	17.600
M	4904	383.33900	100.39500	61.5430			4618	Nueva LINEA		
	4905	381.87200	100.37900	63.6830			4619	Altura Mira		
L	4906	380.64700 23	100.37500	65.6550	23		4620	285397.340	4821996.940	16.071
M	4907	383.53600 4.1900	99.06500	69.9200			4621	Altura Mira		
	4908	381.36500 1.3000	97.81400	77.5140			4622	285397.372	4821996.945	18.471
							4623	285396.318	4821995.709	17.554
							4624	285393.836	4821992.781	17.578
							4625	285392.847	4821991.566	18.486
							4626	Altura Mira		
							4627	285392.810	4821991.531	16.088
							4628	Nueva LINEA		
							4629	Altura Mira		
							4630	285389.771	4821994.174	16.052
							4631	Altura Mira		
							4632	285389.788	4821994.121	18.489
							4633	285390.761	4821995.331	17.589
							4634	285393.203	4821998.493	17.588
							4635	285394.142	4821999.389	18.469
							4636	285394.303	4821999.490	16.070
							4637	Nueva LINEA		
							4638	Altura Mira		
							4639	285393.952	4821999.880	19.043
							4640	285395.838	4821998.294	19.041
							4641	285397.743	4821996.682	19.041
							4642	Nueva LINEA		
							4643	Altura Mira		
							4644	285393.094	4821991.228	19.062
							4645	285391.128	4821992.899	19.065
							4646	285389.365	4821994.425	19.058
							4647	Nueva LINEA		
							4648	Altura Mira		
							4649	285391.138	4821999.369	18.431
							4650	285386.664	4822005.955	20.066
							4651	Altura Mira		



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 TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4909	378.36800	98.73300	89.2140			4652	285379.290	4822015.879	22.070
	4910	377.52900	98.10400	100.2140			4653	285374.391	4822025.776	23.279
L		30			30		4654	Nueva LINEA		
M		2.1500					4655	Altura Mira		
	4911	18.94500	106.18000	36.7850			4656	285419.751	4821966.783	15.879
	4912	14.30600	104.10500	45.6210			4657	285419.161	4821976.162	16.504
	4913	12.30600	102.34000	51.2410			4658	285418.853	4821982.033	17.561
	4914	10.61500	95.76900	62.0290			4659	285419.289	4821992.814	23.564
	4915	10.44100	95.52500	63.3840			4660	285419.340	4821994.159	23.896
L		23			23		4661	Nueva LINEA		
	4916	385.06300	101.95000	62.2450			4662	285394.553	4821992.293	17.538
	4917	384.51200	101.07200	57.8250			4663	285395.089	4821987.896	18.471
	4918	386.46700	101.78100	49.9960			4664	285398.473	4821980.633	18.046
	4919	390.52300	103.54900	39.8630			4665	285403.113	4821971.142	17.223
L		4			4		4666	Nueva LINEA		
	4920	6.31800	105.46400	38.4020			4667	285412.807	4821969.853	16.152
L		40			40		4668	Nueva LINEA		
M		1.3000					4669	Altura Mira		
	4921	9.04900	96.37300	63.3490			4670	285417.977	4821994.389	23.901
	4922	396.62600	96.82000	69.3640			4671	285405.348	4822000.961	23.758
	4923	386.94700	97.27100	80.0540			4672	285392.734	4822010.087	23.725
	4924	381.28300	97.66000	90.6540			4673	285382.766	4822018.488	23.626
	4925	376.50800	97.86900	106.2120			4674	285370.731	4822030.789	23.849
	4926	375.78900	97.97200	96.2530			4675	285373.307	4822021.113	23.360
	4927	376.06900	98.09100	83.3740			4676	285378.424	4822009.300	22.794
	4928	376.05500	98.13300	63.3030			4677	285385.775	4821990.634	22.150
	4929	377.43500	98.52900	43.3880			4678	285393.961	4821972.462	21.297
L		750			750		4679	Nueva LINEA		
	4930	375.50100	97.85500	122.6620			4680	285362.999	4822045.409	24.427
B	30529	285409.014	4821931.781	20.180			4681	BASE (coord de FICHERO DE BASES)		
L		6			6		4682	Nueva LINEA		
H		1.4440	1.3000				4683	Altura Aparato y Mira		
O	30515	174.50700	101.41400	166.3340			4684	285473.831	4821778.642	16.634
L		174			174		4685	Nueva LINEA		
	5000	376.15800	98.10800	36.2910			4686	285395.746	4821965.542	21.402
	5001	375.67000	97.98000	52.5400			4687	285389.432	4821980.507	21.991
	5002	375.43700	97.92200	70.8880			4688	285382.354	4821997.424	22.638
	5003	375.25500	97.87900	89.4660			4689	285375.131	4822014.529	23.305
	5004	375.13500	97.85000	110.5810			4690	285366.943	4822033.977	24.059
	5005	375.18500	97.84900	123.8450			4691	285361.986	4822046.273	24.509
	5006	376.02600	97.84500	123.9730			4692	285363.456	4822047.003	24.521
	5007	377.49100	97.77000	111.7970			4693	285370.334	4822036.600	24.240
	5008	379.55300	97.61600	101.2700			4694	285377.072	4822027.806	24.116
	5009	383.41000	97.36600	89.5570			4695	285385.963	4822018.241	24.029
	5010	387.15100	97.14000	82.2990			4696	285392.537	4822012.329	24.020
	5011	392.66700	96.84800	75.0550			4697	285400.402	4822006.247	24.039
	5012	399.55600	96.55700	69.3130			4698	285408.535	4822000.991	24.071
	5013	8.71900	96.28300	64.8470			4699	285417.856	4821995.911	24.108
L		174			174		4700	Nueva LINEA		
	5014	9.61900	97.19100	72.3010			4701	285419.890	4822003.188	23.513
	5015	398.92400	97.45900	78.6430			4702	285407.690	4822010.350	23.463
	5016	393.22000	97.67500	84.6040			4703	285400.031	4822015.850	23.414
	5017	386.09800	97.95600	97.4890			4704	285387.910	4822026.906	23.454
	5018	382.89300	98.06500	107.5660			4705	285380.474	4822035.440	23.594
M		2.1500					4706	Altura Mira		
	5019	380.29700	97.65000	121.0560			4707	285372.174	4822047.008	23.943
	5020	378.72000	97.60600	137.0870			4708	285364.078	4822061.191	24.629
L		10			10		4709	Nueva LINEA		
	5021	377.70900	97.55500	136.9990			4710	285362.060	4822060.374	24.736
	5022	379.39200	97.55600	119.1650			4711	285371.143	4822044.675	24.049
	5023	382.22700	97.40100	104.4330			4712	285380.265	4822032.088	23.737
	5024	386.82300	97.10700	91.4420			4713	285390.246	4822021.179	23.629
	5025	395.38200	96.63000	79.0140			4714	285403.299	4822010.477	23.655
	5026	8.17400	96.19600	70.4680			4715	285418.024	4822001.544	23.683
L		10			10		4716	Nueva LINEA		
	5027	6.74800	95.62500	66.5190			4717	285416.038	4821997.770	24.042
M		1.3000					4718	Altura Mira		
	5028	396.39000	96.79400	72.7000			4719	285404.903	4822004.272	23.984
	5029	389.26400	97.12300	80.4820			4720	285395.524	4822011.041	23.960
	5030	383.43800	97.46100	91.2710			4721	285385.560	4822019.911	23.964
	5031	380.13500	97.66400	101.4410			4722	285377.898	4822028.260	24.046
	5032	377.49200	97.83900	115.6790			4723	285368.991	4822040.244	24.251
	5033	376.28800	97.88400	127.4330			4724	285362.671	4822050.413	24.560
	5034	375.31700	97.85000	146.8160			4725	285353.545	4822067.624	25.283
	5035	374.19900	97.81900	184.5300			4726	285336.310	4822101.266	26.647
	5036	374.11700	97.81500	184.5410			4727	285336.087	4822101.182	26.659
	5037	373.98600	97.81900	147.4320			4728	285350.473	4822066.998	25.375
	5038	373.82900	97.82200	119.5850			4729	285361.260	4822041.341	24.415
	5039	373.58800	97.84500	93.0280			4730	285371.542	4822016.870	23.473
	5040	373.26300	97.87900	69.7600			4731	285380.589	4821995.444	22.648
L		10			10		4732	Nueva LINEA		
	5041	372.41600	97.95000	43.8870			4733	285390.599	4821971.593	21.737
L		10			10		4734	Nueva LINEA		
	5042	232.27300	101.57900	28.9390			4735	285394.967	4821906.490	19.606



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	5043	300.00800	99.44000	24.7000			4736	285384.315	4821931.785	20.541
	5044	340.66700	98.27300	42.6780			4737	285374.765	4821957.219	21.482
	5045	350.86600	98.03800	62.2950			4738	285365.591	4821976.406	22.244
	5046	359.24900	97.90600	94.8790			4739	285352.379	4822007.838	23.445
	5047	362.28400	97.86600	117.7090			4740	285343.329	4822029.378	24.270
	5048	364.28000	97.85100	140.1070			4741	285334.511	4822050.342	25.054
	5049	365.69800	97.83600	162.0800			4742	285325.903	4822070.820	25.834
	5050	366.93200	97.83500	187.7600			4743	285315.875	4822094.686	26.710
	5051	366.86700	97.83500	187.7350			4744	285315.721	4822094.569	26.710
	5052	364.73600	97.86000	162.5920			4745	285323.541	4822069.986	25.790
	5053	361.52400	97.91100	135.5060			4746	285332.060	4822043.226	24.771
	5054	359.01800	97.95400	120.2050			4747	285336.910	4822027.881	24.187
	5055	354.15500	98.03100	99.0520			4748	285343.726	4822006.208	23.388
	5056	346.92900	98.13000	79.5920			4749	285350.114	4821985.261	22.662
	5057	335.59000	98.35200	63.4380			4750	285355.254	4821965.418	21.966
	5058	319.21500	98.72800	52.4020			4751	285358.992	4821947.358	21.371
	5059	296.58200	99.31300	47.7790			4752	285361.307	4821929.220	20.840
	5060	277.32800	99.71300	50.0000			4753	285362.151	4821914.351	20.550
	5061	259.74300	99.99300	57.9520			4754	285362.266	4821897.531	20.331
	5062	248.68000	100.06600	68.9920			4755	285361.249	4821881.998	20.253
	5063	241.41700	100.02800	82.0640			4756	285359.309	4821866.483	20.288
	5064	236.20300	99.89500	98.8320			4757	285355.787	4821848.507	20.488
	5065	233.03000	99.69900	117.4850			4758	285350.753	4821829.762	20.880
	5066	231.55800	99.49300	134.8860			4759	285344.851	4821813.139	21.399
L		10					4760	Nueva LINEA		
	5067	233.57800	99.63400	134.8790		10	4761	285341.122	4821815.238	21.101
	5068	235.27600	99.85200	118.4820			4762	285346.665	4821831.032	20.600
	5069	238.02900	100.02700	103.1280			4763	285351.004	4821846.515	20.281
	5070	242.82600	100.20200	87.3910			4764	285354.557	4821863.433	20.047
	5071	250.01100	100.30000	73.7960			4765	285356.821	4821879.612	19.977
	5072	262.40900	100.27000	61.3130			4766	285358.082	4821897.647	20.064
	5073	277.08200	100.08100	54.4280			4767	285358.074	4821912.610	20.255
	5074	298.39300	99.64800	52.1470			4768	285356.885	4821930.467	20.613
	5075	319.67500	99.03500	57.2960			4769	285354.440	4821949.209	21.193
	5076	334.55500	98.58400	68.0880			4770	285350.729	4821966.944	21.839
	5077	344.84500	98.29900	83.1410			4771	285345.687	4821985.606	22.546
	5078	350.30900	98.16400	96.4560			4772	285341.173	4822000.291	23.106
	5079	357.42900	98.00700	124.0330			4773	285332.160	4822029.056	24.207
	5080	362.33500	97.92000	156.4380			4774	285321.818	4822061.563	25.436
L		174					4775	Nueva LINEA		
	5081	361.43400	97.95100	157.1210		174	4776	285319.600	4822060.880	25.382
	5082	356.35700	98.04600	124.8680			4777	285330.003	4822028.396	24.157
	5083	351.92400	98.14800	106.3980			4778	285336.122	4822009.225	23.420
	5084	346.40200	98.30000	90.5870			4779	285341.471	4821992.097	22.743
	5085	337.05400	98.58800	74.3570			4780	285346.918	4821972.650	21.973
	5086	328.31800	98.87500	65.2880			4781	285350.090	4821959.873	21.478
	5087	315.12600	99.32100	57.8130			4782	285352.829	4821945.390	20.941
	5088	298.54600	99.80800	54.2630			4783	285354.766	4821930.545	20.488
	5089	278.42400	100.21700	56.2500			4784	285355.963	4821913.083	20.132
	5090	265.27400	100.38300	62.1250			4785	285355.904	4821899.552	19.951
	5091	252.30200	100.42400	73.9500			4786	285354.866	4821881.419	19.832
	5092	244.60800	100.29300	87.4440			4787	285352.632	4821864.943	19.922
	5093	240.28000	100.15600	99.7870			4788	285350.002	4821851.314	20.080
	5094	236.89600	99.96300	115.7600			4789	285345.613	4821834.928	20.392
	5095	235.02600	99.77600	129.9440			4790	285341.068	4821821.018	20.782
	5096	234.19500	99.61800	140.8570			4791	285336.936	4821810.766	21.171
L		174					4792	Nueva LINEA		
	5097	230.84800	99.40300	140.3010		174	4793	285343.656	4821807.641	21.641
	5098	231.95800	99.60100	123.2120			4794	285349.723	4821823.776	21.097
	5099	233.53800	99.74700	109.6280			4795	285353.891	4821837.021	20.760
	5100	235.97500	99.87500	96.9950			4796	285357.070	4821849.868	20.515
	5101	240.18500	99.96900	83.0450			4797	285360.003	4821864.741	20.365
	5102	248.74100	100.01600	67.3760			4798	285362.321	4821883.209	20.307
	5103	261.53400	99.88000	55.6420			4799	285363.222	4821900.172	20.429
	5104	280.51400	99.56800	48.2280			4800	285363.028	4821917.251	20.651
	5105	310.14700	98.86900	48.5420			4801	285361.095	4821939.487	21.186
	5106	336.28600	98.27900	62.7470			4802	285356.208	4821965.630	22.020
	5107	348.52300	98.07200	81.0090			4803	285350.448	4821987.696	22.777
	5108	355.12200	97.99400	100.3930			4804	285343.997	4822008.210	23.488
	5109	361.38500	97.89800	131.1300			4805	285334.310	4822039.464	24.654
	5110	362.36100	97.88200	130.3620			4806	285336.398	4822039.958	24.661
	5111	359.44300	97.92400	105.5940			4807	285346.240	4822016.620	23.768
	5112	354.54600	97.99800	80.2230			4808	285356.509	4821992.382	22.847
	5113	347.44900	98.12300	60.2360			4809	285364.770	4821972.618	22.100
	5114	309.56600	99.18800	29.3130			4810	285380.034	4821936.170	20.698
	5115	235.66100	101.55200	30.4920			4811	285392.816	4821905.958	19.581
L		32					4812	Nueva LINEA		
	5116	221.94000	102.57800	43.8310		32	4813	285394.216	4821890.562	18.550
M		2.1500					4814	Altura Mira		
	5117	263.32000	100.39600	30.6070			4815	285383.348	4821915.108	19.284
	5118	307.11700	99.31200	34.5090			4816	285374.723	4821935.632	19.847
	5119	337.65800	98.29500	53.5110			4817	285364.613	4821961.612	20.907
	5120	351.37900	97.71900	79.1060			4818	285354.340	4821988.882	22.308
	5121	357.40900	97.62000	102.0940			4819	285345.742	4822011.814	23.291
	5122	361.57800	97.51200	127.0840			4820	285336.948	4822036.337	24.440

# -ISPOL- Libreta Topografica  
 # ---- Datos de Entrada ----  
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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		3.1500								
M	5123	361.10700	96.85700	127.4880			4821	Altura Mira		
		2.1500					4822	285335.978	4822036.084	24.767
	5124	357.53400	97.60500	106.0130			4823	Altura Mira		
	5125	352.62900	97.67400	85.3900			4824	285343.477	4822015.014	23.462
	5126	341.30000	98.10500	60.0160			4825	285351.220	4821994.563	22.594
	5127	316.08600	99.19700	38.9450			4826	285361.214	4821968.028	21.260
	5128	279.06100	100.04000	31.3340			4827	285371.309	4821941.518	19.965
	5129	246.18400	100.71100	34.3250			4828	285379.359	4821921.661	19.454
	5130	223.59300	101.37600	44.0660			4829	285386.240	4821906.102	19.091
L		630					4830	285393.056	4821890.717	18.522
	5131	223.10700	101.63200	43.7270		630	4831	Nueva LINEA		
	5132	278.10000	100.41600	30.7360			4832	285393.492	4821890.917	18.353
	5133	327.24500	98.98000	44.5910			4833	285380.079	4821921.417	19.273
	5134	351.17000	97.84600	79.7880			4834	285368.451	4821950.287	20.189
	5135	361.34000	97.58600	127.2510			4835	285353.676	4821989.197	22.174
L		750					4836	285336.459	4822036.209	24.299
M		1.3000				750	4837	Nueva LINEA		
L	5136	360.43800	97.95000	116.1780			4838	Altura Mira		
		750					4839	285341.415	4822026.193	24.065
L	5137	353.25400	98.09300	77.7800		750	4840	Nueva LINEA		
L		23				23	4841	285356.924	4821989.494	22.654
M		2.1500					4842	Nueva LINEA		
M	5138	310.41100	99.05900	42.9190			4843	Altura Mira		
		1.3000					4844	285366.673	4821938.770	20.108
	5139	286.63700	100.73300	41.9860			4845	Altura Mira		
	5140	263.58000	100.96900	48.1920			4846	285367.952	4821923.035	19.841
	5141	247.48900	101.04000	60.5740			4847	285368.499	4821905.696	19.591
L		4				4	4848	285367.907	4821887.301	19.335
	5142	238.27300	101.36500	61.4440			4849	Nueva LINEA		
	5143	269.90000	101.26700	38.6790			4850	285374.265	4821881.124	19.007
L		4				4	4851	285374.584	4821914.172	19.554
	5144	233.91900	102.07800	46.2080			4852	Nueva LINEA		
L		750				750	4853	285385.553	4821892.000	18.816
	5145	259.06200	100.91300	26.7120			4854	Nueva LINEA		
L		750				750	4855	285387.639	4821915.766	19.941
	5146	332.76800	98.66000	42.1430			4856	Nueva LINEA		
							4857	285372.341	4821952.525	21.211

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

06 ABO 2007

#L Ba/Pt L.AZIM / X L.VERT / Y DIST. / Z COD. OBSERVACIONES LIN X Y Z

#	LISTADOS	TOMADOS	SPOR	FREDI										
B	30064	286525.686	4822403.116		25.059									
H		1.5860	1.5000											
O	30063	288.02400	99.74100		595.7550									
D	30523	285.06300	99.66700		578.7820									
L		3												
M		2.1500												
	2800	319.22600	108.55800		84.1710									
	2801	322.88900	110.05600		69.4860									
	2802	322.88900	110.05500		69.4690									
	2803	323.10100	110.11500		69.0300									
	2804	331.18700	113.31700		50.7390									
	2805	341.53800	116.08800		40.9430									
	2806	361.32300	119.06400		33.2920									
	2807	378.04400	118.83900		32.8070									
L		3												
M		377.52500	117.81000		35.4170									
	2809	361.84300	117.67100		36.3240									
	2810	343.99100	115.33700		43.2470									
	2811	331.72900	112.34800		55.0310									
	2812	326.32900	110.44800		66.3940									
	2813	321.63900	108.69400		82.1790									
L		630												
M		3.1500												
	2814	319.06500	108.48000		80.0590									
	2815	319.36700	108.52500		79.0210									
	2816	322.16800	109.69200		67.7090									
	2817	322.54100	109.75800		66.5120									
	2818	324.15900	110.45900		61.7510									
M		1.5500												
	2819	324.65600	112.27600		60.9660									
	2820	327.56800	113.51900		54.7580									
	2821	328.40900	113.72900		53.7330									
L		91												
M		3.1500												
	2822	323.30900	125.28100		24.9890									
	2823	283.25200	125.26300		24.1080									
M		4.1500												
	2824	290.19600	112.78800		37.9130									
M		4.1500												
	2825	314.23800	112.52800		38.3620									
L		4												
M		2.1500												
	2826	337.32500	115.28400		43.0870									
	2827	338.43900	115.83500		41.5110									
	2828	342.44500	116.80200		38.9020									
	2829	343.91900	117.10400		38.0370									
	2830	349.31200	118.03800		35.8260									
	2831	353.30300	118.79800		34.1760									
	2832	334.49600	122.32400		27.1420									
	2833	323.21700	121.34400		27.8010									
M		3.1500												
	2834	320.83100	116.77100		31.2200									
	2835	320.22700	116.35600		32.2190									
	2836	317.49700	114.73200		36.2490									
L		60												
M		2.1500												
	2837	345.62600	121.04500		27.8920									
	2838	356.91900	119.24600		33.2420									
M		3.1500												
	2839	378.13400	118.75900		29.0460									
	2840	381.33200	117.93500		30.2090									
M		4.0000												
	2841	376.47600	121.79600		20.9050									
L		40												
M		2.1500												
	2842	333.05300	121.52800		24.7530									
	2843	341.98200	120.07100		26.8570									
	2844	364.16000	124.77800		21.4200									
	2845	363.98800	124.89900		21.2200									
L		30												
M		3.1500												
	2846	340.25500	135.61800		13.6770									
M		1.3000												
	2847	268.25900	122.48300		17.9680									
	2848	273.84400	119.54400		27.1820									
	2849	290.22300	112.58100		46.5010									
	2850	296.39800	109.96900		62.8460									
	2851	297.70600	109.26600		68.8140									
L		4												
M		2.2000												
	2852	317.54700	110.31700		70.9210									
	2853	319.32400	110.86000		60.2570									
	2854	305.96900	111.40500		53.8450									
M		1.3000												

0 BASE (coord de FICHERO DE BASES)  
 1 Altura Aparato y Mira  
 2 285940.440 4822291.748 27.586  
 3 285962.762 4822268.603 28.195  
 4 Nueva LINEA  
 5 Altura Mira  
 6 286446.051 4822427.931 13.215  
 7 286461.455 4822427.265 13.565  
 8 286461.470 4822427.259 13.569  
 9 286461.966 4822427.315 13.573  
 10 286481.892 4822426.473 13.959  
 11 286494.189 4822427.188 14.258  
 12 286507.529 4822429.235 14.674  
 13 286515.079 4822432.650 14.928  
 14 Nueva LINEA  
 15 286513.919 4822435.057 14.716  
 16 286505.981 4822431.962 14.541  
 17 286493.324 4822429.884 14.177  
 18 286478.258 4822428.932 13.888  
 19 286465.709 4822429.445 13.648  
 20 286448.932 4822430.265 13.308  
 21 Nueva LINEA  
 22 Altura Mira  
 23 286449.870 4822426.531 12.863  
 24 286450.970 4822426.580 12.945  
 25 286462.779 4822425.957 13.227  
 26 286464.033 4822425.911 13.340  
 27 286469.103 4822425.687 13.396  
 28 Altura Mira  
 29 286470.284 4822425.719 13.412  
 30 286477.101 4822425.581 13.554  
 31 286478.339 4822425.773 13.597  
 32 Nueva LINEA  
 33 286504.170 4822411.368 15.430  
 34 286504.216 4822397.335 15.777  
 35 Altura Mira  
 36 286488.975 4822397.420 15.930  
 37 Altura Mira  
 38 286489.002 4822411.463 14.994  
 39 Nueva LINEA  
 40 Altura Mira  
 41 286490.826 4822426.274 14.250  
 42 286492.568 4822425.962 14.276  
 43 286496.175 4822426.343 14.347  
 44 286497.402 4822426.458 14.398  
 45 286501.104 4822427.176 14.479  
 46 286503.798 4822427.406 14.550  
 47 286503.848 4822416.264 15.171  
 48 286501.160 4822412.481 15.348  
 49 Altura Mira  
 50 286497.143 4822412.806 15.365  
 51 286496.085 4822412.853 15.308  
 52 286491.728 4822412.694 15.181  
 53 Nueva LINEA  
 54 Altura Mira  
 55 286505.796 4822420.447 15.442  
 56 286505.815 4822427.859 14.598  
 57 Altura Mira  
 58 286516.328 4822429.287 15.060  
 59 286517.300 4822430.896 15.097  
 60 Altura Mira  
 61 286518.575 4822421.479 15.627  
 62 Nueva LINEA  
 63 Altura Mira  
 64 286505.413 4822414.704 16.283  
 65 286505.508 4822418.761 16.167  
 66 286515.110 4822419.876 16.367  
 67 286515.173 4822419.678 16.406  
 68 Nueva LINEA  
 69 286516.336 4822409.968 17.236  
 70 Altura Mira  
 71 286510.879 4822395.055 17.280  
 72 Altura Mira  
 73 286501.931 4822392.769 17.131  
 74 286480.626 4822396.144 16.215  
 75 286463.708 4822399.610 15.544  
 76 286457.644 4822400.668 15.365  
 77 Nueva LINEA  
 78 286458.338 4822422.169 13.902  
 79 Altura Mira  
 80 286469.020 4822420.870 14.216  
 81 286472.936 4822408.080 14.850  
 82 Altura Mira

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2855	302.05100	110.47500	63.6080			83	286462.970	4822405.142	14.926
	2856	321.81800	115.38700	44.9570			84	286484.575	4822417.788	14.585
M		3.1500					85	Altura Mira		
	2857	298.15600	111.61800	44.6780			86	286481.768	4822401.847	15.387
L		40					87	Nueva LINEA		
M		2.1500				40	88	Altura Mira		
	2858	288.33900	113.97400	37.4610			89	286489.735	4822396.459	16.338
	2859	282.33000	117.43800	29.3490			90	286498.512	4822395.376	16.556
	2860	275.64200	120.00200	23.5170			91	286504.937	4822394.767	17.227
	2861	282.73000	121.79700	22.4350			92	286505.326	4822397.455	16.963
L		23					93	Nueva LINEA		
	2862	282.81300	123.65900	23.4690		23	94	286504.611	4822397.286	15.973
	2863	277.77000	122.02100	24.2890			95	286504.214	4822395.300	16.260
	2864	283.83400	118.73100	29.5540			96	286498.309	4822396.013	15.924
L		4					97	Nueva LINEA		
	2865	304.51900	128.47000	17.2160		4	98	286510.202	4822404.218	17.050
	2866	326.69700	127.60400	18.8250			99	286510.084	4822410.073	16.586
	2867	345.44900	124.35000	21.3230			100	286510.736	4822416.070	16.537
	2868	359.46200	119.38500	28.5880			101	286509.471	4822425.045	15.924
L		30				30	102	Nueva LINEA		
	2869	275.59200	113.58600	33.7850			103	286495.064	4822390.767	17.340
	2870	279.15800	109.05500	52.2230			104	286476.735	4822386.496	17.092
	2871	280.60100	106.66300	67.9960			105	286461.176	4822382.832	17.392
	2872	281.39200	105.11900	82.6780			106	286446.769	4822379.375	17.855
	2873	282.01000	103.89100	95.8800			107	286433.779	4822376.438	18.639
	2874	282.40300	103.15600	108.8000			108	286421.143	4822373.468	19.104
M		0.0000					109	Altura Mira		
	2875	283.10800	103.74800	124.6830			110	286405.573	4822370.485	19.310
M		1.3000					111	Altura Mira		
	2876	291.76900	104.50600	118.6400			112	286408.330	4822387.867	16.956
M		2.1500					113	Altura Mira		
	2877	297.13600	104.86900	116.5110			114	286409.633	4822397.900	15.594
L		4				4	115	Nueva LINEA		
	2878	297.13100	104.93100	110.9620			116	286415.169	4822398.140	15.910
	2879	285.89200	103.41600	111.4990			117	286417.069	4822378.652	18.516
	2880	285.47800	103.85600	100.9860			118	286427.495	4822380.328	18.383
	2881	289.55800	104.65600	96.6460			119	286430.591	4822387.384	17.434
	2882	286.38600	105.06200	87.7520			120	286440.203	4822384.558	17.525
	2883	291.91700	106.04400	84.8490			121	286441.899	4822392.426	16.452
	2884	286.30200	106.21800	76.4980			122	286451.307	4822386.866	17.036
	2885	284.60800	107.19200	67.9590			123	286460.123	4822386.953	16.834
M		4.1500					124	Altura Mira		
	2886	289.26800	106.40900	62.1900			125	286464.687	4822392.739	16.245
M		2.1500					126	Altura Mira		
	2887	281.98600	109.93800	49.8490			127	286478.401	4822389.371	16.745
L		40				40	128	Nueva LINEA		
	2888	277.94800	111.42300	42.7710			129	286486.100	4822388.831	16.862
M		3.1500					130	Altura Mira		
	2889	282.89200	110.01000	43.5830			131	286484.185	4822391.690	16.670
L		630				630	132	Nueva LINEA		
	2890	277.54300	111.26600	41.7010			133	286487.163	4822388.937	16.154
M		4.1500					134	Altura Mira		
	2891	282.93400	109.58800	42.1790			135	286485.473	4822392.073	16.167
L		40				40	136	Nueva LINEA		
	2892	283.02300	109.14400	40.7540			137	286486.777	4822392.490	16.662
M		2.1500					138	Altura Mira		
	2893	277.29900	112.06700	40.3770			139	286488.526	4822389.277	16.887
L		92				92	140	Nueva LINEA		
M		3.1500					141	Altura Mira		
	2894	293.30000	103.20000	134.3220			142	286392.275	4822389.033	16.747
	2895	293.98000	102.96800	146.2090			143	286380.288	4822389.337	16.682
M		4.0000					144	Altura Mira		
	2896	294.60000	102.55300	148.1680			145	286378.169	4822390.584	16.706
L		4				4	146	Nueva LINEA		
M		2.1500					147	Altura Mira		
	2897	290.97200	103.64900	126.0900			148	286401.066	4822385.333	17.273
	2898	290.93400	103.64900	126.1110			149	286401.056	4822385.256	17.272
L		44				44	150	Nueva LINEA		
M		1.3000					151	Altura Mira		
	2899	291.08000	103.27400	159.3620			152	286368.093	4822380.901	17.155
B	30527	286349.287	4822314.358	21.618			153	BASE (coord de FICHERO DE BASES)		
H		1.2870	1.3000				154	Altura Aparato y Mira		
O	30518	292.06400	101.68900	85.6690			155	286264.350	4822303.622	19.382
L		92				92	156	Nueva LINEA		
M		3.1500					157	Altura Mira		
	2900	390.95300	102.16300	49.0540			158	286342.291	4822362.882	18.089
	2901	384.04200	102.13900	50.2930			159	286336.767	4822363.038	18.066
	2902	385.30900	102.16700	55.1480			160	286336.623	4822367.999	17.878
	2903	383.15200	102.21000	55.7170			161	286334.664	4822368.087	17.821
	2904	383.94300	102.16200	58.1240			162	286334.730	4822370.595	17.782
M		4.1500					163	Altura Mira		
	2905	387.15200	101.21500	57.3020			164	286337.743	4822370.474	17.662
	2906	388.82200	100.87900	54.4900			165	286339.712	4822367.995	18.003
M		3.1500					166	Altura Mira		

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 # ---- Datos de Entrada ----  
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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO										
#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2907	393.38200	102.34300	53.9550						
	2908	392.91700	102.26600	50.8770			167	286343.634	4822367.979	17.770
	2909	391.41900	102.09100	50.9370			168	286343.587	4822364.882	17.945
L		44					169	286342.391	4822364.798	18.082
M		2.1500			44		170	Nueva LINEA		
	2910	394.35000	103.79800	41.6590			171	Altura Mira		
M		3.1500					172	286345.557	4822355.775	18.271
	2911	395.75500	102.46800	53.5640			173	Altura Mira		
M		2.1500					174	286345.663	4822367.759	17.679
	2912	396.70900	103.63400	64.6350			175	Altura Mira		
	2913	397.14000	103.68000	74.2090			176	286345.883	4822378.798	17.068
L		4					177	286345.880	4822388.364	16.468
	2914	395.36200	103.60300	73.9130			178	Nueva LINEA		
M		3.1500					179	286343.836	4822387.951	16.574
	2915	392.77400	102.60300	62.8330			180	Altura Mira		
	2916	381.38700	102.53200	62.5720			181	286342.109	4822376.727	17.187
	2917	385.04400	102.69500	76.2910			182	286331.202	4822374.208	17.267
M		4.1500					183	286331.465	4822388.468	16.527
	2918	393.10500	102.00600	78.2400			184	Altura Mira		
M		3.1500					185	286340.750	4822392.092	16.290
	2919	376.70000	102.25000	47.7920			186	Altura Mira		
	2920	387.94700	102.25500	45.9360			187	286332.146	4822358.938	18.066
L		44					188	286340.599	4822359.435	18.128
M		2.1500			44		189	Nueva LINEA		
	2921	367.15500	103.22800	43.4630			190	Altura Mira		
M		3.1500					191	286327.832	4822352.092	18.552
	2922	374.94100	102.37100	58.7490			192	Altura Mira		
	2923	378.75700	102.40000	75.6680			193	286326.712	4822368.552	17.568
	2924	380.54200	102.40400	86.7850			194	286324.445	4822385.775	16.903
L		30					195	286323.102	4822397.033	16.479
M		4.1500			30		196	Nueva LINEA		
	2925	371.15200	101.63300	73.1610			197	Altura Mira		
	2926	345.84900	101.22200	69.4650			198	286317.198	4822380.079	16.879
M		3.1500					199	286297.032	4822360.108	17.422
	2927	332.05500	101.08700	68.2000			200	Altura Mira		
M		2.1500					201	286289.525	4822347.196	18.591
	2928	327.52900	101.50000	68.7740			202	Altura Mira		
	2929	335.62900	102.49000	60.0890			203	286286.830	4822343.104	19.135
	2930	346.22900	102.83800	52.0060			204	286298.370	4822346.180	18.406
	2931	363.24600	103.46700	44.5770			205	286310.402	4822348.814	18.438
L		4					206	286324.953	4822351.628	18.329
M		3.1500			4		207	Nueva LINEA		
	2932	352.16500	101.77100	56.4020			208	Altura Mira		
	2933	357.57500	101.83700	50.6860			209	286310.755	4822355.516	18.186
	2934	341.78000	101.44900	61.5980			210	286317.925	4822354.149	18.293
	2935	370.62900	102.30100	63.9720			211	286300.457	4822351.881	18.353
M		4.1500					212	286320.766	4822371.573	17.444
	2936	362.79600	101.17000	63.5620			213	Altura Mira		
L		91					214	286314.169	4822367.325	17.587
M		3.1500			91		215	Nueva LINEA		
	2937	368.87300	102.18300	52.4060			216	Altura Mira		
M		4.1500					217	286324.637	4822360.570	17.959
	2938	369.92300	101.14100	57.1180			218	Altura Mira		
	2939	358.04500	101.02100	60.3230			219	286323.244	4822365.183	17.732
M		2.7500					220	286312.302	4822362.003	17.788
	2940	355.58400	102.45800	56.1220			221	Altura Mira		
L		91					222	286313.213	4822357.295	17.989
M		4.1500			91		223	Nueva LINEA		
	2941	355.52000	100.78000	61.3770			224	Altura Mira		
	2942	353.76500	100.92600	68.5230			225	286309.761	4822361.307	18.003
	2943	346.74300	100.78100	67.1340			226	286303.732	4822365.536	17.759
	2944	349.12100	100.70800	59.7970			227	286299.406	4822359.282	17.932
L		30					228	286306.382	4822356.004	18.090
M		2.1500			30		229	Nueva LINEA		
	2945	319.79800	101.22700	82.6290			230	Altura Mira		
	2946	314.00300	101.18300	100.6670			231	286270.609	4822339.553	19.163
	2947	319.80600	101.84200	95.9010			232	286251.039	4822336.213	18.885
	2948	322.12800	101.88400	94.2600			233	286257.997	4822343.605	17.981
M		1.3000					234	286260.669	4822346.356	17.966
	2949	323.01600	102.14400	92.6120			235	Altura Mira		
	2950	327.24100	102.38200	93.1460			236	286262.676	4822347.004	18.487
M		2.1500					237	286264.557	4822352.892	18.121
	2951	335.60200	102.15600	89.4420			238	Altura Mira		
M		4.1500					239	286273.463	4822361.702	17.727
	2952	344.56200	101.12600	87.6970			240	Altura Mira		
	2953	357.49700	101.13900	87.8810			241	286282.161	4822370.771	17.204
L		4					242	286294.812	4822383.300	17.183
	2954	366.71900	101.46900	79.8320			243	Nueva LINEA		
	2955	356.86000	101.33700	78.1990			244	286309.364	4822383.466	16.913
	2956	343.41700	100.99500	78.1630			245	286300.205	4822375.213	17.113
M		3.1500					246	286288.562	4822363.556	17.534
	2957	334.15500	101.10200	74.0530			247	Altura Mira		
M		2.1500					248	286285.608	4822352.135	18.474
	2958	328.29200	101.76800	84.3240			249	Altura Mira		
	2959	321.12900	101.56600	88.0270			250	286273.145	4822350.515	18.414
							251	286266.059	4822342.942	18.590



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2960	318.52400	101.59600	91.9390						
M		4.1500					252	286261.212	4822340.631	18.451
	2961	336.15900	100.83600	100.7470			253	Altura Mira		
L		30			30		254	286264.308	4822368.457	17.433
M		2.1500					255	Nueva LINEA		
	2962	394.48400	103.74500	41.6980			256	Altura Mira		
	2963	16.97300	103.38500	47.1490			257	286345.640	4822355.824	18.304
	2964	18.26300	103.20800	49.9410			258	286361.643	4822359.790	18.249
M		3.1500					259	286363.349	4822362.212	18.240
	2965	15.59400	102.42000	66.0420			260	Altura Mira		
M		4.1500					261	286365.222	4822378.399	17.245
	2966	14.77300	101.99400	80.0180			262	Altura Mira		
L		92			92		263	286367.597	4822392.212	16.250
	2967	7.06200	101.92000	73.0180			264	Nueva LINEA		
	2968	12.11800	101.68900	73.6530			265	286357.289	4822386.903	16.554
	2969	7.18800	101.79400	78.1410			266	286363.140	4822386.670	16.802
L		4			4		267	286358.004	4822391.980	16.554
M		2.1500					268	Nueva LINEA		
	2970	6.43800	103.55100	56.1910			269	Altura Mira		
M		4.1500					270	286354.891	4822370.181	17.623
	2971	5.04400	101.57600	67.1830			271	Altura Mira		
	2972	5.72800	102.08500	82.2110			272	286354.531	4822381.315	17.092
							273	286356.582	4822396.200	16.063

# LISTADOS TOMADOS POR JORGE

B	30062	285637.575	4822106.616	23.691			0	BASE (coord de FICHERO DE BASES)		
H		1.6430	1.3000				1	Altura Aparato y Mira		
O	30063	399.99900	99.36850	354.9800			2	285940.440	4822291.748	27.586
L		40			40		3	Nueva LINEA		
	2001	219.33700	100.11200	267.5800			4	285377.981	4822041.738	23.568
	2002	217.52700	100.18050	264.9640			5	285382.450	4822035.091	23.287
	2003	215.46250	100.17650	261.2380			6	285388.456	4822027.978	23.314
	2004	213.33000	100.17150	256.9060			7	285395.314	4822021.121	23.346
	2005	211.16600	100.21250	251.1690			8	285403.702	4822015.029	23.200
	2006	208.95750	100.20950	244.7770			9	285412.887	4822009.508	23.232
	2007	207.18500	100.19400	239.0710			10	285420.850	4822005.699	23.309
	2008	206.63350	100.17000	239.2000			11	285421.615	4822003.770	23.399
L		750			750		12	Nueva LINEA		
	2009	211.49000	100.17500	252.6380			13	285401.868	4822015.691	23.344
	2010	217.81350	100.12850	265.8410			14	285381.284	4822036.007	23.502
L		30			30		15	Nueva LINEA		
	2011	220.42600	100.24350	262.7940			16	285381.573	4822047.269	23.033
	2012	218.23850	100.45600	258.9070			17	285387.521	4822039.518	22.184
	2013	216.59000	100.80800	253.1330			18	285394.892	4822034.710	20.826
	2014	214.23650	101.50300	244.5990			19	285405.848	4822028.530	18.264
M		3.1500					20	Altura Mira		
	2015	212.68850	101.28900	239.2570			21	285412.816	4822024.741	17.344
	2016	212.30000	101.21800	241.6560			22	285411.066	4822022.535	17.565
M		2.1500					23	Altura Mira		
	2017	211.79450	101.11950	244.3580			24	285409.210	4822019.776	18.891
	2018	211.01850	100.91850	243.8850			25	285410.714	4822017.168	19.669
	2019	210.31550	100.95750	242.3900			26	285413.102	4822015.233	19.542
M		3.1500					27	Altura Mira		
	2020	209.14150	100.93100	236.6420			28	285420.106	4822013.373	18.727
M		2.1500					29	Altura Mira		
	2021	207.12700	99.97900	238.7190			30	285421.260	4822005.650	23.266
	2022	206.20550	100.14750	238.3090			31	285423.113	4822002.709	22.636
L		32			32		32	Nueva LINEA		
	2023	218.73000	100.13950	262.5970			33	285383.434	4822040.520	22.613
	2024	217.88950	100.21400	261.0650			34	285385.807	4822037.576	22.311
	2025	217.23350	100.32600	259.2350			35	285388.293	4822035.488	21.861
	2026	216.50300	100.49700	256.7390			36	285391.522	4822033.346	21.184
	2027	214.29800	101.06950	248.3700			37	285402.166	4822027.543	19.016
M		3.1500					38	Altura Mira		
	2028	212.32000	101.17400	241.5070			39	285411.177	4822022.656	17.734
L		32			32		40	Nueva LINEA		
	2029	212.49000	101.18950	240.6290			41	285411.778	4822023.565	17.692
M		2.1500					42	Altura Mira		
	2030	214.12750	101.14650	246.2060			43	285404.433	4822027.609	18.754
	2031	216.13950	100.64750	253.6760			44	285394.880	4822032.835	20.608
	2032	217.25650	100.36650	257.7540			45	285389.693	4822035.984	21.705
	2033	218.06300	100.21500	260.1660			46	285386.487	4822038.498	22.310
	2034	220.31100	100.06900	263.8980			47	285380.604	4822046.555	22.903
L		630			630		48	Nueva LINEA		
	2035	220.30400	100.11600	264.0960			49	285380.418	4822046.482	22.707
	2036	220.24000	100.11250	264.7750			50	285379.817	4822046.068	22.721
L		630			630		51	Nueva LINEA		
	2037	218.04350	100.26750	260.4030			52	285386.280	4822038.359	22.094
	2038	217.93850	100.26200	260.9950			53	285385.822	4822037.789	22.114
L		630			630		54	Nueva LINEA		
	2039	214.98100	100.99900	249.6170			55	285400.141	4822029.687	19.271
	2040	214.86400	100.99450	250.1650			56	285399.762	4822029.081	19.280
L		630			630		57	Nueva LINEA		
	2041	212.44550	101.48600	240.7620			58	285411.734	4822023.369	17.568
M		3.1500					59	Altura Mira		



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 # ---- Datos de Entrada ----  
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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L	2042	212.33650	101.23450	241.2940			60	285411.359	4822022.791	17.509
							61	Nueva LINEA		
M	2043	212.10850	101.09750	243.3360	4		62	285409.740	4822021.261	17.993
							63	Altura Mira		
	2044	213.72800	101.09150	248.2480			64	285403.000	4822025.479	18.932
	2045	215.82850	100.61750	255.5790			65	285393.425	4822031.087	20.709
	2046	216.78550	100.43000	257.7780			66	285390.201	4822034.146	21.447
L							67	Nueva LINEA		
M		1.3000			4		68	Altura Mira		
	2047	218.35400	100.48550	258.3280			69	285387.960	4822040.121	22.068
	2048	218.93150	100.70050	250.6230			70	285394.838	4822044.306	21.280
	2049	219.36450	100.85450	245.7540			71	285399.151	4822047.138	20.739
	2050	220.15600	101.29050	232.8300			72	285411.032	4822053.085	19.318
	2051	221.24450	101.69600	220.5470			73	285422.180	4822059.592	18.162
	2052	222.39250	102.04500	207.5870			74	285434.105	4822066.025	17.370
	2053	223.23200	102.26700	195.4860			75	285445.501	4822070.926	17.077
	2054	223.69050	102.41600	188.9180			76	285451.727	4822073.465	16.869
L		710					77	Nueva LINEA		
	2055	223.14600	102.36750	189.3230	710		78	285451.614	4822071.801	16.997
L		60					79	Nueva LINEA		
M		2.1500			60		80	Altura Mira		
	2057	211.48400	101.09950	244.0250			81	285409.945	4822018.783	18.974
	2058	211.52650	101.10000	243.7650			82	285410.129	4822019.028	18.976
	2059	210.38200	101.11100	241.4470			83	285413.889	4822015.825	18.974
	2060	210.35350	101.08450	241.6470			84	285413.743	4822015.649	19.072
L		60					85	Nueva LINEA		
L		60			60		86	Nueva LINEA		
M		60			60		87	285413.630	4822016.161	18.373
	2061	210.48950	101.26900	241.5720			88	Altura Mira		
	2062	210.99950	101.60850	238.1230			89	285416.147	4822019.234	16.172
	2063	211.02600	101.60700	237.7610			90	285416.447	4822019.459	16.187
	2064	211.02800	101.69450	237.8680			91	285416.353	4822019.429	15.857
	2065	210.49800	101.57750	241.5990			92	285413.617	4822016.190	16.202
L		30					93	Nueva LINEA		
M		1.3000			30		94	Altura Mira		
	2067	195.56300	100.13250	198.9850			95	285475.435	4821991.268	23.622
	2068	195.91750	100.25750	197.1730			96	285476.279	4821993.215	23.239
	2069	196.92550	101.36350	191.6200			97	285479.131	4821998.928	19.933
	2070	198.17150	102.61050	185.1620			98	285482.559	4822005.636	16.446
	2071	198.66400	102.80250	182.6550			99	285483.911	4822008.201	15.998
M		2.1500					100	Altura Mira		
	2072	200.09900	102.64450	171.8540			101	285490.932	4822017.294	16.049
	2073	203.16000	102.88300	151.5140			102	285504.674	4822034.182	16.326
	2074	206.71650	103.08750	133.3850			103	285517.216	4822049.490	16.719
	2075	209.45150	103.44500	122.3760			104	285525.033	4822059.010	16.566
	2076	213.88150	104.04550	108.4320			105	285535.222	4822071.489	16.299
	2077	219.62250	104.61550	95.0000			106	285545.550	4822084.055	16.303
	2078	227.25000	105.40950	82.5310			107	285555.939	4822096.722	16.180
	2079	238.10650	106.36300	71.1000			108	285566.918	4822110.147	16.090
	2080	251.54900	107.45650	62.4820			109	285577.624	4822122.634	15.883
	2081	254.78550	108.79100	50.4790			110	285589.989	4822121.960	16.236
	2082	262.46500	112.46850	34.9390			111	285606.460	4822120.982	16.385
	2083	283.75700	120.50250	20.8380			112	285623.343	4822120.334	16.589
L		4					113	Nueva LINEA		
	2084	258.50150	114.88600	28.1910	4		114	285612.010	4822116.540	16.652
	2085	235.85500	109.44200	45.1780			115	285592.898	4822107.267	16.508
	2086	221.21600	106.42800	63.5140			116	285575.845	4822093.111	16.782
	2087	210.84250	105.02950	78.0280			117	285565.291	4822077.884	17.026
	2088	204.43300	104.01250	97.9370			118	285550.834	4822061.566	17.016
	2089	200.90600	103.30500	114.4570			119	285539.210	4822048.397	17.246
	2090	197.92600	102.83350	132.2280			120	285527.170	4822034.088	17.302
	2091	196.09100	102.71500	140.8350			121	285522.249	4822026.004	17.181
L		60					122	Nueva LINEA		
M		4.6200			60		123	Altura Mira		
	2092	211.41800	100.61300	243.6280			124	285410.383	4822018.681	18.372
	2093	211.93700	101.17200	240.2550			125	285412.857	4822021.738	16.295
	2094	211.95150	101.17500	239.7830			126	285413.279	4822021.956	16.292
M		5.4200					127	Altura Mira		
	2095	211.88200	101.02650	239.7920			128	285413.354	4822021.705	16.051
M		4.6200					129	Altura Mira		
	2096	211.43500	101.22200	243.4770			130	285410.532	4822018.808	16.045
L		60					131	Nueva LINEA		
L		60					132	Nueva LINEA		
	2097	212.42600	100.85000	240.3740			133	285412.082	4822023.419	17.508
	2098	212.23250	100.83150	241.3640			134	285411.407	4822022.388	17.565
	2099	211.98000	101.15450	240.2390			135	285412.813	4822021.895	16.361
	2100	212.05150	101.18000	239.0960			136	285413.790	4822022.550	16.286
L		40					137	Nueva LINEA		
	2101	212.69050	100.90850	238.5370	40		138	285413.467	4822024.986	17.314
M		2.1500					139	Altura Mira		
	2102	213.67100	101.77700	227.6550			140	285422.578	4822032.035	16.834
	2103	215.51150	101.88900	216.8320			141	285430.842	4822041.533	16.754
	2104	217.65450	101.95700	204.0910			142	285441.044	4822051.942	16.914
	2105	219.63700	102.09850	195.8900			143	285447.412	4822060.041	16.731
	2106	221.73850	102.17650	188.4960			144	285453.218	4822067.865	16.743

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#	L	Ba/Pt	L.AZIM / X	L. VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		2107	224.30600	102.30650	187.1650			145	285453.131	4822075.553	16.407
	L		632					146	Nueva LINEA		
	M		4.6200				632	147	Altura Mira		
		2108	211.31550	101.25000	239.9400			148	285413.995	4822019.665	16.007
	M		5.6200					149	Altura Mira		
		2109	211.89650	101.14650	231.6290			150	285420.975	4822024.647	15.546
		2110	221.87400	101.86050	184.9310			151	285456.596	4822068.977	14.312
	L		40				40	152	Nueva LINEA		
	M		4.6200					153	Altura Mira		
		2111	220.68350	101.34650	181.6360			154	285460.507	4822066.322	16.875
		2112	217.80600	101.20400	192.9670			155	285451.579	4822055.350	17.067
		2113	214.48650	101.14450	206.3400			156	285441.813	4822041.505	17.007
		2114	212.69250	101.12500	221.1980			157	285429.766	4822030.930	16.809
		2115	210.95550	100.91650	231.8780			158	285421.967	4822021.358	17.379
		2116	211.11700	101.25300	236.7040			159	285417.279	4822020.150	16.059
	L		40				40	160	Nueva LINEA		
	M		204.70800	101.41200	221.4840			161	285440.629	4822005.408	15.805
			5.6200					162	Altura Mira		
		2118	206.81500	101.12800	212.0820			163	285445.869	4822015.990	15.959
	M		4.6200					164	Altura Mira		
		2119	210.74700	101.65700	194.2770			165	285457.207	4822034.609	15.660
		2120	214.48950	101.82150	175.9350			166	285470.698	4822051.121	15.683
		2121	216.41350	101.84150	169.8340			167	285474.941	4822057.938	15.804
	L		40				40	168	Nueva LINEA		
		2122	216.82000	102.19450	168.6380			169	285475.810	4822059.321	14.904
	L		710				710	170	285461.592	4822067.791	15.276
		2123	221.10450	101.92100	180.2980			171	Nueva LINEA		
			40				40	172	285441.995	4822030.697	16.622
	L		23				23	173	Nueva LINEA		
	M		2.1500					174	Altura Mira		
		2125	198.10900	102.50200	181.6220			175	285485.609	4822007.410	16.050
		2126	195.05950	102.42500	166.2250			176	285502.993	4822009.260	16.856
		2127	193.55600	102.44600	157.0740			177	285512.611	4822011.644	17.152
		2128	192.44300	102.51600	146.1480			178	285522.871	4822016.235	17.411
	M		3.1500					179	Altura Mira		
		2129	191.77600	102.22250	136.2850			180	285531.483	4822021.203	17.428
	M		2.1500					181	Altura Mira		
		2130	192.59750	103.19000	114.6090			182	285547.496	4822035.991	17.444
		2131	194.48950	103.84150	94.0440			183	285562.012	4822050.917	17.513
		2132	201.02550	106.04400	63.2110			184	285583.363	4822074.667	17.192
		2133	216.89700	111.48650	34.4340			185	285605.050	4822097.149	17.005
		2134	250.46200	120.13650	20.7190			186	285618.467	4822111.373	16.739
		2135	289.93300	123.56800	18.2340			187	285626.536	4822119.543	16.587
	L		40				40	188	Nueva LINEA		
	M		1.3000					189	Altura Mira		
		2136	295.88250	121.73350	3.9610			190	285635.427	4822109.668	22.708
		2137	202.38000	105.29800	17.8140			191	285622.093	4822097.930	22.553
		2138	193.19000	102.32250	38.3050			192	285607.232	4822083.279	22.637
		2139	190.26100	101.46900	55.6520			193	285595.080	4822070.704	22.750
		2140	187.81100	100.75100	63.7800			194	285590.484	4822063.608	23.282
	M		3.1500					195	Altura Mira		
		2141	186.02850	98.61050	71.9430			196	285585.844	4822056.644	23.754
	M		2.1500					197	Altura Mira		
		2142	185.58500	99.56950	88.2220			198	285574.554	4822044.882	23.781
		2143	185.14500	99.70250	117.1900			199	285554.428	4822024.034	23.733
		2144	186.09350	99.78900	136.4300			200	285539.356	4822011.928	23.637
		2145	188.09000	99.89700	152.4670			201	285524.546	4822004.292	23.432
		2146	190.05050	99.83600	169.7330			202	285508.298	4821996.632	23.623
		2147	193.27300	99.86000	187.3060			203	285488.955	4821992.619	23.598
		2148	195.63400	99.97650	196.1000			204	285477.659	4821993.118	23.259
	L		40				40	205	Nueva LINEA		
	L		23				23	206	Nueva LINEA		
	M		4.6200					207	Altura Mira		
		2149	198.34900	101.43100	206.4880			208	285464.289	4821994.422	16.076
		2150	199.74250	101.55350	193.8890			209	285472.603	4822004.858	15.986
	L		40				40	210	Nueva LINEA		
		2151	198.36950	101.41450	211.2920			211	285460.220	4821991.868	16.023
		2152	203.22450	101.81900	187.0140			212	285473.343	4822017.322	15.374
	M		2.1500					213	Altura Mira		
		2153	205.93000	102.85100	171.1290			214	285484.049	4822031.410	15.525
		2154	209.77650	103.08000	151.4310			215	285497.973	4822048.401	15.862
		2155	214.47050	103.57450	134.4100			216	285510.247	4822064.230	15.642
		2156	219.06950	103.95800	120.0640			217	285521.442	4822077.073	15.725
		2157	227.32450	104.82250	103.9460			218	285534.666	4822094.266	15.318
		2158	238.64700	105.51150	88.7090			219	285549.349	4822111.776	15.514
		2159	252.77000	106.40800	78.4900			220	285562.529	4822128.217	15.297
		2160	264.16950	107.00450	73.7770			221	285571.845	4822139.127	15.083
		2161	276.42250	108.37800	71.1090			222	285581.533	4822149.379	13.853
		2162	278.24300	108.21400	74.1400			223	285580.423	4822152.869	13.645
		2163	289.32150	109.14200	66.0540			224	285594.646	4822155.920	13.731
		2164	297.21950	109.02300	66.7960			225	285600.657	4822161.477	13.749
		2165	307.22750	109.21450	64.7020			226	285610.587	4822164.675	13.852
		2166	322.26800	109.67950	64.3190			227	285625.015	4822168.940	13.443
		2167	326.65100	109.92750	63.4080			228	285629.454	4822168.726	13.336
	L		4				4	229	Nueva LINEA		

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2168	344.68450	110.25050	57.5630			230	285646.249	4822162.768	13.956
	2169	332.49400	110.05100	53.9080			231	285635.540	4822159.814	14.708
	2170	319.38850	109.61850	55.9310			232	285624.212	4822160.271	14.766
	2171	306.96850	109.25600	58.2660			233	285613.062	4822158.796	14.743
	2172	290.25950	109.08550	59.0500			234	285599.847	4822151.258	14.785
	2173	277.95000	108.57600	61.0520			235	285590.373	4822144.459	14.985
	2174	263.55250	107.63400	66.6620			236	285577.970	4822135.381	15.210
B	30062	285637.575	4822106.616	23.691			237	BASE (coord de FICHERO DE BASES)		
H		1.6520	1.3000				238	Altura Aparato y Mira		
O	30063	399.99900	99.36800	354.9820			239	285940.440	4822291.748	27.586
D	30521	390.28700	100.61450	105.9520			240	285718.524	4822174.968	23.021
L		99					241	Nueva LINEA		
	2175	265.15350	108.03950	73.6220	99		242	285572.618	4822140.004	14.771
L		4					243	Nueva LINEA		
	2176	261.16050	107.67050	75.0500	4		244	285569.306	4822136.455	15.023
M		4.6200					245	Altura Mira		
	2177	262.11150	106.52850	78.7010			246	285566.317	4822139.038	12.667
	2178	261.41500	106.94100	85.1090			247	285560.189	4822140.809	11.462
M		5.6200					248	Altura Mira		
	2179	263.74950	104.92100	92.8880			249	285554.294	4822147.126	12.551
M		4.6200					250	Altura Mira		
	2180	264.06700	103.64400	96.4080			251	285551.233	4822149.149	15.208
L		4					252	Nueva LINEA		
M		1.0000					253	Altura Mira		
	2181	293.78550	108.35250	82.1140			254	285588.550	4822171.607	13.601
M		1.8000					255	Altura Mira		
	2182	293.17600	110.10500	77.9450			256	285590.640	4822167.613	11.223
M		4.6200					257	Altura Mira		
	2183	292.83850	108.02200	74.7640			258	285592.033	4822165.159	11.327
	2184	292.14900	108.25650	70.3300			259	285594.160	4822161.194	11.628
	2185	291.16500	106.92600	64.2990			260	285597.015	4822156.017	13.742
L		30					261	Nueva LINEA		
M		2.1500					262	Altura Mira		
	2186	300.64850	121.11650	20.3500	30		263	285627.708	4822123.134	16.566
	2187	344.99900	116.59150	27.3380			264	285641.736	4822132.701	16.149
M		4.6200					265	Altura Mira		
	2188	365.09400	107.03850	43.1550			266	285657.147	4822144.782	15.962
	2189	376.74350	105.13250	69.4070			267	285679.818	4822161.403	15.134
	2190	379.30750	104.84100	77.4620			268	285687.162	4822165.834	14.839
	2191	383.30150	103.88050	91.6500			269	285700.587	4822172.933	15.141
M		1.5000					270	Altura Mira		
	2192	387.01400	101.76200	111.6490			271	285719.035	4822182.906	20.754
M		4.6200					272	Altura Mira		
	2193	388.56350	98.73000	122.6020			273	285729.056	4822188.203	23.170
L		40					274	Nueva LINEA		
	2194	390.55850	98.91050	100.1750	40		275	285714.378	4822170.907	22.438
	2195	389.60300	98.85600	84.5040			276	285701.541	4822161.815	22.242
	2196	387.87900	98.31750	63.3990			277	285684.417	4822149.305	22.399
	2197	382.39450	97.77750	37.9160			278	285663.282	4822134.455	22.047
	2198	375.62000	95.07800	20.4340			279	285649.728	4822122.967	22.301
M		1.3000					280	Altura Mira		
	2199	374.42450	106.17000	18.7770			281	285648.440	4822121.822	22.226
L		750					282	Nueva LINEA		
	2200	384.23850	101.54350	18.0810	750		283	285650.217	4822119.535	23.605
L		23					284	Nueva LINEA		
M		4.6200					285	Altura Mira		
	2201	335.62950	112.69600	23.1570	23		286	285637.825	4822129.313	16.135
L		23					287	Nueva LINEA		
	2202	383.51300	103.85400	94.0600	23		288	285702.471	4822174.464	15.033
	2203	383.40350	103.52000	106.3770			289	285710.860	4822183.498	14.845
	2204	381.96950	103.01600	120.1430			290	285718.400	4822195.325	15.034
	2205	380.92500	102.60600	132.4500			291	285725.087	4822205.889	15.304
	2206	378.18600	102.42100	144.2440			292	285728.152	4822218.741	15.240
B	30521	285718.525	4822174.968	23.027			293	BASE (coord de FICHERO DE BASES)		
H		1.4480	1.3000				294	Altura Aparato y Mira		
O	30062	190.28750	99.69450	105.9500			295	285637.575	4822106.616	23.691
L		40					296	Nueva LINEA		
M		4.6200					297	Altura Mira		
	2207	221.22750	105.99700	55.7270	40		298	285664.325	4822163.120	14.613
	2208	226.37350	111.11750	29.4840			299	285689.751	4822171.078	14.732
	2209	262.26600	118.92550	17.6490			300	285703.182	4822181.994	14.685
	2210	293.45850	118.66000	17.6100			301	285708.303	4822188.375	14.767
	2211	297.31800	120.03400	20.4090			302	285707.715	4822191.085	13.538
	2212	313.77550	110.80150	39.1300			303	285705.945	4822211.427	13.248
	2213	316.26700	108.91150	49.1500			304	285704.462	4822221.561	12.998
L		23					305	Nueva LINEA		
	2214	348.14650	105.22700	55.4670	23		306	285729.920	4822229.061	15.306
	2215	350.41450	104.10000	65.9010			307	285734.365	4822238.796	15.614
L		4					308	Nueva LINEA		
	2216	351.51200	102.94400	58.8860	4		309	285733.675	4822231.806	17.133
	2217	351.48800	103.58950	53.9120			310	285732.369	4822226.983	16.817
	2218	352.53850	103.60550	49.0390			311	285731.896	4822222.067	17.079
	2219	353.21500	105.33700	37.1880			312	285729.024	4822210.507	16.741
L		40					313	Nueva LINEA		

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 # ---- Datos de Entrada ----  
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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2220	345.82250	104.76150	61.2710			314	285728.930	4822235.175	15.277
	2221	343.88350	106.81850	44.6210			315	285724.745	4822218.895	15.085
	2222	341.96050	108.68850	34.0030			316	285722.238	4822208.449	15.229
	2223	328.43500	112.94650	23.3160			317	285716.200	4822197.685	15.146
	2224	300.97950	117.73550	18.0530			318	285709.702	4822189.915	14.890
L		23			23		319	Nueva LINEA		
	2225	297.35750	120.07450	20.0140			320	285707.936	4822190.777	13.648
	2226	333.72450	112.12150	28.5800			321	285717.994	4822203.026	14.446
	2227	341.22400	108.82750	42.7000			322	285722.700	4822217.051	13.953
	2228	341.94600	106.92050	55.5170			323	285724.596	4822229.822	13.832
L		4			4		324	Nueva LINEA		
	2229	335.74700	106.47350	61.3820			325	285719.310	4822236.028	13.624
	2230	330.10050	108.67500	46.2500			326	285715.053	4822220.657	13.572
	2231	322.13150	112.88100	30.5510			327	285712.550	4822204.293	13.716
L		760			760		328	Nueva LINEA		
L		40			40		329	285721.434	4822206.945	15.362
M		1.0000					330	Nueva LINEA		
	2233	240.84600	107.14750	92.3610			331	Altura Mira		
	2234	239.01600	107.90500	81.0690			332	285627.142	4822183.487	13.128
	2235	238.09750	108.64500	72.9140			333	285638.246	4822180.130	13.435
M		4.6200					334	285646.372	4822178.563	13.604
	2236	238.27800	107.08750	59.7270			335	Altura Mira		
	2237	241.69100	109.45200	46.3370			336	285659.250	4822178.090	13.220
	2238	243.70550	111.34450	40.7870			337	285672.956	4822179.827	13.001
	2239	256.93350	115.29600	31.8960			338	285678.765	4822180.485	12.625
M		1.5800					339	285689.378	4822185.464	12.265
	2240	279.72950	120.09600	32.0590			340	Altura Mira		
L		4			4		341	285695.290	4822194.687	12.942
M		4.6200					342	Nueva LINEA		
	2242	241.86650	113.74350	41.2410			343	285678.531	4822180.218	12.658
M		5.6200					344	Altura Mira		
	2243	237.22300	112.54550	39.5170			345	285678.480	4822179.350	11.021
M		4.6200					346	Altura Mira		
	2244	234.49850	115.35600	36.1570			347	285679.798	4822176.364	11.118
L		4			4		348	Altura Mira		
	2245	245.32700	103.89900	106.1680			349	285683.416	4822174.731	11.218
	2246	247.78500	104.62850	84.8940			350	Nueva LINEA		
	2247	251.10600	105.87200	66.6120			351	285613.967	4822192.200	13.358
	2248	260.28500	108.43800	46.7920			352	285635.576	4822191.951	13.689
	2249	275.05000	109.19300	42.9670			353	285654.326	4822191.642	13.720
							354	285675.774	4822192.957	13.671
							355	285684.174	4822200.026	13.672
B	30063	285940.440	4822291.748	27.586			356	BASE (coord de FICHERO DE BASES)		
H		1.6500	1.3000				357	Altura Aparato y Mira		
O	30062	199.99900	100.76650	354.9920			358	285637.575	4822106.616	23.691
L		32			32		359	Nueva LINEA		
	2250	203.58550	101.36150	255.1640			360	285715.633	4822171.166	22.484
	2251	203.18850	101.37750	252.4940			361	285718.735	4822171.043	22.477
	2252	202.84000	101.33900	246.2140			362	285724.894	4822172.862	22.762
	2253	202.83350	101.44950	231.6370			363	285737.674	4822179.884	22.666
	2254	202.79000	101.60600	214.4660			364	285752.787	4822188.054	22.529
	2255	202.78600	101.82850	193.8780			365	285770.823	4822198.007	22.371
	2256	202.58900	102.06600	173.6370			366	285788.809	4822207.333	22.304
	2257	202.22300	102.33150	157.3280			367	285803.513	4822214.485	22.177
	2258	201.55600	102.64850	140.2540			368	285819.125	4822221.608	22.104
	2259	201.14400	102.80550	132.8090			369	285826.009	4822224.596	22.086
	2260	199.81200	103.26750	115.7880			370	285841.955	4822231.149	21.997
	2261	197.84400	103.85150	99.4740			371	285857.523	4822237.125	21.922
	2262	196.72850	104.16900	92.7070			372	285864.092	4822239.511	21.870
	2263	191.13900	105.53300	70.9200			373	285885.853	4822246.893	21.780
	2264	183.04650	107.32450	54.9100			374	285903.026	4822252.055	21.633
	2265	176.02750	108.73450	46.6810			375	285912.618	4822254.812	21.552
M		2.1500					376	Altura Mira		
	2266	171.62400	108.99900	42.0620			377	285917.744	4822256.834	21.160
M		4.6200					378	Altura Mira		
	2267	156.79300	106.58600	34.2240			379	285928.977	4822259.695	21.082
M		5.6200					380	Altura Mira		
	2268	130.88800	105.86800	28.9820			381	285942.270	4822262.947	20.948
L		32			32		382	Nueva LINEA		
	2269	131.09500	106.32900	27.8280			383	285942.106	4822264.108	20.854
M		4.6200					384	Altura Mira		
	2270	159.48900	106.61550	34.0110			385	285927.711	4822260.407	21.088
M		2.1500					386	Altura Mira		
	2271	178.08550	108.30650	45.5370			387	285912.123	4822256.582	21.161
	2272	183.20200	106.96400	51.3610			388	285905.331	4822254.682	21.479
	2273	193.71850	104.61850	73.2430			389	285882.168	4822247.695	21.777
	2274	197.49400	103.72650	89.1580			390	285866.384	4822242.376	21.871
	2275	199.78500	103.09000	104.8630			391	285851.258	4822236.821	21.999
	2276	201.79950	102.50550	128.1950			392	285829.301	4822228.058	22.043
M		1.3000					393	Altura Mira		
	2277	202.75400	102.46850	149.5670			394	285809.670	4822219.390	22.139
	2278	203.18250	102.18600	165.9740			395	285794.764	4822212.418	22.240
	2279	203.41050	101.88400	188.3620			396	285774.767	4822202.297	22.365
	2280	203.33950	101.59150	215.5910			397	285750.909	4822189.142	22.550



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2281	203.32900	101.41650	235.5590			398	285733.360	4822179.597	22.699
	2282	203.32900	101.32900	246.2510			399	285723.954	4822174.503	22.800
L	2283	203.49950	101.38750	251.8290			400	285718.734	4822172.443	22.452
		630				630	401	Nueva LINEA		
	2284	203.40700	101.47100	252.0140			402	285718.751	4822172.037	22.118
L	2285	203.27350	101.47100	252.2570			403	285718.789	4822171.456	22.112
		630				630	404	Nueva LINEA		
	2286	203.17200	101.49500	246.2880			405	285724.224	4822173.959	22.157
L	2287	203.00800	101.49600	246.2900			406	285724.526	4822173.401	22.153
		630				630	407	Nueva LINEA		
	2288	203.17400	101.83100	209.6010			408	285756.453	4822191.524	21.911
L	2289	202.98600	101.83250	209.6460			409	285756.711	4822190.960	21.905
		630				630	410	Nueva LINEA		
	2290	203.16900	102.13850	185.0070			411	285778.073	4822203.285	21.725
L	2291	202.95450	102.14100	185.0000			412	285778.379	4822202.742	21.718
		630				630	413	Nueva LINEA		
	2292	202.50500	102.70900	150.1210			414	285809.491	4822218.621	21.551
L	2293	202.24700	102.70700	150.2080			415	285809.712	4822218.048	21.552
		630				630	416	Nueva LINEA		
	2294	200.83500	103.48400	119.4810			417	285837.841	4822230.868	21.401
L	2295	200.52450	103.47700	119.6030			418	285838.034	4822230.306	21.408
		630				630	419	Nueva LINEA		
	2296	196.46150	104.93150	86.6280			420	285869.364	4822242.680	21.233
L	2297	196.04250	104.92000	86.8210			421	285869.530	4822242.102	21.233
		630				630	422	Nueva LINEA		
	2298	188.55500	107.06400	61.7420			423	285894.650	4822250.900	21.099
L	2299	187.99100	107.02350	61.9920			424	285894.827	4822250.325	21.111
		630				630	425	Nueva LINEA		
	2300	183.63400	108.28100	53.3500			426	285903.803	4822253.590	21.016
L	2301	183.00000	108.21300	53.7090			427	285903.935	4822252.963	21.026
		630				630	428	Nueva LINEA		
M		2.1500					429	Altura Mira		
	2302	178.35850	108.27850	47.3400			430	285910.844	4822255.314	20.947
	2303	177.39800	108.47050	46.4150			431	285911.976	4822255.606	20.929
M	2304	172.16250	109.38250	41.7120			432	285917.661	4822257.347	20.961
		4.6200					433	Altura Mira		
L	2305	130.69300	108.57800	28.5180			434	285942.319	4822263.551	20.785
M		30				30	435	Nueva LINEA		
		5.6200					436	Altura Mira		
M	2306	140.17100	106.40800	28.7640			437	285938.086	4822263.227	20.726
		2.1500					438	Altura Mira		
	2307	175.23350	109.30250	40.9230			439	285916.486	4822259.108	21.128
	2308	189.80950	106.05350	56.0640			440	285898.069	4822255.423	21.763
	2309	196.70900	104.27250	69.8740			441	285882.914	4822252.363	22.400
	2310	198.11150	104.09950	72.5510			442	285879.813	4822252.173	22.418
	2311	205.54700	103.30800	84.9640			443	285864.468	4822253.964	22.674
	2312	206.30650	103.02300	97.0520			444	285853.131	4822249.618	22.480
	2313	206.65850	102.26850	103.0630			445	285847.432	4822247.500	23.415
	2314	206.99950	101.87350	109.1260			446	285841.691	4822245.416	23.876
	2315	207.40700	101.95550	118.2860			447	285833.087	4822242.214	23.454
	2316	207.92000	101.48200	132.9380			448	285819.320	4822237.042	23.993
	2317	207.90050	101.32500	148.3400			449	285805.299	4822230.659	24.000
	2318	207.85950	101.20800	161.6310			450	285793.228	4822225.088	24.021
	2319	207.76950	100.98850	178.5350			451	285777.926	4822217.882	24.316
	2320	207.10600	100.98700	196.6110			452	285762.330	4822208.543	24.040
	2321	206.60650	100.79300	211.6020			453	285749.450	4822200.694	24.453
	2322	206.24100	100.97150	223.6020			454	285739.182	4822194.377	23.677
	2323	206.07050	100.93700	229.5950			455	285734.055	4822191.213	23.710
L	2324	205.95150	101.07300	235.4640			456	285728.980	4822188.251	23.121
		750				750	457	Nueva LINEA		
M		1.3000					458	Altura Mira		
	2325	201.97300	101.00800	296.3540			459	285682.947	4822145.118	23.250
	2326	202.59450	101.24000	255.3130			460	285717.398	4822167.604	22.968
L		60				60	461	Nueva LINEA		
	2327	202.55800	101.30500	251.9890			462	285720.377	4822169.096	22.775
	2328	202.84200	101.30850	251.9930			463	285719.829	4822170.077	22.761
	2329	202.88550	101.34800	246.3240			464	285724.713	4822172.963	22.725
L	2330	202.59200	101.34250	246.2950			465	285725.288	4822171.984	22.747
		794				794	466	Nueva LINEA		
	2331	202.72950	101.30950	249.2300			467	285722.461	4822171.026	22.814
	2332	202.74250	101.31450	248.6680			468	285722.928	4822171.343	22.806
	2333	202.80000	101.31600	248.6740			469	285722.814	4822171.536	22.800
L		4				4	470	Nueva LINEA		
M		2.1500					471	Altura Mira		
	2334	204.45600	101.07900	239.0170			472	285728.316	4822181.677	23.039
	2335	205.65900	100.99800	228.2350			473	285735.931	4822190.486	23.512
	2336	205.81550	100.97850	215.1440			474	285747.426	4822196.768	23.782
	2337	206.44050	101.19450	199.8080			475	285760.338	4822205.307	23.340
	2338	206.74950	101.24050	180.9970			476	285776.918	4822214.239	23.562
	2339	207.23250	101.33550	163.0170			477	285792.641	4822223.060	23.668
	2340	206.77550	101.14200	160.7200			478	285795.205	4822222.980	24.205
	2341	206.82700	101.44000	156.6940			479	285798.802	4822224.823	23.544
	2342	206.01300	101.85600	142.4090			480	285812.524	4822229.294	22.936
	2343	206.46050	102.12500	122.5730			481	285829.981	4822238.776	22.996
	2344	204.94000	102.43850	109.3790			482	285843.045	4822242.146	22.898

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2345	204.88100	102.70650	101.0190						
	2346	199.75900	103.46800	81.7700			483	285850.547	4822245.861	22.793
L					4		484	285870.937	4822248.902	22.634
	2347	192.84500	104.91300	64.2430	4		485	Nueva LINEA		
L					4		486	285889.881	4822252.424	22.133
	2348	190.80500	105.27300	64.2860			487	Nueva LINEA		
	2349	197.12550	103.71550	80.1250			488	285891.156	4822250.816	21.768
	2350	199.70050	103.00950	97.2230			489	285874.144	4822246.993	22.413
	2351	202.02100	102.44250	118.7260			490	285857.819	4822240.710	22.492
	2352	202.79450	102.13200	146.5360			491	285837.301	4822233.118	22.533
L		711			711		492	285812.250	4822220.925	22.181
	2353	178.81100	108.18350	46.9720			493	Nueva LINEA		
	2354	177.98900	108.34000	46.1360			494	285910.812	4822255.800	21.065
	2355	176.90700	107.96500	46.6870			495	285911.807	4822256.078	21.059
	2356	177.68900	107.84300	47.5300			496	285912.061	4822255.137	21.260
L		60			60		497	285911.086	4822254.825	21.245
M		1.5900					498	Nueva LINEA		
	2357	200.09100	111.96900	40.7400			499	Altura Mira		
	2358	199.39550	112.44550	39.2020			500	285906.262	4822270.924	20.032
	2359	198.88350	112.40500	39.2910			501	285907.821	4822271.382	20.031
	2360	199.49050	111.95500	40.8500			502	285907.908	4822271.071	20.038
L		60			60		503	285906.367	4822270.545	20.020
M		1.9000					504	Nueva LINEA		
	2361	200.13550	111.94500	40.7820			505	Altura Mira		
M		3.1500					506	285906.210	4822270.925	19.729
	2362	203.70450	111.97150	40.3380			507	Altura Mira		
	2363	203.45700	112.18800	39.9460			508	285905.485	4822273.083	18.545
	2364	200.04850	112.36450	40.4150			509	285905.919	4822273.142	18.485
L		60			60		510	285906.589	4822271.092	18.286
M		3.6500					511	Nueva LINEA		
	2365	199.66250	112.70650	39.5550			512	285907.468	4822271.353	18.244
M		3.7000					513	Altura Mira		
	2366	203.54250	111.82350	38.7610			514	285906.882	4822273.719	18.429
M		3.6000					515	Altura Mira		
	2367	203.62800	111.73350	38.5350			516	285907.045	4822273.864	18.474
M		3.6000					517	Altura Mira		
	2368	199.39500	109.64900	38.8420			518	285907.871	4822271.412	19.771
L		60			60		519	Nueva LINEA		
B	30063	285940.440	4822291.748	27.586			520	BASE (coord de FICHERO DE BASES)		
M		1.3000					521	Altura Mira		
O	30522	196.19200	106.16400	61.1210			522	285890.523	4822256.974	22.032
L		40			40		523	Nueva LINEA		
M		2.1500					524	Altura Mira		
	2369	204.32850	101.08650	251.5560			525	285717.421	4822175.455	22.797
	2370	205.94900	101.04550	234.3690			526	285729.966	4822188.723	23.241
	2371	206.79100	100.86800	230.3560			527	285732.240	4822193.228	23.949
	2372	208.42750	100.72000	224.8250			528	285734.828	4822200.846	24.547
M		2.6500					529	Altura Mira		
	2373	211.99750	100.79550	217.6500			530	285736.774	4822215.043	23.870
M		3.2500					531	Altura-Mira		
	2374	215.23700	100.94450	210.3560			532	285740.089	4822227.723	22.868
L		23			23		533	Nueva LINEA		
M		2.1500					534	Altura Mira		
	2375	207.09600	102.87400	97.0710			535	285852.589	4822250.691	22.706
	2376	215.49050	102.87800	94.7160			536	285850.197	4822263.305	22.806
	2377	221.47650	102.59900	107.3640			537	285835.552	4822269.250	22.705
	2378	225.56200	102.73750	120.5750			538	285821.278	4822274.089	21.904
L		178			178		539	Nueva LINEA		
	2379	225.62700	102.74500	120.5570			540	285821.279	4822274.213	21.890
	2380	222.66850	102.58800	109.4110			541	285833.141	4822270.826	22.640
	2381	216.44300	103.03700	92.7160			542	285851.707	4822265.234	22.665
	2382	206.68100	103.70700	78.8800			543	285869.319	4822257.943	22.496
	2383	201.37250	104.26250	71.2100			544	285879.033	4822256.008	22.322
	2384	195.05300	105.52500	59.1750			545	285892.679	4822257.190	21.957
	2385	182.50350	108.34100	43.7330			546	285910.971	4822259.944	21.373
L		178			178		547	Nueva LINEA		
L		178			178		548	Nueva LINEA		
	2386	188.25100	109.40850	39.2030			549	285911.628	4822265.797	21.313
	2387	203.11800	105.28800	62.1950			550	285886.037	4822262.051	21.926
	2388	216.70250	103.39900	84.8620			551	285859.148	4822267.818	22.558
	2389	222.40550	102.85950	93.0530			552	285849.274	4822273.580	22.908
L		40			40		553	Nueva LINEA		
	2390	209.52000	102.71000	96.1830			554	285851.897	4822254.406	22.993
	2391	212.63850	101.10300	102.8830			555	285843.814	4822256.463	25.304
	2392	213.36200	100.53450	103.9940			556	285842.360	4822257.190	26.214
	2393	214.96750	100.57600	102.5910			557	285842.855	4822260.107	26.158
M		1.5000					558	Altura Mira		
	2394	220.28500	101.52250	110.4340			559	285832.946	4822266.577	25.096
B	30063	285940.440	4822291.748	27.586			560	BASE (coord de FICHERO DE BASES)		
M		1.3000					561	Altura Mira		
O	30523	86.08350	99.54550	32.1570			562	285962.766	4822268.601	28.169
L		23			23		563	Nueva LINEA		
M		4.6200					564	Altura Mira		
	2395	208.45450	100.02700	215.3850			565	285743.420	4822204.722	24.528

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2396	209.44750	100.08000	216.4590			566	285741.098	4822207.387	24.347
	2397	212.07100	100.31750	210.2520			567	285743.605	4822217.853	23.570
	2398	214.15000	100.55200	206.5120			568	285744.845	4822225.520	22.828
L		40			40		569	Nueva LINEA		
M		2.1500					570	Altura Mira		
	2399	208.95100	100.63650	213.5490			571	285744.443	4822206.994	24.954
	2400	211.66750	100.65550	207.4330			572	285746.718	4822217.618	24.953
	2401	213.11500	100.70000	204.7000			573	285747.658	4822222.960	24.838
	2402	214.95300	100.81050	199.9210			574	285750.302	4822230.030	24.543
L		4			4		575	Nueva LINEA		
	2403	214.67800	100.75350	198.1970			576	285752.205	4822229.748	24.743
	2404	214.62250	100.81550	182.2220			577	285767.429	4822234.595	24.754
	2405	215.27150	100.92550	163.9290			578	285784.285	4822241.923	24.705
	2406	215.02700	101.11500	141.2600			579	285806.051	4822248.299	24.613
	2407	212.88900	101.28250	114.3860			580	285832.866	4822252.933	24.783
L		40			40		581	Nueva LINEA		
	2408	220.75300	102.58400	106.0500			582	285837.096	4822268.339	22.783
	2409	217.61850	102.18650	99.0090			583	285845.128	4822265.165	23.687
	2410	216.03350	102.20050	96.9460			584	285847.791	4822263.404	23.736
	2411	213.71400	101.76550	98.9430			585	285846.979	4822259.388	24.343
	2412	211.22350	101.48850	101.8980			586	285845.555	4822254.678	24.704
L		23			23		587	Nueva LINEA		
	2413	212.31800	101.08950	104.6710			588	285842.320	4822255.346	25.295
	2414	214.10150	101.75950	99.1400			589	285846.597	4822259.894	24.347
	2415	215.41200	101.97200	98.1830			590	285846.883	4822262.124	24.046
	2416	217.38600	102.26000	101.9850			591	285842.367	4822264.008	23.467
	2417	219.75250	102.39800	105.8400			592	285837.669	4822266.764	23.101
L		178			178		593	Nueva LINEA		
M		1.3000					594	Altura Mira		
	2418	224.06050	103.48100	90.4290			595	285851.460	4822276.400	22.994
	2419	228.46100	103.72050	74.3540			596	285866.597	4822284.214	23.593
	2420	233.56050	103.85300	62.0040			597	285878.564	4822290.413	24.186
	2421	237.15350	103.95750	54.2260			598	285886.352	4822293.634	24.567
	2422	240.60300	104.06950	45.4550			599	285895.258	4822295.782	25.032
	2423	243.18450	104.41200	35.1840			600	285905.635	4822296.284	25.500
	2424	243.33100	104.78300	25.3290			601	285915.402	4822295.070	26.035
	2425	237.43500	105.40300	16.5750			602	285923.937	4822292.397	26.531
	2426	197.93000	106.30850	8.8880			603	285933.048	4822286.892	27.057
	2427	137.98400	103.36450	10.1640			604	285939.954	4822281.610	27.399
L		178			178		605	Nueva LINEA		
	2428	77.10300	101.84350	6.9610			606	285945.927	4822287.469	27.734
	2429	62.29850	108.66950	2.1490			607	285942.375	4822290.861	27.644
	2430	271.85850	105.21950	7.1300			608	285934.496	4822295.642	27.352
	2431	263.11300	104.04700	19.9200			609	285922.476	4822300.263	26.671
	2432	256.66400	103.77150	33.3890			610	285909.033	4822302.905	25.959
	2433	251.00300	103.55250	44.9150			611	285897.016	4822302.947	25.431
	2434	245.07050	103.51500	55.7750			612	285885.455	4822300.578	24.858
	2435	238.00500	103.55950	68.1680			613	285872.458	4822295.030	24.127
	2436	231.53550	103.63000	82.7140			614	285857.978	4822287.341	23.223
	2437	227.59150	103.51350	99.4680			615	285847.784	4822280.318	22.450
L		40			40		616	Nueva LINEA		
M		4.6200					617	Altura Mira		
	2438	74.77700	97.42950	12.5100			618	285950.571	4822284.426	25.121
M		1.3000					619	Altura Mira		
	2439	60.91400	110.34950	10.2750			620	285949.747	4822287.724	26.273
	2440	50.57400	109.22200	7.7120			621	285947.842	4822289.892	26.823
	2441	354.19700	122.95950	3.8610			622	285941.516	4822295.196	26.574
	2442	296.05400	110.51200	8.6880			623	285935.526	4822298.769	26.508
L		23			23		624	Nueva LINEA		
M		5.6200					625	Altura Mira		
	2443	68.37850	108.83800	22.4170			626	285959.647	4822280.614	20.514
M		4.6200					627	Altura Mira		
	2444	47.92300	113.12350	20.5380			628	285960.126	4822287.675	20.412
	2445	33.96600	115.44850	18.6790			629	285958.570	4822292.024	20.128
L		642			642		630	Nueva LINEA		
L		30			30		631	Nueva LINEA		
	2446	33.80750	116.12700	22.5320			632	285962.249	4822292.134	18.969
	2447	2.38650	121.06950	18.2160			633	285955.465	4822300.177	18.697
	2448	361.71900	122.30200	18.2450			634	285947.439	4822307.390	18.354
L		42			42		635	Nueva LINEA		
M		2.1500					636	Altura Mira		
	2449	33.56900	118.82650	27.4040			637	285966.648	4822292.310	19.100
	2450	30.53800	112.84400	40.3590			638	285979.886	4822294.476	18.999
	2451	22.79100	109.78550	51.3560			639	285990.270	4822301.370	19.223
	2452	3.07300	110.26650	55.0460			640	285988.108	4822317.819	18.248
	2453	398.72200	109.67250	58.6980			641	285989.325	4822323.001	18.202
L		4			4		642	Nueva LINEA		
	2454	398.27700	110.17750	55.7520			643	285986.606	4822321.719	18.211
	2455	398.23150	113.25700	42.6320			644	285975.409	4822314.485	18.272
	2456	397.11700	121.97600	26.0040			645	285960.718	4822305.444	18.287
	2457	386.39250	130.19200	18.9380			646	285952.623	4822303.385	18.437
L		740			740		647	Nueva LINEA		
M		4.1500					648	Altura Mira		
	2458	34.34900	117.81150	22.3000			649	285961.872	4822291.945	18.928
L		642			642		650	Nueva LINEA		

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		2.1500								
	2459	22.91950	109.76650	52.6960			651	Altura Mira		
	2460	25.71600	109.31550	53.2450			652	285991.592	4822301.518	19.034
L		642					653	285992.565	4822299.349	19.323
	2461	29.18250	109.07650	54.5020			654	Nueva LINEA		
	2462	31.40750	109.10000	55.4150			655	285994.169	4822296.616	19.342
L		44					656	285995.205	4822294.785	19.192
	2463	30.69050	108.89200	57.3620			657	Nueva LINEA		
M		1.9000					658	285997.117	4822295.532	19.100
	2464	28.81700	107.57500	71.5060			659	Altura Mira		
M		2.1500					660	286011.113	4822298.560	18.848
	2465	26.56000	106.08600	86.2260			661	Altura Mira		
M		1.3000					662	286025.530	4822303.006	18.856
	2466	25.88400	105.99100	96.7970			663	Altura Mira		
L		42					664	286035.836	4822305.402	18.841
	2467	24.48750	105.96650	96.7910			665	Nueva LINEA		
	2468	15.21050	106.41000	93.6160			666	286035.511	4822307.490	18.878
	2469	8.82650	106.62500	92.6230			667	286029.147	4822320.146	18.526
	2470	2.99750	106.70500	92.5740			668	286024.923	4822328.477	18.315
L		4					669	286021.157	4822336.018	18.205
	2471	1.91400	107.13050	87.1980			670	Nueva LINEA		
	2472	1.94450	108.13000	76.1000			671	286015.694	4822334.704	18.190
	2473	2.13900	109.56300	64.5400			672	286006.010	4822329.135	18.244
L		4					673	285995.971	4822323.186	18.278
L		4					674	Nueva LINEA		
	2474	8.34200	106.43100	95.5660			675	Nueva LINEA		
	2475	8.66250	105.45500	111.1160			676	286027.344	4822330.318	18.299
	2476	9.14200	104.96900	121.2410			677	286041.854	4822336.149	18.427
	2477	9.61000	104.59750	130.9940			678	286051.526	4822339.390	18.483
	2478	10.76650	104.27050	145.8460			679	286060.891	4822342.360	18.485
	2479	10.69600	104.09150	153.3290			680	286075.597	4822345.673	18.161
L		91					681	286082.495	4822348.607	18.090
M		2.1500					682	Nueva LINEA		
	2481	16.26700	103.69900	143.3720			683	Altura Mira		
M		1.4500					684	286077.460	4822333.118	18.762
	2482	16.16800	104.10600	140.3180			685	Altura Mira		
L		92					686	286074.426	4822332.429	18.743
M		6.5000					687	Nueva LINEA		
	2485	16.00650	101.93300	126.6920			688	Altura Mira		
M		6.7000					689	286061.517	4822328.846	18.891
	2486	16.26700	101.85450	125.2480			690	Altura Mira		
M		4.6200					691	286060.291	4822327.934	18.889
	2487	18.80950	102.90350	124.7500			692	Altura Mira		
	2488	19.00350	102.85750	125.4990			693	286061.084	4822322.976	18.929
L		92					694	286061.907	4822322.795	18.986
M		5.6200					695	Nueva LINEA		
	2489	20.79800	102.39400	126.4490			696	Altura Mira		
L		91					697	286063.697	4822319.576	18.863
M		4.6200					698	Nueva LINEA		
	2490	24.26450	102.40400	151.2390			699	Altura Mira		
	2491	24.62950	102.58700	134.1110			700	286089.453	4822316.959	18.908
M		5.6200					701	286072.688	4822313.343	19.169
	2492	26.25850	102.08900	133.6590			702	Altura Mira		
L		44					703	286072.788	4822309.897	19.232
M		4.6200					704	Nueva LINEA		
	2493	10.67950	102.68600	155.2480			705	Altura Mira		
	2494	12.80350	102.63300	156.0410			706	286084.427	4822349.424	18.069
M		5.6200					707	286087.021	4822344.861	18.166
	2495	21.21300	102.11350	160.1880			708	Altura Mira		
M		4.6200					709	286096.835	4822325.988	18.301
	2496	23.80350	102.43600	162.7590			710	Altura Mira		
	2497	25.91500	102.24200	164.3680			711	286100.600	4822320.039	18.391
L		740					712	286103.060	4822314.942	18.830
	2498	25.35750	102.22800	164.6760			713	Nueva LINEA		
L		740					714	286103.156	4822316.412	18.856
	2499	29.45500	104.16800	71.6840			715	Nueva LINEA		
L		741					716	286011.705	4822297.897	19.926
	2500	30.63100	104.15800	69.1730			717	Nueva LINEA		
	2501	71.12850	111.40400	22.5760			718	286009.308	4822296.410	20.102
							719	285959.160	4822279.788	20.594
B	30522	285890.523	4822256.974	22.032			720	BASE (coord de FICHERO DE BASES)		
H		1.6430	1.3000				721	Altura Aparato y Mira		
O	30063	396.19200	94.56650	61.0580			722	285940.440	4822291.748	27.586
D	30524	20.10650	101.00250	225.7460			723	286110.151	4822309.051	18.824
D	30525	20.53900	100.85700	330.0130			724	286212.112	4822330.924	17.940
B	30522	285890.523	4822256.974	22.032			725	BASE (coord de FICHERO DE BASES)		
H		1.6500	1.3000				726	Altura Aparato y Mira		
O	30063	396.19150	94.57250	61.0580			727	285940.440	4822291.748	27.586
L		23					728	Nueva LINEA		
	2502	16.41850	101.73350	58.0020			729	285946.070	4822273.595	20.803
	2503	15.56750	101.91650	48.5360			730	285936.811	4822271.501	20.921
	2504	13.01500	101.95600	45.3990			731	285933.239	4822272.286	20.987
	2505	399.75500	102.08500	41.1900			732	285925.566	4822278.579	21.033
	2506	382.61100	102.65550	37.3090			733	285915.905	4822284.274	20.826



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

06 ABO 2007

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2507	372.59300	104.29850	34.5390						
	2508	369.29550	106.49650	32.3130			734	285909.742	4822285.577	20.052
L		23					735	285907.046	4822284.547	19.090
	2509	359.83350	105.76750	30.6850	23		736	Nueva LINEA		
	2510	346.22150	103.75800	30.8180			737	285902.176	4822285.224	19.606
	2511	322.87550	102.50800	30.5570			738	285895.952	4822287.255	20.564
	2512	306.60100	101.46150	31.0840			739	285884.777	4822286.962	21.179
	2513	285.27750	99.55350	34.6350			740	285877.148	4822285.024	21.669
	2514	264.13600	99.46550	42.3030			741	285866.168	4822281.598	22.625
L		60					742	285852.596	4822275.708	22.737
	2515	362.52100	104.80000	33.0680	60		743	Nueva LINEA		
	2516	365.57200	104.72750	33.6440			744	285904.372	4822286.899	19.891
	2517	365.59200	105.33650	33.5730			745	285906.057	4822286.713	19.886
	2518	365.07400	105.33650	33.4910			746	285906.022	4822286.622	19.571
M		2.1500					747	285905.743	4822286.675	19.578
	2519	366.45450	106.42600	31.8520			748	Altura Mira		
	2520	364.91450	106.48900	33.5820			749	285905.583	4822284.857	18.322
L		60					750	285905.684	4822286.744	18.115
	2521	363.28100	106.76450	33.2500	60		751	Nueva LINEA		
	2522	364.84550	106.84100	31.3130			752	285904.766	4822286.811	18.006
M		1.3000					753	285904.621	4822284.731	18.174
	2523	363.13100	105.39500	33.1510			754	Altura Mira		
	2524	362.62400	105.43500	33.0520			755	285904.683	4822286.817	19.576
L		40					756	285904.402	4822286.838	19.564
	2525	359.95150	105.24400	31.4480	40		757	Nueva LINEA		
	2526	359.58200	105.28250	25.7280			758	285902.528	4822285.925	19.795
	2527	366.09100	105.26250	21.3260			759	285900.206	4822280.715	20.250
	2528	385.64600	104.41100	17.4320			760	285900.516	4822275.731	20.621
	2529	396.80250	104.01800	20.8930			761	285902.958	4822269.131	21.175
	2530	395.98850	103.49000	24.8970			762	285907.746	4822268.728	21.064
	2531	383.61300	104.69750	28.4120			763	285910.875	4822271.249	21.018
	2532	372.95650	105.08900	33.1250			764	285910.141	4822277.419	20.287
L		23					765	285909.095	4822284.275	19.737
M		2.1500			23		766	Nueva LINEA		
	2533	368.08400	107.11900	30.2710			767	Altura Mira		
M		3.1500					768	285905.491	4822283.067	18.154
	2534	383.22850	105.78300	23.5850			769	Altura Mira		
L		23					770	285906.682	4822274.020	18.393
	2535	380.94300	105.96900	22.9350	23		771	Nueva LINEA		
M		2.1500					772	285905.628	4822274.099	18.385
	2536	365.48750	106.90650	30.6370			773	Altura Mira		
L		4					774	285904.588	4822283.989	18.215
M		1.3000			4		775	Nueva LINEA		
	2537	266.59500	99.56250	36.8220			776	Altura Mira		
	2538	278.02400	98.60750	23.8090			777	285850.164	4822274.544	22.635
	2539	292.77250	99.00450	17.5290			778	285871.969	4822271.885	22.903
	2540	302.35200	101.66450	10.1470			779	285879.747	4822270.797	22.656
	2541	278.21100	99.41300	14.9240			780	285885.556	4822265.818	22.117
	2542	267.28800	99.04700	22.1650			781	285878.918	4822266.356	22.520
L		4					782	285871.163	4822267.761	22.714
	2543	384.56350	102.93000	35.6450	4		783	Nueva LINEA		
	2544	392.29550	103.12650	30.0960			784	285915.557	4822282.296	20.742
	2545	399.91850	103.17050	24.2040			785	285914.091	4822275.633	20.905
L		741					786	285911.133	4822269.608	21.177
	2546	350.32600	102.96800	9.7450	741		787	Nueva LINEA		
	2547	14.75200	100.65300	51.9850			788	285892.855	4822266.425	21.928
L		710					789	285939.916	4822273.174	21.849
	2548	6.06400	102.93250	21.7110	710		790	Nueva LINEA		
L		710					791	285910.020	4822266.474	21.382
	2549	275.46900	102.98650	9.1570	710		792	Nueva LINEA		
							793	285883.169	4822262.413	21.953
B	30523	285962.766	4822268.601	28.169			794	BASE (coord de FICHERO DE BASES)		
H		1.6480	1.3000				795	Altura Aparato y Mira		
O	30063	286.08300	101.84400	32.1690			796	285940.440	4822291.748	27.586
L		44					797	Nueva LINEA		
	2550	326.43850	124.41700	21.7730	44		798	285960.080	4822288.613	20.369
	2551	359.38150	122.92950	24.7600			799	285971.447	4822290.084	19.791
	2552	378.33750	117.74850	31.9450			800	285982.120	4822292.447	19.726
	2553	382.36850	114.92550	38.0110			801	285987.834	4822295.775	19.687
M		2.1500					802	Altura Mira		
	2554	380.25700	112.17350	43.4320			803	285990.623	4822300.884	19.413
L		642					804	Nueva LINEA		
	2555	380.73700	112.02850	43.9950	642		805	285991.242	4822301.103	19.404
	2556	383.77300	112.17800	43.3080			806	285992.278	4822299.209	19.433
L		642					807	Nueva LINEA		
	2557	388.44600	112.36750	42.5340	642		808	285993.859	4822296.439	19.456
	2558	391.63500	112.23600	42.1480			809	285994.932	4822294.620	19.616
L		42					810	Nueva LINEA		
	2559	392.85450	112.26250	42.0630	42		811	285995.356	4822293.945	19.615
	2560	395.92250	111.75550	43.6220			812	285997.844	4822293.264	19.658
	2561	0.89600	110.15800	50.1790			813	286005.393	4822293.845	19.694
	2562	1.73750	109.18450	55.3890			814	286010.295	4822295.905	19.704
	2563	4.68800	107.74900	65.6840			815	286020.743	4822298.424	19.692
	2564	6.49300	106.62450	77.0370			816	286031.866	4822301.703	19.666
	2565	8.48900	105.67300	89.8530			817	286044.651	4822304.717	19.671

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# ----- Datos de Entrada -----

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M	2566	10.22350	105.17500	97.9430			818	286053.123	4822305.547	19.715
		1.3000					819	Altura Mira		
	2567	11.47000	105.39250	108.0960			820	286063.241	4822307.406	19.372
B	30524	286110.151	4822309.050	18.836			821	BASE (coord de FICHERO DE BASES)		
H		1.6500	1.3000				822	Altura Aparato y Mira		
O	30522	220.10650	99.20150	225.7350			823	285890.523	4822256.974	22.032
L		92				92	824	Nueva LINEA		
M		4.6200					825	Altura Mira		
	2568	257.69850	94.41800	36.6820			826	286075.923	4822321.843	19.078
	2569	261.48300	93.93200	33.1740			827	286079.959	4822322.429	19.023
	2570	274.06550	95.43200	39.6110			828	286077.876	4822331.838	18.706
L		642				642	829	Nueva LINEA		
M		1.3000					830	Altura Mira		
	2571	235.45750	100.20200	46.3830			831	286063.770	4822309.436	19.039
M		3.1500					832	Altura Mira		
	2572	236.68550	97.25000	43.3370			833	286066.871	4822310.245	19.208
L		642				642	834	Nueva LINEA		
M		1.3000					835	286070.832	4822309.823	19.287
	2574	236.13300	99.85000	37.2260			836	Altura Mira		
	2575	236.78250	100.40150	27.9460			837	286072.932	4822309.755	19.274
	2576	239.09200	100.56650	24.4600			838	286082.217	4822309.864	19.010
	2577	248.96500	101.15100	16.1350			839	286085.744	4822310.649	18.968
	2578	282.44000	103.13900	8.3400			840	286094.409	4822312.578	18.894
L		44				44	841	286104.035	4822314.705	18.775
	2579	286.28700	103.14500	8.5850			842	Nueva LINEA		
	2580	294.95650	102.99900	10.3440			843	286104.219	4822315.241	18.762
	2581	298.14300	101.82300	21.1810			844	286104.081	4822317.412	18.699
	2582	299.99150	101.58800	33.0290			845	286098.587	4822326.785	18.580
L		44				44	846	286092.927	4822337.220	18.362
L		44				44	847	Nueva LINEA		
	2583	305.38700	101.63300	32.9480			848	Nueva LINEA		
	2584	306.37450	102.08100	22.8550			849	286095.410	4822338.504	18.341
	2585	312.67900	102.78450	10.7610			850	286100.246	4822329.633	18.439
L		746				746	851	286106.470	4822319.151	18.715
	2586	318.02500	102.72750	9.2790			852	Nueva LINEA		
	2587	326.65850	103.67800	7.5780			853	286107.718	4822317.996	18.789
	2588	329.42800	104.43300	7.8530			854	286109.171	4822316.552	18.748
L		42				42	855	286109.475	4822316.855	18.640
	2589	327.71200	104.31900	7.4850			856	Nueva LINEA		
	2590	332.37750	104.86300	6.9230			857	286109.306	4822316.470	18.679
	2591	385.72000	102.51450	13.1360			858	286109.875	4822315.947	18.658
	2592	6.72400	101.19050	31.3210			859	286119.547	4822318.215	18.667
	2593	11.77100	100.68550	49.4650			860	286138.443	4822322.474	18.600
	2594	8.52650	100.64350	51.5210			861	286156.377	4822326.647	18.654
L		746				746	862	286157.302	4822329.808	18.665
	2595	10.97350	100.88150	57.0980			863	Nueva LINEA		
	2596	10.90500	100.65400	56.7780			864	286163.249	4822330.029	18.396
	2597	12.11650	100.74950	56.4790			865	286162.931	4822329.969	18.603
L		44				44	866	286163.039	4822328.856	18.521
	2598	9.38450	100.62150	56.3180			867	Nueva LINEA		
	2599	9.63200	100.67600	56.9990			868	286161.994	4822331.044	18.636
	2600	13.21300	100.84400	56.3960			869	286162.706	4822331.106	18.581
	2601	13.60100	100.90050	57.9250			870	286163.293	4822327.914	18.439
M		2.1500					871	286164.850	4822328.092	18.367
	2602	4.93500	100.12900	59.0800			872	Altura Mira		
	2603	393.57250	100.12500	64.2250			873	286162.794	4822335.866	18.217
L		178				178	874	286161.295	4822347.898	18.210
M		1.3400					875	Nueva LINEA		
	2604	218.81800	99.08800	164.0100			876	285951.381	4822267.993	20.687
	2605	218.88600	99.42850	150.6560			877	Altura Mira		
	2606	219.06500	99.48500	135.4300			878	285964.259	4822271.489	20.500
	2607	219.15200	99.48200	123.8350			879	285978.908	4822275.654	20.243
	2608	219.66400	99.51300	114.9300			880	285990.103	4822278.677	20.155
	2609	220.25200	99.55400	100.8450			881	285998.512	4822281.758	20.026
	2610	220.61900	99.64400	86.7890			882	286011.976	4822286.009	19.853
	2611	220.89600	99.73300	72.0030			883	286025.547	4822289.707	19.632
	2612	221.32900	99.78950	53.9510			884	286039.891	4822293.308	19.448
	2613	221.52900	99.85000	41.3710			885	286057.427	4822297.613	19.325
	2614	221.40350	100.45300	20.6550			886	286069.693	4822300.407	19.244
	2615	220.99650	102.98550	5.6360			887	286089.961	4822304.695	18.999
	2616	22.15950	103.24150	8.8390			888	286104.655	4822307.828	18.882
	2617	21.71700	101.54600	24.4700			889	286118.802	4822310.809	18.696
	2618	21.69600	101.15100	39.4730			890	286134.089	4822314.090	18.552
	2619	21.67650	101.01400	56.2900			891	286148.768	4822317.194	18.432
	2620	21.66950	100.88700	74.4380			892	286165.219	4822320.681	18.250
	2621	21.66850	100.82900	91.3150			893	286182.973	4822324.439	18.109
	2622	21.61750	100.74200	104.7470			894	286199.485	4822327.930	17.957
	2623	21.48100	100.66650	112.7220			895	286212.610	4822330.789	17.926
	2624	20.66000	100.62450	121.1520			896	286220.361	4822332.681	17.967
M		2.1900					897	286228.267	4822335.974	17.959
	2625	19.44300	100.18650	127.6460			898	Altura Mira		
	2626	18.02950	100.22250	132.9970			899	286234.039	4822339.792	17.923
	2627	16.62100	100.25000	137.1710			900	286238.489	4822343.939	17.832
							901	286241.688	4822347.953	17.759



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L. VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2628	14.41500	100.25500	142.6740						
	2629	12.40750	100.26950	146.6900			902	286245.481	4822354.230	17.726
	2630	10.80250	100.28000	149.2220			903	286247.757	4822359.865	17.676
	2631	9.31600	100.28250	150.9690			904	286248.784	4822364.254	17.641
	2632	7.74500	100.29650	152.3340			905	286249.065	4822368.160	17.628
	2633	6.84750	100.31150	152.8070			906	286248.806	4822372.135	17.588
L		178					907	286248.331	4822374.285	17.550
	2634	6.62250	100.39800	148.5260		178	908	Nueva LINEA		
	2635	7.90900	100.38300	146.8310			909	286244.234	4822372.931	17.369
	2636	9.67900	100.37850	144.0820			910	286243.953	4822369.511	17.414
	2637	11.00100	100.39100	141.6040			911	286243.046	4822364.706	17.441
	2638	12.09850	100.39450	139.5220			912	286241.868	4822361.025	17.428
	2639	14.75050	100.38250	132.5890			913	286240.795	4822358.016	17.433
	2640	16.78150	100.37050	123.9160			914	286236.133	4822350.372	17.501
	2641	17.85500	100.32350	117.0290			915	286229.065	4822343.894	17.576
	2642	18.11300	100.32300	109.4960			916	286222.995	4822340.059	17.702
	2643	17.10600	100.25850	84.1570			917	286215.848	4822337.635	17.741
	2644	14.86350	100.03700	56.2910			918	286191.031	4822332.302	17.955
	2645	13.76800	99.95000	48.9550			919	286163.669	4822326.499	18.263
	2646	394.07500	98.35600	14.0560			920	286156.427	4822325.023	18.335
	2647	332.66450	95.05350	6.0420			921	286121.407	4822317.461	18.659
	2648	281.91950	95.76050	7.7110			922	286109.937	4822315.070	18.765
	2649	238.26400	98.09500	22.8500			923	286104.460	4822314.227	18.809
	2650	231.86000	98.44400	38.2730			924	286087.343	4822310.246	18.980
	2651	230.57600	98.61400	45.1760			925	286071.934	4822307.207	19.231
	2652	226.91150	98.87550	66.6190			926	286065.091	4822305.965	19.280
	2653	224.65050	99.04050	92.9720			927	286044.070	4822300.685	19.473
	2654	222.93050	99.05950	117.8700			928	286018.399	4822294.108	19.698
	2655	221.79600	99.11550	143.8600			929	285994.381	4822286.971	20.038
	2656	221.20900	99.08100	165.6710			930	285969.355	4822279.589	20.296
L		741					931	285948.329	4822273.629	20.689
M		1.3400				741	932	Nueva LINEA		
	2657	334.33000	104.12750	7.7940			933	Altura Mira		
L		741				741	934	286110.078	4822316.827	18.641
M		2.1900					935	Nueva LINEA		
	2658	222.68700	99.06250	153.6070			936	Altura Mira		
L		4				4	937	285959.392	4822279.700	20.560
M		1.3400					938	Nueva LINEA		
	2659	328.90250	102.35050	23.7970			939	Altura Mira		
	2660	363.08950	102.05750	31.9570			940	286107.904	4822332.724	18.268
	2661	380.41150	101.26400	45.7370			941	286123.824	4822337.916	18.113
L		3				3	942	286140.112	4822343.595	18.238
	2662	391.25850	100.76100	60.6330			943	Nueva LINEA		
	2663	8.66650	100.56800	53.0470			944	286157.066	4822347.453	18.421
	2664	12.84750	100.99950	49.8130			945	286158.746	4822330.316	18.673
L		3				3	946	286156.992	4822325.980	18.364
	2665	392.23050	100.70150	62.5770			947	Nueva LINEA		
	2666	9.28050	100.53700	55.9030			948	286159.170	4822347.941	18.457
	2667	13.66000	100.92300	54.9050			949	286161.577	4822330.966	18.675
L		740				740	950	286162.015	4822327.051	18.350
	2668	10.52000	100.54400	56.6140			951	Nueva LINEA		
L		741				741	952	286162.653	4822330.227	18.662
	2669	12.88950	100.85050	57.0520			953	Nueva LINEA		
L		44				44	954	286163.814	4822328.406	18.384
L		86				86	955	Nueva LINEA		
	2670	389.65600	100.72550	65.3010			956	Nueva LINEA		
	2671	396.40200	100.66650	60.7030			957	286159.621	4822351.668	18.402
	2672	7.66450	100.60800	57.1450			958	286160.071	4822343.582	18.511
L		40				40	959	286162.133	4822332.780	18.600
	2673	13.78900	100.84100	58.1930			960	Nueva LINEA		
	2674	15.24300	100.77150	68.9410			961	286165.160	4822328.018	18.377
	2675	16.18650	100.72850	81.4470			962	286175.817	4822330.027	18.311
	2676	16.83400	100.62200	93.7510			963	286188.089	4822332.680	18.214
	2677	17.18650	100.61850	99.2050			964	286200.136	4822335.337	18.231
	2678	17.33550	100.52500	110.4850			965	286205.524	4822336.338	18.183
	2679	16.53350	100.56050	119.8560			966	286216.440	4822339.193	18.236
	2680	15.52750	100.56000	126.2910			967	286225.034	4822343.199	18.092
	2681	13.78200	100.55300	131.9780			968	286230.618	4822346.941	18.036
	2682	11.75500	100.56650	138.0920			969	286234.910	4822352.084	18.001
	2683	9.80450	100.56900	142.3600			970	286239.190	4822358.210	17.918
	2684	7.72400	100.61050	145.9580			971	286241.563	4822363.781	17.875
	2685	6.65350	100.69650	147.5340			972	286242.978	4822369.536	17.748
L		741				741	973	286243.364	4822372.437	17.533
	2686	16.17450	100.56800	98.3650			974	Nueva LINEA		
L		4				4	975	286204.275	4822337.607	18.269
	2687	6.08400	100.61650	144.7250			976	Nueva LINEA		
	2688	10.24900	100.59350	134.7300			977	286240.268	4822372.398	17.746
L		4				4	978	286234.878	4822359.978	17.891
	2689	3.48050	100.58800	116.9020			979	Nueva LINEA		
L		4				4	980	286213.073	4822364.474	18.067
	2690	10.18050	100.56600	113.3150			981	Nueva LINEA		
L		4				4	982	286215.007	4822351.996	18.139
	2691	1.42600	100.58350	100.3860			983	Nueva LINEA		
	2692	9.42800	100.64000	97.3260			984	286196.951	4822359.470	18.227
L		4				4	985	286199.769	4822346.998	18.168
							986	Nueva LINEA		

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2693	396.60550	100.73100	79.3360						
	2694	6.75150	100.77750	75.4910			987	286175.537	4822353.972	18.235
L		30					988	286178.363	4822341.379	18.224
	2695	22.37250	100.77200	122.6070			989	Nueva LINEA		
	2696	22.65250	100.84200	104.2580			990	286230.372	4822333.072	17.660
	2697	23.12850	100.94650	82.7290			991	286212.468	4822329.027	17.768
	2698	23.87500	101.09350	61.1400			992	286191.454	4822324.294	17.917
	2699	25.93850	101.54700	36.4650			993	286170.363	4822319.610	18.096
	2700	31.50400	103.39650	18.1100			994	286146.242	4822314.180	18.260
	2701	43.92450	104.26200	8.7660			995	286128.209	4822310.022	18.180
	2702	81.53500	106.67800	3.8870			996	286118.810	4822307.818	18.560
	2703	208.34050	100.79650	16.3570			997	286113.026	4822306.466	18.739
M		2.1500					998	286095.201	4822302.416	18.941
	2704	215.87400	98.36650	42.4060			999	Altura Mira		
	2705	218.21900	99.03200	87.8170			1000	286069.644	4822296.551	19.424
	2706	218.36050	99.07150	109.5970			1001	286025.351	4822286.268	19.672
	2707	218.34400	99.21350	128.1950			1002	286004.256	4822280.853	19.935
	2708	218.35350	99.11300	149.8990			1003	285986.291	4822276.035	19.921
	2709	218.45500	99.10900	178.0920			1004	285965.318	4822270.468	20.426
L		710					1005	285938.005	4822263.485	20.831
	2710	222.62100	99.08900	124.5610			1006	Nueva LINEA		
L		710					1007	285987.923	4822285.123	20.119
	2711	219.46750	99.06550	114.3390			1008	Nueva LINEA		
L		710					1009	285999.179	4822281.558	20.015
	2712	219.30700	99.05500	113.2160			1010	Nueva LINEA		
L		4					1011	286000.339	4822281.551	20.017
L		630					1012	Nueva LINEA		
	2713	218.50700	99.21650	129.0750			1013	Nueva LINEA		
	2714	218.66450	99.20750	115.6480			1014	285985.356	4822276.128	19.926
	2715	219.31800	99.26400	98.3200			1015	285998.265	4822279.829	19.776
	2716	219.71400	99.33500	81.1290			1016	286014.778	4822285.185	19.473
	2717	219.25700	99.47550	71.6010			1017	286031.332	4822289.847	19.184
	2718	219.10000	99.33700	51.6660			1018	286040.711	4822291.603	18.926
	2719	218.88450	99.33150	38.4950			1019	286060.076	4822296.337	18.874
	2720	217.20800	99.40900	26.7320			1020	286072.874	4822299.452	18.740
	2721	212.58350	99.75000	11.5460			1021	286084.449	4822301.705	18.584
	2722	48.27450	102.13700	4.9700			1022	286099.309	4822305.080	18.381
	2723	29.35250	101.05400	17.4820			1023	286115.009	4822308.016	18.169
	2724	31.82950	101.03900	19.1490			1024	286127.564	4822310.579	18.047
							1025	286129.275	4822309.981	18.024
#	LISTADOS TOMADOS POR BELEN									
B	30506	283119.004	4821533.328	44.542			0	BASE (coord de FICHERO DE BASES)		
L		6					1	Nueva LINEA		
H		1.4280	1.3000				2	Altura Aparato y Mira		
O	30505	106.41200	98.25200	491.5840			3	283607.915	4821483.922	58.194
L		178					4	Nueva LINEA		
	7000	314.72300	97.28900	65.3860			5	283055.417	4821548.301	47.454
	7001	315.04600	97.10800	53.0040			6	283067.527	4821545.725	47.077
	7002	314.83900	97.13900	43.2970			7	283076.921	4821543.318	46.615
	7003	312.08200	98.88100	6.4040			8	283112.716	4821534.536	44.783
	7004	115.97700	101.96600	22.6500			9	283140.934	4821527.706	43.971
	7005	115.47400	100.64700	65.4720			10	283182.548	4821517.572	44.005
L		10					11	Nueva LINEA		
	7006	112.99000	100.72900	65.2210			12	283182.867	4821520.114	43.923
	7007	111.72700	101.30200	41.2440			13	283159.542	4821525.775	43.827
	7008	108.76800	102.10000	22.0440			14	283140.827	4821530.303	43.943
	7009	355.08900	100.97900	3.7290			15	283116.586	4821536.167	44.613
M		2.1500					16	Altura Mira		
	7010	318.70900	95.79400	40.0320			17	283080.772	4821544.898	46.463
L		178					18	283051.607	4821551.050	47.652
M		3.5000					19	Nueva LINEA		
	7012	321.18900	95.08400	70.5220			20	Altura Mira		
M		2.1500					21	283052.551	4821556.300	47.911
	7013	324.79500	95.93900	48.7940			22	Altura Mira		
M		1.3000					23	283073.956	4821551.817	46.931
	7014	344.82900	98.69200	16.2700			24	Altura Mira		
M		2.1500					25	283106.606	4821543.859	45.004
	7015	102.28500	100.36800	36.3820			26	Altura Mira		
	7016	100.73000	100.49800	36.7890			27	283155.362	4821532.023	43.610
M		1.3000					28	283155.789	4821532.906	43.532
	7017	99.60900	102.08000	35.3550			29	Altura Mira		
M		2.1500					30	283154.339	4821533.545	43.515
	7018	6.15800	102.56100	13.5710			31	Altura Mira		
M		1.3000					32	283120.313	4821546.825	43.274
	7019	350.69300	102.89600	34.2910			33	Altura Mira		
M		1.7000					34	283095.047	4821557.812	43.111
	7020	340.74100	101.36700	61.7080			35	Altura Mira		
L		10					36	283069.518	4821570.169	42.945
M		1.3000					37	Nueva LINEA		
	7021	344.10900	101.97500	57.5260			38	Altura Mira		
M		3.1500					39	283074.764	4821570.054	42.886
	7022	354.69100	99.87500	35.5140			40	Altura Mira		
M		1.3000					41	283095.809	4821560.220	42.890
	7023	16.59300	106.01000	15.5390			42	Altura Mira		
							43	283122.990	4821548.275	43.205

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	7024	90.26800	102.69400	30.4610			44	283149.083	4821537.963	43.381
	7025	107.04500	101.02500	63.4860			45	283182.093	4821526.318	43.648
	7026	110.53900	100.56200	90.2390			46	283208.005	4821518.459	43.874
	7027	110.72200	100.55300	90.2190			47	283207.943	4821518.206	43.887
	7028	107.80600	101.14000	55.5650			48	283174.143	4821526.533	43.675
	7029	100.15600	102.18300	27.2900			49	283146.278	4821533.261	43.734
	7030	350.22900	99.10400	12.1060			50	283110.475	4821541.918	44.840
	7031	324.04600	97.09300	45.7720			51	283076.503	4821550.190	46.760
M		3.1500					52	Altura Mira		
L	7032	321.06300	95.29500	66.2540			53	283056.515	4821554.791	47.712
M		752			752		54	Nueva LINEA		
		1.3000					55	Altura Mira		
L	7033	82.93800	103.83400	19.2840			56	283137.566	4821538.425	43.509
M		23			23		57	Nueva LINEA		
	7034	80.30000	104.37000	18.3310			58	283136.423	4821538.897	43.413
M		4.1900					59	Altura Mira		
	7035	395.61300	94.12500	11.6700			60	283118.204	4821544.921	42.855
M		2.1500					61	Altura Mira		
	7036	349.55700	103.09900	27.3440			62	283099.558	4821552.505	42.489
M		4.1900					63	Altura Mira		
	7037	337.46400	99.40600	52.4060			64	283075.416	4821562.417	42.269
M		5.1900					65	Altura Mira		
	7038	335.64700	99.02700	72.3490			66	283057.711	4821571.750	41.886
M		6.0000					67	Altura Mira		
L	7039	334.65800	98.91900	80.6800			68	283049.998	4821575.106	41.340
M		23			23		69	Nueva LINEA		
		6.1000					70	Altura Mira		
M	7040	329.91300	98.11300	70.5420			71	283056.135	4821565.253	41.961
		5.1900					72	Altura Mira		
L	7041	334.21400	98.45400	54.9610			73	283071.805	4821561.455	42.115
M		750			750		74	Nueva LINEA		
		4.1900					75	Altura Mira		
L	7042	341.55800	98.65900	52.7340			76	283077.122	4821565.351	42.891
M		750			750		77	Nueva LINEA		
		2.1500					78	Altura Mira		
L	7043	380.92600	101.86700	15.6050			79	283114.400	4821548.231	43.362
		750			750		80	Nueva LINEA		
L	7044	100.03900	100.54000	33.2850			81	283152.288	4821533.308	43.538
		750			750		82	Nueva LINEA		
L	7045	304.28300	90.95200	6.5520			83	283112.533	4821533.764	44.748
		750			750		84	Nueva LINEA		
L	7046	313.41500	95.98200	41.7310			85	283078.278	4821542.039	46.452
M		23			23		86	Nueva LINEA		
		4.1900					87	Altura Mira		
	7047	133.88400	105.06000	39.9330			88	283153.304	4821513.128	38.609
	7048	143.06500	107.31300	26.9390			89	283139.872	4821516.575	38.692
L	7049	187.58700	114.68900	13.9480			90	283121.635	4821520.007	38.590
M		30			30		91	Nueva LINEA		
		2.1500					92	Altura Mira		
	7050	145.06300	107.70000	45.7480			93	283153.508	4821503.800	38.300
	7051	176.29400	113.78300	28.1910			94	283129.021	4821507.682	37.764
	7052	222.93100	117.34800	23.2020			95	283111.128	4821512.416	37.575
M	7053	273.19000	111.85200	35.8500			96	283086.852	4821518.926	37.184
		4.0000					97	Altura Mira		
L	7054	291.87700	105.23600	59.8860			98	283059.806	4821525.733	37.050
M		23			23		99	Nueva LINEA		
		4.1900					100	Altura Mira		
	7055	272.26900	109.55300	26.4060			101	283095.333	4821522.311	37.832
L	7056	297.97200	103.95100	62.7560			102	283056.401	4821531.333	37.888
M		4			4		103	Nueva LINEA		
		2.1500					104	Altura Mira		
	7057	283.13600	107.29300	62.9640			105	283058.635	4821516.951	36.623
	7058	267.37100	109.80400	44.1360			106	283080.995	4821511.940	37.050
	7059	210.97700	113.39800	30.8230			107	283113.833	4821503.632	37.381
L	7060	165.95300	109.11100	41.7160			108	283140.048	4821497.804	37.870
		178			178		109	Nueva LINEA		
	7061	1.80700	100.50200	130.6420			110	283122.710	4821663.912	42.791
	7062	3.71600	100.88200	110.5190			111	283125.450	4821643.647	42.290
	7063	7.22100	101.17700	95.4260			112	283129.802	4821628.124	42.056
	7064	15.59000	101.55700	79.1540			113	283138.188	4821610.097	41.885
	7065	27.64700	101.80600	68.7480			114	283147.918	4821595.669	41.870
	7066	43.03800	101.84700	64.0660			115	283159.073	4821583.282	41.962
	7067	67.36400	101.30900	69.6790			116	283179.712	4821567.497	42.388
	7068	78.42700	100.93400	80.0400			117	283194.483	4821559.932	42.646
	7069	87.83800	100.58700	98.6500			118	283215.854	4821552.060	42.911
	7070	92.29500	100.42500	114.9940			119	283233.153	4821547.212	43.053
	7071	96.58900	100.23300	139.8340			120	283258.635	4821540.818	43.310
	7072	99.23700	100.08600	164.8630			121	283283.854	4821535.305	43.599
	7073	101.07900	99.95900	193.9740			122	283312.949	4821530.042	43.947
L	7074	102.88600	99.80500	239.8770			123	283358.632	4821522.459	44.559
		60			60		124	Nueva LINEA		
	7075	102.85700	99.81600	245.7280			125	283364.482	4821522.306	44.534
	7076	102.55400	99.82200	245.8020			126	283364.606	4821523.472	44.511
	7077	102.43100	99.83100	239.7900			127	283358.617	4821524.176	44.460
	7078	102.68400	99.83400	239.7130			128	283358.502	4821523.227	44.449

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
					32		129	Nueva LINEA		
	7079	102.53600	99.84700	238.7370			130	283357.549	4821523.822	44.398
	7080	100.98900	99.99000	199.5890			131	283318.568	4821530.229	43.854
	7081	99.73000	100.07600	178.1060			132	283297.107	4821534.085	43.609
	7082	98.45700	100.16400	161.5630			133	283280.518	4821537.245	43.406
	7083	96.27500	100.28400	141.8310			134	283260.590	4821541.623	43.189
	7084	92.18200	100.62100	121.1330			135	283239.218	4821548.167	42.639
	7085	88.97300	101.33600	110.3490			136	283227.677	4821552.343	41.505
L		60			60		137	Nueva LINEA		
M		2.5500					138	Altura Mira		
	7086	88.65700	101.70600	106.1160			139	283223.402	4821552.129	40.577
M		2.1500					140	Altura Mira		
	7087	87.99000	101.78100	107.9750			141	283225.021	4821553.570	40.800
	7088	88.65300	100.98900	106.1640			142	283223.473	4821552.149	42.172
	7089	87.99900	101.75300	108.0250			143	283225.074	4821553.565	40.847
	7090	88.38500	101.41400	105.2250			144	283222.456	4821552.416	41.484
	7091	87.10500	101.82200	105.0500			145	283221.863	4821554.453	40.815
	7092	88.36200	100.99700	105.1160			146	283222.355	4821552.436	42.175
	7093	87.11400	101.77800	105.0080			147	283221.827	4821554.431	40.888
L		60			60		148	Nueva LINEA		
	7094	88.79500	100.86000	106.3730			149	283223.723	4821551.953	42.384
	7095	88.54300	100.86600	105.5540			150	283222.843	4821552.221	42.385
	7096	88.32100	100.87000	104.8400			151	283222.074	4821552.452	42.388
L		60			60		152	Nueva LINEA		
M		4.3000					153	Altura Mira		
	7097	88.53000	100.76900	105.7220			154	283223.006	4821552.272	40.394
L		32			32		155	Nueva LINEA		
M		2.3000					156	Altura Mira		
	7098	87.40600	101.40200	104.6440			157	283221.581	4821553.890	41.366
M		2.1500					158	Altura Mira		
	7099	79.12600	101.67900	84.8720			159	283199.326	4821560.652	41.582
	7100	70.22700	101.87900	74.3160			160	283185.310	4821566.816	41.627
	7101	58.61900	101.99500	67.1160			161	283172.407	4821573.927	41.717
L		205			205		162	Nueva LINEA		
M		1.3000					163	Altura Mira		
	7102	57.27000	102.37300	66.0090			164	283170.657	4821574.352	42.210
L		32			32		165	Nueva LINEA		
M		2.1500					166	Altura Mira		
	7103	40.95700	101.93700	65.3720			167	283158.201	4821585.607	41.832
	7104	29.43800	101.99400	68.8570			168	283149.706	4821594.923	41.664
	7105	17.58100	101.64900	78.1200			169	283140.297	4821608.462	41.797
	7106	11.46900	101.45500	87.6040			170	283134.696	4821619.491	41.818
	7107	6.08100	101.10400	102.3800			171	283128.766	4821635.225	42.045
	7108	4.15800	100.93300	111.8390			172	283126.302	4821644.916	42.182
M		3.1500					173	Altura Mira		
	7109	2.33500	100.09100	130.7300			174	283123.797	4821663.969	42.634
L		32			32		175	Nueva LINEA		
M		2.1500					176	Altura Mira		
	7110	3.37400	100.55100	131.2240			177	283125.954	4821664.362	42.685
	7111	4.71200	100.90400	114.6180			178	283127.478	4821647.620	42.193
	7112	8.04200	101.16500	99.9670			179	283131.596	4821632.481	41.991
	7113	15.63800	101.60600	83.4640			180	283139.293	4821614.260	41.715
	7114	23.48900	101.83000	74.8400			181	283145.983	4821603.102	41.669
	7115	37.67700	102.04500	67.9760			182	283156.906	4821589.714	41.637
	7116	53.82600	101.98300	67.4370			183	283169.442	4821578.041	41.720
	7117	65.69100	101.92200	72.8730			184	283181.519	4821570.711	41.621
	7118	74.41200	101.75700	80.6610			185	283193.208	4821564.871	41.595
	7119	78.33500	101.64100	86.3300			186	283200.355	4821562.134	41.595
	7120	86.49400	101.48500	105.7630			187	283222.367	4821555.593	41.354
	7121	87.51400	101.45800	109.2240			188	283226.105	4821554.608	41.320
	7122	90.87400	100.71900	120.2610			189	283238.023	4821550.508	42.463
L		781			781		190	Nueva LINEA		
	7123	92.14900	100.40900	119.5620			191	283237.655	4821548.036	43.053
L		32			32		192	Nueva LINEA		
	7124	95.52300	100.29700	142.2330			193	283260.883	4821543.323	43.158
	7125	97.42000	100.17800	158.6640			194	283277.536	4821539.758	43.378
	7126	99.33000	100.06200	181.2260			195	283300.219	4821535.237	43.646
	7127	101.24500	99.90700	216.3250			196	283335.286	4821529.100	44.139
	7128	102.11800	99.82500	240.5970			197	283359.465	4821525.327	44.485
L		630			630		198	Nueva LINEA		
	7129	102.40600	99.99100	239.7710			199	283358.602	4821524.270	43.858
	7130	101.71100	100.07800	219.0520			200	283337.975	4821527.443	43.555
	7131	100.71200	100.17600	198.2490			201	283317.238	4821531.112	43.275
	7132	99.43200	100.30400	176.6440			202	283295.638	4821534.905	42.979
	7133	97.77400	100.42800	157.1100			203	283276.013	4821538.822	42.765
	7134	96.03400	100.56500	141.9240			204	283260.646	4821542.165	42.562
	7135	92.73000	100.86100	125.1050			205	283243.282	4821547.583	42.129
	7136	88.36000	101.68800	109.8420			206	283226.976	4821553.294	40.909
L		40			40		207	Nueva LINEA		
	7137	93.69900	100.35100	123.8010			208	283242.196	4821545.562	43.138
M		0.3000					209	Altura Mira		
	7138	84.01700	102.09100	91.2810			210	283207.375	4821555.993	42.673
M		1.3000					211	Altura Mira		
	7139	67.81700	102.08800	70.7520			212	283180.872	4821567.573	42.350
L		630			630		213	Nueva LINEA		



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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		2.0000					214	Altura Mira		
M	7140	86.42300	101.85800	103.8130			215	283220.421	4821555.292	40.941
		1.8500					216	Altura Mira		
M	7141	78.77900	102.34600	85.1490			217	283199.411	4821561.170	40.983
		2.1500					218	Altura Mira		
M	7142	67.42000	102.42500	72.8110			219	283182.440	4821568.959	41.048
	7143	56.72500	102.58300	66.9950			220	283171.064	4821575.407	41.103
	7144	36.62400	102.45200	66.7480			221	283155.292	4821589.290	41.250
	7145	24.73700	102.26400	72.2690			222	283146.366	4821600.167	41.251
	7146	13.72100	101.90800	84.4120			223	283137.048	4821615.750	41.291
M		3.1500					224	Altura Mira		
	7147	7.82700	101.03100	97.4410			225	283130.951	4821630.020	41.243
	7148	4.06500	100.64200	114.1400			226	283126.286	4821647.229	41.670
L		630			630		227	Nueva LINEA		
M	7149	3.12100	100.88700	129.9080			228	283125.368	4821663.067	41.011
		2.1500					229	Altura Mira		
	7150	4.45700	101.24600	114.0270			230	283126.978	4821647.053	41.589
	7151	8.67600	101.64100	96.8560			231	283132.158	4821629.254	41.324
	7152	14.00300	101.89000	85.1680			232	283137.578	4821616.407	41.292
	7153	21.13200	102.12000	76.3870			233	283143.882	4821605.505	41.277
	7154	34.89700	102.41500	68.1830			234	283154.509	4821591.479	41.234
	7155	53.71100	102.55000	66.8530			235	283168.909	4821577.730	41.143
	7156	64.53700	102.47000	71.5980			236	283179.731	4821571.153	41.043
M		1.8000					237	Altura Mira		
	7157	77.85000	102.38700	84.7030			238	283198.575	4821562.188	40.995
M		1.7500					239	Altura Mira		
	7158	82.72900	102.19200	94.6480			240	283210.135	4821558.677	40.962
M		3.1500					241	Altura Mira		
	7159	86.69200	101.22000	105.5020			242	283222.189	4821555.219	40.799
	7160	87.41700	101.28300	108.6310			243	283225.497	4821554.656	40.632
M		2.1500					244	Altura Mira		
	7161	91.19000	101.04900	119.9430			245	283237.783	4821549.872	41.845
	7162	95.76800	100.56500	142.1920			246	283260.875	4821542.774	42.559
	7163	98.06400	100.39100	162.8060			247	283281.730	4821538.279	42.822
	7164	99.63400	100.25500	183.6450			248	283302.643	4821534.385	43.087
	7165	101.33700	100.08900	215.0440			249	283333.999	4821528.814	43.522
	7166	102.24100	99.99100	240.0200			250	283358.874	4821524.883	43.858
L		23			23		251	Nueva LINEA		
	7167	98.71400	99.97900	188.8650			252	283307.829	4821537.144	43.885
	7168	98.71100	100.06100	179.6790			253	283298.645	4821536.967	43.650
	7169	97.38800	100.08200	164.1620			254	283283.027	4821540.063	43.610
L		3			3		255	Nueva LINEA		
M	7170	95.40000	100.19100	143.8480			256	283262.475	4821543.714	43.390
		1.3000					257	Altura Mira		
	7171	96.35400	99.41200	157.4740			258	283276.212	4821542.343	46.126
	7172	98.32400	98.14800	185.5790			259	283304.439	4821538.213	50.070
	7173	99.48600	97.75000	207.1680			260	283326.034	4821535.001	51.993
	7174	100.59900	97.65600	229.9340			261	283348.770	4821531.168	53.138
L		780			780		262	Nueva LINEA		
	7175	99.56700	97.58200	221.8470			263	283340.884	4821534.838	53.097
L		30			30		264	Nueva LINEA		
	7176	99.06600	97.64100	212.5180			265	283331.352	4821536.445	52.546
	7177	98.68900	97.55100	210.7130			266	283329.515	4821537.665	52.777
	7178	97.92700	97.49800	202.3190			267	283321.058	4821539.911	52.622
	7179	96.74700	97.70500	185.9440			268	283304.583	4821542.821	51.374
	7180	95.35300	98.35700	168.9520			269	283287.449	4821545.647	49.032
M		3.1500					270	Altura Mira		
	7181	93.51300	98.31300	148.5940			271	283266.774	4821548.439	46.759
L		3			3		272	Nueva LINEA		
M		1.3000					273	Altura Mira		
	7182	98.63200	97.65500	208.7000			274	283327.513	4821537.811	52.359
	7183	97.71800	97.82800	195.3410			275	283314.104	4821540.326	51.336
	7184	96.75400	98.22700	181.1610			276	283299.858	4821542.559	49.717
	7185	95.40800	98.98800	163.9470			277	283282.503	4821545.143	47.278
	7186	94.43400	100.39600	145.5570			278	283264.001	4821546.039	43.766
L		30			30		279	Nueva LINEA		
M		2.1500					280	Altura Mira		
	7187	91.92000	100.78500	126.6380			281	283244.613	4821549.358	42.260
L		10			10		282	Nueva LINEA		
M		1.3000					283	Altura Mira		
	7188	103.52700	100.00100	239.9860			284	283358.620	4821520.041	44.670
	7189	102.59500	100.12900	210.2460			285	283329.074	4821524.762	44.247
	7190	101.19600	100.28100	180.4500			286	283299.419	4821529.940	43.876
	7191	99.07400	100.45900	151.8520			287	283270.835	4821535.538	43.577
	7192	95.31400	100.73600	123.0410			288	283241.703	4821542.377	43.249
	7193	90.16900	101.04200	100.8060			289	283218.596	4821548.832	43.021
	7194	82.07000	101.46500	81.5490			290	283197.318	4821555.988	42.794
	7195	60.63600	102.29300	63.9620			291	283171.089	4821570.381	42.367
	7196	31.95200	102.54700	64.1250			292	283149.829	4821589.499	42.105
	7197	17.16000	102.22600	74.0170			293	283138.702	4821604.628	42.083
	7198	9.01800	101.84600	86.2240			294	283131.171	4821618.652	42.171
M		2.1500					295	Altura Mira		
	7199	0.89700	100.50400	126.6420			296	283120.787	4821659.953	42.818
L		178			178		297	Nueva LINEA		
	7200	398.38000	100.35700	126.1540			298	283115.793	4821659.438	43.114

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	7201	0.71000	100.65800	100.9530						
	7202	5.98600	100.95700	83.1550			299	283120.129	4821634.269	42.777
	7203	16.04800	101.25400	68.2340			300	283126.810	4821616.106	42.570
	7204	29.82500	101.45800	59.4390			301	283136.019	4821599.392	42.476
	7205	48.28900	101.48300	56.4250			302	283145.835	4821586.348	42.459
M		1.3000					303	283157.805	4821574.273	42.506
	7206	62.64400	102.23400	59.1260			304	Altura Mira		
	7207	66.52800	102.13000	60.5660			305	283168.209	4821566.045	42.596
	7208	67.19200	102.13800	59.5410			306	283171.360	4821563.708	42.644
	7209	64.98300	102.22100	57.8040			307	283170.782	4821562.656	42.671
	7210	45.68000	102.82400	48.7050			308	283168.251	4821563.525	42.654
	7211	20.14900	103.18400	46.1020			309	283150.997	4821569.988	42.510
M		2.1500					310	283133.334	4821577.085	42.365
	7212	363.97600	101.37800	85.0770			311	Altura Mira		
L		10					312	283073.401	4821605.126	41.979
	7213	362.78000	101.33100	82.9820		10	313	Nueva LINEA		
M		1.3000					314	283073.215	4821602.511	42.086
	7214	380.38000	102.62800	58.0380			315	Altura Mira		
	7215	20.76400	103.18300	43.5530			316	283101.414	4821588.584	42.275
	7216	68.08500	102.13300	56.8130			317	283132.941	4821574.533	42.493
	7217	88.14400	101.20000	85.8850			318	283168.798	4821560.616	42.767
L		10				10	319	283203.388	4821549.228	43.052
	7218	74.38000	101.84300	66.6850			320	Nueva LINEA		
	7219	41.78400	102.48400	57.6070			321	283180.335	4821559.435	42.740
	7220	19.27500	102.18100	66.6010			322	283154.130	4821578.931	42.423
M		2.1500					323	283138.850	4821596.862	42.389
	7221	5.00600	100.93100	87.4530			324	Altura Mira		
	7222	0.27100	100.60700	107.3080			325	283125.872	4821620.501	42.542
	7223	398.68300	100.33900	130.5760			326	283119.460	4821640.629	42.798
							327	283116.302	4821663.873	43.126
B	30506	283119.004	4821533.328	44.542			328	BASE (coord de FICHERO DE BASES)		
L		6				6	329	Nueva LINEA		
H		1.4360	1.3000				330	Altura Aparato y Mira		
O	30505	106.41400	98.25100	491.5840			331	283607.915	4821483.922	58.194
L		32				32	332	Nueva LINEA		
	7300	67.00500	102.16300	59.6160			333	283170.759	4821562.846	42.653
	7301	48.19900	103.22100	52.3300			334	283154.898	4821571.315	42.032
M		2.1500					335	Altura Mira		
	7302	18.26400	102.88700	50.0220			336	283133.142	4821581.256	41.560
	7303	396.64000	103.07900	55.5560			337	283116.074	4821588.741	41.142
M		1.7500					338	Altura Mira		
	7304	383.04400	103.79500	64.9990			339	283101.924	4821595.923	40.356
M		4.1900					340	Altura Mira		
	7305	378.38000	102.44400	70.5710			341	283095.511	4821599.818	39.080
L		60				60	342	Nueva LINEA		
	7306	378.38600	102.73300	70.9170			343	283095.406	4821600.134	38.745
	7307	375.93500	102.80000	70.7240			344	283092.924	4821598.994	38.679
M		1.9500					345	Altura Mira		
	7308	375.94500	103.44100	70.5340			346	283093.018	4821598.789	40.218
L		60				60	347	Nueva LINEA		
M		4.1900					348	Altura Mira		
	7309	375.90800	102.78900	71.4870			349	283092.615	4821599.692	38.658
	7310	377.05700	102.66400	72.5180			350	283093.451	4821601.127	38.755
	7311	377.00600	102.35500	72.4380			351	283093.420	4821601.044	39.109
M		1.7500					352	Altura Mira		
	7312	375.89200	103.42100	71.6470			353	283092.552	4821599.801	40.380
L		60				60	354	Nueva LINEA		
	7313	375.87200	103.37700	70.2030			355	283093.063	4821598.456	40.506
	7314	375.87100	103.32700	71.0460			356	283092.750	4821599.240	40.517
M		1.5000					357	Altura Mira		
	7315	375.83700	103.50700	71.9260			358	283092.393	4821600.032	40.518
L		60				60	359	Nueva LINEA		
M		4.1900					360	Altura Mira		
	7316	375.98700	102.80000	71.0560			361	283092.856	4821599.324	38.664
L		32				32	362	Nueva LINEA		
	7317	370.14300	101.45100	80.6330			363	283082.566	4821605.234	39.951
M		2.1500					364	Altura Mira		
	7318	355.27200	101.43400	121.8140			365	283040.305	4821626.266	41.085
L		32				32	366	Nueva LINEA		
	7319	355.54400	101.41800	123.1780			367	283039.826	4821627.646	41.086
M		4.1900					368	Altura Mira		
	7321	370.72900	101.46800	80.7790			369	283083.165	4821605.697	39.926
	7322	378.18200	102.37800	72.6580			370	283094.602	4821601.711	39.075
M		2.1500					371	Altura Mira		
	7323	379.06800	101.71000	78.3130			372	283093.723	4821607.418	41.725
	7324	379.90000	101.27600	88.0020			373	283091.681	4821616.962	42.065
	7325	382.07300	101.10000	97.4740			374	283091.917	4821626.947	42.144
	7326	385.68700	100.90700	109.9330			375	283094.494	4821640.482	42.263
	7327	391.07200	100.74600	127.9080			376	283101.121	4821659.970	42.330
L		32				32	377	Nueva LINEA		
	7328	392.77300	100.67000	133.1770			378	283103.914	4821665.639	42.428
	7329	386.64900	100.89800	111.0000			379	283095.894	4821641.884	42.263
	7330	382.51400	101.11000	96.6080			380	283092.802	4821626.299	42.144
	7331	380.52300	101.28100	87.6590			381	283092.604	4821616.898	42.065
	7332	379.86200	101.71700	78.2300			382	283094.674	4821607.648	41.719



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 # ----- Datos de Entrada -----  
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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		4.1900								
	7333	378.90000	102.35200	71.8140			383	Altura Mira		
M		1.7000					384	283095.649	4821601.186	39.136
	7334	382.71900	103.79600	66.6320			385	Altura Mira		
M		2.1500					386	283101.167	4821597.405	40.308
	7335	6.69800	103.00100	53.0370			387	Altura Mira		
	7336	45.93000	102.28500	52.7210			388	283124.566	4821586.013	41.329
	7337	66.35900	101.27200	60.4010			389	283153.801	4821572.889	41.936
L		630			630		390	283171.154	4821563.777	42.621
	7338	66.69400	101.32500	60.0020			391	Nueva LINEA		
	7339	49.25600	102.36800	53.1420			392	283170.967	4821563.302	42.580
M		4.1900					393	283156.112	4821571.317	41.852
	7340	393.94900	101.02200	57.4070			394	Altura Mira		
	7341	381.96800	101.66500	66.3550			395	283113.554	4821590.468	40.867
	7342	378.20900	102.66200	71.9770			396	283100.463	4821597.016	40.053
M		2.1500					397	283094.864	4821601.069	38.780
	7343	369.83100	103.10800	81.4530			398	Altura Mira		
	7344	355.57100	101.54200	121.3840			399	283081.874	4821605.716	39.853
L		630			630		400	283041.022	4821626.301	40.889
M		4.1900					401	Nueva LINEA		
	7345	379.60100	100.19800	78.5320			402	Altura Mira		
	7346	380.93300	99.91400	91.9110			403	283094.266	4821607.861	41.544
	7347	385.56100	99.83400	108.9110			404	283091.883	4821621.146	41.913
	7348	389.85500	99.81600	122.7300			405	283094.509	4821639.448	42.073
L		40			40		406	283099.524	4821654.501	42.144
M		2.1500					407	Nueva LINEA		
	7349	357.22800	101.11400	121.1260			408	Altura Mira		
	7350	365.17800	101.23900	97.1990			409	283043.618	4821628.111	41.710
	7351	376.69400	101.57800	81.0100			410	283068.456	4821616.327	41.937
L		40			40		411	283090.011	4821608.945	41.821
	7352	383.40000	101.57100	76.0240			412	Nueva LINEA		
	7353	8.55400	102.07800	57.8210			413	283099.408	4821606.758	41.953
	7354	32.61400	102.08900	53.2550			414	283126.743	4821590.597	41.941
L		750			750		415	283145.093	4821579.722	42.081
M		1.3000					416	Nueva LINEA		
	7355	39.78800	103.00700	48.2380			417	Altura Mira		
L		4			4		418	283147.194	4821572.405	42.401
M		4.1900					419	Nueva LINEA		
	7356	398.41400	99.44200	75.4770			420	Altura Mira		
L		750			750		421	283117.121	4821608.778	42.450
M		1.3000					422	Nueva LINEA		
	7357	389.51900	102.91300	55.2790			423	Altura Mira		
L		4			4		424	283109.952	4821587.802	42.150
M		4.1900					425	Nueva LINEA		
	7358	386.45000	99.40800	86.5960			426	Altura Mira		
L		750			750		427	283100.709	4821617.965	42.594
M		1.3000					428	Nueva LINEA		
	7359	364.76600	102.10300	84.2990			429	Altura Mira		
L		4			4		430	283074.716	4821605.001	41.894
M		4.1900					431	Nueva LINEA		
	7360	372.42700	99.83600	104.9990			432	Altura Mira		
L		750			750		433	283074.933	4821628.629	42.059
M		2.1500					434	Nueva LINEA		
	7361	354.47700	101.10400	119.9460			435	Altura Mira		
L		4			4		436	283040.367	4821623.875	41.749
M		4.1900					437	Nueva LINEA		
	7362	364.24500	99.91600	124.8420			438	Altura Mira		
L		30			30		439	283052.513	4821638.989	41.954
M		0.0000					440	Nueva LINEA		
	7363	7.26500	99.71200	105.7470			441	Altura Mira		
	7364	7.90000	99.61800	102.7950			442	283131.041	4821638.386	46.457
	7365	9.84100	100.30000	96.6270			443	283131.723	4821635.330	46.596
	7366	11.76300	100.98700	91.9750			444	283133.877	4821628.802	45.523
L		40			40		445	283135.896	4821623.727	44.553
M		1.3000					446	Nueva LINEA		
	7367	15.23000	100.57500	86.6080			447	Altura Mira		
	7368	20.68200	101.23100	79.6880			448	283139.522	4821617.466	43.896
	7369	29.13600	101.92200	73.2950			449	283144.431	4821608.834	43.138
	7370	34.05200	102.19600	71.2220			450	283151.372	4821599.051	42.466
L		30			30		451	283155.285	4821594.567	42.222
M		2.1500					452	Nueva LINEA		
	7371	18.84300	99.84600	85.7380			453	Altura Mira		
	7372	33.85700	100.32000	77.6770			454	283144.009	4821615.338	44.036
	7373	56.54400	101.60900	75.0120			455	283158.391	4821600.277	43.438
	7374	65.56600	101.35100	80.1550			456	283177.187	4821580.634	41.933
	7375	79.86600	101.35000	96.8760			457	283187.699	4821574.593	42.128
	7376	88.46700	101.09100	116.1240			458	283211.053	4821563.455	41.774
L		23			23		459	283233.209	4821554.251	41.839
	7377	89.84700	100.70400	125.7590			460	Nueva LINEA		
	7378	87.33500	100.77800	120.2770			461	283243.158	4821553.303	42.438
	7379	82.41100	100.52300	113.9620			462	283236.898	4821557.101	42.359
L		40			40		463	283228.638	4821564.418	42.893
	7380	87.25400	99.32100	129.1940			464	Nueva LINEA		
M		3.5000					465	283245.608	4821559.025	45.207
	7381	85.86600	98.99400	124.1820			466	Altura Mira		
							467	283240.121	4821560.674	44.441

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	7382	87.82100	99.43300	131.3220			468	283247.923	4821558.302	43.649
L		30			30		469	Nueva LINEA		
M		1.3000					470	Altura Mira		
	7383	86.28400	99.45000	133.4800			471	283249.391	4821561.868	45.832
	7384	88.85300	100.02900	130.5480			472	283247.554	4821556.075	44.620
M		2.1500					473	Altura Mira		
	7385	91.92300	100.77800	127.8660			474	283245.831	4821549.511	42.266
L		86			86		475	Nueva LINEA		
M		3.8500					476	Altura Mira		
	7386	85.32300	98.23000	131.4580			477	283246.932	4821563.361	45.784
M		2.1500					478	Altura Mira		
	7387	79.51700	99.57000	118.7940			479	283231.697	4821570.897	44.631
	7388	73.93900	99.25900	110.0370			480	283219.940	4821577.126	45.110
	7389	72.91700	99.39900	106.5830			481	283216.080	4821577.317	44.835
	7390	70.00700	99.15500	104.8580			482	283212.428	4821580.921	45.220
	7391	54.75600	98.53700	92.1190			483	283188.801	4821593.409	45.945
L		643			643		484	Nueva LINEA		
	7392	57.02800	99.09800	88.7900			485	283188.313	4821588.810	45.087
M		1.3000					486	Altura Mira		
	7393	59.50000	100.69700	85.9270			487	283188.115	4821584.378	43.738
L		4			4		488	Nueva LINEA		
	7394	68.15000	100.51500	95.2140			489	283202.543	4821579.002	43.908
	7395	75.74900	100.67700	101.5250			490	283213.244	4821571.075	43.599
	7396	81.43700	101.01200	111.1390			491	283225.436	4821565.277	42.912
L		643			643		492	Nueva LINEA		
M		2.1500					493	Altura Mira		
	7397	64.40900	101.24400	80.4540			494	283187.194	4821575.994	42.256
L		3			3		495	Nueva LINEA		
	7398	57.11100	100.05900	83.9700			496	283184.626	4821585.717	43.751
	7399	58.69700	100.02900	86.3930			497	283187.841	4821585.531	43.789
L		86			86		498	Nueva LINEA		
	7400	57.39200	100.32700	83.5950			499	283184.561	4821585.194	43.399
	7401	56.38700	99.92800	84.3940			500	283184.354	4821586.729	43.924
	7402	53.71800	99.28200	85.5310			501	283182.904	4821590.173	44.793
	7403	39.00000	96.91000	88.8570			502	283170.034	4821605.942	48.140
L		86			86		503	Nueva LINEA		
	7404	42.13000	97.14700	91.4770			504	283175.159	4821605.424	47.927
	7405	47.83400	98.24500	89.5900			505	283180.136	4821598.773	46.298
L		3			3		506	Nueva LINEA		
	7406	52.78200	98.83500	88.7740			507	283184.445	4821593.291	45.453
L		86			86		508	Nueva LINEA		
	7407	55.51700	100.32900	84.2090			509	283183.476	4821587.497	43.393
	7408	53.08300	100.03600	84.9760			510	283181.927	4821590.438	43.780
M		0.5000					511	Altura Mira		
	7409	38.65400	99.79200	88.3650			512	283169.417	4821605.900	45.767
L		86			86		513	Nueva LINEA		
M		0.0000					514	Altura Mira		
	7410	38.77400	98.31000	88.3180			515	283169.509	4821605.741	48.323
	7411	46.60500	99.25300	85.9310			516	283176.434	4821597.240	46.987
	7412	53.09900	100.14900	85.0690			517	283182.010	4821590.485	45.779
	7413	55.36000	100.48100	84.4530			518	283183.527	4821587.812	45.340
	7414	57.00900	100.77400	83.4050			519	283184.096	4821585.466	44.964
L		86			86		520	Nueva LINEA		
L		86			86		521	Nueva LINEA		
M		2.1500					522	Altura Mira		
	7415	38.55400	98.69500	88.2210			523	283169.211	4821605.846	45.637
	7416	29.20900	98.87300	89.5320			524	283158.647	4821613.589	45.413
M		0.5000					525	Altura Mira		
	7417	20.35100	100.19300	92.7710			526	283148.154	4821621.399	45.197
L		60			60		527	Nueva LINEA		
M		4.1900					528	Altura Mira		
	7418	19.74100	97.58300	93.0440			529	283147.372	4821621.871	45.320
	7419	18.61700	98.02000	89.1120			530	283144.678	4821618.616	44.560
	7420	12.34300	98.02800	93.3140			531	283136.971	4821624.850	44.679
	7421	13.42400	97.58200	97.0770			532	283139.304	4821628.186	45.475
L		60			60		533	Nueva LINEA		
	7422	13.51700	97.51700	97.1140			534	283139.450	4821628.189	45.575
	7423	12.40100	97.40500	93.3010			535	283137.045	4821624.788	45.591
	7424	18.63300	97.30000	89.3550			536	283144.758	4821618.806	45.577
	7425	19.70700	97.40200	93.0130			537	283147.312	4821621.847	45.583
L		85			85		538	Nueva LINEA		
M		2.1500					539	Altura Mira		
	7426	19.17700	98.09900	93.2830			540	283146.665	4821622.371	46.614
	7427	19.06600	98.24000	92.9800			541	283146.422	4821622.136	46.399
L		60			60		542	Nueva LINEA		
	7428	18.53800	98.80600	93.1830			543	283145.748	4821622.573	45.576
	7429	18.35800	98.79800	92.2100			544	283145.219	4821621.715	45.569
M		4.1900					545	Altura Mira		
	7430	19.03900	97.37800	91.8360			546	283146.035	4821621.014	45.570
	7431	19.19900	97.40600	92.8450			547	283146.555	4821621.910	45.571
L		60			60		548	Nueva LINEA		
M		2.1500					549	Altura Mira		
	7432	18.80200	98.26200	93.1280			550	283146.097	4821622.392	46.341
	7433	18.40700	98.26700	92.1860			551	283145.275	4821621.655	46.338
	7434	18.91800	98.24800	91.8550			552	283145.886	4821621.124	46.356

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TAQUIMETRICO ENLACE DEL LLANO AL ENLACE DE VIESQUES Y RAMALES DEL ENLACE DE PORCEYO

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	7435	19.32600	98.28500	92.7740						
L		86					553	283146.723	4821621.828	46.328
	7436	8.81400	98.35100	100.8290			554	Nueva LINEA		
	7437	8.77900	98.26100	100.7740			555	283132.910	4821633.159	46.440
	7438	19.08500	97.23200	93.4530			556	283132.848	4821633.108	46.581
	7439	26.62000	96.92900	90.4350			557	283146.572	4821622.529	47.891
L		86					558	283155.680	4821615.876	48.189
	7440	26.63000	97.14100	90.6010			559	Nueva LINEA		
	7441	18.55100	97.74500	93.9410			560	283155.766	4821616.035	47.896
	7442	8.69900	98.21200	101.0200			561	283145.972	4821623.253	47.155
L		4					562	283132.755	4821633.367	46.666
M		4.1900					563	Nueva LINEA		
	7443	22.37500	98.08700	87.4680			564	Altura Mira		
	7444	32.01700	98.17900	83.1140			565	283149.100	4821615.413	44.416
	7445	44.17700	98.32400	81.8070			566	283159.044	4821606.122	44.166
	7446	58.30700	99.48300	81.0610			567	283171.304	4821596.196	43.942
							568	283183.289	4821582.702	42.447

06 459 2007

TECNIA INGENIEROS

POLIGONAL PROYECTO V332

P O L I G O N A L DE BASES DADAS

-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30005	30004	18.7150	101.6860	796.616	1.80	1.63	18.7148	796.337	-21.224
30004	30005	218.7150	98.3300	796.614	1.30	1.59	218.7148	796.340	21.222

Longitud de la poligonal 796.3  
 Error de cierre en --Z-- -0.000

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30005	284367.132	4820286.973	82.380	399.9998	T3N
30004	284597.876	4821049.149	61.157	-0.0002	T2N

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CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000□

17 6 AGO 1987

TECNIA INGENIEROS S.A.  
 POLIGONAL PROYECTO V-322

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 P O L I G O N A L 1  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30004	30051	329.3620	100.4190	891.425	1.30	1.59	329.3616	891.406	-5.529
30051	30004	129.3620	99.6300	891.425	1.30	1.61	129.3616	891.410	5.541
30051	30052	97.1750	100.6850	626.115	1.30	1.61	97.1743	626.079	-6.403
30052	30051	185.5270	99.3900	626.108	1.30	1.66	297.1743	626.079	6.387
30052	30053	381.6000	102.1150	769.728	1.80	1.66	93.2471	769.303	-25.666
30053	30052	293.2470	97.8790	769.733	1.70	1.68	293.2471	769.306	25.661
30053	30004	254.9890	96.9630	779.751	1.30	1.68	254.9888	778.864	37.606
30004	30053	54.9890	103.0970	779.785	1.30	1.59	54.9888	778.862	-37.594

Longitud de la poligonal 3065.7  
 Error de cierre angular = -0.0010  
 Error de cierre en --X-- -0.011  
 Error de cierre en --Y-- -0.001  
 Error de cierre en --Z-- -0.006

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30004	284597.876	4821049.149	61.157	-0.0002	
30051	283799.604	4821445.854	55.620	399.9996	
30052	284425.064	4821473.634	49.224	111.6473	
30053	285190.042	4821555.084	23.559	0.0001	
30004	284597.876	4821049.149	61.157	399.9998	

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CALCULO EN COORDENADAS PLANAS ESCALA 1.000000□

06 ABO 2007

TECNIA INGENIEROS S.A.

POLIGONAL PROYECTO V-322

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P O L I G O N A L 2  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30004	30501	28.0310	103.4160	547.895	1.30	1.52	28.0308	547.106	-29.142
30501	30004	156.9260	96.6530	547.867	1.30	1.64	228.0308	547.110	29.155

Longitud de la poligonal 547.1

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30004	284597.876	4821049.149	61.157	-0.0002	
30501	284831.063	4821544.074	32.008	71.1048	

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CALCULO EN COORDENADAS PLANAS ESCALA 1.000000□

06 AGO 2007

TECNIA INGENIEROS S.A.

POLIGONAL PROYECTO V-322

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P O L I G O N A L 3  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30004	30502	356.9260	110.8960	182.292	1.30	1.57	356.9258	179.629	-30.772
30502	30004	156.9260	89.3130	182.196	1.30	1.63	156.9258	179.635	30.769

Longitud de la poligonal 179.6

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30004	284597.876	4821049.149	61.157	-0.0002	
30502	284485.399	4821189.208	30.387	399.9998	

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CALCULO EN COORDENADAS PLANAS ESCALA 1.000000□

05 ABO 2007

TECNIA INGENIEROS S.A.

POLIGONAL PROYECTO V-322

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P O L I G O N A L 4  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30004	30503	327.4040	109.0750	218.190	1.30	1.57	327.4038	215.977	-30.721
30503	30004	127.4040	91.0770	218.123	1.30	1.54	127.4038	215.984	30.715

Longitud de la poligonal 216.0

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30004	284597.876	4821049.149	61.157	-0.0002	
30503	284401.598	4821139.275	30.439	399.9998	

□

CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000□





TECNIA INGENIEROS S.A.

POLIGONAL PROYECTO V-322

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P O L I G O N A L 5  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30053	30504	398.5410	97.1030	51.802	1.30	1.68	398.5410	51.748	2.739
30504	30053	198.5410	103.7580	51.845	1.30	1.62	198.5410	51.755	-2.740

Longitud de la poligonal 51.8

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30053	285190.042	4821555.084	23.559	-0.0000	
30504	285188.856	4821606.822	26.298	400.0000	

□

CALCULO EN COORDENADAS PLANAS ESCALA 1.000000□

06 AGO 2007

TECNIA INGENIEROS S.A.

POLIGONAL PROYECTO V-322

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P O L I G O N A L 6  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30051	30505	312.4810	99.2620	195.446	1.30	1.61	312.4805	195.433	2.576
30505	30051	112.4810	100.9530	195.455	1.30	1.65	112.4805	195.433	-2.572
30505	30506	306.4120	101.8150	491.601	1.30	1.65	306.4115	491.401	-13.647
30506	30505	106.4120	98.2730	491.582	1.30	1.61	106.4115	491.401	13.658

Longitud de la poligonal 686.8

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30051	283799.604	4821445.854	55.620	-0.0005	
30505	283607.915	4821483.922	58.194	399.9995	
30506	283119.004	4821533.328	44.542	399.9995	

□

CALCULO EN COORDENADAS PLANAS ESCALA 1.000000□



TECNIA INGENIEROS S.A.  
 POLIGONAL PROYECTO V-322

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 P O L I G O N A L 7  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30004	30002	200.5115	101.3295	596.015	1.30	1.55	19.2269	595.885	-12.177
30002	30004	219.2000	98.7250	595.999	1.30	1.53	219.2269	595.879	12.190
30002	30001	391.4060	91.5770	69.479	1.30	1.53	391.4329	68.872	9.397
30001	30002	0.0005	108.8560	69.544	1.30	1.54	191.4329	68.872	-9.404
30001	30003	98.8275	99.2315	189.602	1.30	1.54	290.2599	189.588	2.530
30003	30001	298.8270	100.9535	189.611	1.30	1.59	90.2599	189.590	-2.545
30003	30009	99.4345	99.3905	306.814	1.30	1.59	290.8674	306.800	3.236
30009	30003	299.4380	100.7420	306.820	1.30	1.62	90.8674	306.799	-3.248
30009	30010	116.7115	100.2825	228.514	1.30	1.62	308.1409	228.512	-0.689
30010	30009	316.7145	99.8590	228.512	1.30	1.47	108.1409	228.511	0.683
30010	30011	102.7445	101.2470	147.431	0.10	1.47	294.1709	147.403	-1.513
30011	30010	0.0005	99.9745	147.403	0.10	1.55	94.1709	147.403	1.510
30011	30051	138.0975	102.0910	209.890	1.00	1.55	232.2679	209.777	-6.340
30051	30011	213.5525	98.1765	209.859	1.30	1.61	32.2679	209.773	6.325

Longitud de la poligonal 1746.8  
 Error de cierre angular = -0.0000  
 Error de cierre en --X-- 0.012  
 Error de cierre en --Y-- 0.034  
 Error de cierre en --Z-- -0.004

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30004	284597.876	4821049.149	61.157	218.7154	
30002	284775.123	4821618.072	48.971	0.0269	
30001	284765.883	4821686.323	58.372	191.4324	
30003	284578.510	4821657.433	60.909	191.4329	
TECNIA INGENIEROS S.A.					
30009	284274.864	4821613.579	64.151	191.4294	
30010	284048.220	4821642.725	63.465	191.4264	
30011	283901.435	4821629.250	61.953	94.1704	
30051	283799.604	4821445.854	55.620	218.7154	

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CALCULO EN COORDENADAS PLANAS ESCALA 1.000000□



TECNIA INGENIEROS S.A.

POLIGONAL PROYECTO V-322

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P O L I G O N A L 8  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30004	30008	0.0000	94.0400	27.198	1.30	1.54	128.2408	27.079	2.784
30008	30004	0.0000	107.2115	27.250	1.30	1.59	328.2408	27.075	-2.787
30008	30012	117.9290	102.7105	853.671	1.30	1.59	46.1698	852.897	-35.994
30012	30008	0.0005	97.3380	853.671	1.30	1.53	246.1698	852.925	35.962

Longitud de la poligonal 880.0

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30004	284597.876	4821049.149	61.157	128.2408	
30008	284622.332	4821037.528	63.942	328.2408	
30012	285188.077	4821675.799	27.964	246.1693	

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CALCULO EN COORDENADAS PLANAS ESCALA 1.000000□



TECNIA INGENIEROS S.A.

POLIGONAL PROYECTO V-322

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 P O L I G O N A L 9  
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-NE-	-NV-	--H--	--V--	--DG--	-M-	-I-	-AZ-	--DR--	-DES-
30002	30006	253.0995	101.2075	56.366	1.30	1.57	253.1270	56.356	-0.796
30006	30002	53.1030	99.2910	56.361	1.30	1.47	53.1270	56.358	0.793
30006	30007	88.6170	111.3205	86.907	1.30	1.47	88.6410	85.537	-15.207
30007	30006	386.2950	88.9690	86.835	1.30	1.53	288.6410	85.535	15.204

Longitud de la poligonal 141.9

-NE-	--X--	--Y--	--Z--	--ä--	-NOMBRE-
30002	284775.123	4821618.072	48.971	0.0275	
30006	284733.364	4821580.227	48.177	0.0240	
30007	284817.542	4821595.408	32.972	302.3460	

□

CALCULO EN COORDENADAS PLANAS

ESCALA 1.000000□

30001	284765.883	4821686.323	58.372
30002	284775.123	4821618.072	48.971
30003	284578.510	4821657.433	60.909
30004	284597.876	4821049.149	61.157
30005	284367.128	4820286.959	82.380
30006	284733.364	4821580.227	48.177
30007	284817.542	4821595.408	32.972
30008	284622.332	4821037.528	63.942
30009	284274.864	4821613.579	64.151
30010	284048.220	4821642.725	63.465
30011	283901.435	4821629.250	61.953
30012	285188.077	4821675.799	27.964
30051	283799.604	4821445.854	55.620
30501	284831.063	4821544.074	32.008

### 2.3.2.- CALCULOS TAQIMETRICOS

06 ABR 2007

CO ISPOL T1 V322 RONDA SUR DE GIJON

E 1

#=====

#L Ba/Pt L.AZIM / X L.VERT / Y DIST. / Z COD. OBSERVACIONES LIN X Y Z

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
B	30005	284367.128	4820286.959	82.380						
L		6			6	0 BASE (coord de FICHERO DE BASES)				
H		1.6290	1.8000			1 Nueva LINEA				
O	30004	18.71500	101.68600	796.6160		2 Altura Aparato y Mira				
						3 284597.876 4821049.149				61.157
B	30004	284597.876	4821049.149	61.157						
L		6			6	4 BASE (coord de FICHERO DE BASES)				
H		1.5860	1.3000			5 Nueva LINEA				
O	30005	218.71500	98.33000	796.6140		6 Altura Aparato y Mira				
L		6			6	7 284367.128 4820286.959				82.380
D	30051	329.36200	100.41900	891.4250		8 Nueva LINEA				
L		6			6	9 283799.618 4821445.853				55.628
D	30053	54.98900	103.09700	779.7850		10 Nueva LINEA				
L		3			3	11 285190.035 4821555.080				23.563
	2001	376.08500	102.59000	440.5760		12 Nueva LINEA				
	2002	376.59800	102.46400	442.7800		13 284436.370 4821458.659				43.536
	2003	377.31800	102.44000	443.1390		14 284438.871 4821462.035				44.323
	2004	378.96700	102.45600	441.3660		15 284443.424 4821464.149				44.476
	2005	380.56800	102.45800	439.7810		16 284454.800 4821466.330				44.433
	2006	382.50900	102.43400	438.1760		17 284465.812 4821468.285				44.480
	2007	383.80500	102.44400	437.2520		18 284479.084 4821470.579				44.707
	2008	385.68800	102.50000	436.8210		19 284487.920 4821472.013				44.673
	2009	388.05000	102.54700	436.6500		20 284500.573 4821474.646				44.306
	2010	390.27600	102.60500	437.1120		21 284516.458 4821477.782				43.991
	2011	391.90400	102.66000	437.3890		22 284531.424 4821480.806				43.574
	2012	393.85900	102.80200	438.6800		23 284542.450 4821482.624				43.185
	2013	395.26300	102.87400	439.9800		24 284555.665 4821485.363				42.154
	2014	396.96400	102.92400	441.7600		25 284565.200 4821487.461				41.600
	2015	398.66000	102.96700	443.8420		26 284576.838 4821489.938				41.173
	2016	0.57700	103.01600	446.4470		27 284588.543 4821492.407				40.778
	2017	2.59400	103.03200	449.7080		28 284601.917 4821495.073				40.313
	2018	4.70700	103.06700	453.5260		29 284616.173 4821497.971				40.046
	2019	6.65600	103.10000	457.7580		30 284631.338 4821500.908				39.616
	2020	8.50600	103.14700	462.1760		31 284645.590 4821503.864				39.175
	2021	10.38500	103.19400	467.3250		32 284659.368 4821506.643				38.620
	2022	11.44400	103.21500	470.2620		33 284673.674 4821509.686				38.021
	2023	13.23200	103.25200	475.8770		34 284681.848 4821511.240				37.719
	2024	14.53200	103.27400	479.8870		35 284695.945 4821514.173				37.160
	2025	15.29500	103.28600	481.8630		36 284706.324 4821515.966				36.789
	2026	15.86700	103.31200	482.1260		37 284712.380 4821516.545				36.597
M		2.1500				38 284716.637 4821515.742				36.387
	2027	16.58600	103.26900	481.0330		39 Altura Mira				
	2028	17.76200	103.39900	477.3260		40 284721.622 4821513.333				35.918
	2029	18.28800	103.45400	476.6870		41 284729.142 4821507.360				35.135
	2030	18.84000	103.47800	477.7650		42 284732.736 4821505.626				34.758
	2031	19.53500	103.48700	480.6220		43 284737.000 4821505.460				34.520
	2032	21.40300	103.48100	489.6570		44 284742.834 4821506.630				34.296
	2033	23.24100	103.54600	499.2480		45 284759.170 4821510.699				33.848
	2034	24.31600	103.50700	505.5510		46 284775.835 4821514.770				32.815
	2035	25.61000	103.61600	512.6070		47 284786.024 4821517.554				32.774
	2036	26.71100	103.62000	518.3580		48 284798.245 4821520.071				31.510
	2037	27.13000	103.59500	521.7540		49 284808.697 4821521.778				31.151
L		3			3	50 284813.209 4821523.478				31.163
	2038	26.61500	103.64400	514.6330		51 Nueva LINEA				
	2039	25.50700	103.62800	508.8910		52 284806.469 4821518.686				31.169
	2040	24.57200	103.53400	503.8740		53 284796.033 4821516.974				31.625
	2041	23.50800	103.56200	497.9880		54 284787.271 4821515.232				32.653
	2042	22.91600	103.53000	494.7370		55 284777.330 4821512.840				32.761
	2043	21.20000	103.50500	485.8960		56 284771.872 4821511.464				33.190
	2044	20.08200	103.51900	480.6230		57 284756.466 4821507.653				33.870
	2045	19.13400	103.49400	476.2230		58 284746.755 4821505.356				34.055
M		2.5000				59 284738.648 4821503.336				34.484
	2046	18.45600	103.44400	474.4760		60 Altura Mira				
M		2.1500				61 284733.310 4821503.157				34.602
	2047	17.91100	103.45800	474.2820		62 Altura Mira				
	2048	16.79400	103.35600	476.7210		63 284729.363 4821504.108				34.858
	2049	16.28700	103.33100	476.9260		64 284722.006 4821508.736				35.489
	2050	15.77500	103.24900	479.6580		65 284718.397 4821509.917				35.665
M		1.3000				66 284715.364 4821513.548				36.139
	2051	14.93600	103.31200	478.4580		67 Altura Mira				
	2052	13.44100	103.28500	473.9430		68 284708.949 4821513.866				36.578
	2053	11.41500	103.24100	467.9090		69 284697.064 4821511.948				37.013
						70 284681.216 4821508.956				37.647

# -ISPOL- Libreta Topografica  
 # ---- Datos de Entrada ----  
 # -----

ispol-V.6.47 26 Jun 1998 14:41 47



CO ISPOL T1 V322 RONDA SUR DE GIJON  
 E 1

#L	Ba/Pt	L.AZIM / X	L. VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		2054	9.85300	103.20600	463.7070		71	284669.266	4821506.729	38.115
		2055	7.65700	103.14700	458.0660		72	284652.769	4821503.347	38.822
		2056	5.78200	103.09700	453.7130		73	284638.977	4821500.454	39.393
		2057	3.70600	103.07300	449.6190		74	284624.003	4821497.480	39.761
		2058	1.44300	103.04800	445.7100		75	284607.965	4821494.230	40.125
		2059	399.18200	103.00300	442.4680		76	284592.196	4821491.085	40.592
		2060	396.25600	102.92400	439.1830		77	284572.088	4821487.107	41.291
		2061	394.57200	102.86200	437.5510		78	284560.651	4821484.666	41.792
		2062	393.11300	102.77400	436.4890		79	284550.792	4821482.671	42.442
		2063	391.95100	102.67700	435.5340		80	284543.004	4821480.821	43.147
		2064	389.71500	102.60800	434.8350		81	284527.989	4821477.958	43.647
		2065	387.62600	102.56700	434.5500		82	284514.011	4821475.166	43.938
		2066	385.44500	102.52100	434.5920		83	284499.456	4821472.096	44.250
		2067	383.63400	102.47400	435.0670		84	284487.342	4821469.597	44.552
		2068	381.30900	102.47800	436.9260		85	284471.526	4821467.058	44.453
		2069	379.40100	102.48200	438.8510		86	284458.449	4821464.907	44.350
		2070	377.48900	102.46300	440.4340		87	284445.477	4821462.021	44.420
M			2.1500				88	Altura Mira		
		2071	376.89800	102.37900	440.7380		89	284441.535	4821460.893	44.140
M			1.3000				90	Altura Mira		
		2072	376.53800	102.55800	439.9500		91	284439.510	4821459.223	43.783
L			4			4	92	Nueva LINEA		
		2073	351.23700	101.91700	535.4560		93	284226.850	4821434.879	45.341
		2074	353.56300	102.04300	518.3570		94	284252.599	4821435.409	44.829
		2075	355.35500	102.21000	503.1900		95	284273.416	4821433.358	43.995
L			4			4	96	Nueva LINEA		
		2076	355.38900	102.52600	484.3540		97	284285.817	4821419.075	42.245
		2077	353.18600	102.37200	496.4240		98	284265.083	4821417.035	42.967
		2078	351.24000	102.30000	508.6610		99	284245.504	4821415.521	43.087
		2079	349.21400	102.16200	522.3160		100	284224.229	4821413.680	43.726
		2080	347.32500	102.14500	535.7350		101	284203.702	4821411.514	43.414
		2081	345.57500	102.08300	550.8600		102	284182.472	4821410.475	43.442
L			4			4	103	Nueva LINEA		
		2082	343.13200	102.37700	537.9640		104	284179.025	4821386.138	41.380
		2083	344.38100	102.44500	526.1740		105	284194.766	4821386.712	41.258
		2084	347.15800	102.49200	506.5400		106	284224.359	4821390.720	41.637
		2085	349.01000	102.62700	492.9070		107	284244.264	4821391.929	41.125
		2086	351.83200	102.74400	477.8920		108	284270.125	4821396.326	40.866
L			42			42	109	Nueva LINEA		
M			2.1500				110	Altura Mira		
		2087	338.64500	102.69000	519.4710		111	284171.595	4821345.205	38.667
M			2.5000				112	Altura Mira		
		2088	339.78100	102.71700	507.8010		113	284186.409	4821345.938	38.594
M			2.1500				114	Altura Mira		
		2089	341.74200	102.83600	490.7190		115	284209.304	4821348.040	38.756
		2090	342.61800	102.88700	483.1130		116	284219.426	4821348.632	38.707
		2091	344.71400	103.00900	467.8770		117	284241.139	4821351.069	38.501
		2092	346.83400	103.12400	453.8590		118	284261.799	4821353.355	38.344
M			1.3000				119	Altura Mira		
		2093	348.42000	103.31600	444.9030		120	284276.011	4821355.420	38.293
M			3.1500				121	Altura Mira		
		2094	350.31000	103.17400	435.1640		122	284292.053	4821357.964	37.918
		2095	352.21000	103.21900	427.4660		123	284306.659	4821361.319	38.000
L			86			86	124	Nueva LINEA		
M			2.1500				125	Altura Mira		
		2096	339.62300	102.51500	534.6450		126	284163.827	4821360.592	39.496
		2097	340.71500	102.40000	539.6210		127	284165.213	4821370.981	40.274
		2098	341.94400	102.25800	545.5100		128	284166.818	4821382.903	41.268
		2099	343.72700	102.02200	554.5820		129	284169.270	4821400.636	43.002
		2100	344.74800	101.90100	560.2330		130	284170.628	4821411.136	43.887
		2101	345.56300	101.77800	564.9210		131	284171.737	4821419.672	44.839
		2102	345.80500	101.74400	566.3190		132	284172.091	4821422.215	45.102
M			1.3000				133	Altura Mira		
		2103	346.67100	101.73400	571.5180		134	284173.341	4821431.452	45.900
M			2.1500				135	Altura Mira		
		2104	347.80600	101.48000	578.6290		136	284174.985	4821443.849	47.164
L			91			91	137	Nueva LINEA		
		2105	347.02900	101.59200	573.7370		138	284173.833	4821435.349	46.269
M			1.3000				139	Altura Mira		
		2106	347.10900	101.70500	572.8470		140	284174.995	4821435.264	46.124
		2107	346.79900	101.74300	570.9110		141	284174.563	4821431.896	45.835
L			4			4	142	Nueva LINEA		
		2108	347.97600	101.78900	561.8530		143	284188.322	4821433.453	45.677



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	L	2109	349.81800	101.83000	547.7100			144	284209.644	4821435.166	45.721
			30			30		145	Nueva LINEA		
		2110	348.49000	101.64200	571.4170			146	284184.494	4821443.370	46.728
		2111	349.71900	101.70700	559.1620			147	284200.892	4821442.641	46.472
	M		2.1500					148	Altura Mira		
	L	2112	351.23400	101.67400	544.8910			149	284220.253	4821441.701	46.286
			86			86		150	Nueva LINEA		
	M		1.3000					151	Altura Mira		
		2113	346.05600	101.89800	563.7990			152	284175.483	4821422.198	44.657
		2114	347.20100	101.95000	553.3310			153	284189.987	4821422.658	44.517
		2115	348.79200	102.01100	539.8730			154	284209.150	4821423.394	44.411
		2116	350.06000	102.04900	529.9840			155	284223.670	4821424.059	44.407
		2117	350.76900	101.90300	537.0590			156	284222.902	4821433.291	45.410
	L	2118	351.38600	101.78800	543.3250			157	284222.292	4821441.451	46.205
			30			30		158	Nueva LINEA		
		2119	351.78800	101.81500	540.5250			159	284226.704	4821441.776	46.054
		2120	352.96600	101.87600	532.0700			160	284239.734	4821442.318	45.785
		2121	354.31700	101.92800	522.7230			161	284254.309	4821442.781	45.633
		2122	355.39300	101.99800	514.4410			162	284266.360	4821442.190	45.318
		2123	356.51200	102.11100	506.0700			163	284278.618	4821441.444	44.682
		2124	358.95400	102.24200	489.8040			164	284303.689	4821440.378	44.213
		2125	360.20100	102.31800	482.8150			165	284315.508	4821440.385	43.882
		2126	361.34900	102.33300	478.6600			166	284324.979	4821442.000	43.921
		2127	363.23400	102.33800	472.3480			167	284340.174	4821444.621	44.114
		2128	364.91700	102.35500	466.7290			168	284353.660	4821446.507	44.196
		2129	366.78400	102.35900	460.4600			169	284368.540	4821448.065	44.398
		2130	368.98300	102.41900	453.7140			170	284385.617	4821449.776	44.221
		2131	371.09900	102.48100	447.9110			171	284401.598	4821451.382	44.005
		2132	373.54000	102.59800	442.2390			172	284419.463	4821453.396	43.413
		2133	375.78200	102.61800	440.0360			173	284434.626	4821457.378	43.365
		2134	375.98500	102.50300	444.9020			174	284434.126	4821462.446	43.968
		2135	376.80300	102.44900	443.9730			175	284439.776	4821463.663	44.381
		2136	378.00800	102.43000	442.7590			176	284448.058	4821465.444	44.560
		2137	380.26600	102.45400	440.4640			177	284463.616	4821468.305	44.481
		2138	382.31600	102.42900	438.8180			178	284477.630	4821470.835	44.717
		2139	383.87900	102.44600	437.9890			179	284488.227	4821472.853	44.631
		2140	385.77900	102.49900	437.3570			180	284501.063	4821475.307	44.292
		2141	387.92300	102.54400	437.1200			181	284515.514	4821478.081	43.992
		2142	390.33800	102.60200	437.5900			182	284531.772	4821481.344	43.575
		2143	391.93300	102.65700	438.2350			183	284542.541	4821483.488	43.171
		2144	393.29800	102.75100	439.0800			184	284551.780	4821485.387	42.488
		2145	395.85600	102.88700	441.0740			185	284569.214	4821488.833	41.460
		2146	398.56400	102.95400	444.1130			186	284587.869	4821492.668	40.856
		2147	0.58800	103.00900	446.9180			187	284601.998	4821495.545	40.340
		2148	3.12400	103.04400	451.0810			188	284619.976	4821499.169	39.896
		2149	5.11900	103.05700	454.9580			189	284634.376	4821502.111	39.618
		2150	7.31800	103.11100	459.8190			190	284650.552	4821505.385	38.996
		2151	9.25300	103.16100	464.6230			191	284665.085	4821508.303	38.397
		2152	11.06400	103.20300	469.7100			192	284678.993	4821511.194	37.835
		2153	13.06200	103.23800	475.7580			193	284694.680	4821514.322	37.270
		2154	15.64800	103.27400	484.6100			194	284715.638	4821518.569	36.547
		2155	16.30800	103.30400	484.6790			195	284720.513	4821517.378	36.315
	M		1.7000					196	Altura Mira		
		2156	16.61700	103.28000	483.9590			197	284722.601	4821516.091	36.135
	M		2.1500					198	Altura Mira		
		2157	17.59200	103.35900	479.1680			199	284728.424	4821509.494	35.337
	M		1.3000					200	Altura Mira		
		2158	17.98300	103.51800	477.6240			201	284730.801	4821507.141	35.078
	M		2.1500					202	Altura Mira		
		2159	18.36500	103.43600	477.2500			203	284733.450	4821506.009	34.862
	M		1.3000					204	Altura Mira		
		2160	19.11200	103.56000	479.6110			205	284739.483	4821506.590	34.652
		2161	20.76600	103.56000	487.3490			206	284753.794	4821510.075	34.220
		2162	22.42800	103.56700	495.7250			207	284768.658	4821513.695	33.698
	M		2.1500					208	Altura Mira		
		2163	23.67600	103.53600	502.4370			209	284780.171	4821516.514	32.717
	M		1.3000					210	Altura Mira		
		2164	25.11600	103.44500	519.1970			211	284797.143	4821527.757	33.379
		2165	26.33300	103.35300	534.6680			212	284812.481	4821538.044	33.314
		2166	26.89200	103.45700	542.1010			213	284819.789	4821542.868	32.039
	M		2.1500					214	Altura Mira		
		2167	27.16700	103.31800	545.9230			215	284823.526	4821545.436	32.172
	M		1.3000					216	Altura Mira		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		2168	27.16700	103.24200	548.6760			217	284824.678	4821547.969	33.533
B		30004	284597.876	4821049.149	61.157			218	BASE (coord de FICHERO DE BASES)		
L			6			6		219	Nueva LINEA		
H			1.5230	1.3000				220	Altura Aparato y Mira		
O		30005	218.71600	98.32600	796.6160			221	284367.128	4820286.959	82.380
L			6			6		222	Nueva LINEA		
D		30501	28.03100	103.41600	547.8950			223	284831.053	4821544.073	32.015
L			42			42		224	Nueva LINEA		
M			4.1900					225	Altura Mira		
		2169	24.05100	103.51800	489.6630			226	284778.212	4821503.587	31.460
		2170	25.43100	103.70800	476.9220			227	284783.041	4821487.777	30.742
M			2.1500					228	Altura Mira		
		2171	27.10100	104.23600	464.0630			229	284789.082	4821470.859	29.689
L			4			4		230	Nueva LINEA		
M			1.3000					231	Altura Mira		
		2172	23.68800	104.00900	479.4500			232	284771.831	4821494.905	31.223
M			1.7000					233	Altura Mira		
		2173	25.12200	104.20700	460.9640			234	284774.699	4821473.757	30.554
L			4			4		235	Nueva LINEA		
M			1.3000					236	Altura Mira		
		2174	21.19600	104.04200	465.8330			237	284749.808	4821488.513	31.838
		2175	22.80500	104.31500	450.8920			238	284755.590	4821470.450	30.855
L			4			4		239	Nueva LINEA		
		2176	19.01600	104.10200	455.2360			240	284731.556	4821483.323	32.081
		2177	20.53700	104.44800	437.3700			241	284736.188	4821462.945	30.859
L			42			42		242	Nueva LINEA		
M			4.1900					243	Altura Mira		
		2178	17.51400	104.14700	420.9000			244	284711.964	4821453.361	31.103
		2179	17.77400	103.81200	444.0940			245	284720.031	4821475.281	31.927
M			2.1500					246	Altura Mira		
		2180	18.06700	103.81200	462.7450			247	284727.204	4821492.587	32.852
		2181	20.77700	103.78000	475.6390			248	284750.088	4821498.887	32.320
M			4.1900					249	Altura Mira		
		2182	23.75800	103.40900	494.8570			250	284778.026	4821509.284	32.020
L			42			42		251	Nueva LINEA		
		2183	17.34000	103.42300	462.2970			252	284722.055	4821493.759	33.659
M			2.1500					253	Altura Mira		
		2184	15.79400	103.40300	473.6290			254	284714.002	4821507.620	35.239
L			4			4		255	Nueva LINEA		
M			1.3000					256	Altura Mira		
		2185	14.80400	104.56600	411.5300			257	284692.461	4821448.572	31.900
		2186	13.54100	103.99200	442.7940			258	284691.158	4821481.112	33.645
L			4			4		259	Nueva LINEA		
		2187	9.96900	104.64500	390.4410			260	284658.597	4821433.785	32.927
		2188	8.11200	104.03800	422.4320			261	284651.442	4821467.311	34.615
L			4			4		262	Nueva LINEA		
		2189	4.50500	104.90200	360.0710			263	284623.253	4821407.252	33.690
		2190	2.12600	103.90300	411.7090			264	284611.589	4821459.852	36.166
L			4			4		265	Nueva LINEA		
		2191	0.64500	105.42700	326.5970			266	284601.167	4821374.541	33.579
		2192	397.64400	103.79100	405.4640			267	284582.893	4821453.614	37.260
L			42			42		268	Nueva LINEA		
M			4.1900					269	Altura Mira		
		2193	6.43100	106.12600	298.3560			270	284627.819	4821344.609	29.830
		2194	0.68600	106.15800	289.5320			271	284600.976	4821337.309	30.533
		2195	396.89800	106.05400	288.2740			272	284583.893	4821335.778	31.123
M			5.3000					273	Altura Mira		
		2196	394.48700	105.69800	290.0790			274	284572.882	4821336.982	31.457
M			4.1900					275	Altura Mira		
		2197	396.21300	105.06100	315.7760			276	284579.156	4821363.368	33.419
		2198	397.51400	104.02800	355.5920			277	284584.015	4821403.756	36.014
		2199	394.38300	103.83500	361.5400			278	284566.070	4821408.626	36.733
M			5.1900					279	Altura Mira		
		2200	392.41300	102.12200	434.5230			280	284546.235	4821480.346	43.021
L			4			4		281	Nueva LINEA		
M			1.3000					282	Altura Mira		
		2201	390.53900	103.12000	418.6050			283	284535.962	4821462.638	40.884
		2202	390.72400	103.84700	385.8450			284	284541.950	4821430.205	38.088
		2203	387.65600	103.08800	417.4260			285	284517.531	4821458.266	41.152
		2204	387.50500	103.83500	384.5390			286	284523.015	4821425.617	38.239
L			42			42		287	Nueva LINEA		
M			0.2000					288	Altura Mira		
		2205	389.17200	104.53900	359.0470			289	284537.250	4821402.112	36.911

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M			5.1900								
		2206	383.56300	103.45900	367.8660			290	Altura Mira		
		2207	384.72300	102.81600	399.1130			291	284504.081	4821404.292	37.521
M			5.8000					292	284503.104	4821436.441	39.852
		2208	384.41800	101.81100	433.3090			293	Altura Mira		
L			4					294	284492.910	4821469.368	44.568
M			1.3000					295	Nueva LINEA		
		2209	380.58500	102.93200	423.8940			296	Altura Mira		
		2210	379.89500	103.50800	399.6470			297	284470.724	4821453.048	41.876
L			42					298	284473.934	4821428.450	39.380
M			3.1500					299	Nueva LINEA		
		2211	378.87200	103.77500	370.5320			300	Altura Mira		
M			4.1900					301	284477.356	4821398.841	37.580
		2212	375.09900	103.55000	373.5380			302	Altura Mira		
		2213	375.20000	103.20300	391.3010			303	284455.682	4821393.933	37.680
M			2.1500					304	284449.451	4821410.669	38.821
		2214	376.55600	102.83800	421.5600			305	Altura Mira		
M			1.8000					306	284446.263	4821442.049	41.755
		2215	377.16100	102.41600	439.8820			307	Altura Mira		
L			4					308	284443.535	4821460.723	44.203
M			1.3000					309	Nueva LINEA		
		2216	373.36900	103.09100	422.1020			310	Altura Mira		
		2217	372.61500	103.45300	405.7110			311	284426.604	4821434.394	40.905
L			42					312	284428.930	4821417.351	39.396
M			5.1900					313	Nueva LINEA		
		2218	371.52900	103.40300	372.9630			314	Altura Mira		
								315	284436.809	4821384.946	37.572
B		30004	284597.876	4821049.149	61.157			316	BASE (coord de FICHERO DE BASES)		
L			6					317	Nueva LINEA		
H			1.5740	1.3000				318	Altura Aparato y Mira		
O		30005	218.71500	98.32800	796.6180			319	284367.128	4820286.959	82.380
L			42					320	Nueva LINEA		
M			1.5000					321	Altura Mira		
		2219	367.14800	103.92400	373.9670			322	284413.697	4821373.798	38.204
M			4.1900					323	Altura Mira		
		2220	368.95400	103.01600	406.2250			324	284407.746	4821407.613	39.314
		2221	370.83400	102.07700	448.0350			325	284399.825	4821450.764	43.939
L			4					326	Nueva LINEA		
M			1.3000					327	Altura Mira		
		2222	366.09900	102.63100	451.5730			328	284368.808	4821437.858	42.787
		2223	360.49100	102.56300	468.3990			329	284325.711	4821429.891	42.593
L			4					330	Nueva LINEA		
		2224	359.58800	102.95100	449.2940			331	284331.728	4821410.527	40.625
		2225	365.94900	103.22400	424.8240			332	284381.608	4821414.167	39.938
L			42					333	Nueva LINEA		
		2226	364.05700	103.92500	378.5800			334	284395.695	4821368.365	38.114
		2227	357.26900	103.65100	403.3140			335	284347.453	4821364.448	38.324
M			4.3000					336	Altura Mira		
		2228	352.60600	103.03700	421.8880			337	284312.341	4821359.071	38.324
M			6.0000					338	Altura Mira		
		2229	352.65500	102.73600	426.3550			339	284309.497	4821362.642	38.425
H			4.1900					340	Altura Mira		
		2230	355.08800	102.73100	446.6220			341	284308.556	4821388.847	39.401
M			2.0000					342	Altura Mira		
		2231	356.77100	102.68700	464.2630			343	284306.559	4821410.102	41.156
M			4.1900					344	Altura Mira		
		2232	358.86500	101.86800	490.1720			345	284302.865	4821440.335	44.176
L			91					346	Nueva LINEA		
M			1.3000					347	Altura Mira		
		2233	358.91600	102.44300	479.6620			348	284309.585	4821432.061	43.044
		2234	359.16400	102.37600	482.8390			349	284309.168	4821435.740	43.430
		2235	358.83700	102.38500	484.3400			350	284306.284	4821435.447	43.306
L			4					351	Nueva LINEA		
M			4.1900					352	Altura Mira		
		2236	351.66600	102.73100	456.1830			353	284284.147	4821379.741	38.991
		2237	345.52900	102.43900	490.0970			354	284228.135	4821370.288	39.785
		2238	341.59400	102.36100	517.2670			355	284187.426	4821363.353	39.379
L			42					356	Nueva LINEA		
M			1.3000					357	Altura Mira		
		2239	348.05800	103.38100	440.2680			358	284277.663	4821350.397	38.073
		2240	348.56100	103.41800	439.7210			359	284280.458	4821352.531	37.846
		2241	350.87400	103.52600	429.2550			360	284299.003	4821356.341	37.680
		2242	351.82800	103.58600	424.1690			361	284307.141	4821357.077	37.563



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	L		42								
	M		4.1900			42		362	Nueva LINEA		
		2243	347.41300	103.21200	426.3340			363	Altura Mira		
		2244	346.60100	103.36800	414.2640			364	284284.815	4821337.746	37.052
	M		2.1500					365	284290.165	4821325.638	36.646
		2245	348.67200	103.82100	400.5480			366	Altura Mira		
	M		4.1900					367	284309.322	4821325.908	36.565
		2246	351.14300	103.61200	385.9420			368	Altura Mira		
	M		2.9000					369	284330.350	4821326.457	36.665
		2247	352.92300	104.10100	358.3650			370	Altura Mira		
	M		4.1900					371	284356.873	4821313.363	36.770
		2248	357.78500	104.18300	327.7990			372	Altura Mira		
	M		2.1500					373	284396.528	4821306.921	37.025
		2249	361.13500	104.57600	325.0560			374	Altura Mira		
		2250	362.79300	104.51000	326.1540			375	284412.013	4821314.799	37.243
		2251	363.76700	104.50900	330.0130			376	284418.377	4821320.482	37.502
		2252	365.70900	104.26400	348.6280			377	284420.474	4821326.440	37.234
	L		4			4		378	284419.442	4821347.740	37.256
	M		1.3000					379	Nueva LINEA		
		2253	362.68300	104.26700	359.2580			380	Altura Mira		
		2254	357.04900	104.06400	380.3020			381	284399.589	4821347.759	37.378
		2255	351.71300	103.81500	407.9170			382	284360.808	4821345.523	37.180
	L		42			42		383	284317.805	4821344.711	37.012
	M		2.1500					384	Nueva LINEA		
		2256	359.36900	104.78000	324.9790			385	284404.808	4821309.418	37.060
		2257	358.16100	104.84100	303.9780			386	Altura Mira		
		2258	355.75000	105.26300	273.1810			387	284412.711	4821289.111	37.494
		2259	355.37600	105.32800	270.2280			388	284423.517	4821258.234	38.027
		2260	351.35500	106.21200	247.5580			389	284424.204	4821254.940	37.996
		2261	348.74500	107.19800	233.4130			390	284427.407	4821227.033	36.467
	L		4			4		391	284430.682	4821209.877	34.250
	M		1.3000					392	Nueva LINEA		
		2262	350.23900	109.17400	208.6480			393	Altura Mira		
		2263	356.75100	109.78200	194.9490			394	284452.419	4821195.702	31.471
		2264	369.20800	110.79800	178.9290			395	284476.835	4821199.027	31.596
	L		4			4		396	284515.861	4821205.279	31.229
		2265	374.67500	108.22500	204.6640			397	Nueva LINEA		
		2266	366.67300	107.87500	208.7610			398	284519.251	4821236.257	35.065
		2267	356.84800	107.37000	222.5610			399	284494.311	4821228.569	35.676
	L		4			4		400	284459.242	4821221.348	35.726
		2268	358.59100	105.96800	248.3990			401	Nueva LINEA		
		2269	366.22200	106.36000	236.5480			402	284448.120	4821245.958	38.183
		2270	374.93700	107.07200	230.5570			403	284478.771	4821252.155	37.842
		2271	381.13600	107.64000	227.7020			404	284509.980	4821260.754	35.875
	L		4			4		405	284531.866	4821265.359	34.174
		2272	383.84300	107.07800	252.3210			406	Nueva LINEA		
		2273	376.72400	106.45100	257.9070			407	284534.915	4821291.877	33.440
		2274	366.94800	105.65000	264.1260			408	284506.140	4821288.771	35.346
		2275	359.86000	105.57800	263.1780			409	284467.341	4821277.566	38.025
	L		42			42		410	284443.312	4821260.906	38.406
		2276	359.28400	105.42600	271.4920			411	Nueva LINEA		
		2277	362.30200	105.36700	273.4140			412	284436.426	4821266.189	38.324
	M		2.1500					413	284445.812	4821275.203	38.413
		2278	364.01800	105.13700	274.7440			414	Altura Mira		
		2279	367.41100	105.15000	283.3420			415	284451.206	4821280.408	38.440
		2280	369.96200	105.15000	293.0530			416	284459.538	4821295.360	37.690
		2281	371.93600	105.08800	303.7090			417	284465.113	4821309.326	36.906
		2282	375.36700	105.50900	293.7780			418	284468.701	4821322.944	36.340
		2283	381.39500	106.13900	279.2900			419	284487.433	4821320.188	35.196
		2284	384.65900	106.50800	273.1100			420	284517.785	4821315.352	33.696
	M		3.1500					421	284533.038	4821312.981	32.715
		2285	390.78600	106.90300	262.3620			422	Altura Mira		
	M		2.1500					423	284560.258	4821307.241	31.193
		2286	388.42700	107.37200	244.9450			424	Altura Mira		
		2287	386.03300	108.15700	217.2860			425	284553.889	4821288.442	32.284
		2288	383.87900	108.95900	198.7670			426	284550.974	4821259.486	32.819
		2289	379.43600	110.47900	180.3400			427	284548.571	4821239.673	32.704
	L		6			6		428	284541.404	4821217.849	31.032
	M		1.3000					429	Nueva LINEA		
	D	30502	356.92600	110.89600	182.2920			430	Altura Mira		
	L		6			6		431	284485.402	4821189.205	30.385
	D	30503	327.40400	109.07500	218.1900			432	Nueva LINEA		
	L		4			4		433	284401.603	4821139.273	30.436
								434	Nueva LINEA		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
2290			388.94700	106.22200	296.7160						
2291			379.78100	105.50100	310.2540			435	284546.863	4821340.007	32.483
2292			373.31200	105.08600	320.3170			436	284501.349	4821342.784	34.662
2293			368.60200	104.75900	331.2400			437	284467.909	4821340.794	35.875
	L		4					438	284441.490	4821340.095	36.700
2294			369.54900	104.48300	348.3240			439	Nueva LINEA		
2295			374.49200	104.68700	341.8030			440	284437.943	4821357.611	36.931
2296			382.06600	104.93700	335.4890			441	284464.919	4821363.025	36.297
2297			389.37000	105.11900	331.6380			442	284504.892	4821370.443	35.447
	L		4					443	284542.935	4821375.115	34.800
2298			390.96300	104.74000	346.0630			444	Nueva LINEA		
2299			383.98800	104.60300	349.3240			445	284549.051	4821390.779	35.696
2300			375.03900	104.47500	353.5600			446	284511.166	4821386.595	36.204
2301			372.30800	104.39300	356.0380			447	284463.108	4821375.069	36.607
	L		40					448	284448.200	4821371.260	36.890
2302			344.91300	104.12900	388.8630			449	Nueva LINEA		
2303			347.71500	104.25600	371.6530			450	284302.461	4821300.758	36.238
2304			348.84600	104.29700	365.9750			451	284326.426	4821301.779	36.612
2305			350.92600	104.42200	354.6210			452	284335.046	4821302.618	36.756
2306			352.51600	104.57100	345.9240			453	284351.392	4821302.909	36.827
2307			355.56000	104.68400	334.2020			454	284363.732	4821302.571	36.622
	M		4.0000					455	284383.655	4821304.482	36.871
2308			358.49800	104.27600	322.8090			456	Altura Mira		
	M		1.3000					457	284402.468	4821305.177	37.072
2309			356.09800	105.09500	299.7430			458	Altura Mira		
2310			354.13900	105.22900	286.6860			459	284407.780	4821279.656	37.473
	M		2.1500					460	284409.396	4821263.880	37.915
2311			350.85900	105.53000	266.3720			461	Altura Mira		
	M		4.1900					462	284412.783	4821239.305	37.476
2312			352.33400	105.17600	258.4590			463	Altura Mira		
	L		40					464	284422.522	4821237.856	37.555
	M		2.1500					465	Nueva LINEA		
2313			349.81600	105.96200	261.6580			466	Altura Mira		
	M		1.3000					467	284413.136	4821232.823	36.117
2314			345.28900	105.92900	278.1390			468	Altura Mira		
2315			342.15300	105.59600	291.8800			469	284388.114	4821229.955	35.570
2316			339.03000	105.30900	307.7510			470	284368.566	4821227.903	35.813
2317			335.27000	104.98900	330.0150			471	284347.049	4821225.609	35.802
	L		23					472	284318.089	4821222.238	35.602
2318			334.97600	105.16400	328.7720			473	Nueva LINEA		
2319			338.12300	105.51900	309.5930			474	284318.411	4821220.260	34.799
2320			342.68300	105.91000	285.7860			475	284343.116	4821223.003	34.632
2321			346.86200	106.30100	269.1070			476	284374.918	4821225.955	34.944
	M		5.1900					477	284399.421	4821228.943	34.844
2322			351.15800	105.61800	255.2660			478	Altura Mira		
2323			348.52700	106.09800	237.8150			479	284421.379	4821232.186	35.048
	L		40					480	284426.659	4821212.620	34.800
	M		4.1900					481	Nueva LINEA		
2324			347.41800	106.44700	233.4470			482	Altura Mira		
2325			344.16500	106.83200	222.6470			483	284427.127	4821206.580	34.944
	M		5.1900					484	284427.678	4821190.693	34.696
2326			340.68300	107.04000	211.5990			485	Altura Mira		
	L		4					486	284429.071	4821174.581	34.192
2327			340.64200	106.85200	214.9200			487	Nueva LINEA		
2328			350.61200	105.67500	254.4680			488	284426.284	4821176.480	34.457
	M		1.3000					489	284420.386	4821230.083	34.891
2329			342.04000	105.89000	287.3520			490	Altura Mira		
2330			335.09300	105.22600	325.9450			491	284371.906	4821224.656	34.889
2331			325.57300	105.78600	294.7630			492	284321.148	4821219.284	34.711
	M		4.1900					493	284327.698	4821163.919	34.684
2332			331.82700	106.01500	252.5220			494	Altura Mira		
	L		23					495	284377.249	4821169.659	34.722
2333			349.88100	105.44800	265.7240			496	Nueva LINEA		
2334			353.16100	105.01600	285.3050			497	284410.320	4821236.004	35.834
2335			356.18700	104.70100	304.3610			498	284406.991	4821259.996	36.090
2336			358.19700	104.48900	321.6630			499	284405.086	4821283.589	36.093
	M		1.3000					500	284402.003	4821303.286	35.885
2337			355.51600	104.87700	332.5150			501	Altura Mira		
2338			350.60500	104.55500	353.1370			502	284384.610	4821302.988	35.990
2339			348.87500	104.41100	364.6610			503	284351.189	4821300.569	36.194
2340			346.67000	104.28200	376.6030			504	284336.136	4821301.796	36.193
2341			344.60800	104.16500	390.5510			505	284318.653	4821300.588	36.129
	L		4					506	284299.983	4821300.417	35.908
								507	Nueva LINEA		



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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		2342 343.38200	104.22500	383.7780						
M		2343 349.91600	104.57900	350.6390			508	284300.467	4821290.361	35.989
		4.1900					509	284350.253	4821296.118	36.240
		2344 357.61600	104.49500	320.9120			510	Altura Mira		
		2345 354.06000	104.84000	295.0490			511	284400.156	4821300.897	35.908
M		2346 349.80900	105.37400	269.2960			512	284403.529	4821270.010	36.137
		1.3000					513	284407.566	4821238.320	35.840
		2347 341.46600	105.29400	303.7540			514	Altura Mira		
		2348 335.03500	104.77700	341.0680			515	284357.146	4821232.664	36.207
L		2349 339.41600	104.47000	361.4120			516	284307.986	4821227.012	35.870
		4					517	284304.278	4821258.371	36.084
		2350 341.18300	104.56400	350.9220	4		518	Nueva LINEA		
		2351 346.05600	104.84900	326.4040			519	284318.577	4821260.110	36.303
		2352 351.19900	105.26300	305.0470			520	284353.937	4821264.590	36.600
L		91					521	284386.999	4821268.121	36.247
		2353 351.92800	104.56600	349.8400	91		522	Nueva LINEA		
		2354 351.77200	104.57900	348.7190			523	284358.723	4821303.243	36.369
		2355 351.23000	104.53500	351.1590			524	284358.873	4821301.840	36.378
L		91					525	284355.031	4821301.562	36.445
		2356 349.86800	104.46100	358.8910	91		526	Nueva LINEA		
		2357 349.69300	104.47600	357.7630			527	284344.201	4821301.772	36.311
L		2358 349.15800	104.44000	360.4550			528	284344.312	4821300.278	36.306
		4					529	284340.276	4821300.022	36.321
		2359 350.31400	104.26000	371.0240	4		530	Nueva LINEA		
		2360 347.50200	104.07000	389.2680			531	284337.405	4821312.201	36.631
		2361 346.29300	104.00400	396.1760			532	284312.621	4821312.851	36.571
L		92					533	284302.496	4821311.986	36.540
		2362 334.17000	105.16100	328.4000	92		534	Nueva LINEA		
		2363 329.21700	105.44900	311.2000			535	284316.584	4821216.519	34.844
		2364 328.11400	105.30800	319.7950			536	284319.901	4821186.503	34.833
L		4					537	284309.767	4821185.352	34.805
		2365 332.40400	105.69200	296.8170	4		538	Nueva LINEA		
M		4.1900					539	284339.723	4821193.210	34.934
		2366 337.18100	105.60400	268.1290			540	Altura Mira		
M		1.3000					541	284375.059	4821196.420	34.973
		2367 342.98400	106.91300	245.9570			542	Altura Mira		
L		780					543	284407.017	4821201.976	34.779
M		1.7000					544	Nueva LINEA		
		2368 357.67900	102.47100	476.1670			545	Altura Mira		
L		780					546	284304.359	4821423.632	42.568
M		1.3000					547	Nueva LINEA		
		2369 370.01300	102.89500	431.9800			548	Altura Mira		
L		780					549	284402.043	4821433.684	41.806
M		4.1900					550	Nueva LINEA		
		2370 376.52700	102.59300	419.8310			551	Altura Mira		
L		780					552	284446.688	4821440.436	41.457
		2371 384.58300	102.69000	412.5200			553	Nueva LINEA		
L		780					554	284499.038	4821449.271	41.127
M		5.9000					555	Nueva LINEA		
		2372 392.75100	102.62700	413.9670			556	Altura Mira		
L		780					557	284550.880	4821460.082	39.765
		2373 16.86300	103.08600	468.2240			558	Nueva LINEA		
							559	284720.309	4821500.509	34.157
B		30502 284485.399	4821189.208	30.387			560	BASE (coord de FICHERO DE BASES)		
L		6					561	Nueva LINEA		
H		1.6250	1.3000		6		562	Altura Aparato y Mira		
O		30004 156.92600	89.31300	182.1960			563	284597.876	4821049.149	61.157
L		40					564	Nueva LINEA		
M		2.1500					565	Altura Mira		
		2374 123.27800	102.06000	58.6150			566	284540.110	4821168.261	27.966
M		1.3000					567	Altura Mira		
		2375 133.28100	103.05800	49.2400			568	284528.013	4821164.652	28.348
		2376 158.31100	102.98000	42.3180			569	284511.144	4821155.681	28.732
		2377 173.01600	102.51300	44.9840			570	284503.886	4821148.237	28.937
		2378 181.78700	103.06600	40.7540			571	284496.887	4821150.156	28.750
		2379 204.07400	102.67700	38.3450			572	284482.949	4821150.975	29.100
		2380 213.62300	102.53700	36.5820			573	284477.637	4821153.489	29.255
		2381 244.99300	102.02900	40.7400			574	284458.958	4821158.242	29.414
M		2382 256.89600	101.75100	43.3810			575	284451.601	4821162.039	29.519
		2.1500					576	Altura Mira		
		2383 266.70200	100.09500	50.9260			577	284441.282	4821163.769	29.786
L		40					578	Nueva LINEA		
M		2.2000			40		579	Altura Mira		

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#	L Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2384	261.60900	99.97200	49.5370			580	284444.600	4821161.113	29.834
M		3.1500					581	Altura Mira		
	2385	253.41500	98.66000	44.9250			582	284451.982	4821159.197	29.808
M		1.3000					583	Altura Mira		
	2386	235.99100	101.99600	40.5150			584	284463.706	4821155.014	29.442
	2387	222.62400	102.19000	38.6120			585	284471.972	4821153.030	29.384
	2388	208.06000	102.43500	39.7410			586	284480.385	4821149.814	29.192
	2389	191.91900	102.61900	40.8750			587	284490.569	4821148.696	29.031
	2390	183.14300	102.98600	41.3170			588	284496.200	4821149.375	28.775
	2391	173.41500	102.49000	46.9270			589	284504.416	4821146.347	28.877
	2392	161.80000	102.49900	44.8420			590	284510.701	4821152.228	28.952
	2393	142.87900	102.91300	46.9560			591	284522.062	4821159.950	28.564
M		0.5000					592	Altura Mira		
	2394	131.54000	103.25500	52.9020			593	284531.879	4821164.091	28.809
M		1.5000					594	Altura Mira		
	2395	126.38700	102.59700	55.8980			595	284536.521	4821166.716	28.233
L		4			4		596	Nueva LINEA		
M		1.3000					597	Altura Mira		
	2396	145.29800	99.58300	62.0090			598	284532.361	4821148.717	31.118
M		0.5000					599	Altura Mira		
	2397	157.18400	97.19500	72.4260			600	284530.476	4821132.609	34.702
L		4			4		601	Nueva LINEA		
	2398	176.27300	96.56700	68.6720			602	284510.369	4821125.344	35.214
	2399	175.99700	98.64800	58.8940			603	284507.077	4821134.463	32.763
L		4			4		604	Nueva LINEA		
M		1.3000					605	Altura Mira		
	2400	198.25900	98.13700	57.2870			606	284486.965	4821131.967	32.388
	2401	197.00000	96.04700	69.3420			607	284488.659	4821120.077	35.015
L		632			632		608	Nueva LINEA		
M		2.0000					609	Altura Mira		
	2402	126.27200	102.84100	54.8390			610	284535.584	4821167.236	27.566
M		2.1500					611	Altura Mira		
	2403	135.15700	103.09100	50.2690			612	284528.145	4821162.868	27.422
	2404	142.97100	102.88300	45.8260			613	284521.139	4821160.602	27.788
	2405	162.37100	102.41200	43.9370			614	284509.866	4821152.752	28.198
	2406	172.53700	102.43700	46.2070			615	284504.706	4821147.265	28.094
	2407	181.86300	102.17700	41.1090			616	284496.946	4821149.779	28.457
	2408	191.73400	102.09700	39.8580			617	284490.557	4821149.707	28.549
	2409	207.52200	102.20100	38.9260			618	284480.813	4821150.577	28.517
	2410	223.60800	102.22800	38.0530			619	284471.618	4821153.763	28.531
	2411	243.68800	101.94300	41.7520			620	284458.956	4821156.923	28.588
	2412	260.65800	101.38200	46.7230			621	284447.327	4821162.143	28.848
L		42			42		622	Nueva LINEA		
	2413	299.18900	98.34600	52.5030			623	284432.918	4821188.539	31.226
M		1.3000					624	Altura Mira		
	2414	269.83100	101.10500	54.3000			625	284437.091	4821164.432	29.770
B	30503	284401.598	4821139.275	30.439			626	BASE (coord de FICHERO DE BASES)		
L		6			6		627	Nueva LINEA		
H		1.5390	1.3000				628	Altura Aparato y Mira		
O	30004	127.40400	91.07700	218.1230			629	284597.876	4821049.149	61.157
L		40			40		630	Nueva LINEA		
	2415	66.73300	101.27100	44.4770			631	284440.131	4821161.469	29.790
	2416	64.31200	101.28300	46.1740			632	284440.697	4821163.820	29.748
L		40			40		633	Nueva LINEA		
	2417	61.42700	101.31700	41.2890			634	284435.530	4821162.784	29.824
	2418	51.12700	101.52400	35.0710			635	284426.825	4821163.624	29.839
M		2.1500					636	Altura Mira		
	2419	23.44100	100.40400	21.6050			637	284409.374	4821159.431	29.691
	2420	2.39300	99.71700	18.2290			638	284402.283	4821157.491	29.909
	2421	365.32500	98.71400	19.5720			639	284391.459	4821156.011	30.223
	2422	351.36500	98.98700	23.4890			640	284385.351	4821156.234	30.202
	2423	338.35800	99.36800	29.7870			641	284377.058	4821156.155	30.124
	2424	323.97300	98.83000	38.5420			642	284365.763	4821153.445	30.536
L		42			42		643	Nueva LINEA		
M		1.3000					644	Altura Mira		
	2425	51.84500	101.41400	34.3970			645	284426.609	4821162.876	29.914
	2426	85.07400	100.20600	26.9550			646	284427.815	4821145.537	30.591
	2427	135.76000	97.40000	37.6900			647	284433.470	4821119.217	32.217
L		4			4		648	Nueva LINEA		
	2428	101.01000	99.18100	66.1050			649	284467.689	4821138.227	31.529
	2429	115.13800	96.83000	71.0350			650	284470.548	4821122.564	34.214
L		4			4		651	Nueva LINEA		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		2430	123.13300	96.77300	54.5340						
		2431	101.00800	98.96200	48.0320			652	284452.505	4821119.917	
		2432	84.09700	100.45600	47.8820			653	284449.617	4821138.515	33.441
L			85			85		654	284447.992	4821151.112	31.461
		2433	65.34700	102.54100	45.5160			655	Nueva LINEA		30.335
M			2.1500					656	284440.505	4821162.826	28.862
L		2434	59.83400	101.68100	41.4180			657	Altura Mira		
M			4			4		658	284435.030	4821163.699	28.735
			1.3000					659	Nueva LINEA		
		2435	49.90800	102.70700	12.1490			660	Altura Mira		
L		2436	162.83300	97.84300	24.0420			661	284410.168	4821147.870	30.162
			4			4		662	284414.843	4821119.227	31.492
		2437	251.35300	98.45600	36.4360			663	Nueva LINEA		
L		2438	281.18000	100.16300	31.1650			664	284375.300	4821114.072	31.562
			4			4		665	284371.785	4821130.195	30.598
L		2439	305.78000	100.34700	34.9160			666	Nueva LINEA		
L			710			710		667	284366.826	4821142.441	30.488
L		2440	319.53900	100.97400	23.5100			668	Nueva LINEA		
			4			4		669	284379.189	4821146.377	30.318
L		2441	367.54000	101.76300	13.2810			670	Nueva LINEA		
M			23			23		671	284395.118	4821150.862	30.310
M		2442	53.96200	97.68500	42.3890			672	Nueva LINEA		
			4.0000					673	Altura Mira		
L		2443	48.90500	96.65200	37.7780			674	284433.356	4821167.308	30.369
M			40			40		675	Altura Mira		
			1.3000					676	284427.811	4821166.406	29.964
M		2444	59.41000	101.59400	41.6180			677	Nueva LINEA		
			1.7000					678	Altura Mira		
		2445	56.49700	100.82600	39.9790			679	284435.029	4821164.041	29.636
M		2446	42.66600	101.07500	32.0220			680	Altura Mira		
			4.1900					681	284432.598	4821164.515	29.759
L		2447	21.17400	94.15700	23.4930			682	284421.485	4821164.367	29.737
M		2448	387.21800	92.50700	19.3540			683	Altura Mira		
			4.0000					684	284409.236	4821161.387	29.941
M		2449	352.37400	93.26400	26.1450			685	284397.765	4821158.109	30.061
			4.5000					686	Altura Mira		
L		2450	330.39600	94.71200	38.1910			687	284383.912	4821158.331	30.739
M			632			632		688	Altura Mira		
			5.5000					689	284367.795	4821156.764	30.647
M		2451	329.15200	94.72900	37.8030			690	Nueva LINEA		
			5.3000					691	Altura Mira		
M		2452	345.43800	93.41300	28.2150			692	284367.806	4821155.930	29.604
			4.1900					693	Altura Mira		
L		2453	384.27900	94.61100	18.8580			694	284380.384	4821157.647	29.592
M		2454	21.05900	96.58100	22.5950			695	Altura Mira		
			2.5000					696	284397.005	4821157.495	29.382
M		2455	43.99400	100.89200	31.4420			697	284408.926	4821160.614	29.001
			2.0000					698	Altura Mira		
L		2456	59.14300	101.45300	39.4130			699	284421.635	4821163.501	29.038
M			40			40		700	Altura Mira		
			1.7000					701	284433.161	4821162.862	29.079
		2457	21.82800	92.00200	34.4060			702	Nueva LINEA		
		2458	390.97400	90.46500	30.2570			703	Altura Mira		
		2459	369.26600	91.15600	31.7260			704	284413.074	4821171.423	34.589
L		2460	337.71400	93.75700	43.6030			705	284397.370	4821168.893	34.793
M			91			91		706	284387.012	4821167.104	34.671
			4.1900					707	284365.599	4821163.504	34.547
		2461	345.93100	89.26000	40.6890			708	Nueva LINEA		
		2462	349.99800	88.67000	38.5920			709	Altura Mira		
L		2463	351.88400	89.01400	40.1330			710	284371.481	4821165.768	34.620
			91			91		711	284374.740	4821166.132	34.620
		2464	357.96100	87.60100	35.4900			712	284374.481	4821168.047	34.679
		2465	363.15200	87.06800	33.9120			713	Nueva LINEA		
		2466	364.88000	87.58400	35.6080			714	284380.240	4821166.774	34.657
B		30004	284597.876	4821049.149	61.157			715	284383.429	4821167.079	34.630
L			6			6		716	284383.289	4821169.026	34.689
H			1.5970	1.3000				717	BASE (coord de FICHERO DE BASES)		
O		30005	218.71500	98.32900	796.6140			718	Nueva LINEA		
L			23			23		719	Altura Aparato y Mira		
M			2.1500					720	284367.128	4820286.959	82.380
		2467	27.07600	103.27300	545.6050			721	Nueva LINEA		
								722	Altura Mira		
								723	284822.693	4821545.487	32.585



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
2468			26.59000	103.25900	542.5770						
2469			26.16300	103.20700	539.9340			724	284817.674	4821544.430	32.860
2470			25.33300	103.17800	536.6870			725	284813.301	4821543.494	33.435
2471			23.61000	103.21900	525.5800			726	284805.586	4821543.283	33.843
2472			22.23400	103.27300	518.6940			727	284788.111	4821538.368	34.058
	L		100					728	284775.133	4821535.882	33.966
2473			21.89800	103.28900	519.6470		100	729	Nueva LINEA		
	L		23					730	284772.880	4821537.700	33.787
2474			21.86800	103.30300	516.3330		23	731	Nueva LINEA		
2475			19.59500	103.14800	508.0020			732	284771.533	4821534.661	33.844
2476			16.67500	103.12900	495.6330			733	284751.590	4821532.681	35.511
2477			14.20900	103.12100	484.3770			734	284726.061	4821527.295	36.269
2478			11.62300	102.98400	477.6950			735	284704.960	4821520.940	36.883
2479			9.75400	102.98400	471.0070			736	284684.510	4821518.385	38.236
2480			6.53600	102.92200	462.5830			737	284669.679	4821514.124	38.549
2481			3.61300	102.86600	457.0940			738	284645.233	4821508.808	39.394
2482			1.52100	102.84700	452.2120			739	284623.776	4821505.041	40.047
2483			399.01000	102.73700	449.5480			740	284608.667	4821500.776	40.401
2484			396.55700	102.69300	444.5980			741	284590.891	4821498.224	41.296
2485			393.25700	102.52900	441.7550			742	284573.863	4821492.696	41.815
2486			390.14700	102.39300	439.7730			743	284551.209	4821488.078	43.073
2487			388.10500	102.26300	440.4090			744	284530.131	4821483.355	44.090
	M		1.3000					745	284516.116	4821481.615	44.965
2488			386.50900	102.46500	438.9730			746	Altura Mira		
	M		2.1500					747	284505.614	4821477.977	44.474
2489			382.54100	102.13500	444.2410			748	Altura Mira		
	M		1.3000					749	284477.634	4821476.544	45.721
2490			379.79800	102.39300	444.1920			750	Altura Mira		
	M		2.1500					751	284459.371	4821470.861	44.774
2491			376.65700	102.13300	449.4580			752	Altura Mira		
	L		100				100	753	284436.832	4821468.490	45.561
	M		1.3000					754	Nueva LINEA		
2492			376.63800	102.18400	452.4750			755	Altura Mira		
	L		23				23	756	284435.629	4821471.245	45.948
	M		2.1500					757	Nueva LINEA		
2493			376.51100	102.11300	449.8940			758	Altura Mira		
	M		1.3000					759	284435.711	4821468.531	45.688
2494			373.32400	102.31000	451.2430			760	Altura Mira		
	M		2.1500					761	284414.400	4821461.078	45.097
2495			371.65300	102.09400	455.3160			762	Altura Mira		
2496			368.95800	102.04900	460.9620			763	284401.876	4821459.842	45.644
2497			366.89400	101.94200	468.4420			764	284382.022	4821456.174	45.784
2498			364.37000	102.04300	476.2410			765	284365.214	4821455.472	46.331
2499			362.87100	101.95700	482.9270			766	284345.166	4821452.517	45.338
	M		1.3000					767	284332.047	4821452.050	45.776
2500			360.51100	102.20700	487.9380			768	Altura Mira		
	M		3.1500					769	284314.423	4821445.946	44.557
2501			359.11000	101.66800	500.5620			770	Altura Mira		
	M		2.1500					771	284298.125	4821449.818	46.507
2502			356.25800	101.83700	513.1730			772	Altura Mira		
	M		1.3000					773	284272.509	4821445.709	45.816
2503			354.00600	101.88400	527.2240			774	Altura Mira		
2504			352.10000	101.76100	543.1030			775	284249.408	4821444.481	45.872
2505			350.26400	101.69800	558.4270			776	284226.863	4821445.482	46.452
	M		3.1500					777	284204.791	4821445.505	46.582
2506			348.03200	101.34100	580.9100			778	Altura Mira		
	L		40				40	779	284174.707	4821446.929	47.391
	M		2.1500					780	Nueva LINEA		
2507			377.19200	102.36800	440.1920			781	Altura Mira		
2508			379.39200	102.38500	437.9240			782	284443.629	4821461.102	44.247
	M		1.3000					783	284458.676	4821464.033	44.214
2509			381.46600	102.50200	435.8600			784	Altura Mira		
2510			383.87000	102.50200	433.6080			785	284472.865	4821466.342	44.341
	L		23				23	786	284489.268	4821468.585	44.429
2511			377.33500	102.56000	437.9310			787	Nueva LINEA		
2512			380.20600	102.61000	435.8080			788	284445.360	4821459.282	43.861
2513			382.24300	102.58100	434.2050			789	284464.658	4821463.708	43.604
2514			383.35400	102.58100	433.0490			790	284478.427	4821466.226	43.868
2515			383.93900	102.66900	430.6730			791	284486.022	4821467.131	43.914
	L		40				40	792	284490.467	4821465.819	43.416
2516			384.76300	102.52900	433.8060			793	Nueva LINEA		
2517			387.07800	102.57700	433.5900			794	284495.117	4821470.253	44.238
2518			389.77800	102.63700	433.6890			795	284510.541	4821473.486	43.920
								796	284528.598	4821476.888	43.507

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		2519	391.97500	102.69800	434.7960						
	L							797	284543.261	4821480.104	43.045
	M		2.1500			23		798	Nueva LINEA		
	M	2520	384.75500	102.52900	431.3160			799	Altura Mira		
	M		1.3000					800	284495.654	4821467.823	43.487
	M	2521	387.58800	102.64500	432.6030			801	Altura Mira		
	M	2522	389.75900	102.70400	432.6150			802	284514.138	4821473.186	43.498
	M		2.1500					803	284528.645	4821475.790	43.097
	L	2523	391.94300	102.63100	432.6010			804	Altura Mira		
	L		40			40		805	284543.318	4821477.920	42.743
	M	2524	392.99700	102.65200	435.6980			806	Nueva LINEA		
	M		1.3000					807	284550.085	4821481.834	42.472
	M	2525	395.37500	102.90600	437.3710			808	Altura Mira		
	M	2526	398.27500	102.99400	440.3830			809	284566.161	4821484.908	41.509
	M	2527	2.32500	103.06500	446.2670			810	284585.957	4821488.880	40.763
	M	2528	6.11600	103.12500	453.3580			811	284614.150	4821494.598	39.990
	M	2529	10.45800	103.25300	464.0700			812	284641.309	4821499.869	39.222
	M	2530	13.53300	103.30600	473.3330			813	284673.667	4821506.370	37.765
	M	2531	14.93200	103.36900	476.7120			814	284697.602	4821511.201	36.899
	M	2532	15.54900	103.45200	477.2220			815	284708.510	4821512.156	36.253
	L		23			23		816	284713.107	4821511.524	35.605
	M		2.1500					817	Nueva LINEA		
	M	2533	393.07300	102.74500	434.7770			818	Altura Mira		
	M		1.3000					819	284550.705	4821480.949	41.875
	M	2534	396.03300	103.04200	436.4770			820	Altura Mira		
	M	2535	398.58700	103.11000	439.3690			821	284570.725	4821484.278	40.618
	M	2536	1.08500	103.15700	442.6870			822	284588.135	4821487.882	40.011
	M	2537	4.07700	103.20100	447.7840			823	284605.410	4821491.224	39.523
	M	2538	6.43400	103.22400	452.9850			824	284626.495	4821495.447	38.962
	M	2539	8.96200	103.27800	459.1500			825	284643.519	4821499.241	38.537
	M	2540	11.56200	103.36500	465.6510			826	284662.212	4821503.151	37.836
	M	2541	14.04900	103.41300	473.5580			827	284681.862	4821506.499	36.867
	M	2542	15.13000	103.48000	475.3210			828	284701.384	4821510.555	36.093
	L		4			4		829	284709.612	4821510.416	35.499
	M	2543	18.90800	103.35900	491.9030			830	Nueva LINEA		
	M	2544	21.30000	103.35600	501.8220			831	284741.633	4821518.857	35.528
	M	2545	22.92000	103.57000	507.5610			832	284762.429	4821522.483	35.029
	M	2546	23.74200	103.42700	515.9230			833	284776.406	4821523.419	33.023
	M	2547	25.25700	103.32600	529.5180			834	284785.579	4821528.909	33.712
	L		40			40		835	284802.205	4821536.868	33.820
	M		2.1500					836	Nueva LINEA		
	M	2548	24.13700	103.50600	505.1030			837	Altura Mira		
	M		1.3000					838	284784.541	4821517.666	32.818
	M	2549	25.18800	103.54200	515.2230			839	Altura Mira		
	M	2550	25.92700	103.46500	522.6990			840	284796.138	4821523.830	32.820
	M	2551	26.40500	103.39800	530.4750			841	284804.605	4821528.382	33.036
	M		2.1500					842	284811.339	4821533.950	33.171
	L	2552	26.58200	103.33200	532.4070			843	Altura Mira		
	M		23			23		844	284813.480	4821535.145	32.770
	M		1.3000					845	Nueva LINEA		
	M	2553	27.26300	103.51300	538.3330			846	Altura Mira		
	M	2554	26.84800	103.61000	528.5510			847	284821.090	4821538.120	31.782
	M	2555	26.34100	103.67400	519.0460			848	284813.881	4821530.612	31.517
	L		4			4		849	284806.212	4821523.601	31.534
	M	2556	26.26700	103.58300	521.6810			850	Nueva LINEA		
	M	2557	25.34800	103.58900	514.4380			851	284806.733	4821526.291	32.126
	M							852	284797.018	4821522.588	32.485
B		30501	284831.063	4821544.074	32.008			853	BASE (coord de FICHERO DE BASES)		
L			6			6		854	Nueva LINEA		
H			1.6450	1.3000				855	Altura Aparato y Mira		
O		30004	156.92600	96.65300	547.8670			856	284597.876	4821049.149	61.157
L			60			60		857	Nueva LINEA		
M		2558	321.40400	102.24800	8.8190			858	284830.028	4821552.827	32.042
M		2559	353.78100	104.32400	5.6970			859	284833.229	4821549.329	31.966
M			0.0000					860	Altura Mira		
M		2560	353.78100	103.99800	5.6940			861	284833.228	4821549.328	33.296
L		2561	321.51400	86.53900	9.0050			862	284830.044	4821552.819	35.543
L			60			60		863	Nueva LINEA		
M			1.3000					864	Altura Mira		
M		2562	293.96000	102.27600	9.3480			865	284826.190	4821552.044	32.019
M		2563	260.39600	101.95900	7.3390			866	284824.607	4821547.557	32.127
M			0.0000					867	Altura Mira		
M		2564	260.56600	102.87600	7.3330			868	284824.625	4821547.570	33.322



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#	L Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	2565	293.43500	87.15300	9.4780			69	284826.154	4821551.956	
L		60			60		870	Nueva LINEA		35.553
	2566	293.39000	89.96500	9.4010			871	284826.149	4821551.952	
	2567	321.43000	89.51500	8.9250			872	284830.033	4821552.818	35.129
L		60			60		873	Nueva LINEA		35.116
M		1.3000					874	Altura Mira		
	2568	290.43800	79.28300	10.0200			875	284825.670	4821551.888	35.556
	2569	290.63000	77.50100	10.1430			876	284825.681	4821551.922	35.864
	2570	324.93300	76.19800	9.6010			877	284830.507	4821552.994	35.860
	2571	324.93300	77.88000	9.4550			878	284830.510	4821552.947	35.573
L		178			178		879	Nueva LINEA		
	2572	292.55200	102.14600	8.4900			880	284826.478	4821551.214	32.067
	2573	222.88300	107.51000	3.9730			881	284827.135	4821543.702	31.885
	2574	174.42100	105.39200	6.4710			882	284826.835	4821539.206	31.806
	2575	164.51000	103.64600	10.3210			883	284825.595	4821535.341	31.762
	2576	165.63200	102.74600	16.2700			884	284822.195	4821530.451	31.651
	2577	168.20300	102.42900	22.5060			885	284818.043	4821525.737	31.495
	2578	171.55500	102.11300	33.1550			886	284810.483	4821518.103	31.253
	2579	173.10600	102.01000	43.1070			887	284803.490	4821510.967	30.992
	2580	173.43200	101.93500	50.9750			888	284798.256	4821505.091	30.804
	2581	172.57600	101.81700	59.6670			889	284793.276	4821497.929	30.650
	2582	171.20900	101.74200	65.8440			890	284790.466	4821492.266	30.552
	2583	168.73500	101.91700	72.7560			891	284788.466	4821485.133	30.163
L		178			178		892	Nueva LINEA		
	2584	165.44300	102.09600	71.6440			893	284792.176	4821483.948	29.995
	2585	167.27900	101.97900	66.0350			894	284793.635	4821489.709	30.301
	2586	168.58300	101.97900	58.2620			895	284797.066	4821496.795	30.542
	2587	168.62600	102.09900	51.7870			896	284800.817	4821502.072	30.646
	2588	167.62300	102.23200	44.2750			897	284805.775	4821507.764	30.801
	2589	162.13700	102.40100	30.5240			898	284815.850	4821517.636	31.202
	2590	159.09500	102.40000	25.3460			899	284819.494	4821521.543	31.398
	2591	151.84500	102.76400	17.5960			900	284824.862	4821527.625	31.589
	2592	142.85700	103.04700	11.9110			901	284828.475	4821532.462	31.783
	2593	132.42300	103.89600	7.3590			902	284830.656	4821536.740	31.903
	2594	127.32300	106.46900	3.6960			903	284831.154	4821540.398	31.978
	2595	332.16300	117.39300	1.2490			904	284831.125	4821545.275	32.016
	2596	321.63300	102.29200	7.9790			905	284830.155	4821551.996	32.066
L		4			4		906	Nueva LINEA		
	2597	175.94400	102.51300	38.0880			907	284805.428	4821515.945	30.850
	2598	176.63300	102.11900	48.4030			908	284798.093	4821508.673	30.742
	2599	175.49200	101.90000	60.6940			909	284790.519	4821498.945	30.542
	2600	173.04800	101.69600	66.9170			910	284788.300	4821492.635	30.571
L		4			4		911	Nueva LINEA		
M		2.1500					912	Altura Mira		
M	2601	181.64600	100.23800	63.3140			913	284784.402	4821501.280	31.267
		3.1500					914	Altura Mira		
	2602	188.34200	99.04600	62.3810			915	284780.922	4821506.975	31.438
L		85			85		916	Nueva LINEA		
	2603	197.96000	97.99400	59.3670			917	284778.595	4821516.362	32.374
	2604	192.46500	98.47600	60.9090			918	284779.872	4821511.100	31.961
L		30			30		919	Nueva LINEA		
M		1.3000					920	Altura Mira		
	2605	350.42800	87.75000	6.2140			921	284833.087	4821549.828	33.541
	2606	384.04000	107.37200	5.1440			922	284834.956	4821547.384	31.759
	2607	23.51900	106.40900	5.7090			923	284836.723	4821544.553	31.779
M		2.1500					924	Altura Mira		
	2608	69.72200	99.29700	8.5690			925	284837.929	4821538.948	31.598
	2609	89.69800	104.08300	14.7790			926	284839.581	4821532.034	30.556
	2610	97.74600	105.30800	20.4630			927	284840.647	4821526.075	29.799
M		1.3000					928	Altura Mira		
	2611	105.41900	105.36800	34.4220			929	284843.427	4821512.080	29.454
M		2.1500					930	Altura Mira		
	2612	92.59700	103.75100	39.2280			931	284852.200	4821511.109	29.193
	2613	72.38100	103.74100	44.0290			932	284865.154	4821516.332	28.917
	2614	52.76100	103.53000	54.4030			933	284881.610	4821524.184	28.488
M		3.1500					934	Altura Mira		
	2615	38.11800	102.12200	71.5380			935	284901.812	4821533.752	28.119
	2616	39.53000	102.17700	76.2440			936	284906.201	4821531.404	27.897
	2617	33.57100	102.18800	89.3220			937	284920.091	4821537.523	27.434
M		2.1500					938	Altura Mira		
	2618	28.62800	102.50900	104.7510			939	284935.731	4821544.513	27.376
	2619	24.59400	102.13700	122.2340			940	284952.949	4821552.321	27.402
M		3.5000					941	Altura Mira		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		2620	23.92300	101.58400	125.9020						
		2621	21.47000	101.54600	142.6120			942	284956.542	4821553.894	27.022
M			3.1500					943	284972.664	4821560.665	26.691
		2622	20.09400	101.48000	154.5470			944	Altura Mira		
L			91			91		945	284984.093	4821565.366	26.912
		2623	29.22300	102.24000	131.5100			946	Nueva LINEA		
		2624	25.88000	101.92400	128.3290			947	284962.489	4821543.397	25.878
		2625	26.56700	101.95500	123.2520			948	284959.189	4821550.147	26.626
		2626	25.06100	101.76200	122.1230			949	284954.174	4821548.578	26.720
L			86			86		950	284952.917	4821551.422	27.124
		2627	26.33800	101.86400	115.8610			951	Nueva LINEA		
		2628	28.41200	101.97100	107.0370			952	284946.780	4821548.725	27.112
L			3			3		953	284938.045	4821544.886	27.190
		2629	27.71200	102.18700	127.6850			954	Nueva LINEA		
		2630	26.83900	102.05300	122.6700			955	284958.650	4821546.445	26.119
		2631	28.97300	102.26300	110.5130			956	284953.605	4821548.033	26.549
		2632	31.67200	102.27600	98.7430			957	284941.506	4821543.939	26.576
M			3.5000					958	284929.649	4821539.771	26.974
		2633	36.16400	102.18800	85.5410			959	Altura Mira		
		2634	40.04600	102.01300	76.4890			960	284915.996	4821534.334	27.214
M			3.1500					961	284906.344	4821530.752	27.735
		2635	41.14500	102.11500	70.8380			962	Altura Mira		
		2636	42.99100	102.24100	64.9680			963	284900.555	4821530.535	28.150
M			2.1500					964	284894.405	4821529.815	28.217
		2637	54.31800	103.30800	54.0540			965	Altura Mira		
		2638	66.48400	103.34800	46.6260			966	284880.796	4821523.086	28.696
		2639	81.77800	103.63800	41.8760			967	284869.741	4821518.152	29.052
		2640	94.77400	103.57900	39.5620			968	284859.257	4821513.204	29.111
		2641	105.29100	103.66600	37.6970			969	284851.234	4821510.114	29.280
		2642	120.82500	103.24000	34.7340			970	284844.699	4821508.997	29.333
		2643	131.10500	102.53600	32.2450			971	284835.449	4821509.663	29.736
		2644	140.39500	101.87600	28.7460			972	284829.945	4821511.874	30.219
L			3			3		973	284825.901	4821515.808	30.656
		2645	153.94800	101.56800	34.8030			974	Nueva LINEA		
		2646	137.93000	102.21300	35.3480			975	284817.722	4821511.941	30.646
		2647	123.38900	102.87000	37.5070			976	284826.066	4821509.103	30.275
		2648	112.28600	103.21100	39.5040			977	284834.300	4821506.745	29.813
		2649	94.43500	103.37300	42.9830			978	284841.240	4821505.956	29.511
		2650	74.04100	103.26700	47.3290			979	284853.179	4821507.288	29.227
		2651	61.72300	103.19800	52.8250			980	284866.934	4821513.295	29.075
M			3.1500					981	284876.961	4821518.059	28.851
		2652	47.68100	102.18100	63.9610			982	Altura Mira		
		2653	44.24500	102.25900	68.5210			983	284892.223	4821525.484	28.312
		2654	42.56600	102.27400	76.4200			984	284897.560	4821527.723	28.072
		2655	38.00800	102.33100	86.2330			985	284905.680	4821527.800	27.774
		2656	33.03800	102.31000	99.7670			986	284916.356	4821531.781	27.347
		2657	30.22700	102.14900	111.5310			987	284930.553	4821537.590	26.884
M			2.1500					988	284942.506	4821541.742	26.740
		2658	28.57500	102.59900	121.4120			989	Altura Mira		
		2659	28.51000	102.57100	125.8300			990	284952.372	4821544.684	26.549
		2660	29.84800	102.61400	128.3610			991	284956.788	4821544.835	26.424
		2661	30.57000	102.61000	132.4130			992	284959.301	4821542.154	26.235
		2662	29.00000	102.51400	139.0880			993	284963.318	4821540.594	26.077
		2663	27.64300	102.38600	145.2500			994	284970.042	4821543.845	26.013
L			643			643		995	284976.182	4821546.929	26.062
M			2.2000					996	Nueva LINEA		
		2664	27.79500	102.35600	146.5340			997	Altura Mira		
M			2.1500					998	284977.474	4821546.604	26.033
		2665	31.78100	102.65500	130.0720			999	Altura Mira		
		2666	28.83000	102.55500	125.9470			1000	284960.888	4821538.185	26.081
		2667	29.09800	102.62300	119.3500			1001	284956.908	4821544.203	26.451
		2668	31.65100	102.77700	106.9320			1002	284950.311	4821543.694	26.588
M			3.1500					1003	284937.793	4821539.451	26.841
		2669	38.03000	102.28800	87.8300			1004	Altura Mira		
M			3.5000					1005	284917.934	4821531.523	27.348
		2670	44.82400	102.13300	74.2470			1006	Altura Mira		
L			86			86		1007	284902.957	4821525.700	27.666
M			3.1500					1008	Nueva LINEA		
		2671	44.54700	102.25500	70.9620			1009	Altura Mira		
M			2.1500					1010	284899.848	4821526.814	27.990
		2672	54.56900	103.37800	76.0710			1011	Altura Mira		
L			42			42		1012	284900.933	4821514.263	27.469
M			3.1500					1013	Nueva LINEA		
								1014	Altura Mira		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	M	2673	45.37000	102.39900	68.0050			1015	284896.757	4821526.683	27.941
			2.1500					1016	Altura Mira		
		2674	53.31200	103.16900	60.0840			1017	284886.712	4821521.618	28.514
		2675	68.39300	103.20500	50.4570			1018	284872.064	4821514.776	28.964
		2676	87.62100	103.34300	45.6510			1019	284858.592	4821507.736	29.107
		2677	111.37600	103.06800	46.1730			1020	284843.595	4821499.690	29.279
		2678	137.50000	102.63300	53.1310			1021	284823.910	4821491.473	29.306
		2679	153.62000	101.82000	64.6950			1022	284806.574	4821484.222	29.654
		2680	162.49800	101.48600	75.5380			1023	284793.028	4821478.835	29.740
	L		643			643		1024	Nueva LINEA		
		2681	90.69400	103.85200	56.1240			1025	284862.698	4821497.840	28.109
	L		4			4		1026	Nueva LINEA		
		2682	158.44900	101.72700	55.4140			1027	284806.261	4821494.543	30.000
		2683	142.05400	102.28800	43.6850			1028	284822.103	4821501.347	29.933
	L		780			780		1029	Nueva LINEA		
		2684	99.44600	104.35700	21.3280			1030	284840.559	4821525.032	30.044
	L		780			780		1031	Nueva LINEA		
		2685	33.06200	102.56500	82.9250			1032	284913.743	4821538.655	28.163
	L		4			4		1033	Nueva LINEA		
		2686	19.09300	101.66500	128.9920			1034	284958.485	4821563.850	28.131
		2687	22.07200	101.96400	98.1580			1035	284928.611	4821554.569	28.476
		2688	26.19700	102.18200	68.3800			1036	284899.341	4821546.970	29.160
		2689	30.78100	102.68300	42.1180			1037	284873.125	4821542.828	29.729
	M		3.1500					1038	Altura Mira		
		2690	38.71200	101.20100	24.0630			1039	284854.836	4821540.379	30.049
	L		100			100		1040	Nueva LINEA		
		2691	7.06200	99.99100	26.0520			1041	284855.598	4821552.834	30.507
	L		23			23		1042	Nueva LINEA		
		2692	12.71600	99.68800	23.9860			1043	284854.278	4821550.104	30.621
	M		2.1500					1044	Altura Mira		
		2693	392.06600	98.52200	6.1660			1045	284836.224	4821547.445	31.646
		2694	385.37600	96.39400	5.3590			1046	284835.211	4821547.453	31.806
	L		4			4		1047	Nueva LINEA		
	M		3.1500					1048	Altura Mira		
		2695	74.80500	102.08700	31.8820			1049	284854.995	4821523.035	29.458
		2696	43.51400	102.10200	47.5460			1050	284877.335	4821533.258	28.934
		2697	33.76700	101.79600	66.7960			1051	284897.637	4821538.969	28.619
	B	30053	285190.042	4821555.084	23.559			1052	BASE (coord de FICHERO DE BASES)		
	L		6			6		1053	Nueva LINEA		
			1.6820	1.3000				1054	Altura Aparato y Mira		
	O	30004	254.98900	96.96300	779.7510			1055	284597.876	4821049.149	61.157
	L		4			4		1056	Nueva LINEA		
		2698	288.06100	99.22500	338.1210			1057	284857.875	4821492.049	28.065
		2699	288.73000	99.26800	314.4950			1058	284880.484	4821499.703	27.564
		2700	290.08100	99.26300	280.6650			1059	284912.797	4821511.534	27.195
		2701	290.75100	99.32100	260.7430			1060	284932.062	4821517.338	26.726
		2702	291.12900	99.55600	229.3100			1061	284962.961	4821523.235	25.544
	L		23			23		1062	Nueva LINEA		
	M		2.1500					1063	Altura Mira		
		2703	296.75700	99.23300	206.0020			1064	284984.323	4821544.595	25.576
		2704	293.41900	99.43000	209.8280			1065	284981.343	4821533.433	24.973
	L		40			40		1066	Nueva LINEA		
	M		1.3000					1067	Altura Mira		
		2705	293.50600	99.53900	207.1910			1068	284983.934	4821533.986	25.444
	M		2.1500					1069	Altura Mira		
		2706	297.14200	99.15500	202.1610			1070	284988.103	4821546.012	25.777
	L		6			6		1071	Nueva LINEA		
	M		1.7000					1072	Altura Mira		
	D	30052	293.24700	97.87900	769.7330			1073	284425.065	4821473.632	49.220
	L		4			4		1074	Nueva LINEA		
	M		1.3000					1075	Altura Mira		
		2707	293.37700	99.39600	198.6720			1076	284992.454	4821534.454	25.828
		2708	294.18800	99.29800	177.2440			1077	285013.548	4821538.926	25.897
		2709	297.12300	99.23200	125.8510			1078	285064.329	4821549.399	25.460
		2710	300.40900	99.17700	94.0680			1079	285095.984	4821555.688	25.158
		2711	305.47500	99.01000	71.0730			1080	285119.241	4821561.188	25.047
		2712	312.09400	99.25700	53.3470			1081	285137.658	4821565.157	24.564
	L		92			92		1082	Nueva LINEA		
		2713	315.20800	99.95600	47.8390			1083	285143.562	4821566.404	23.974
	M		2.1500					1084	Altura Mira		
		2714	340.67700	97.09800	25.8240			1085	285169.334	4821570.468	24.268
		2715	354.63300	96.12600	34.8090			1086	285167.325	4821581.373	25.208



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	L			780		780		1159	Nueva LINEA		
	M		2.1500					1160	Altura Mira		
	L	2760	288.28900	99.56700	205.1680			1161	284987.155	4821569.293	27.164
	L	2761	283.37100	99.87400	191.4080	780		1162	Nueva LINEA		
	L		4			4		1163	285003.942	4821557.391	26.147
	L	2762	285.95800	99.67200	189.5220			1164	Nueva LINEA		
	L	2763	286.36100	99.62300	161.0370			1165	285003.929	4821565.358	26.745
	L	2764	286.23800	99.48800	128.6140			1166	285031.504	4821572.585	26.721
	L		4			4		1167	285063.240	4821579.236	26.801
	L	2765	280.03800	100.01600	117.4080			1168	Nueva LINEA		
	L	2766	289.96200	99.22200	115.1930			1169	285077.173	4821570.608	25.737
	L		4			4		1170	285075.101	4821588.735	27.175
	L	2767	291.37000	99.35100	77.9130			1171	Nueva LINEA		
	L	2768	282.52500	99.69000	77.1630			1172	285111.662	4821596.293	26.561
	L		4			4		1173	285114.583	4821585.906	26.142
	L	2769	276.85300	100.27500	63.3380			1174	Nueva LINEA		
	L	2770	288.21000	99.76600	56.4070			1175	285129.660	4821584.297	25.493
	L	2771	305.85600	98.91500	51.0090			1176	285133.414	4821596.435	25.974
	L		630			630		1177	285138.070	4821611.507	26.635
	L	2772	305.54000	99.19200	49.9560			1178	Nueva LINEA		
	L	2773	290.41700	99.87300	54.9120			1179	285139.093	4821611.163	26.400
	L	2774	276.81900	100.49400	62.7630			1180	285134.565	4821598.587	25.876
	L		4			4		1181	285130.210	4821584.471	25.279
	L	2775	276.99300	100.27200	62.2630			1182	Nueva LINEA		
	L	2776	287.17700	99.78600	55.9720			1183	285130.616	4821584.807	25.500
	L	2777	299.44400	99.16800	51.4280			1184	285134.016	4821595.624	25.954
	L	2778	304.15400	98.92200	49.6980			1185	285137.435	4821606.373	26.438
	L	2779	306.77900	98.88200	47.5840			1186	285139.271	4821610.062	26.608
	L		780			780		1187	285141.549	4821611.879	26.602
	M		1.3000					1188	Nueva LINEA		
	L	2780	274.63900	103.34800	15.0830			1189	Altura Mira		
	L		781			781		1190	285174.973	4821600.979	25.823
	L	2781	272.73700	103.77900	10.2630			1191	Nueva LINEA		
	L		4			4		1192	285179.536	4821602.568	26.007
	L	2782	296.78000	100.91400	29.9320			1193	Nueva LINEA		
	L	2783	283.43200	101.60000	30.6940			1194	285158.965	4821605.309	26.186
	L		4			4		1195	285159.205	4821598.926	25.845
	L	2784	317.84300	101.96200	11.3070			1196	Nueva LINEA		
	L		81			81		1197	285177.995	4821609.948	26.268
	L	2785	213.49000	104.56300	18.4120			1198	Nueva LINEA		
	L	2786	258.77200	102.36200	37.2030			1199	285184.994	4821588.868	25.297
	L		81			81		1200	285159.206	4821584.394	25.236
	L	2787	212.67200	103.84000	28.8820			1201	Nueva LINEA		
	L	2788	221.25300	103.53600	27.4530			1202	285183.155	4821578.562	24.875
	L	2789	233.78200	103.30700	27.7800			1203	285179.874	4821580.925	25.092
	L	2790	243.14300	102.82500	32.1950			1204	285174.816	4821582.895	25.174
	L		92			92		1205	285168.690	4821581.766	25.188
	L	2791	263.48900	101.76000	56.1740			1206	Nueva LINEA		
	L		60			60		1207	285141.688	4821576.354	25.063
	M		1.5000					1208	Nueva LINEA		
	L	2792	268.69800	101.87300	38.9170			1209	Altura Mira		
	M		4			4		1210	285154.564	4821588.457	25.271
	M		1.3000					1211	Nueva LINEA		
	L	2793	244.51600	103.77700	17.7570			1212	Altura Mira		
	L	2794	261.99800	102.40000	31.4640			1213	285177.447	4821593.256	25.563
	L		4			4		1214	285162.852	4821589.148	25.430
	L	2795	191.31400	104.44100	26.1340			1215	Nueva LINEA		
	L	2796	189.32100	104.62500	20.8860			1216	285192.402	4821580.994	24.794
	L	2797	185.83600	109.79400	3.1140			1217	285192.334	4821586.284	25.100
	L		4			4		1218	285189.535	4821603.821	26.139
	M	2798	280.96600	100.19600	205.4610			1219	Nueva LINEA		
	M		2.1500					1220	284992.512	4821546.304	25.986
	M	2799	280.43000	100.14900	173.8720			1221	Altura Mira		
	M	2800	279.24900	100.08000	144.3810			1222	285023.136	4821554.211	25.361
	M	2801	277.52000	100.11800	115.7560			1223	285052.078	4821560.589	25.586
	M	2802	274.78100	99.99700	84.9350			1224	285080.243	4821566.791	25.552
	M	2803	275.87500	100.29100	64.8080			1225	285110.499	4821574.049	25.770
	L		30			30		1226	285128.647	4821582.847	25.470
	M		1.3000					1227	Nueva LINEA		
	L	2804	10.02800	100.21700	4.7880			1228	Altura Mira		
	L	2805	187.01100	104.65400	16.4460			1229	285189.607	4821611.551	26.600
	L		60			60		1230	285192.179	4821590.760	25.415
	L							1231	Nueva LINEA		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST, / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M			2.1500								
	L	2806	276.28500	100.60300	58.2010			1232			
								1233	285134.649	4821585.640	25.215
						40		1234			
								1235	285193.363	4821580.340	24.668
		2807	189.26800	102.60100	26.8850			1236	285193.360	4821590.156	25.092
		2808	183.19800	102.48300	17.2770			1237	285192.567	4821602.456	25.531
		2809	155.15300	102.60800	5.7350			1238	285192.013	4821612.157	26.284
		2810	34.01200	94.69300	6.2210			1239	285191.441	4821621.522	26.559
		2811	11.08000	96.61900	14.9470			1240			
	L					32		1241	285196.546	4821595.236	23.441
								1242	285196.812	4821608.022	23.194
		2812	162.69400	110.54500	14.0990			1243	285196.905	4821618.760	22.934
		2813	90.46800	119.69800	8.4470			1244			
		2814	37.76600	112.36300	14.6740			1245	285197.094	4821632.276	22.504
	M							1246			
								1247	285197.083	4821632.029	22.305
		2815	19.92600	102.90500	26.7820			1248			
	L					630		1249	285196.988	4821618.929	22.797
								1250	285196.603	4821595.905	23.295
								1251			
		2816	20.08300	103.40900	26.5540			1252			
	M							1253	285197.355	4821632.090	21.998
								1254			
								1255			
		2817	37.65500	112.78700	14.8840			1256	285197.200	4821591.843	23.501
		2818	160.71000	111.62200	13.6130			1257	285197.572	4821609.559	23.160
	L					85		1258			
								1259	285197.722	4821631.809	22.502
		2819	20.65700	104.12200	26.7150			1260			
	L					32		1261			
								1262	285198.503	4821632.321	22.656
								1263	285198.457	4821619.934	22.935
		2820	167.64600	108.36000	17.2950			1264	285198.134	4821605.095	23.323
		2821	80.62700	117.69300	9.5000			1265			
	M							1266	285197.813	4821588.394	23.570
								1267	285198.521	4821606.494	23.279
								1268	285198.735	4821623.001	22.825
		2822	21.70700	106.97000	26.6730			1269	285198.854	4821632.263	22.587
	L					4		1270			
								1271			
		2823	23.02500	107.23100	27.4400			1272	285198.117	4821631.984	22.759
		2824	40.23600	110.97800	16.4960			1273			
		2825	111.71800	116.12800	9.7490			1274			
	L					176		1275	285205.959	4821589.569	23.826
								1276	285206.400	4821605.868	23.460
		2826	171.19900	106.79600	20.6070			1277	285206.571	4821617.941	23.062
		2827	102.15700	116.02400	9.9850			1278	285206.761	4821635.673	22.456
		2828	34.89800	109.79900	19.1830			1279			
		2829	23.83800	107.37100	27.5190			1280	285207.047	4821635.653	22.527
	L					205		1281	285206.846	4821622.492	22.921
								1282	285206.648	4821605.661	23.486
								1283	285206.350	4821595.367	23.760
	M							1284			
		2830	22.45200	107.92900	27.0220			1285	285207.287	4821596.338	23.663
	L					176		1286	285207.528	4821605.959	23.408
								1287	285207.724	4821619.122	22.976
								1288	285207.798	4821636.045	22.421
								1289			
		2831	150.27800	107.28000	24.4530			1290			
		2832	103.46000	111.31500	17.8510			1291	285208.301	4821635.962	22.022
		2833	64.31800	110.71600	21.2150			1292			
		2834	35.36000	107.76100	34.2100			1293			
	L					4		1294	285208.534	4821635.616	22.250
								1295	285208.482	4821620.579	22.776
		2835	35.83300	107.60000	34.3350			1296	285208.348	4821611.005	23.122
		2836	54.38200	109.78300	24.1420			1297	285207.963	4821595.580	23.529
		2837	104.14900	111.06300	18.1030			1298			
		2838	136.90600	108.64300	21.1050			1299	285207.953	4821594.226	23.693
	L					32		1300	285208.373	4821610.265	23.280
								1301	285208.480	4821621.396	22.892
		2839	132.92300	108.81000	21.4090			1302	285208.553	4821636.065	22.403
		2840	102.94200	110.82000	18.9650			1303			
		2841	63.22200	110.20100	22.8160			1304	285207.351	4821628.540	22.693
		2842	36.61200	107.63200	35.0770						
	L					85					
		2843	37.46200	106.77900	35.2320						
	L					630					
		2844	38.16500	107.92900	35.1480						
		2845	61.07800	110.11300	24.2730						
		2846	86.54100	111.04400	20.2400						
		2847	133.85800	108.80800	22.3830						
	L					32					
		2848	137.11900	108.09100	23.0630						
		2849	88.88400	110.61600	20.0970						
		2850	59.33400	109.62400	24.7260						
		2851	37.73700	107.57200	35.5090						
	L					750					
		2852	44.90800	108.70100	28.7950						



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	L		750			750		1305	Nueva LINEA		
	L	2853	136.13900	108.57400	21.7380			1306	285207.018	4821595.240	23.697
	L		741			741		1307	Nueva LINEA		
	L	2854	48.31600	107.95800	30.3000			1308	285209.544	4821628.635	22.838
	L		760			760		1309	Nueva LINEA		
	L	2855	95.14700	103.02000	22.7950			1310	285211.559	4821608.556	25.535
	L		40			40		1311	Nueva LINEA		
	L	2856	133.82300	104.57000	24.0500			1312	285209.537	4821594.669	24.891
	L	2857	105.30700	103.27400	21.9080			1313	285210.659	4821605.000	25.490
	L	2858	70.84100	103.35600	24.9750			1314	285211.226	4821617.850	25.300
	L	2859	50.95800	102.21300	31.8540			1315	285211.703	4821628.991	25.509
	L	2860	44.23600	101.73100	36.6940			1316	285212.341	4821634.998	25.618
	L	2861	40.36300	101.74200	42.5570			1317	285214.057	4821641.095	25.452
	L		4			4		1318	Nueva LINEA		
	L	2862	50.69400	101.82700	38.6760			1319	285216.489	4821633.859	25.506
	L		92			92		1320	Nueva LINEA		
	L	2863	56.31500	102.18200	33.5990			1321	285214.835	4821628.098	25.465
	L	2864	79.19800	102.97700	27.6140			1322	285214.980	4821615.676	25.325
	L	2865	84.14000	102.59300	36.0610			1323	285223.775	4821615.706	25.148
	L	2866	85.79200	102.79700	35.8700			1324	285223.802	4821614.753	25.041
	L	2867	87.81800	102.92700	42.2110			1325	285230.253	4821614.842	24.676
	L		92			92		1326	Nueva LINEA		
	L	2868	110.76600	102.99500	26.6920			1327	285215.138	4821602.335	25.361
	L	2869	104.80900	102.91200	52.9180			1328	285241.568	4821602.833	24.196
	L		4			4		1329	Nueva LINEA		
	L	2870	97.84000	102.99500	42.6630			1330	285231.447	4821608.268	24.610
	L	2871	96.69100	103.02100	29.5660			1331	285218.349	4821608.356	25.214
	L		86			86		1332	Nueva LINEA		
	L	2872	49.33100	101.74000	44.9770			1333	285220.312	4821638.946	25.387
	L	2873	55.69200	102.22800	41.5570			1334	285220.728	4821633.450	25.162
	L		30			30		1335	Nueva LINEA		
	L	2874	43.11300	98.12400	45.4820			1336	285217.344	4821642.252	27.956
	L	2875	47.10000	99.22100	47.4570			1337	285220.848	4821641.870	27.197
	L	2876	54.53700	101.39900	52.2200			1338	285228.307	4821641.016	25.469
	M		5.3000					1339	Altura Mira		
	L	2877	59.41900	97.39800	55.5800			1340	285233.484	4821639.872	24.887
	L		23			23		1341	Nueva LINEA		
	M		5.7000					1342	Altura Mira		
	M	2878	58.53300	97.44900	52.9110			1343	285230.900	4821638.875	24.336
	M		1.5000					1344	Altura Mira		
	M	2879	55.55400	102.11400	51.5290			1345	285228.307	4821639.927	24.705
	M		2.1500					1346	Altura Mira		
	M	2880	48.99700	100.50700	44.5800			1347	285219.877	4821638.836	25.411
	M		1.3000					1348	Altura Mira		
	L	2881	44.13600	101.95800	40.7740			1349	285214.901	4821638.168	25.362
	M		60			60		1350	Nueva LINEA		
	M		0.0500					1351	Altura Mira		
	M	2882	42.93800	98.70600	45.5070			1352	285217.268	4821642.357	28.791
	M	2883	42.93800	100.57000	45.4190			1353	285217.218	4821642.294	27.459
	M		1.3000					1354	Altura Mira		
	M	2884	39.64000	102.39700	41.8460			1355	285213.243	4821640.790	25.041
	M	2885	33.49300	107.09300	37.0410			1356	285207.341	4821638.655	22.498
	M		0.0000					1357	Altura Mira		
	M	2886	33.53500	100.82200	36.8320			1358	285207.371	4821638.658	27.441
	M	2887	20.43800	100.89000	29.9610			1359	285198.309	4821635.249	27.497
	M		4.1900					1360	Altura Mira		
	M	2888	20.41400	102.24700	29.9440			1361	285198.288	4821635.222	22.669
	M	2889	15.91600	100.72600	28.3840			1362	285195.878	4821634.322	23.402
	M		2.1500					1363	Altura Mira		
	M	2890	399.02500	92.33000	25.0390			1364	285188.475	4821631.676	28.775
	M		1.3000					1365	Altura Mira		
	M	2891	398.98600	92.76800	25.0010			1366	285188.460	4821631.659	29.450
	B	30052	284425.064	4821473.634	49.224			1367	BASE (coord de FICHERO DE BASES)		
	L		6			6		1368	Nueva LINEA		
	H		1.6620	1.3000				1369	Altura Aparato y Mira		
	O	30051	185.52700	99.39000	626.1080			1370	283799.604	4821445.854	55.620
	L		6			6		1371	Nueva LINEA		
	M		1.8000					1372	Altura Mira		
	D	30053	381.60000	102.11500	769.7280			1373	285190.039	4821555.082	23.558
	B	30051	283799.604	4821445.854	55.620			1374	BASE (coord de FICHERO DE BASES)		
	L		6			6		1375	Nueva LINEA		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
H			1.6080	1.3000							
O	30004		129.36200	99.63000	891.4250			1376	Altura Aparato y Mira		
L			6			6		1377	284597.876	4821049.149	61.157
D	30052		97.17500	100.68500	626.1150			1378	Nueva LINEA		
L			6			6		1379	284425.061	4821473.632	49.217
D	30505		312.48100	99.26200	195.4460			1380	Nueva LINEA		
L			91			91		1381	283607.916	4821483.922	58.196
M			4.4000					1382	Nueva LINEA		
M	2892		106.80000	101.57200	372.2000			1383	Altura Mira		
M			2.1500					1384	284169.567	4821406.189	43.647
M	2893		106.73900	102.08500	352.4520			1385	Altura Mira		
M			1.3000					1386	284149.893	4821408.638	43.545
M	2894		107.69500	102.26300	352.3290			1387	Altura Mira		
M			2.5000					1388	284149.139	4821403.401	43.415
L	2895		107.81700	101.95800	372.0310			1389	Altura Mira		
M			92			92		1390	284168.657	4821400.312	43.297
M	2896		107.95300	101.82600	369.6150			1391	Nueva LINEA		
M			1.3000					1392	Altura Mira		
M	2897		107.72700	102.36800	333.0930			1393	284166.185	4821399.822	42.447
L	2898		109.82100	102.59700	332.9640			1394	Altura Mira		
L			91			91		1395	284130.016	4821405.555	43.548
M	2899		109.82800	102.60300	333.1050			1396	284128.338	4821394.738	42.356
M	2900		110.68100	102.68200	333.2590			1397	Nueva LINEA		
L			2.5000					1398	284128.470	4821394.680	42.319
L	2901		110.68600	102.41800	347.6720			1399	284127.890	4821390.256	41.900
M			92			92		1400	Altura Mira		
M	2902		111.52400	102.41000	369.2370			1401	284142.140	4821387.814	41.534
M			1.3000					1402	Nueva LINEA		
M	2903		111.69700	102.74800	333.1390			1403	Altura Mira		
M			2.1500					1404	284162.546	4821379.431	41.262
L	2904		113.77700	102.85600	333.5750			1405	Altura Mira		
L			91			91		1406	284126.829	4821385.048	41.560
L	2905		112.57000	102.63100	333.1480			1407	Altura Mira		
L	2906		112.58700	102.67300	332.1630			1408	284125.069	4821374.303	40.126
L	2907		112.99100	102.73900	332.2100			1409	Nueva LINEA		
L			741			741		1410	284125.998	4821380.560	41.321
L	2908		113.08100	102.73200	332.3820			1411	284125.007	4821380.668	41.143
L			741			741		1412	284124.618	4821378.598	40.797
L	2909		110.43700	102.52300	316.5390			1413	Nueva LINEA		
L			760			760		1414	284124.693	4821378.103	40.826
L	2910		107.84300	102.21600	331.1150			1415	Nueva LINEA		
L			4			4		1416	284111.651	4821394.235	42.543
L	2911		107.76400	102.26200	324.5440			1417	Nueva LINEA		
L	2912		112.79900	102.76000	326.4800			1418	284128.008	4821405.192	43.562
L			86			86		1419	Nueva LINEA		
L	2913		113.12400	102.78800	321.0510			1420	284121.532	4821406.400	43.556
L	2914		110.26500	102.51800	316.0700			1421	284119.206	4821380.722	40.935
L	2915		106.37900	102.21100	310.5550			1422	Nueva LINEA		
L			42			42		1423	284113.554	4821380.203	41.029
M	2916		106.40600	102.18600	315.6900			1424	284111.328	4821395.154	42.586
M	2917		106.57000	102.14000	335.2220			1425	284108.413	4821414.810	44.301
M			3.1500					1426	Nueva LINEA		
M	2918		106.65400	101.95800	347.8840			1427	284113.510	4821414.163	44.247
M			86			86		1428	284132.852	4821411.343	43.819
M	2919		104.78100	102.07300	308.7010			1429	Altura Mira		
M	2920		102.40800	101.91800	306.3890			1430	284145.423	4821409.580	43.388
M			86			86		1431	Nueva LINEA		
M	2921		101.47900	101.65300	311.4040			1432	Altura Mira		
M			2.1500					1433	284107.269	4821422.708	45.034
M	2922		99.06100	101.43300	323.7600			1434	284105.633	4821434.276	45.855
M			30			30		1435	Nueva LINEA		
M	2923		99.33800	101.25000	336.8270			1436	Altura Mira		
M	2924		99.61600	101.24100	343.4630			1437	284110.817	4821438.625	46.000
M			92			92		1438	Altura Mira		
M	2925		102.14800	101.65900	331.6160			1439	284123.244	4821450.631	47.798
M	2926		102.22600	101.69600	325.1990			1440	Nueva LINEA		
M			2.1500					1441	Altura Mira		
M								1442	284136.345	4821449.359	47.472
M								1443	284142.993	4821447.928	47.391
M								1444	Nueva LINEA		
M								1445	Altura Mira		
M								1446	284130.916	4821434.674	46.594
M								1447	284124.486	4821434.492	46.572
M								1448	Altura Mira		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
			2927	101.68000	101.66300	324.9460					
	M			3.1500				1449	284124.324	4821437.286	46.598
			2928	100.08500	101.48800	324.5870		1450	Altura Mira		
	M			2.1500				1451	284124.099	4821445.424	46.499
			2929	100.01000	101.46100	337.9630		1452	Altura Mira		
	L			30				1453	284137.475	4821445.804	47.330
	M			3.1500				1454	Nueva LINEA		
			2930	101.24900	101.58400	315.9630		1455	Altura Mira		
	L			760				1456	284115.406	4821439.660	46.224
	M			2.1500				1457	Nueva LINEA		
			2931	101.02900	101.74600	314.2660		1458	Altura Mira		
	L			741				1459	284113.708	4821440.779	46.466
			2932	102.73200	101.89700	307.4620		1460	Nueva LINEA		
	L			81				1461	284106.644	4821432.672	45.924
			2933	103.22900	101.93000	310.1410		1462	Nueva LINEA		
			2934	106.30100	102.18800	311.5720		1463	284109.201	4821430.140	45.683
	L			81				1464	284109.466	4821415.087	44.378
			2935	105.87400	102.13800	315.1350		1465	Nueva LINEA		
			2936	103.35400	101.91000	314.2210		1466	284113.219	4821416.838	44.503
			2937	103.06000	101.82800	316.7740		1467	284113.245	4821429.317	45.659
	L			86				1468	284115.879	4821430.643	45.990
			2938	103.11500	101.86800	317.4430		1469	Nueva LINEA		
			2939	103.35500	101.84800	326.0600		1470	284116.528	4821430.337	45.771
			2940	102.88200	101.74500	346.1140		1471	284125.072	4821428.689	45.621
	M			1.9500				1472	284145.231	4821430.200	45.600
			2941	101.82400	101.67000	345.7690		1473	Altura Mira		
	M			1.6000				1474	284145.110	4821435.955	46.217
			2942	101.83800	101.67400	345.6830		1475	Altura Mira		
			2943	102.84600	101.67000	345.9430		1476	284145.021	4821435.882	46.547
	M			1.3000				1477	284145.080	4821430.402	46.562
			2944	103.34800	101.82900	326.4710		1478	Altura Mira		
			2945	103.10000	101.99000	317.4800		1479	284125.487	4821428.703	46.557
	L			4				1480	284116.550	4821430.411	46.012
	M			2.1500				1481	Nueva LINEA		
			2946	102.33700	101.76500	319.2520		1482	Altura Mira		
	L			4				1483	284118.516	4821434.144	46.235
	M			1.3000				1484	Nueva LINEA		
			2947	104.70200	102.15000	327.3840		1485	Altura Mira		
			2948	104.47700	102.04000	354.4400		1486	284125.907	4821421.713	44.881
	L			91				1487	284152.984	4821420.965	44.580
	M			2.1500				1488	Nueva LINEA		
			2949	105.87900	101.93600	368.9770		1489	Altura Mira		
	M			1.3000				1490	284166.836	4821411.848	43.868
			2950	104.77500	102.00400	369.3290		1491	Altura Mira		
	L			4				1492	284167.710	4821418.195	44.313
			2951	102.23500	101.79800	360.7390		1493	Nueva LINEA		
	L			3				1494	284159.974	4821433.200	45.750
			2952	113.45500	103.02600	321.2590		1495	Nueva LINEA		
			2953	113.15900	103.05300	316.5970		1496	284113.358	4821378.539	40.670
			2954	110.98600	103.08500	297.5590		1497	284109.104	4821380.956	40.758
			2955	108.25300	103.01600	278.5820		1498	284092.397	4821394.822	41.520
	M			4.1900				1499	284075.537	4821409.883	42.740
			2956	106.81600	102.27000	270.5750		1500	Altura Mira		
			2957	105.03300	102.03400	282.3760		1501	284068.457	4821416.961	43.397
	M			2.1500				1502	284080.952	4821423.567	44.023
			2958	103.79200	102.26500	292.1930		1503	Altura Mira		
	M			4.1900				1504	284091.092	4821428.474	44.690
			2959	102.00000	101.51400	305.6190		1505	Altura Mira		
			2960	101.30900	101.42000	310.4470		1506	284104.983	4821436.260	45.777
	L			3				1507	284109.906	4821439.476	46.120
			2961	100.58000	101.42400	308.3670		1508	Nueva LINEA		
			2962	102.38400	101.71300	295.8090		1509	284107.879	4821443.048	46.147
	M			2.1500				1510	284095.096	4821434.786	45.085
			2963	103.71200	102.38600	285.0520		1511	Altura Mira		
	M			4.1900				1512	284083.970	4821429.257	44.402
			2964	105.46100	102.17100	271.0250		1513	Altura Mira		
			2965	106.47500	102.29800	263.0530		1514	284069.474	4821422.650	43.802
	M			2.1500				1515	284061.125	4821419.165	43.549
			2966	108.02300	103.00100	254.8690		1516	Altura Mira		
	M			1.3000				1517	284052.169	4821413.857	43.072
			2967	110.39000	103.50500	243.4970		1518	Altura Mira		
			2968	112.43000	103.65900	236.2710		1519	284039.500	4821406.352	42.533
	L			3				1520	284031.002	4821400.093	42.359
								1521	Nueva LINEA		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		2969	113.33600	103.65600	239.2180						
		2970	111.05700	103.47400	247.0340			1522	284033.205	4821396.192	42.201
		2971	109.16300	103.24800	256.2850			1523	284042.558	4821403.230	42.458
		2972	108.00200	103.08800	263.4320			1524	284052.907	4821409.144	42.862
		2973	108.09300	103.03500	270.5660			1525	284060.649	4821412.870	43.159
M			2.1500					1526	284067.680	4821411.593	43.039
		2974	108.79100	102.85500	277.2300			1527	Altura Mira		
M			1.3000					1528	284073.917	4821407.734	42.654
		2975	110.87400	103.08400	291.8230			1529	Altura Mira		
		2976	113.77400	103.05900	314.7740			1530	284086.841	4821396.311	41.802
L			781			781		1531	284106.682	4821378.360	40.815
M			4.1900					1532	Nueva LINEA		
		2977	106.80700	102.27300	268.8580			1533	Altura Mira		
L			781			781		1534	284066.754	4821417.182	43.445
M			1.3000					1535	Nueva LINEA		
		2978	113.46600	103.66400	238.3120			1536	Altura Mira		
L			23			23		1537	284032.217	4821395.906	42.223
M			4.1900					1538	Nueva LINEA		
		2979	113.50500	102.63300	309.6950			1539	Altura Mira		
M			2.1500					1540	284102.096	4821380.707	40.239
		2980	111.16800	103.03100	291.0250			1541	Altura Mira		
M			4.1900					1542	284085.836	4821395.122	41.233
		2981	108.62500	102.46500	271.1330			1543	Altura Mira		
M			2.1500					1544	284068.049	4821409.263	42.547
		2982	108.36500	103.01800	265.8190			1545	Altura Mira		
M			4.1900					1546	284062.834	4821411.068	42.486
		2983	109.45900	102.75500	257.0760			1547	Altura Mira		
M			2.1500					1548	284053.608	4821407.836	41.921
		2984	114.01800	103.59400	239.0030			1549	Altura Mira		
L			4			4		1550	284032.463	4821393.737	41.596
		2985	114.58900	103.48600	257.8190			1551	Nueva LINEA		
		2986	114.26500	103.24600	291.5440			1552	284050.305	4821387.378	40.972
L			4			4		1553	284083.488	4821381.159	40.225
		2987	112.31200	103.09100	292.4900			1554	Nueva LINEA		
		2988	111.30700	103.32600	261.6500			1555	284086.301	4821389.709	40.888
L			4			4		1556	284056.785	4821399.692	41.419
		2989	112.72300	102.81500	319.9440			1557	Nueva LINEA		
		2990	107.76400	102.39500	312.0640			1558	284112.871	4821382.403	40.942
		2991	102.82600	102.00100	306.4660			1559	284109.129	4821407.920	43.347
L			40			40		1560	284105.615	4821432.264	45.453
		2992	102.47000	101.95900	306.0300			1561	Nueva LINEA		
		2993	104.52900	102.31000	289.6380			1562	284105.257	4821433.992	45.669
M			3.1500					1563	284088.317	4821425.282	44.576
		2994	106.93100	102.49000	273.3390			1564	Altura Mira		
M			2.1500					1565	284071.115	4821416.179	43.395
		2995	108.63700	102.75200	283.5180			1566	Altura Mira		
		2996	111.19800	102.81600	302.3980			1567	284080.252	4821407.546	42.831
		2997	113.01000	102.84100	317.6640			1568	284097.043	4821392.992	41.712
L			91			91		1569	284110.346	4821381.454	40.913
		2998	112.10700	102.83600	311.7250			1570	Nueva LINEA		
		2999	111.57700	102.81400	307.6970			1571	284105.403	4821386.990	41.202
		3000	110.99300	102.78300	309.2930			1572	284101.930	4821390.264	41.488
L			4			4		1573	284104.004	4821392.765	41.568
		3001	107.31200	102.44600	302.4950			1574	Nueva LINEA		
M			1.3000					1575	284099.882	4821411.215	43.465
		3002	108.08200	102.87500	286.3880			1576	Altura Mira		
L			780			780		1577	284083.396	4821409.634	43.004
M			4.1900					1578	Nueva LINEA		
		3003	106.42000	102.18300	274.9320			1579	Altura Mira		
L			40			40		1580	284072.977	4821418.194	43.617
		3004	104.98100	102.11100	267.6770			1581	Nueva LINEA		
		3005	105.34500	102.12400	271.4150			1582	284066.313	4821424.946	44.168
		3006	103.50700	101.82900	284.5850			1583	284069.911	4821423.108	43.989
		3007	101.92800	101.54700	297.5090			1584	284083.638	4821430.194	44.868
		3008	100.04100	101.32500	309.8730			1585	284096.886	4821436.851	45.815
		3009	99.37900	101.24400	313.4220			1586	284109.407	4821445.657	46.595
L			741			741		1587	284112.949	4821448.913	46.920
		3010	99.52600	101.23800	310.9390			1588	Nueva LINEA		
L			741			741		1589	284110.473	4821448.171	46.998
		3011	105.77400	102.10700	261.6470			1590	Nueva LINEA		
L			743			743		1591	284060.031	4821422.171	44.384
M			2.1500					1592	Nueva LINEA		
		3012	103.84600	102.30600	273.0350			1593	Altura Mira		
								1594	284071.960	4821429.383	45.195

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	L		760								
	M		4.1900			760					
		3013	105.40700	102.08300	258.7200			1595	Nueva LINEA		
	L		742			742		1596	Altura Mira		
	M		2.0000					1597	284057.252	4821423.921	44.579
		3014	101.26000	101.73500	293.9460			1598	Nueva LINEA		
	L		4			4		1599	Altura Mira		
	M		4.1900					1600	284093.381	4821440.041	47.224
		3015	100.66700	101.35100	290.5710			1601	Nueva LINEA		
	M		2.1500					1602	Altura Mira		
		3016	101.43200	102.05400	272.4280			1603	284090.091	4821442.813	46.878
	M		4.1900					1604	Altura Mira		
		3017	102.01900	101.86300	256.9110			1605	284071.819	4821439.732	46.295
	M		4.1900					1606	Altura Mira		
		3018	101.53300	101.79400	245.2050			1607	284056.274	4821437.713	45.525
	L		40			40		1608	284044.639	4821439.955	46.133
	M		2.1500					1609	Nueva LINEA		
		3019	99.33700	102.14300	228.0690			1610	Altura Mira		
	M		4.1900					1611	284027.530	4821448.230	47.406
		3020	100.56700	101.68600	235.2640			1612	Altura Mira		
		3021	102.54300	101.81600	245.1540			1613	284034.774	4821443.761	46.812
		3022	105.17000	102.07200	258.2950			1614	284044.461	4821436.070	46.050
		3023	106.13100	102.24100	261.7890			1615	284056.910	4821424.914	44.637
	L		86			86		1616	284060.017	4821420.699	43.829
		3024	105.65300	102.28700	257.7980			1617	Nueva LINEA		
	M		5.1900					1618	284056.219	4821423.010	43.783
		3025	106.15100	102.10800	255.0770			1619	Altura Mira		
	L		86			86		1620	284053.350	4821421.263	43.598
	M		4.1900					1621	Nueva LINEA		
		3026	107.12400	102.36900	252.5200			1622	Altura Mira		
		3027	107.89700	102.48400	254.0250			1623	284050.369	4821417.677	43.648
	L		23			23		1624	284051.484	4821414.450	43.133
		3028	105.97600	102.28600	259.3660			1625	Nueva LINEA		
		3029	105.58700	102.27600	257.8180			1626	284057.660	4821421.561	43.731
		3030	104.26900	102.27500	248.3350			1627	284056.264	4821423.274	43.827
		3031	102.23700	102.40600	235.1480			1628	284047.221	4821429.227	44.170
		3032	100.92700	102.51000	224.7330			1629	284034.437	4821437.601	44.157
	L		91			91		1630	284024.137	4821442.586	44.183
		3033	102.46000	102.55400	222.2950			1631	Nueva LINEA		
	L		92			92		1632	284021.553	4821437.275	44.126
	M		5.1900					1633	Nueva LINEA		
		3034	104.90900	102.18500	242.3630			1634	Altura Mira		
	M		1.3000					1635	284041.103	4821427.197	43.725
		3035	107.51800	103.13700	238.6780			1636	Altura Mira		
	M		5.1900					1637	284036.330	4821417.770	44.175
		3036	104.30400	102.42300	210.4670			1638	Altura Mira		
	L		91			91		1639	284009.437	4821431.648	44.032
	M		4.1900					1640	Nueva LINEA		
		3037	103.21400	102.61900	211.8860			1641	Altura Mira		
		3038	103.06800	102.66900	210.9530			1642	284011.039	4821435.172	44.327
		3039	101.38700	102.54000	213.2280			1643	284010.125	4821435.703	44.199
	M		3.0000					1644	284012.610	4821441.214	44.536
		3040	101.56800	102.88500	214.8480			1645	Altura Mira		
	L		23			23		1646	284014.165	4821440.570	44.498
	M		4.1900					1647	Nueva LINEA		
		3041	99.59100	102.80400	215.9680			1648	Altura Mira		
	L		40			40		1649	284015.356	4821447.242	43.532
	M		1.3000					1650	Nueva LINEA		
		3042	99.47800	102.89100	215.4020			1651	Altura Mira		
		3043	101.62400	103.22100	211.8430			1652	284014.775	4821447.620	46.153
		3044	102.95000	103.50300	210.5160			1653	284011.105	4821440.459	45.217
								1654	284009.574	4821436.119	44.353
	B	30051	283799.604	4821445.854	55.620			1655	BASE (coord de FICHERO DE BASES)		
	L		6			6		1656	Nueva LINEA		
	H		1.6370	1.3000				1657	Altura Aparato y Mira		
	O	30004	129.36200	99.63200	891.4260			1658	284597.876	4821049.149	61.157
	L		42			42		1659	Nueva LINEA		
	M		2.1500					1660	Altura Mira		
		3045	108.06400	103.04400	253.0010			1661	284050.290	4821413.931	43.019
		3046	110.29100	103.36500	242.8850			1662	284038.986	4821406.819	42.279
		3047	112.76700	103.56200	232.7930			1663	284027.373	4821399.556	42.092
	L		4			4		1664	Nueva LINEA		
		3048	110.91200	103.67600	222.0390			1665	284018.023	4821408.047	42.296
		3049	110.81300	103.98500	200.9620			1666	283997.285	4821411.953	42.538

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
			3050	110.68700	104.13700	188.3440					
	L			4				1667	283984.907	4821414.453	42.879
			3051	102.91600	103.27000	203.7720	4	1668	Nueva LINEA		
			3052	103.00100	103.65800	181.8590		1669	284002.892	4821436.538	44.648
	L			760			760	1670	283980.960	4821437.300	44.665
			3053	109.59100	103.87000	201.5180		1671	Nueva LINEA		
	L			741			741	1672	283998.470	4821415.667	42.867
			3054	112.46200	103.54100	233.3080		1673	Nueva LINEA		
	L			86			86	1674	284028.101	4821400.547	42.140
	M			3.1500				1675	Nueva LINEA		
			3055	112.04700	104.01700	177.8300		1676	Altura Mira		
	M			2.1500				1677	283973.911	4821412.471	42.896
			3056	109.01100	104.22200	173.8940		1678	Altura Mira		
			3057	98.43300	103.11100	166.3350		1679	283971.379	4821421.378	43.585
	L			86			86	1680	283965.689	4821449.944	46.984
	M			3.1500				1681	Nueva LINEA		
			3058	103.20300	103.75800	166.3830		1682	Altura Mira		
	M			2.1500				1683	283965.486	4821437.502	44.293
			3059	103.15800	103.76500	166.4770		1684	Altura Mira		
	M			3.1500				1685	283965.584	4821437.615	45.269
			3060	103.18600	103.66900	155.1460		1686	Altura Mira		
			3061	103.20600	103.86400	144.9390		1687	283954.297	4821438.107	45.172
			3062	103.69300	103.96000	139.5500		1688	283944.092	4821438.573	45.317
	M			5.1500				1689	283938.649	4821437.780	45.433
			3063	103.78900	103.70200	139.5730		1690	Altura Mira		
	M			3.1500				1691	283938.693	4821437.567	43.997
			3064	103.17700	104.18000	149.3780		1692	Altura Mira		
			3065	103.29100	103.93600	159.9740		1693	283948.473	4821438.420	44.307
	L			91			91	1694	283959.058	4821437.605	44.224
	M			4.3000				1695	Nueva LINEA		
			3066	103.77100	103.83400	145.0830		1696	Altura Mira		
	M			3.6000				1697	283944.169	4821437.282	44.226
			3067	106.34900	104.21700	146.6830		1698	Altura Mira		
	M			4.1900				1699	283945.237	4821431.283	43.949
			3068	110.21000	104.52500	126.0400		1700	Altura Mira		
			3069	107.08700	104.44400	123.5680		1701	283923.712	4821425.779	44.117
	L			86			86	1702	283922.107	4821432.161	44.449
	M			5.8000				1703	Nueva LINEA		
			3070	114.64300	103.66000	128.1130		1704	Altura Mira		
	L			-4			4	1705	283924.136	4821416.695	44.097
	M			4.1900				1706	Nueva LINEA		
			3071	110.80200	103.83900	162.4680		1707	Altura Mira		
	M			6.0000				1708	283959.447	4821418.470	43.277
			3072	115.04500	103.43800	137.7410		1709	Altura Mira		
	L			92			92	1710	283933.320	4821413.653	43.823
	M			4.1900				1711	Nueva LINEA		
			3073	110.63100	104.69100	117.1430		1712	Altura Mira		
	M			5.5000				1713	283914.803	4821426.437	44.444
			3074	116.20800	103.80500	123.5910		1714	Altura Mira		
	M			4.1900				1715	283918.997	4821414.784	44.376
			3075	126.70700	104.88900	102.0200		1716	Altura Mira		
	M			5.5000				1717	283892.503	4821404.423	45.241
			3076	121.50300	104.20500	94.6690		1718	Altura Mira		
	L			91			91	1719	283888.729	4821414.552	45.509
	M			6.0000				1720	Nueva LINEA		
			3077	125.37800	104.04400	88.7030		1721	Altura Mira		
			3078	122.85700	104.21000	85.3430		1722	283881.187	4821411.493	45.627
	M			5.5000				1723	283879.330	4821415.933	45.618
			3079	116.74200	104.30000	95.6310		1724	Altura Mira		
	L			23			23	1725	283891.736	4821421.051	45.303
	M			4.1900				1726	Nueva LINEA		
			3080	108.16700	104.80000	118.1340		1727	Altura Mira		
			3081	111.51200	105.21600	106.4850		1728	283916.434	4821430.785	44.169
			3082	115.19200	105.28800	97.7160		1729	283904.001	4821426.768	44.353
	L			40			40	1730	283894.223	4821422.837	44.960
			3083	106.99800	103.71800	121.8200		1731	Nueva LINEA		
			3084	111.40700	104.17400	106.2390		1732	283920.481	4821432.514	45.957
			3085	117.00000	104.25500	93.4340		1733	283903.917	4821426.961	46.107
			3086	126.21800	104.56500	79.0480		1734	283889.525	4821421.255	46.827
			3087	123.52200	105.00200	72.1670		1735	283871.856	4821414.294	47.404
	L			23			23	1736	283866.693	4821419.873	47.403
			3088	124.06600	105.91000	72.2970		1737	Nueva LINEA		
			3089	126.41500	105.59000	78.9580		1738	283866.507	4821419.286	46.365
								1739	283871.583	4821414.148	46.143

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z	
M			6.0000					1740				Altura Mira
		3090	123.63700	104.17600	84.9660			1741	283878.610	4821415.094	45.688	
L			4			4		1742				Nueva LINEA
M			4.1900					1743				Altura Mira
		3091	128.00300	105.43800	87.8810			1744	283878.829	4821408.570	45.570	
L			643			643		1745				Nueva LINEA
		3092	135.56700	105.56900	77.6010			1746	283865.154	4821404.878	46.288	
L			30			30		1747				Nueva LINEA
M			1.3000					1748				Altura Mira
		3093	389.14100	99.74200	12.7030			1749	283797.448	4821458.372	56.008	
M			3.1500					1750				Altura Mira
		3094	368.98100	102.28000	13.9580			1751	283793.073	4821458.180	53.607	
M			4.1500					1752				Altura Mira
		3095	361.38000	102.81700	15.0680			1753	283791.022	4821458.221	52.440	
M			2.1500					1754				Altura Mira
		3096	331.11000	105.13200	25.9670			1755	283776.751	4821458.004	53.016	
M			1.3000					1756				Altura Mira
		3097	320.14800	104.22000	38.3360			1757	283763.252	4821457.759	53.418	
		3098	313.42900	102.43300	55.6360			1758	283745.241	4821457.494	53.831	
		3099	309.87100	101.43300	76.6980			1759	283723.846	4821457.695	54.231	
		3100	307.98700	101.18400	92.2700			1760	283708.076	4821457.397	54.242	
		3101	307.10500	101.24700	102.1770			1761	283698.083	4821457.231	53.956	
L			40			40		1762				Nueva LINEA
		3102	296.78000	101.49600	96.9680			1763	283702.788	4821440.952	53.679	
L			23			23		1764				Nueva LINEA
M			2.1500					1765				Altura Mira
		3103	307.00200	101.27300	102.6550			1766	283697.590	4821457.119	53.055	
		3104	295.99100	101.67200	98.6070			1767	283701.227	4821439.650	52.518	
L			4			4		1768				Nueva LINEA
M			1.3000					1769				Altura Mira
		3105	295.93000	101.67200	82.0490			1770	283717.752	4821440.613	53.803	
		3106	294.13400	102.62300	59.0340			1771	283740.871	4821440.426	53.526	
		3107	289.16100	105.06000	35.5770			1772	283764.652	4821439.845	53.132	
L			23			23		1773				Nueva LINEA
M			3.1500					1774				Altura Mira
		3108	270.82100	103.75100	21.0130			1775	283780.793	4821436.573	52.870	
L			643			643		1776				Nueva LINEA
M			2.1500					1777				Altura Mira
		3109	267.21800	103.19000	20.6560			1778	283781.649	4821435.694	54.072	
L			97			97		1779				Nueva LINEA
M			1.3000					1780				Altura Mira
		3110	128.10800	121.90700	22.5800			1781	283818.822	4821436.771	48.339	
		3111	147.12500	133.89000	14.0360			1782	283808.533	4821437.697	48.833	
M			0.3000					1783				Altura Mira
		3112	166.85900	129.76700	17.7620			1784	283807.490	4821432.099	48.951	
L			23			23		1785				Nueva LINEA
M			1.3000					1786				Altura Mira
		3113	155.72000	133.40200	14.0650			1787	283807.405	4821436.509	48.911	
M			2.5000					1788				Altura Mira
		3114	83.95400	119.68700	18.5900			1789	283816.752	4821450.270	49.099	
L			4			4		1790				Nueva LINEA
M			2.1500					1791				Altura Mira
		3115	94.21300	111.98200	32.1350			1792	283831.041	4821448.720	49.094	
		3116	103.28500	107.28800	57.8610			1793	283857.009	4821442.890	48.498	
		3117	102.09400	105.42700	94.2510			1794	283893.461	4821442.767	47.083	
		3118	99.72200	104.77600	120.3150			1795	283919.578	4821446.379	46.090	
		3119	99.40300	104.04200	149.7540			1796	283949.048	4821447.257	45.607	
L			30			30		1797				Nueva LINEA
M			1.3000					1798				Altura Mira
		3120	41.73400	101.97100	9.9910			1799	283805.691	4821453.770	55.648	
M			4.3000					1800				Altura Mira
		3121	56.98300	108.73400	22.4340			1801	283816.944	4821459.754	49.889	
		3122	60.43600	108.15300	28.1610			1802	283822.312	4821462.116	49.360	
M			1.3000					1803				Altura Mira
		3123	76.15000	110.46700	41.1540			1804	283837.387	4821460.711	49.221	
		3124	87.72500	107.26700	63.7150			1805	283861.731	4821457.984	48.700	
		3125	89.45000	106.94000	69.8050			1806	283868.043	4821457.301	48.363	
M			2.1500					1807				Altura Mira
		3126	90.87100	106.23200	75.5800			1808	283874.049	4821456.604	47.721	
		3127	93.94400	105.39900	93.3600			1809	283892.207	4821454.691	47.199	
		3128	95.43800	104.82900	111.5410			1810	283910.538	4821453.818	46.655	
		3129	97.32200	104.17700	138.6300			1811	283937.812	4821451.673	46.019	
		3130	98.26900	103.62400	159.8410			1812	283959.126	4821450.194	46.015	

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		3131	98.60100	103.24700	177.9010			1813	283977.229	4821449.760	46.039
		3132	98.90700	102.84600	202.1500			1814	284001.521	4821449.323	46.076
		3133	99.53000	102.0080	248.0730			1815	284047.545	4821447.687	47.169
		3134	100.13500	101.7380	290.9920			1816	284090.485	4821445.240	47.288
		3135	99.38200	101.66700	312.5030			1817	284111.983	4821448.889	46.931
		3136	98.93100	101.34200	323.7740			1818	284123.258	4821451.292	48.289
		3137	99.03900	101.44800	324.0130			1819	284123.494	4821450.746	47.745
		3138	99.22900	101.39600	334.9010			1820	284134.397	4821449.912	47.771
L			205			205		1821	Nueva LINEA		
M		3139	99.13000	101.74600	305.4950			1822	Altura Mira		
L			23			23		1823	284104.953	4821450.030	47.586
M			2.1500					1824	Nueva LINEA		
		3140	99.07900	101.36200	334.1190			1825	Altura Mira		
		3141	98.86900	101.33000	323.9340			1826	284133.609	4821450.689	47.967
		3142	99.19300	101.69300	306.6820			1827	284123.414	4821451.610	48.347
		3143	99.09700	101.67200	289.4630			1828	284106.150	4821449.743	46.958
		3144	98.85400	101.86500	267.2440			1829	284088.936	4821449.961	47.511
		3145	98.48500	101.85800	254.3130			1830	284066.688	4821450.665	47.284
		3146	98.20600	102.11100	235.3510			1831	284053.735	4821451.905	47.690
		3147	97.52300	102.34300	210.9280			1832	284034.730	4821452.484	47.308
		3148	97.19200	102.90200	187.7920			1833	284010.228	4821454.055	47.349
		3149	96.49400	103.39800	162.8260			1834	283987.017	4821454.127	46.552
		3150	95.06600	103.91800	139.4290			1835	283961.950	4821454.805	46.422
		3151	92.36700	104.70000	111.6420			1836	283938.350	4821456.630	46.533
		3152	89.69300	104.98400	97.0590			1837	283910.142	4821459.172	46.873
L			205			205		1838	283895.099	4821461.452	47.517
		3153	97.37000	102.56300	201.9770			1839	Nueva LINEA		
L			205			205		1840	284001.243	4821454.191	46.980
		3154	89.60100	104.64900	97.9620			1841	Nueva LINEA		
L			100			100		1842	283896.003	4821461.743	47.960
		3155	87.93900	105.17500	95.7210			1843	Nueva LINEA		
L			23			23		1844	283893.301	4821463.822	47.335
		3156	89.27200	105.30200	93.2310			1845	Nueva LINEA		
		3157	85.57700	106.10200	73.6490			1846	283891.195	4821461.437	47.352
		3158	69.92100	107.91900	46.8850			1847	283871.041	4821462.322	48.059
L			23			23		1848	283841.029	4821467.026	49.290
M			5.1900					1849	Nueva LINEA		
		3159	52.92400	107.54700	24.0410			1850	Altura Mira		
M			8.6000					1851	283817.241	4821461.941	49.224
		3160	37.51200	98.67800	25.1280			1852	Altura Mira		
L			23			23		1853	283813.565	4821466.740	49.179
M			2.1500					1854	Nueva LINEA		
		3161	210.26100	113.89700	30.2090			1855	Altura Mira		
		3162	189.89400	123.21100	15.9130			1856	283794.871	4821416.744	48.565
L			42			42		1857	283801.954	4821431.174	49.433
M			6.0000					1858	Nueva LINEA		
		3163	127.73800	105.56700	43.3460			1859	Altura Mira		
		3164	119.41000	104.47900	64.7690			1860	283838.750	4821427.630	47.472
L			4			4		1861	283861.233	4821426.460	46.704
M			4.1900					1862	Nueva LINEA		
		3165	148.55300	106.43600	63.4430			1863	Altura Mira		
		3166	163.09700	107.49100	48.7980			1864	283845.239	4821402.249	46.664
		3167	187.46500	108.83100	36.9330			1865	283826.148	4821405.310	47.338
L			40			40		1866	283806.760	4821409.983	47.960
M			1.3000					1867	Nueva LINEA		
		3168	231.94100	103.94100	21.5770			1868	Altura Mira		
		3169	219.36500	110.47900	6.3060			1869	283789.247	4821426.973	54.622
		3170	63.63800	106.20500	5.0220			1870	283797.741	4821439.919	54.924
		3171	48.98600	103.23100	9.8420			1871	283803.809	4821448.556	55.468
L			178			178		1872	283806.443	4821452.914	55.458
		3172	42.54400	101.25100	7.2300			1873	Nueva LINEA		
		3173	228.96900	105.54000	6.8930			1874	283804.083	4821451.528	55.815
		3174	233.44600	103.27500	21.6510			1875	283796.586	4821439.686	55.358
L			10			10		1876	283788.760	4821427.148	54.844
		3175	235.60000	103.12300	21.0100			1877	Nueva LINEA		
		3176	239.02600	105.27500	6.6380			1878	283788.472	4821428.066	54.927
		3177	33.14900	98.50000	43.2610			1879	283795.798	4821440.443	55.408
L			10			10		1880	283821.119	4821483.371	56.976
		3178	24.14700	98.54100	42.6860			1881	Nueva LINEA		
		3179	350.72400	102.30000	6.7900			1882	283815.405	4821485.495	56.935
		3180	252.53300	102.37300	22.7450			1883	283794.861	4821450.706	55.712
L			176			176		1884	283782.906	4821430.434	55.109
								1885	Nueva LINEA		



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		3181	254.36300	102.31900	22.9220			1886	283782.336	4821430.804	55.122
		3182	299.85700	102.88000	9.0460			1887	283790.567	4821445.834	55.548
		3183	378.29200	100.95900	10.4710			1888	283796.103	4821455.721	55.799
L			40			40		1889	Nueva LINEA		
		3184	257.86400	102.91700	22.4660			1890	283781.901	4821432.061	54.928
		3185	299.90700	104.23000	10.2180			1891	283789.409	4821445.839	55.279
		3186	382.05900	102.33500	12.5470			1892	283796.117	4821457.898	55.497
L			4			4		1893	Nueva LINEA		
		3187	358.02500	101.89200	7.3160			1894	283795.124	4821451.634	55.740
L			4			4		1895	Nueva LINEA		
		3188	28.28900	105.84400	2.5890			1896	283800.712	4821448.182	55.720
L			166			166		1897	Nueva LINEA		
		3189	40.51400	100.46600	9.6770			1898	283805.355	4821453.636	55.886
		3190	32.05900	100.09000	9.6970			1899	283804.283	4821454.347	55.943
		3191	33.36400	98.62100	34.5020			1900	283816.865	4821475.718	56.704
		3192	33.49100	98.49400	43.1850			1901	283821.282	4821483.189	56.979
L			166			166		1902	Nueva LINEA		
		3193	35.54800	98.33000	43.4780			1903	283822.631	4821482.715	57.098
		3194	36.48400	98.51800	27.2200			1904	283814.359	4821468.719	56.591
		3195	38.78900	98.91900	14.2550			1905	283807.761	4821457.542	56.199
		3196	39.27900	98.98900	12.9040			1906	283807.069	4821456.377	56.162
		3197	40.95700	99.35600	9.6840			1907	283805.413	4821453.602	56.055
L			166			166		1908	Nueva LINEA		
M			1.4000					1909	Altura Mira		
		3198	389.37100	99.54500	12.6130			1910	283797.508	4821458.291	55.947
M			1.3000					1911	Altura Mira		
		3199	395.19200	100.05400	11.7730			1912	283798.716	4821457.593	55.947
		3200	18.15100	98.81600	27.3250			1913	283807.288	4821472.071	56.465
		3201	24.30900	98.51300	44.5140			1914	283816.186	4821487.151	56.997
L			166			166		1915	Nueva LINEA		
		3202	22.24500	98.34400	44.2950			1916	283814.763	4821487.458	57.109
		3203	16.33100	98.51100	29.6570			1917	283807.126	4821474.533	56.651
		3204	1.16100	99.02600	16.4560			1918	283799.904	4821462.305	56.209
		3205	398.16800	99.14200	15.2320			1919	283799.166	4821461.078	56.162
		3206	389.41000	99.49700	12.6190			1920	283797.515	4821458.298	56.057
B		30505	283607.915	4821483.922	58.194			1921	BASE (coord de FICHERO DE BASES)		
L			6			6		1922	Nueva LINEA		
H			1.6510	1.3000				1923	Altura Aparato y Mira		
O		30051	112.48100	100.95300	195.4550			1924	283799.604	4821445.854	55.620
L			23			23		1925	Nueva LINEA		
M			4.1900					1926	Altura Mira		
		3207	105.07000	101.97600	195.7530			1927	283802.952	4821468.358	49.583
L			40			40		1928	Nueva LINEA		
		3208	107.06400	101.61000	185.0380			1929	283791.755	4821463.441	50.978
		3209	107.09600	101.54200	174.6200			1930	283781.399	4821464.506	51.428
		3210	107.89600	100.96600	161.7500			1931	283768.403	4821463.915	53.202
M			1.0000					1932	Altura Mira		
		3211	107.27900	103.24300	143.5980			1933	283750.389	4821467.562	51.535
M			1.5000					1934	Altura Mira		
		3212	108.31100	103.13600	118.7440			1935	283725.505	4821468.484	52.499
M			0.5000					1936	Altura Mira		
		3213	109.78900	104.38400	98.3980			1937	283704.921	4821468.888	52.575
M			1.0000					1938	Altura Mira		
		3214	111.20100	104.11000	86.9000			1939	283693.295	4821468.744	53.239
M			0.0000					1940	Altura Mira		
		3215	114.53300	104.70500	62.3720			1941	283668.503	4821469.846	55.240
		3216	118.44200	105.42500	45.0620			1942	283650.942	4821471.097	56.010
M			1.3000					1943	Altura Mira		
		3217	125.28300	105.21300	31.3220			1944	283636.702	4821471.848	55.983
M			2.1500					1945	Altura Mira		
		3218	137.17000	105.08000	22.4770			1946	283626.609	4821471.571	55.903
		3219	148.30900	106.17600	20.1090			1947	283622.438	4821470.151	55.747
		3220	159.37900	101.63400	21.1430			1948	283620.505	4821466.945	57.152
L			40			40		1949	Nueva LINEA		
M			0.0000					1950	Altura Mira		
		3221	291.68600	106.54600	68.9240			1951	283539.940	4821474.993	52.771
		3222	289.21100	108.41900	53.2780			1952	283555.859	4821475.014	52.820
		3223	279.41900	112.33600	36.7200			1953	283573.749	4821472.475	52.774
		3224	252.10900	126.69200	18.4150			1954	283595.634	4821472.429	52.348
L			30			30		1955	Nueva LINEA		
M			1.3000					1956	Altura Mira		
		3225	164.70400	103.47100	19.4890			1957	283618.160	4821467.377	57.483

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	3226	160.57100	102.44900	34.0610						
	3227	156.55900	102.16700	36.1140			1958	283627.673	4821456.209	57.235
	3228	149.25200	102.44100	39.8630			1959	283630.677	4821455.911	57.316
M		2.1500					1960	283636.411	4821456.089	57.017
	3229	142.66000	102.55300	44.7180			1961	Altura Mira		
	3230	135.03700	102.46100	52.7210			1962	283642.935	4821456.172	55.902
	3231	128.59300	102.85300	63.1290			1963	283652.817	4821456.370	55.658
	3232	125.48300	103.06600	69.6170			1964	283664.726	4821456.540	54.867
L		4			4		1965	283671.954	4821456.826	54.344
	3233	120.63300	102.63000	66.8250			1966	Nueva LINEA		
	3234	129.60500	101.84700	50.3260			1967	283671.206	4821462.660	54.935
	3235	143.30900	101.04400	34.9470			1968	283652.878	4821461.363	56.235
L		40			40		1969	283635.079	4821461.943	57.122
	3236	217.71000	103.87000	16.4520			1970	Nueva LINEA		
	3237	236.89700	105.94200	20.9270			1971	283603.406	4821468.132	56.696
	3238	257.70100	105.54500	27.8620			1972	283596.504	4821466.489	55.745
	3239	268.48000	103.39900	36.9720			1973	283586.064	4821466.807	55.271
M		1.3000					1974	283575.430	4821466.380	55.722
	3240	280.23000	103.92000	49.1680			1975	Altura Mira		
	3241	284.92000	102.88600	60.5810			1976	283561.188	4821468.925	55.520
	3242	288.60200	102.02300	75.0100			1977	283549.087	4821469.720	55.800
	3243	290.45500	101.57200	87.4990			1978	283534.142	4821470.570	56.162
	3244	292.20800	101.49800	97.9840			1979	283521.425	4821470.855	56.385
	3245	293.68000	101.64400	113.6660			1980	283510.692	4821471.962	56.240
	3246	294.85300	101.44800	127.7250			1981	283494.847	4821472.659	55.611
	3247	294.76900	101.52600	141.3530			1982	283480.641	4821473.608	55.641
	3248	295.25400	101.56600	160.0150			1983	283467.081	4821472.322	55.158
	3249	295.72400	101.48600	175.1090			1984	283448.394	4821472.006	54.611
	3250	296.00400	101.43000	182.9970			1985	283433.250	4821472.171	54.460
	3251	296.64000	101.43000	188.5950			1986	283425.326	4821472.444	54.437
	3252	297.26500	101.40500	206.7210			1987	283419.632	4821473.974	54.311
	3253	297.37500	101.35000	217.3730			1988	283401.437	4821475.044	53.986
	3254	298.13200	101.24900	226.3350			1989	283390.778	4821474.962	53.939
	3255	298.65700	101.12400	240.2340			1990	283381.723	4821477.281	54.108
	3256	298.62500	101.13300	245.5440			1991	283367.774	4821478.853	54.308
	3257	299.09400	101.12600	250.0740			1992	283362.469	4821478.618	54.179
	3258	299.12000	101.07900	261.3560			1993	283357.908	4821480.361	54.126
	3259	299.51000	101.21200	274.1420			1994	283346.624	4821480.308	54.120
	3260	299.90100	101.35500	289.9780			1995	283333.833	4821481.810	53.331
	3261	300.31200	101.66100	301.6050			1996	283318.006	4821483.468	52.379
	3262	300.98400	102.10300	313.7960			1997	283306.419	4821485.397	50.683
	3263	301.59400	102.61100	328.5210			1998	283294.330	4821488.766	48.187
	3264	301.77000	102.77200	334.6880			1999	283279.776	4821492.137	45.082
M		3.1500					2000	283273.676	4821493.214	43.984
	3265	301.61900	102.65700	352.2440			2001	Altura Mira		
L		780			780		2002	283256.094	4821492.868	42.006
	3266	299.14300	100.83000	290.9700			2003	Nueva LINEA		
L		742			742		2004	283316.999	4821480.003	52.907
M		2.1500					2005	Nueva LINEA		
	3267	298.44800	100.84000	289.2250			2006	Altura Mira		
L		30			30		2007	283318.804	4821476.870	53.884
	3268	299.52900	101.00000	285.1390			2008	Nueva LINEA		
	3269	299.12700	100.87700	267.8010			2009	283322.821	4821481.810	53.222
	3270	298.53000	100.85300	249.2440			2010	283340.167	4821480.248	54.011
	3271	297.55300	100.98500	224.9590			2011	283358.762	4821478.166	54.360
	3272	296.47600	101.00300	196.9950			2012	283383.151	4821475.276	54.218
	3273	294.85000	101.09000	162.4230			2013	283411.248	4821473.023	54.594
	3274	293.14100	101.00000	136.6310			2014	283446.048	4821470.797	54.916
L		743			743		2015	283472.094	4821469.230	55.550
	3275	293.60600	100.98100	133.6120			2016	Nueva LINEA		
L		742			742		2017	283474.993	4821470.525	55.637
	3276	280.38100	101.47300	71.4770			2018	Nueva LINEA		
L		742			742		2019	283539.824	4821462.247	56.042
M		1.3000					2020	Nueva LINEA		
	3277	291.26900	101.35700	101.3010			2021	Altura Mira		
L		30			30		2022	283507.589	4821470.075	56.387
M		2.1500					2023	Nueva LINEA		
	3278	290.54200	101.05300	110.5520			2024	Altura Mira		
	3279	287.40100	101.04400	91.9260			2025	283498.597	4821467.559	55.867
	3280	282.14500	101.48700	72.0200			2026	283517.796	4821465.850	56.188
	3281	273.50200	101.39600	53.5360			2027	283538.729	4821463.992	56.013
	3282	263.49600	101.61800	42.1870			2028	283558.962	4821462.282	56.521
	3283	250.08400	103.06500	28.2670			2029	283572.487	4821461.043	56.623
							2030	283587.924	4821463.984	56.335



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
			3284	234.94700	105.16600	21.3870					
			3285	219.12800	103.27000	17.8920		2031	283596.792	4821465.737	55.961
M				1.3000				2032	283602.627	4821466.854	56.776
			3286	207.30000	103.26900	15.7440		2033	Altura Mira		
L				23				2034	283606.116	4821468.302	57.737
M				4.0000			23	2035	Nueva LINEA		
			3287	180.98600	102.30700	62.3050		2036	Altura Mira		
M				4.1900				2037	283626.237	4821424.415	53.588
			3288	161.81000	101.42800	44.9270		2038	Altura Mira		
			3289	150.62400	100.98800	45.6420		2039	283633.272	4821446.849	54.647
			3290	138.15400	101.21100	55.6190		2040	283639.867	4821451.338	54.947
			3291	131.26000	101.70500	69.2690		2041	283653.832	4821452.555	54.597
L				4				2042	283668.978	4821451.272	53.800
			3292	141.38800	102.41000	82.9170		2043	Nueva LINEA		
M				5.1900				2044	283673.870	4821433.771	52.517
			3293	159.00300	101.42700	65.8780		2045	Altura Mira		
L				40				2046	283647.457	4821431.253	53.179
M				1.3000			40	2047	Nueva LINEA		
			3294	149.56600	102.52200	41.2250		2048	Altura Mira		
			3295	164.54700	102.59100	40.4930		2049	283637.241	4821454.994	56.912
			3296	182.06200	102.73400	50.1010		2050	283629.300	4821449.576	56.898
L				4				2051	283621.833	4821435.842	56.394
			3297	186.95900	102.58700	51.2910		2052	Nueva LINEA		
			3298	162.93400	102.47700	36.0660		2053	283618.340	4821433.745	56.461
			3299	163.39300	103.03000	29.2180		2054	283627.732	4821453.822	57.142
			3300	185.33500	102.78100	38.9350		2055	283623.787	4821459.431	57.155
L				10				2056	283616.797	4821446.052	56.845
			3301	193.49600	102.43800	49.6390		2057	Nueva LINEA		
			3302	181.50200	102.91800	24.7000		2058	283612.974	4821434.579	56.645
			3303	49.87600	100.64800	13.6470		2059	283614.984	4821460.283	57.413
L				10				2060	283617.545	4821493.590	58.406
			3304	19.75100	100.85700	10.0120		2061	Nueva LINEA		
			3305	196.25600	103.56400	16.7870		2062	283610.971	4821493.455	58.410
			3306	201.89400	102.41500	47.0120		2063	283608.900	4821467.190	57.606
L				166				2064	283606.518	4821436.965	56.762
			3307	205.51200	102.62600	47.1210	166	2065	Nueva LINEA		
			3308	203.78900	102.56800	47.0390		2066	283603.844	4821437.018	56.602
			3309	202.85500	102.99000	25.6580		2067	283605.120	4821437.005	56.648
			3310	201.13600	103.88600	14.7120		2068	283606.766	4821458.318	57.340
			3311	10.51800	100.84100	10.4160		2069	283607.653	4821469.240	57.648
L				166				2070	283609.628	4821494.195	58.407
			3312	0.68400	100.32600	9.9140	166	2071	Nueva LINEA		
			3313	208.17200	103.40300	14.2700		2072	283608.021	4821493.835	58.494
			3314	207.97600	103.28600	15.6090		2073	283606.091	4821469.790	57.783
			3315	209.45600	103.27300	15.9700		2074	283605.967	4821468.456	57.740
			3316	208.50000	102.88000	20.2320		2075	283605.555	4821468.149	57.724
L				176				2076	283605.225	4821463.891	57.630
			3317	188.34400	102.65400	37.1430	176	2077	Nueva LINEA		
			3318	185.62400	102.73900	32.1090		2078	283614.672	4821447.432	56.997
L				166				2079	283615.098	4821452.658	57.164
			3319	166.00500	103.02500	19.7020	166	2080	Nueva LINEA		
			3320	169.43800	103.02600	19.0380		2081	283617.932	4821466.982	57.609
			3321	51.68700	100.54700	14.8320		2082	283616.698	4821467.055	57.640
L				166				2083	283618.676	4821494.128	58.418
			3322	60.26500	100.19400	15.1170	166	2084	Nueva LINEA		
			3323	161.75400	102.69800	18.2490		2085	283620.182	4821492.757	58.499
			3324	164.59200	102.68900	19.3400		2086	283618.221	4821468.882	57.772
			3325	166.03800	102.61700	19.6920		2087	283618.117	4821467.512	57.728
L				741				2088	283617.921	4821466.981	57.736
			3326	165.67300	103.26400	20.0420	741	2089	Nueva LINEA		
L				744				2090	283618.192	4821466.746	57.518
			3327	167.69600	102.87300	20.0870	744	2091	Nueva LINEA		
L				60				2092	283617.666	4821466.384	57.639
M				4.3000			60	2093	Nueva LINEA		
			3328	164.36900	105.30600	19.4770		2094	Altura Mira		
M				1.3000				2095	283618.220	4821467.474	53.924
			3329	158.89300	103.36800	20.8570		2096	Altura Mira		
			3330	164.62600	103.52700	19.4020		2097	283620.448	4821467.288	57.442
L				60				2098	283618.134	4821467.464	57.471
M				5.5000			60	2099	Nueva LINEA		
			3331	208.36700	101.95900	15.5900		2100	Altura Mira		
M				1.3000				2101	283605.873	4821468.474	53.865
			3332	216.86900	104.31600	16.0580		2102	Altura Mira		
								2103	283603.719	4821468.460	57.457

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		3333	208.65700	104.22300	15.6610						
L			86			86		2104	283605.797	4821468.440	57.507
M			4.1900					2105	Nueva LINEA		
		3334	206.38900	98.77800	47.3940			2106	Altura Mira		
		3335	206.90500	97.31200	36.2780			2107	283603.168	4821436.776	56.565
		3336	207.44500	95.59300	26.5560			2108	283603.992	4821447.890	57.186
M			1.3000					2109	283604.824	4821457.611	57.492
		3337	240.27100	102.82700	30.7430			2110	Altura Mira		
M			4.1900					2111	283589.757	4821459.152	57.180
		3338	263.48200	98.35900	42.3520			2112	Altura Mira		
		3339	281.35500	99.59700	70.9180			2113	283572.354	4821460.946	56.747
		3340	291.80300	99.82200	124.3250			2114	283540.019	4821463.448	56.104
L			205			205		2115	283484.621	4821467.957	56.004
L		3341	290.83100	99.77400	122.7180			2116	Nueva LINEA		
L			205			205		2117	283486.470	4821466.308	56.092
L		3342	279.17200	99.63700	70.3060			2118	Nueva LINEA		
L			205			205		2119	283541.340	4821461.328	56.056
L		3343	278.79200	99.63700	69.5280			2120	Nueva LINEA		
L			86			86		2121	283542.211	4821461.186	56.052
		3344	281.16400	99.60300	71.0660			2122	Nueva LINEA		
		3345	271.33700	99.73500	51.8970			2123	283539.939	4821463.201	56.099
		3346	260.70200	99.95300	40.7420			2124	283561.191	4821461.337	55.871
M			2.1500					2125	283574.692	4821460.339	55.685
M		3347	233.33900	103.02200	29.1150			2126	Altura Mira		
M			4.1900					2127	283593.372	4821458.737	56.314
M		3348	209.58200	98.18600	26.9400			2128	Altura Mira		
M			4.3000					2129	283603.877	4821457.298	56.423
L		3349	207.39800	98.82900	44.0750			2130	Altura Mira		
M			4			4		2131	283602.806	4821440.152	56.356
		3350	217.76300	99.16500	42.4250			2132	Nueva LINEA		
M			2.1500					2133	Altura Mira		
L		3351	217.94300	103.28600	32.9330			2134	283596.232	4821443.142	56.212
L			92			92		2135	Altura Mira		
M			5.6000					2136	283598.768	4821452.331	55.996
M		3352	227.64900	97.17200	46.7750			2137	Nueva LINEA		
M			5.1900					2138	Altura Mira		
M		3353	231.17700	98.96700	38.2190			2139	283588.253	4821441.532	56.322
M			4.1900					2140	Altura Mira		
L		3354	244.41300	100.66300	42.1970			2141	283589.940	4821450.200	55.275
L			91			91		2142	Altura Mira		
		3355	250.41800	100.73200	39.4510			2143	283580.809	4821451.586	55.216
L		3356	242.30400	100.89100	36.1320			2144	Nueva LINEA		
M			760			760		2145	283579.839	4821456.212	55.201
M			2.1500					2146	283585.636	4821455.481	55.149
L		3357	233.34600	103.16300	29.3840			2147	Nueva LINEA		
L			205			205		2148	Altura Mira		
M			4.1900					2149	283593.236	4821458.509	56.236
		3358	243.66600	101.04500	39.3000			2150	Nueva LINEA		
L			205			205		2151	Altura Mira		
L		3359	244.31700	101.10700	38.6820			2152	283583.027	4821453.514	55.010
L			4			4		2153	Nueva LINEA		
		3360	231.38700	100.82500	35.8120			2154	283583.114	4821454.245	54.983
L		3361	235.91700	101.20200	31.7530			2155	Nueva LINEA		
L			92			92		2156	283590.967	4821452.378	55.191
		3362	209.76600	99.49700	64.6520			2157	283590.939	4821457.095	55.056
M		3363	211.51800	98.95000	45.3680			2158	Nueva LINEA		
M			5.7000					2159	283598.037	4821420.032	56.166
M		3364	241.41500	97.38200	53.3630			2160	283599.753	4821439.301	56.403
M			4.1900					2161	Altura Mira		
M		3365	254.91500	99.78700	40.7130			2162	283575.625	4821441.494	56.339
M			2.1500					2163	Altura Mira		
L		3366	290.12100	100.81600	122.3520			2164	283576.993	4821457.440	55.791
L			6			6		2165	Altura Mira		
M			1.3000					2166	283487.044	4821465.012	56.128
D		30506	306.41200	101.81500	491.6010			2167	Nueva LINEA		
B		30506	283119.004	4821533.328	44.542			2168	Altura Mira		
L			6			6		2169	283119.008	4821533.327	44.547
H			1.6080	1.3000				2170	BASE (coord de FICHERO DE BASES)		
O		30505	106.41200	98.27300	491.5820			2171	Nueva LINEA		
L			3			3		2172	Altura Aparato y Mira		
M			4.1900					2173	283607.915	4821483.922	58.194
								2174	Nueva LINEA		
								2175	Altura Mira		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		3367	114.65800 2.1500	96.78600	243.5930			2176	283355.865	4821477.809	54.257
M		3368	114.21700 4.1900	97.41200	256.6030			2177	Altura Mira		
M		3369	113.71300 2.1500	97.19100	277.5900			2178	283369.027	4821476.548	54.433
M		3370	112.79700 4.1900	97.78700	307.3730			2179	Altura Mira		
M		3371	112.07900 2.1500	97.52700	335.9040			2180	283389.913	4821474.056	54.209
M		3372	111.77700 4.1900	97.94600	349.7690			2181	Altura Mira		
M		3373	111.99800 2.1500	97.59800	355.0770			2182	283420.004	4821471.997	54.689
M		3374	112.49100 4.1900	97.99400	359.5290			2183	Altura Mira		
M		3375	113.11500 5.5000	97.64200	362.1060			2184	283448.629	4821470.027	55.013
L		3376	114.62800 3	97.41500	365.7730			2185	Altura Mira		
M		3377	114.84600 4.1900	97.43000	363.5630	3		2186	283462.624	4821469.029	55.291
M		3378	113.44800 3.1500	97.64500	359.6320			2187	Altura Mira		
M		3379	112.86500 4.1900	97.84100	357.3400			2188	283467.543	4821466.855	55.362
M		3380	112.43000 2.1500	97.61000	353.7610			2189	Altura Mira		
M		3381	112.29200 4.1900	97.95200	348.9070			2190	283471.457	4821463.275	55.335
M		3382	112.29200 2.1500	97.56700	344.0660			2191	Altura Mira		
M		3383	112.91000 4.1900	97.82600	317.9960			2192	283473.208	4821459.311	55.378
M		3384	113.40500 3.1500	97.32400	300.1590			2193	Altura Mira		
M		3385	114.07800 4.1900	97.47400	279.8590			2194	283474.868	4821450.092	55.507
M		3386	114.57000 2.1500	97.02300	264.0300			2195	Nueva LINEA		
L		3387	115.05100 205	97.35800	248.0640			2196	283472.436	4821449.383	55.332
M		3388	115.21700 205	96.79400	245.8160			2197	Altura Mira		
L		3389	115.40500 780	96.78700	245.8180			2198	283470.399	4821457.978	55.269
L		3390	115.98300 86	96.82000	246.7680			2199	Altura Mira		
L		3391	117.32400	96.75800	246.1350			2200	283468.869	4821461.651	55.125
L		3392	115.98800 643	96.81300	248.1500			2201	Altura Mira		
L		3393	115.47400	96.90500	257.5060			2202	283465.797	4821464.746	55.246
L		3394	114.47900	97.17100	275.1990			2203	Altura Mira		
L		3395	114.07700 30	97.22800	284.9710			2204	283461.248	4821466.416	55.230
M		3396	113.37800 4.1900	97.79900	306.7070			2205	Altura Mira		
L		3397	112.85200 643	97.47100	327.6700			2206	283456.428	4821467.358	55.114
M		3398	112.43300 4.1900	97.96800	344.2590			2207	Altura Mira		
M		3399	112.43300	97.62000	348.9080			2208	283430.300	4821469.323	54.864
L		3400	112.73600 44	97.63500	354.8630			2209	Altura Mira		
M		3401	113.16600 5.5000	97.61200	357.4620			2210	283412.272	4821470.649	54.579
L		3402	114.67500 30	97.40100	360.8930			2211	Altura Mira		
M		3403	114.57700 2.1500	97.40700	366.1700			2212	283391.832	4821471.995	54.107
M								2213	Altura Mira		
								2214	283375.867	4821473.495	54.307
								2215	Altura Mira		
								2216	283359.958	4821475.278	54.296
								2217	Nueva LINEA		
								2218	Altura Mira		
								2219	283357.527	4821475.205	54.338
								2220	Nueva LINEA		
								2221	283357.355	4821474.501	54.365
								2222	Nueva LINEA		
								2223	283357.736	4821472.102	54.285
								2224	Nueva LINEA		
								2225	283355.773	4821467.260	54.493
								2226	283359.067	4821471.741	54.382
								2227	Nueva LINEA		
								2228	283368.644	4821471.428	54.478
								2229	283386.850	4821471.340	54.190
								2230	283396.771	4821470.889	54.370
								2231	Nueva LINEA		
								2232	Altura Mira		
								2233	283418.783	4821469.391	54.608
								2234	Altura Mira		
								2235	283439.764	4821467.682	54.980
								2236	Nueva LINEA		
								2237	Altura Mira		
								2238	283456.545	4821466.559	54.994
								2239	Altura Mira		
								2240	283461.038	4821465.670	55.009
								2241	283466.547	4821462.860	55.148
								2242	Nueva LINEA		
								2243	283468.601	4821459.982	55.374
								2244	Altura Mira		
								2245	283470.056	4821450.944	55.388
								2246	Nueva LINEA		
								2247	283475.319	4821450.287	55.569
								2248	Altura Mira		

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#	L	Ba/Pt	L.AZIM / X	L. VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	L	3404	111.44600	97.95800	360.4600			2249	283473.469	4821468.905	55.569
	M		205			205		2250	Nueva LINEA		
			4.1900					2251	Altura Mira		
	L	3405	111.78600	97.57700	358.2580			2252	283470.883	4821467.432	55.601
			781			781		2253	Nueva LINEA		
	L	3406	112.12200	97.56000	349.1680			2254	283461.607	4821467.295	55.347
	M		92			92		2255	Nueva LINEA		
			5.5000					2256	Altura Mira		
	L	3407	114.43700	97.37800	376.6430			2257	283485.690	4821448.720	56.167
	M		4			4		2258	Nueva LINEA		
			4.1900					2259	Altura Mira		
	L	3408	112.92500	97.62800	370.2940			2260	283481.439	4821458.720	55.763
	M		780			780		2261	Nueva LINEA		
			3.1500					2262	Altura Mira		
	L	3409	113.04600	97.84700	357.0880			2263	283468.418	4821460.707	55.083
	M		741			741		2264	Nueva LINEA		
			5.1900					2265	Altura Mira		
	L	3410	114.03500	97.53000	355.9790			2266	283466.104	4821455.545	54.776
			4			4		2267	Nueva LINEA		
			3411	114.55500	97.35700	336.2390		2268	283446.209	4821457.191	54.923
	L	3412	115.56300	97.24500	316.8350			2269	283426.129	4821456.718	54.673
			86			86		2270	Nueva LINEA		
	L	3413	116.83100	97.15700	296.0030			2271	283404.436	4821456.059	54.180
			4			4		2272	Nueva LINEA		
	L	3414	117.04400	97.01400	283.3310			2273	283391.939	4821458.461	54.250
			86			86		2274	Nueva LINEA		
	L	3415	118.45100	96.82500	269.3740			2275	283376.821	4821456.443	54.394
	M		91			91		2276	Nueva LINEA		
			4.1900					2277	Altura Mira		
	L	3416	118.14500	96.71700	244.8600			2278	283353.672	4821464.573	54.586
			4			4		2279	283357.613	4821462.134	54.413
	L	3417	118.46000	96.82000	249.3170			2280	Nueva LINEA		
			91			91		2281	283348.831	4821466.175	53.862
	L	3418	118.09800	96.83900	239.7340			2282	Nueva LINEA		
			91			91		2283	283345.779	4821473.910	53.949
			3419	116.31400	96.74800	234.7380		2284	283346.778	4821475.126	54.235
			3420	115.92700	96.68000	235.4140		2285	283349.881	4821472.518	54.400
	L	3421	116.39600	96.68700	239.0770			2286	Nueva LINEA		
			86			86		2287	283347.511	4821470.953	53.962
	L	3422	116.96500	96.77800	237.1730			2288	Nueva LINEA		
			86			86		2289	283344.494	4821468.000	53.907
	L	3423	117.95300	96.76400	235.0680			2290	Nueva LINEA		
			92			92		2291	283342.677	4821466.051	53.975
			3424	118.60100	96.72900	233.8820		2292	283335.397	4821459.113	53.234
			3425	121.03400	96.86600	229.0450		2293	283332.331	4821461.849	53.137
			3426	120.58300	96.84100	225.2630		2294	283335.253	4821465.283	53.340
	L	3427	119.40800	96.80800	226.9890			2295	Nueva LINEA		
			91			91		2296	283343.571	4821468.172	53.856
	L	3428	117.97800	96.76500	234.1320			2297	283342.372	4821470.474	53.783
			4			4		2298	Nueva LINEA		
	L	3430	117.20900	96.72400	218.9710			2299	283329.743	4821474.934	53.226
			40			40		2300	Nueva LINEA		
			3431	119.57200	96.86800	217.0870		2301	283325.661	4821467.716	52.639
			3432	117.52000	96.62500	204.0670		2302	283315.115	4821477.954	52.776
	L	3433	116.27600	96.74000	199.9280			2303	283312.179	4821482.837	52.196
	M		23			23		2304	Nueva LINEA		
			2.1500					2305	Altura Mira		
	L	3434	119.82600	97.67100	214.9600			2306	283323.486	4821467.507	51.865
	M		4.1900					2307	Altura Mira		
			3435	118.71300	97.62200	196.9600		2308	283307.384	4821476.305	49.318
	L	3436	116.84400	97.68700	184.0480			2309	283296.529	4821485.231	48.648
	M		86			86		2310	Nueva LINEA		
			2.1500					2311	Altura Mira		
	L	3437	121.42800	98.33300	207.2180			2312	283314.526	4821464.916	49.428
			3438	121.37700	97.93600	207.2880		2313	283314.611	4821465.062	50.722
			3439	119.73100	98.62500	187.3020		2314	283297.339	4821476.217	48.047
	L	3440	119.73800	98.68400	187.0460			2315	283297.093	4821476.274	47.869
	M		4			4		2316	Nueva LINEA		
			4.1900					2317	Altura Mira		
	L	3441	125.94200	99.43800	181.2840			2318	283285.437	4821461.488	43.562
	M		2.1500					2319	Altura Mira		
	L	3442	121.23500	100.48100	163.6490			2320	283273.628	4821479.751	42.765
			4			4		2321	Nueva LINEA		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M			4.1900								
		3443	130.85800	100.76100	148.1910			2322	Altura Mira		
M			2.1500					2323	283250.115	4821464.284	40.190
		3444	123.63200	101.51600	142.4110			2324	Altura Mira		
L			42			42		2325	283251.677	4821481.685	40.610
M			3.9000					2326	Nueva LINEA		
		3445	133.63600	101.49200	112.3240			2327	Altura Mira		
M			4.1900					2328	283215.985	4821476.721	39.619
		3446	123.70600	101.28600	112.1530			2329	Altura Mira		
L			742			742		2330	283223.449	4821492.533	39.695
M			3.1500					2331	Nueva LINEA		
		3447	121.19100	101.15200	134.5210			2332	Altura Mira		
L			780			780		2333	283246.120	4821489.381	40.567
M			3.3000					2334	Nueva LINEA		
		3448	121.64500	101.44800	123.3780			2335	Altura Mira		
L			30			30		2336	283235.289	4821492.195	40.045
M			4.1900					2337	Nueva LINEA		
		3449	122.57100	101.23300	116.1390			2338	Altura Mira		
M			2.1500					2339	283227.899	4821493.018	39.712
		3450	119.87600	101.51900	137.2520			2340	Altura Mira		
		3451	118.58500	100.68900	153.7820			2341	283249.583	4821491.182	40.727
M			4.1900					2342	283266.270	4821489.073	42.337
		3452	116.94600	97.78600	181.9560			2343	Altura Mira		
M			2.1500					2344	283294.445	4821485.494	48.289
		3453	116.24000	97.37800	200.8080			2345	Altura Mira		
L			23			23		2346	283313.148	4821482.701	52.271
M			4.1900					2347	Nueva LINEA		
		3454	119.46400	100.76100	125.6150			2348	Altura Mira		
		3455	121.27900	101.78600	97.1370			2349	283238.784	4821495.522	40.460
L			100			100		2350	283210.729	4821501.475	39.236
		3456	119.53400	101.93100	94.8920			2351	Nueva LINEA		
L			23			23		2352	283209.422	4821504.680	39.083
		3457	120.85200	101.73900	92.4770			2353	Nueva LINEA		
		3458	129.18000	104.68200	48.9610			2354	283206.532	4821503.589	39.435
L			742			742		2355	283162.792	4821511.723	38.363
M			2.0000					2356	Nueva LINEA		
		3459	137.92300	107.43800	48.0640			2357	Altura Mira		
L			30			30		2358	283158.518	4821506.544	38.547
M			4.1900					2359	Nueva LINEA		
		3460	129.80500	102.77900	75.7370			2360	Altura Mira		
L			4			4		2361	283186.527	4821499.184	38.655
M			1.6000					2362	Nueva LINEA		
		3461	130.80100	104.47600	83.3680			2363	Altura Mira		
								2364	283192.621	4821494.645	38.694

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
B		30001	284765.883	4821686.323	58.372						
H			1.5390	1.3000							
O		30002	0.00050	108.85600	69.5440						
D		30003	98.82850	99.23150	189.6020						
L			176								
		1	86.33450	101.95100	3.7720	176					
		2	96.43800	99.09000	25.1780			0			
		3	97.62250	99.26850	48.3690			1			
		4	98.03550	99.37600	66.5470			2	284775.123	4821618.072	48.971
		5	98.30300	99.43000	77.1770			3	284578.511	4821657.434	60.902
		6	98.60500	99.55350	99.5820			4			
		7	98.71100	99.55150	123.0390			5	284762.340	4821685.033	58.495
		8	98.80750	99.49750	148.1800			6	284741.163	4821681.555	58.971
		9	98.89350	99.31150	171.9280			7	284718.231	4821678.049	59.167
		10	98.98700	99.21350	186.8110			8	284700.248	4821675.365	59.264
L			176					9	284689.711	4821673.934	59.302
		11	100.76900	99.20550	186.8200	176		10	284667.521	4821670.804	59.310
		12	101.01600	99.36550	165.2690			11	284644.320	4821667.351	59.479
		13	101.30400	99.52100	142.7830			12	284619.447	4821663.696	59.782
		14	101.72100	99.52900	119.8460			13	284595.948	4821660.300	60.472
		15	102.26550	99.47800	97.4200			14	284581.199	4821658.319	60.921
		16	103.06400	99.39550	75.7980			15			
		17	104.38250	99.30050	53.6870			16	284580.479	4821663.498	60.945
		18	109.23550	99.08600	28.2410			17	284601.785	4821666.767	60.260
		19	128.15100	98.84900	11.5640			18	284624.034	4821670.069	59.687
		20	175.59750	101.09050	6.0070			19	284646.734	4821673.460	59.499
		21	235.92200	103.93800	8.3390			20	284668.944	4821676.696	59.410
L			3					21	284690.372	4821679.779	59.331
		22	228.40800	103.58100	8.3660	3		22	284712.316	4821682.797	59.201
		23	175.31950	98.88000	11.2150			23	284737.647	4821686.619	59.016
L			3					24	284754.864	4821689.824	58.820
		24	193.28650	101.64800	6.4540	3		25	284762.910	4821691.541	58.508
		25	174.49050	99.33450	8.2010			26	284769.350	4821693.889	58.096
L			42					27			
		26	82.19050	99.84600	6.4200	42		28	284768.444	4821694.273	58.141
		27	94.51700	99.11800	23.6420			29	284760.289	4821696.041	58.808
M			2.1500					30			
		28	96.42550	98.19000	40.7850			31	284764.349	4821692.590	58.444
L			86					32	284761.700	4821693.376	58.697
		29	97.47950	98.42350	61.9800	86		33			
		30	97.44750	98.39950	62.4530			34	284760.006	4821683.739	58.627
M			4.6500					35	284742.817	4821681.148	58.939
		31	97.34400	98.60650	66.3510			36			
L			86					37	284725.854	4821678.595	58.921
		33	95.91900	96.39500	69.1920			38	284704.860	4821675.586	59.296
		34	95.92400	96.41800	69.6000	86		39			
M			1.3000					40	284704.400	4821675.473	59.331
		35	96.03750	96.68800	74.3900			41	284700.577	4821674.689	59.214
		36	96.10150	96.64050	74.9030			42			
L			86					43	284698.161	4821672.688	59.177
		37	97.73450	99.49600	77.2680			44	284697.760	4821672.613	59.175
		38	97.87000	99.56100	81.1930	86		45			
L			42					46	284693.029	4821671.796	59.130
		39	97.86800	99.60350	81.5860	42		47	284692.514	4821671.770	59.212
		40	98.19650	99.61300	100.4550			48			
M			2.1500					49	284689.734	4821673.239	59.223
		41	98.26500	99.64300	120.6760			50	284685.836	4821672.745	59.171
		42	98.45350	99.21350	138.6610			51			
		43	98.54600	99.12550	158.8920			52	284685.449	4821672.676	59.120
		44	98.50200	99.16200	160.2670			53	284666.761	4821670.031	59.222
		45	98.63900	98.99350	173.5150			54	284646.787	4821666.880	59.289
		46	98.75200	98.90400	183.2950			55			
L			86					56	284628.980	4821664.389	59.475
		48	98.79550	98.91700	183.5100	86		57	284608.972	4821661.417	59.945
		49	98.55300	98.93550	186.8960			58	284607.630	4821661.092	59.872
L			746					59	284594.497	4821659.376	60.506
		50	98.68750	98.91350	185.1560	746		60	284584.791	4821658.180	60.919
		51	98.79500	98.91650	185.2710			61			
		52	98.73250	98.89500	186.2370			62	284584.558	4821658.270	60.885
		53	98.58850	98.84350	186.2020			63	284581.322	4821657.049	60.888
L			741					64			
		54	98.69700	98.84500	186.3260	741		65	284582.980	4821657.708	60.923
L			741					66	284582.819	4821658.000	60.916
		55	98.42050	99.24050	145.3200	741		67	284581.893	4821657.672	60.996
								68	284581.996	4821657.261	61.146
								69			
								70	284581.824	4821657.556	61.144
								71			
								72	284622.416	4821663.261	59.496



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L			741			741		73	Nueva LINEA		
	56		98.07900	99.30450	105.1920			74	284662.122	4821669.072	58.911
L			741			741		75	Nueva LINEA		
	57		97.49550	98.54300	65.5850			76	284701.305	4821674.977	59.262
	58		95.72850	97.50950	30.8170			77	284735.714	4821680.155	58.966
	59		73.58850	86.80200	4.5250			78	284762.107	4821684.011	58.692
L			86			86		79	Nueva LINEA		
M			1.3000					80	Altura Mira		
	60		285.69200	105.06500	7.3730			81	284772.763	4821688.907	58.025
L			86			86		82	Nueva LINEA		
	61		372.14400	112.04800	2.6890			83	284767.313	4821684.103	58.105
L			92			92		84	Nueva LINEA		
	62		301.42950	106.19000	7.1630			85	284772.967	4821687.121	57.916
	63		346.44950	109.52950	2.4620			86	284767.899	4821684.958	58.244
	64		379.19650	105.95100	15.8350			87	284772.901	4821672.206	57.133
	65		398.86450	107.91550	16.3530			88	284768.347	4821670.284	56.583
L			166			166		89	Nueva LINEA		
	66		398.68950	107.03350	16.2980			90	284768.386	4821670.319	56.814
	67		398.01800	107.76600	15.3450			91	284768.395	4821671.301	56.744
	68		382.71650	106.66050	14.9190			92	284771.744	4821672.692	57.053
	69		375.06400	111.85900	2.9090			93	284767.319	4821683.851	58.072
L			720			720		94	Nueva LINEA		
	70		395.62800	107.06350	15.8580			95	284769.064	4821670.887	56.855
L			710			710		96	Nueva LINEA		
	72		384.79350	109.49450	6.3430			97	284768.171	4821680.483	57.669
L			710			710		98	Nueva LINEA		
	73		363.53850	116.05650	1.4410			99	284766.790	4821685.262	58.251
L			762			762		100	Nueva LINEA		
	74		151.07200	100.65900	4.7510			101	284762.152	4821689.264	58.562
L			720			720		102	Nueva LINEA		
	75		197.21200	102.05100	6.1480			103	284764.793	4821692.370	58.413
L			710			710		104	Nueva LINEA		
	76		204.86900	102.32100	6.2380			105	284765.521	4821692.546	58.384
L			760			760		106	Nueva LINEA		
	77		141.01350	99.15550	8.8710			107	284758.140	4821690.651	58.729
	78		105.50450	99.26700	47.4460			108	284718.495	4821684.042	59.157
	79		102.59250	99.45200	89.1550			109	284677.124	4821677.969	59.379
	80		101.60550	99.58200	133.9460			110	284632.741	4821671.705	59.492
	81		100.87300	99.23100	191.2190			111	284576.074	4821663.271	60.923
L			178			178		112	Nueva LINEA		
	82		68.41900	104.69600	3.4150			113	284763.132	4821684.315	58.359
	83		15.90800	108.37350	8.4240			114	284764.922	4821678.027	57.506
	84		12.32100	108.10300	12.9250			115	284765.127	4821673.525	56.970
	85		11.29950	107.91350	14.7480			116	284765.255	4821671.702	56.782
	86		3.88550	108.30100	26.4150			117	284767.807	4821660.203	55.176
	87		1.28750	108.68000	42.5020			118	284770.687	4821644.491	52.834
	88		1.70650	108.95900	60.2740			119	284772.302	4821626.992	50.157
L			42			42		120	Nueva LINEA		
M			2.1500					121	Altura Mira		
	89		2.10800	107.60800	40.3100			122	284769.937	4821646.507	52.955
	90		3.87000	106.38150	29.6350			123	284768.057	4821656.917	54.795
M			1.8000					124	Altura Mira		
	91		8.31700	106.16300	21.4730			125	284765.967	4821664.951	56.036
M			2.1500					126	Altura Mira		
	92		13.96200	103.66900	14.8780			127	284764.626	4821671.523	56.904
L			42			42		128	Nueva LINEA		
	93		15.67450	103.75600	12.2730			129	284764.518	4821674.148	57.037
	94		22.40850	100.62750	7.7360			130	284764.214	4821678.770	57.685
	95		64.93950	88.86300	4.0350			131	284762.807	4821683.808	58.463
L			178			178		132	Nueva LINEA		
M			1.3000					133	Altura Mira		
	97		389.26900	115.83400	1.3640			134	284766.278	4821685.061	58.275
	98		392.20850	109.51050	6.9820			135	284767.638	4821679.646	57.572
	99		0.19800	108.11450	16.4990			136	284768.028	4821670.099	56.514
L			760			760		137	Nueva LINEA		
M			2.1500					138	Altura Mira		
	100		65.61750	95.72450	7.1940			139	284760.278	4821681.840	58.244
B	30002	284775.123	4821618.072		48.971			140	BASE (coord de FICHERO DE BASES)		
H		1.5310	1.3000					141	Altura Aparato y Mira		
O	30004	219.20000	98.72500	595.9990				142	284597.876	4821049.149	61.157
D	30001	391.40600	91.57700	69.4790				143	284765.883	4821686.321	58.368
L		32				32		144	Nueva LINEA		
	101		387.10600	91.64150	27.1130			145	284769.727	4821644.404	52.752

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		102	381.46800	92.49900	15.0800						
		103	363.21500	96.36250	6.7780			146	284770.831	4821632.419	50.975
		104	325.97600	105.66550	5.2630			147	284771.429	4821623.742	49.589
		105	281.51800	111.38700	9.7260			148	284770.312	4821620.154	48.734
		106	271.42350	111.38550	23.1450			149	284765.952	4821615.336	47.472
		107	266.93700	110.74750	31.8710			150	284754.599	4821608.197	45.085
		108	260.84200	110.18550	38.3810			151	284747.841	4821602.490	43.847
		109	250.34700	110.55450	42.5290			152	284744.168	4821596.221	43.088
M			2.1500					153	284745.289	4821588.587	42.184
		110	239.82400	109.94350	44.3740			154	Altura Mira		
		111	236.37500	110.42200	44.4400			155	284749.441	4821582.550	41.449
		112	225.39750	112.23400	43.8340			156	284751.396	4821581.201	41.109
		113	220.22000	112.91750	44.2650			157	284758.393	4821578.431	39.980
L			630			630		158	284761.565	4821576.890	39.432
		114	231.86700	111.63950	43.5040			159	Nueva LINEA		
		115	238.40800	110.47200	44.1070			160	284754.577	4821580.551	40.442
		116	247.65700	109.76850	42.6490			161	284750.421	4821582.253	41.129
		117	256.55450	109.39150	39.6260			162	284746.424	4821587.205	41.834
		118	260.80750	109.28000	37.5620			163	284744.696	4821593.365	42.528
		119	266.10000	109.47150	31.8500			164	284744.773	4821596.624	42.896
M			1.3000					165	284747.979	4821602.092	43.631
		120	268.98900	111.67450	25.9540			166	Altura Mira		
		121	272.20100	112.91250	14.0030			167	284752.568	4821606.137	44.469
		122	301.86150	112.03850	5.7640			168	284762.692	4821612.277	46.381
		123	362.57400	99.83700	5.7450			169	284769.464	4821618.240	48.119
		124	384.31350	92.90550	16.3210			170	284771.939	4821622.854	49.217
		125	387.88000	91.99050	26.6100			171	284771.173	4821633.803	51.017
L			178			178		172	284770.138	4821643.997	52.541
		126	391.35850	91.18450	52.7900			173	Nueva LINEA		
		127	393.35000	91.14850	43.3890			174	284768.070	4821669.878	56.489
		128	393.27950	91.11500	42.3300			175	284770.661	4821660.810	55.215
		129	395.86000	91.24100	32.4180			176	284770.724	4821659.759	55.091
		130	1.11600	91.26450	17.5530			177	284773.050	4821650.116	53.648
		131	16.98550	92.52000	5.8110			178	284775.435	4821635.457	51.603
		132	32.45150	97.50900	1.9960			179	284776.647	4821623.638	49.883
		133	233.05400	118.10800	2.1120			180	284776.097	4821619.812	49.280
		134	242.19000	113.37900	7.2630			181	284774.116	4821616.312	48.609
		135	252.75350	112.11350	15.6710			182	284770.750	4821612.474	47.687
		136	256.55000	111.73950	23.9240			183	284763.777	4821607.676	46.238
		137	256.23700	111.75950	29.0430			184	284756.867	4821603.246	44.815
		138	253.89300	111.74900	33.4660			185	284753.051	4821599.966	43.868
M			2.1500					186	284750.474	4821596.286	43.061
		139	249.79150	110.42650	36.5740			187	Altura Mira		
		140	243.99000	110.93750	38.3740			188	284749.680	4821592.484	42.389
L			630			630		189	284751.015	4821588.946	41.792
		141	249.52600	110.95550	36.1010			190	Nueva LINEA		
		142	253.86900	110.58900	31.9260			191	284750.150	4821592.746	42.170
		143	255.56300	110.14500	25.7470			192	284751.540	4821597.212	43.066
M			1.3000					193	284755.641	4821601.743	44.266
		144	252.38800	112.70400	18.0650			194	Altura Mira		
		145	244.65750	114.09450	10.8490			195	284762.137	4821606.036	45.621
		146	237.10650	114.76150	7.3950			196	284768.289	4821609.990	46.820
								197	284771.159	4821612.065	47.503
B		30002	284775.123	4821618.072	48.971			198	BASE (coord de FICHERO DE BASES)		
H			1.5730	1.3000				199	Altura Aparato y Mira		
O		30001	391.40600	91.61250	69.4750			200	284765.883	4821686.323	58.372
L			32			32		201	Nueva LINEA		
M			1.3400					202	Altura Mira		
		152	234.19950	113.97800	7.7010			203	284771.274	4821611.616	47.527
		153	246.26850	112.53550	13.6880			204	284766.199	4821608.044	46.526
		154	251.86200	111.93100	19.8640			205	284760.920	4821604.688	45.503
		155	254.05700	111.76800	24.8770			206	284756.759	4821601.925	44.632
		156	253.70500	111.97500	29.2460			207	284753.652	4821598.982	43.735
		157	252.00000	112.04550	33.2110			208	284751.336	4821595.754	42.958
M			2.1500					209	Altura Mira		
		158	248.50600	110.80100	35.9590			210	284750.645	4821592.440	42.322
L			92			92		211	Nueva LINEA		
M			1.3400					212	Altura Mira		
		159	393.30000	91.00600	48.5810			213	284770.091	4821665.905	56.045
		160	394.68950	90.95700	45.0370			214	284771.427	4821662.502	55.580
L			91			91		215	Nueva LINEA		
		161	394.68900	90.95600	45.0040			216	284771.430	4821662.469	55.576
		162	394.92600	91.13100	43.5460			217	284771.708	4821661.060	55.251
		163	395.10500	91.04750	42.6040			218	284771.901	4821660.132	55.176

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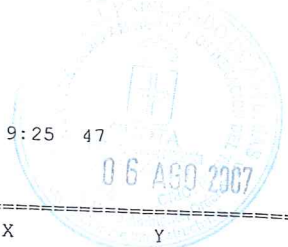


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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	L	164	395.26450	90.91700	41.1820			219	284772.111	4821658.724	55.060
			86			86		220	Nueva LINEA		
		165	395.26800	90.91700	41.1830			221	284772.113	4821658.725	55.060
		166	396.76900	91.33300	32.6790			222	284773.494	4821650.407	53.639
		167	398.93750	91.33650	25.1920			223	284774.717	4821643.028	52.622
		168	5.79350	91.37700	14.6250			224	284776.446	4821632.502	51.179
		169	30.39400	93.80450	5.9360			225	284777.840	4821623.318	49.781
		170	132.09250	105.70800	4.0030			226	284778.613	4821616.145	48.846
		171	158.51900	107.73750	6.2490			227	284778.883	4821613.138	48.446
		172	172.70800	113.97750	10.5680			228	284779.406	4821608.689	46.902
	L		762			762		229	Nueva LINEA		
		173	150.62000	109.23150	4.2250			230	284778.049	4821615.086	48.593
		174	165.80300	110.39300	4.0200			231	284777.151	4821614.663	48.551
		175	168.53100	112.30950	3.4940			232	284776.748	4821615.053	48.533
	L		86			86		233	Nueva LINEA		
		176	218.64600	112.31450	12.9680			234	284771.443	4821605.889	46.711
		177	222.45750	112.41300	15.5980			235	284769.830	4821603.714	46.182
		178	226.94300	111.64250	19.6050			236	284767.198	4821600.498	45.639
		179	227.61050	111.96550	22.5980			237	284765.785	4821597.932	44.982
	M		2.1500					238	Altura Mira		
		180	227.04650	111.18850	22.1940			239	284766.108	4821598.166	44.514
		181	226.26400	111.99450	19.5560			240	284767.413	4821600.477	44.731
		182	222.39100	111.18200	15.8010			241	284769.757	4821603.469	45.633
		183	218.16300	111.06100	13.0090			242	284771.511	4821605.778	46.145
	L		4			4		243	Nueva LINEA		
	M		1.3400					244	Altura Mira		
		184	233.89500	112.82100	13.3090			245	284768.499	4821606.840	46.542
		185	236.49500	111.72600	20.7530			246	284764.050	4821600.936	45.403
	L		40			40		247	Nueva LINEA		
		186	174.89800	116.25550	10.6830			248	284779.090	4821608.527	46.506
		187	204.94900	112.81550	10.4250			249	284774.325	4821607.889	47.120
	L		4			4		250	Nueva LINEA		
		188	182.48500	110.87800	7.4690			251	284777.119	4821610.988	47.934
	L		40			40		252	Nueva LINEA		
		189	356.22450	96.00000	6.5310			253	284770.988	4821623.111	49.614
		190	320.39100	99.95900	6.1590			254	284769.278	4821620.014	49.208
		191	289.66100	104.53300	9.6350			255	284765.638	4821616.522	48.519
		192	283.78900	104.29300	13.6190			256	284761.972	4821614.655	48.286
		193	282.36550	103.11900	20.6810			257	284755.252	4821612.432	48.191
		194	282.11600	102.41850	23.5000			258	284752.558	4821611.571	48.311
	M		2.1500					259	Altura Mira		
		195	281.03800	99.12050	28.7140			260	284747.673	4821609.658	48.791
		196	281.54000	98.69800	30.4690			261	284745.929	4821609.375	49.017
	M		1.3400					262	Altura Mira		
		197	283.71100	98.43400	32.5990			263	284743.592	4821609.838	50.006
		198	274.49100	98.40650	39.4200			264	284738.830	4821602.716	50.191
		199	269.25950	98.96250	45.3500			265	284734.955	4821597.035	49.943
		200	265.28600	99.43000	48.4720			266	284733.672	4821592.950	49.638
		201	259.93500	100.12700	49.5680			267	284735.039	4821588.913	49.105
		202	251.49300	101.58000	49.8790			268	284739.032	4821583.665	47.966
		203	244.47400	104.85250	49.8060			269	284743.168	4821580.058	45.411
	L		23			23		270	Nueva LINEA		
		204	256.24150	101.40800	48.9090			271	284737.316	4821587.063	48.123
		205	263.65250	100.51800	48.1910			272	284734.566	4821592.047	48.812
		206	269.58600	100.28000	43.4540			273	284736.526	4821598.110	49.013
		207	272.35150	99.92800	39.8000			274	284739.011	4821601.341	49.249
	L		40			40		275	Nueva LINEA		
		208	268.21200	100.73100	42.0430			276	284738.207	4821597.958	48.721
		209	261.03850	101.19100	47.2680			277	284736.430	4821590.938	48.320
		210	256.29900	101.38650	48.8600			278	284737.326	4821587.128	48.140
	L		60			60		279	Nueva LINEA		
		211	292.53650	98.60200	29.5670			280	284745.765	4821614.627	49.853
		212	291.99750	98.67650	28.0370			281	284747.312	4821614.570	49.787
		213	288.82700	98.84800	28.3340			282	284747.227	4821613.138	49.717
	L		60			60		283	Nueva LINEA		
		214	284.73050	98.42850	29.1300			284	284746.833	4821611.166	49.923
		215	281.74900	98.44300	29.0890			285	284747.226	4821609.861	49.915
		216	281.76400	98.44750	30.3910			286	284745.976	4821609.500	49.945
	L		742			742		287	Nueva LINEA		
		217	285.22900	97.74100	32.9480			288	284743.075	4821610.514	50.373
		218	291.79550	97.65100	32.3300			289	284743.081	4821613.934	50.397
		219	290.78500	97.41600	28.9490			290	284746.499	4821613.912	50.379
		220	283.56000	97.45400	29.6440			291	284746.482	4821610.520	50.389
	L		23			23		292	Nueva LINEA		

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	221	283.10650	101.51700	25.5120						
L	222	295.50850	99.55150	25.3400			293	284750.508	4821611.394	48.596
							294	284749.846	4821616.297	49.383
	223	295.68250	100.24700	23.1100	4		295	Nueva LINEA		
	224	300.49750	100.69650	16.6940			296	284752.066	4821616.516	49.114
	225	311.51550	100.44750	8.2690			297	284758.431	4821618.210	49.021
	226	319.52800	97.30700	9.6080			298	284766.990	4821619.563	49.146
	227	304.21350	98.60700	17.5060			299	284765.973	4821620.975	49.610
	228	302.04200	98.26450	22.8200			300	284757.660	4821619.237	49.587
	229	344.00750	94.87600	20.6170			301	284752.324	4821618.813	49.826
	230	326.60900	95.44050	26.9360			302	284759.296	4821631.180	50.862
	231	373.39650	92.32350	32.3040			303	284750.574	4821628.988	51.132
	232	357.80650	93.33750	32.3220			304	284762.121	4821647.387	53.090
	233	342.87400	93.57850	39.7690			305	284755.355	4821643.420	52.581
	234	334.43700	93.68550	47.9780			306	284744.206	4821642.763	53.209
	235	336.41400	93.18600	49.9080			307	284734.208	4821642.674	53.955
	236	352.08500	92.17050	39.4290			308	284733.411	4821644.951	54.536
	237	362.69850	91.51400	32.4820			309	284748.386	4821646.644	54.041
	238	374.03000	92.09250	32.7980			310	284757.332	4821644.903	53.521
	239	381.07500	91.48200	46.3310			311	284762.225	4821647.952	53.267
	240	361.05700	91.60750	49.4550			312	284761.629	4821661.980	55.385
	241	343.66450	92.68800	59.7580			313	284746.986	4821658.220	55.705
	242	346.39800	92.89750	72.2170			314	284729.200	4821655.690	56.053
	243	362.71900	91.72300	62.1210			315	284721.608	4821665.891	57.245
	244	377.33850	91.86250	58.0430			316	284741.100	4821669.419	57.258
	245	380.93500	91.97300	60.1710			317	284755.084	4821672.041	56.603
	246	375.71500	92.27250	61.2600			318	284757.537	4821675.116	56.771
	247	368.54350	92.21750	64.7380			319	284752.509	4821674.519	56.622
	248	365.90350	92.16000	68.1090			320	284744.674	4821674.654	57.099
	249	368.44950	91.62800	66.7690			321	284740.652	4821676.214	57.571
	250	373.49700	91.14600	64.3890			322	284743.670	4821676.314	57.960
	251	380.07150	90.98700	63.3070			323	284749.362	4821676.403	58.131
	252	383.66250	90.98350	62.0230			324	284755.849	4821677.708	58.137
	253	383.51550	91.80650	57.4130			325	284759.564	4821677.469	57.959
L					42		326	284760.568	4821673.118	56.573
M		1.3000			42		327	Nueva LINEA		
M	254	342.85500	93.65550	83.7840			328	Altura Mira		
		1.3400					329	284709.964	4821670.077	57.580
	255	341.93400	93.49350	78.5400			330	Altura Mira		
	256	340.98850	93.10800	71.1100			331	284713.360	4821665.921	57.218
	257	338.77950	92.97750	63.6230			332	284718.601	4821660.532	56.888
	258	334.80800	93.18950	56.2970			333	284723.277	4821654.276	56.208
	259	332.58800	93.61450	50.6910			334	284727.321	4821647.195	55.215
	260	322.89800	94.97800	43.5660			335	284731.163	4821642.796	54.280
	261	319.78250	95.44350	39.2630			336	284734.479	4821633.376	52.637
	262	305.76450	97.33100	32.8570			337	284737.842	4821630.062	52.012
	263	292.48250	98.58250	32.7040			338	284742.431	4821621.055	50.581
	264	288.62400	97.61250	33.1840			339	284742.653	4821614.234	49.932
							340	284742.488	4821612.192	50.448
B	30002	284775.123	4821618.072	48.971			341	BASE (coord de FICHERO DE BASES)		
M		1.3000					342	Altura Mira		
O	30006	253.09950	101.20750	56.3660			343	284733.364	4821580.227	48.177
L		166			166		344	Nueva LINEA		
M		1.3400					345	Altura Mira		
	265	391.79350	91.10800	53.1160			346	284768.385	4821670.237	56.599
	266	391.47800	91.18600	52.9470			347	284768.147	4821670.046	56.511
	267	392.48550	91.04400	48.4660			348	284769.493	4821665.727	56.000
	268	393.84750	90.97150	43.5560			349	284770.981	4821660.991	55.361
	269	394.93900	90.95350	43.6700			350	284771.709	4821661.166	55.389
B	30006	284733.364	4821580.227	48.177			351	BASE (coord de FICHERO DE BASES)		
H		1.4650	1.3000				352	Altura Aparato y Mira		
O	30002	53.10300	99.29100	56.3610			353	284775.123	4821618.072	48.971
L		630			630		354	Nueva LINEA		
M		2.1500					355	Altura Mira		
	270	81.91500	119.04700	23.1070			356	284754.562	4821586.407	40.681
	271	86.98100	118.38550	26.5410			357	284758.278	4821585.384	39.933
	272	88.75450	117.29050	31.4870			358	284763.227	4821585.546	39.045
	273	87.78950	116.25850	37.7290			359	284769.202	4821587.172	37.961
	274	85.86300	115.09900	48.4290			360	284779.285	4821590.577	36.113
	275	83.70900	113.16750	65.9760			361	284795.837	4821596.546	33.943
	276	83.49650	112.34050	72.4270			362	284802.066	4821598.419	33.541
M		2.5000					363	Altura Mira		
	277	85.72950	111.15600	83.7350			364	284813.760	4821598.524	32.544

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		1.3000								
	278	89.66450	111.11600	89.4370			365			
L		32			32		366	284820.288	4821594.430	32.805
	279	88.43050	111.04700	88.8190			367			
	280	85.59050	111.59100	84.5900			368	284819.414	4821596.005	33.007
	281	84.06150	112.12300	80.0340			369	284814.441	4821598.865	33.026
	282	83.14200	112.69550	74.7090			370	284809.508	4821599.668	33.194
	283	83.17650	113.48850	68.0650			371	284804.047	4821599.365	33.542
M		2.1500					372	284797.603	4821597.583	34.029
	284	84.64800	114.48300	52.9050			373			
	285	86.16200	115.39450	42.7420			374	284783.419	4821592.517	35.560
	286	87.58250	116.38200	34.6350			375	284773.889	4821589.161	37.257
	287	87.94400	117.14300	30.1660			376	284766.226	4821586.706	38.678
	288	83.60300	118.30500	24.5520			377	284761.925	4821585.690	39.467
	289	73.42050	117.46200	21.6780			378	284756.134	4821586.215	40.529
L		178			178		379	284752.442	4821588.681	41.620
	290	81.25600	118.65300	21.8790			380			
M		1.3400					381	284753.411	4821586.298	41.173
	291	86.25750	120.33450	24.7440			382			
	292	89.84950	119.06300	28.8950			383	284756.313	4821585.250	40.532
	293	89.17250	117.54200	35.9080			384	284760.625	4821584.600	39.778
	294	87.47250	116.32250	44.0870			385	284767.421	4821586.062	38.532
	295	86.10900	115.46900	51.4270			386	284775.190	4821588.549	37.122
	296	84.83300	114.39550	60.8710			387	284782.101	4821591.014	35.929
	297	83.99750	113.11300	70.4670			388	284791.015	4821594.204	34.655
	298	84.22850	112.41200	76.5520			389	284800.180	4821597.358	33.890
	299	85.08050	112.01550	80.4840			390	284806.179	4821598.615	33.472
	300	87.14450	111.54350	84.5720			391	284810.264	4821598.555	33.202
	301	89.24900	111.15050	88.3820			392	284814.865	4821596.879	33.051
	302	91.69700	111.07600	89.5970			393	284819.161	4821594.821	32.901
L		178			178		394	284820.863	4821591.670	32.793
	303	91.54550	111.63600	84.8540			395			
	304	90.44750	111.76650	83.5480			396	284816.074	4821591.244	32.879
	305	89.23950	112.01100	81.2790			397	284814.570	4821592.472	32.948
	306	88.12250	112.39650	77.3700			398	284812.068	4821593.627	33.058
	307	88.09250	113.06350	71.0100			399	284807.959	4821594.278	33.332
	308	89.38100	114.12450	62.4540			400	284801.676	4821593.128	33.833
	309	91.44150	115.19750	52.8910			401	284793.445	4821590.319	34.559
	310	93.88500	115.97600	44.8120			402	284784.294	4821587.095	35.796
	311	96.55650	116.88900	37.9800			403	284776.574	4821584.373	37.174
	312	98.86800	117.94600	32.7620			404	284769.962	4821582.194	38.344
	313	100.45550	120.27050	25.6380			405	284764.828	4821580.774	39.188
	314	94.72950	122.40600	21.0110			406	284757.712	4821580.043	40.276
L		630			630		407	284753.020	4821581.850	41.059
	315	97.23450	117.08600	38.4450			408			
	316	94.45600	116.23600	45.3210			409	284770.398	4821581.822	38.107
	317	91.89050	115.48350	53.3550			410	284777.054	4821584.024	36.869
	318	90.10150	114.48950	61.1340			411	284784.731	4821586.786	35.453
	319	88.78350	113.43300	69.3200			412	284792.206	4821589.427	34.508
	320	88.42200	112.98000	73.5300			413	284800.101	4821592.082	33.784
	321	88.50600	112.59000	77.4540			414	284804.188	4821593.223	33.414
	322	89.39750	112.31000	80.4390			415	284808.079	4821593.835	33.084
	323	90.47950	111.99600	82.8650			416	284811.216	4821593.283	32.845
M		1.6500					417	284813.858	4821592.323	32.780
	324	92.23000	111.52850	84.8180			418			
L		32			32		419	284816.178	4821590.352	32.717
M		1.5500					420			
	325	92.35850	111.58000	84.3660			421			
M		1.3400					422	284815.744	4821590.131	32.831
	326	91.02550	111.89900	82.8590			423			
	327	89.58850	112.25400	79.7950			424	284813.976	4821591.635	32.905
	328	88.88900	112.53900	76.5510			425	284810.645	4821592.949	33.038
	329	88.97950	113.02150	71.5670			426	284807.299	4821593.234	33.322
	330	89.72000	113.65800	65.9110			427	284802.396	4821592.270	33.766
	331	91.09400	114.46050	59.4180			428	284796.930	4821590.556	34.270
	332	93.13450	115.43550	51.5610			429	284790.693	4821588.277	34.921
	333	94.95350	115.87750	46.2120			430	284783.128	4821585.595	35.923
	334	98.18350	116.83150	38.3550			431	284778.007	4821583.756	36.896
L		40			40		432	284770.371	4821581.269	38.279
	335	54.82300	104.95100	36.3850			433			
	336	54.63600	106.14850	31.9150			434	284760.891	4821603.852	45.475
	337	57.20850	109.12200	26.8560			435	284757.409	4821600.986	45.224
	338	66.00700	112.79900	22.9100			436	284754.169	4821596.770	44.467
	339	74.81600	113.42850	23.3730			437	284752.692	4821591.645	43.727
							438	284754.457	4821589.026	43.408

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#	L Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		341 73.74150	112.26400	24.9860						
M		342 78.77250	111.54700	28.4340			439	284755.835	4821590.049	43.518
		2.1500					440	284759.795	4821589.370	43.173
M		344 81.46250	108.98100	30.2040			441	Altura Mira		
		1.3400					442	284762.012	4821588.801	43.245
		345 79.03750	108.62900	34.8960			443	Altura Mira		
		346 77.64050	108.44850	39.5970			444	284766.086	4821591.395	43.587
		347 77.64850	108.11650	49.0760			445	284770.222	4821593.716	43.063
M		1.5000					446	284779.078	4821596.951	42.062
		348 75.92450	106.25250	56.4900			447	Altura Mira		
M		1.3400					448	284785.617	4821600.964	42.603
		349 76.19950	106.09450	63.5980			449	Altura Mira		
		350 77.75400	106.88100	67.4330			450	284792.306	4821603.324	42.223
L		60			60		451	284796.360	4821603.155	41.028
M		2.1500					452	Nueva LINEA		
		351 81.36050	112.91050	28.8570			453	Altura Mira		
M		1.3400					454	284760.430	4821588.375	41.680
		352 83.37450	118.62400	28.2690			455	Altura Mira		
M		2.1500					456	284759.517	4821587.206	40.150
		353 80.41000	115.90500	26.8570			457	Altura Mira		
L		60			60		458	284758.168	4821588.099	40.852
M		1.3400					459	Nueva LINEA		
		354 78.90050	111.92100	27.7510			460	Altura Mira		
M		2.1500					461	284759.149	4821589.089	43.136
		355 80.76000	110.54650	26.4970			462	Altura Mira		
M		1.3400					463	284758.317	4821587.996	43.122
		356 83.24700	112.07000	27.5630			464	Altura Mira		
		357 81.16200	111.53750	28.8330			465	284759.504	4821587.258	43.107
L		720			720		466	284760.495	4821588.487	43.105
M		2.1500					467	Nueva LINEA		
		358 80.95000	109.76450	27.9240			468	Altura Mira		
L		30			30		469	284759.737	4821588.352	43.226
		359 285.47000	97.29550	54.8430			470	Nueva LINEA		
		360 285.45050	97.28950	50.4080			471	284679.987	4821567.850	49.821
		361 285.09250	97.03000	41.1210			472	284684.307	4821568.836	49.638
		362 284.32200	96.07300	28.8690			473	284693.405	4821570.712	49.410
		363 280.34900	95.44500	16.7000			474	284705.417	4821573.213	49.272
		364 270.70800	96.42350	8.8340			475	284717.492	4821575.173	48.686
		365 225.47850	105.03850	3.0510			476	284725.460	4821576.314	47.988
		366 129.99000	117.12950	4.6610			477	284732.178	4821577.426	47.251
		367 115.82750	114.53350	7.3070			478	284737.367	4821578.186	46.253
L		42			42		479	284740.262	4821578.473	45.838
M		1.3400					480	Nueva LINEA		
		368 13.94350	95.27450	35.3830			481	Altura Mira		
		369 5.32050	94.32000	44.2580			482	284741.044	4821614.666	50.926
		370 398.58600	93.49500	53.8520			483	284737.061	4821624.153	52.246
		371 390.77950	93.07650	69.9450			484	284732.195	4821633.785	53.795
		372 387.35950	93.18150	79.5290			485	284723.355	4821649.034	55.894
M		2.1500					486	284717.797	4821657.752	56.804
		373 383.54550	92.58150	89.6350			487	Altura Mira		
		374 382.65500	92.52900	92.6470			488	284710.642	4821666.305	57.914
L		92			92		489	284708.639	4821668.852	58.340
M		4.6500					490	Nueva LINEA		
		375 372.33450	90.53250	85.5330			491	Altura Mira		
M		1.3500					492	284697.780	4821656.967	57.666
		376 373.51600	92.81500	92.2040			493	Altura Mira		
L		4			4		494	284696.373	4821664.044	58.677
M		1.3400					495	Nueva LINEA		
		377 350.42250	92.45350	5.6790			496	Altura Mira		
		378 388.31800	93.28950	22.4130			497	284729.405	4821584.242	48.974
		379 371.23150	92.48900	25.4240			498	284729.305	4821602.143	50.660
		380 387.56700	92.86750	40.0260			499	284722.348	4821602.944	51.295
		381 367.29150	92.78200	38.2400			500	284725.660	4821619.249	52.777
		382 366.01500	92.93100	53.8150			501	284714.704	4821613.323	52.628
		383 391.26200	93.06250	60.5140			502	284706.168	4821626.279	54.266
M		2.1500					503	284725.156	4821639.819	54.884
		384 360.43350	92.45400	78.8580			504	Altura Mira		
M		1.3400					505	284687.795	4821643.906	56.818
		385 373.93850	92.86150	59.5050			506	Altura Mira		
L		42			42		507	284709.849	4821634.481	54.961
M		3.1500					508	Nueva LINEA		
		386 354.94800	92.35950	89.2240			509	Altura Mira		
		387 351.24150	92.36600	86.8400			510	284675.806	4821647.560	57.175
		388 343.57800	92.44350	85.1510			511	284673.625	4821642.391	56.881
							512	284667.881	4821633.714	56.576

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#	L Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		2.1500								
	389	337.09500	93.53150	85.1560			513	Altura Mira		
	390	330.45150	93.93350	83.7590			514	284662.645 4821626.871	56.130	
	391	324.26650	94.06250	75.6020			515	284659.359 4821618.635	55.462	
	392	315.48450	94.50700	66.5750			516	284663.505 4821608.257	54.533	
	393	308.31750	95.13000	61.7500			517	284668.996 4821596.226	53.230	
	394	291.82600	96.68900	55.5740			518	284672.323 4821588.272	52.211	
	395	288.57400	97.06900	54.7860			519	284678.320 4821573.142	50.381	
							520	284679.512 4821570.478	50.014	
B	30006	284733.364	4821580.227	48.177			521	BASE (coord de FICHERO DE BASES)		
M		1.3000					522	Altura Mira		
O	30007	88.61700	111.32050	86.9070			523	284817.542 4821595.408	32.972	
B	30008	284622.332	4821037.528	63.942			524	BASE (coord de FICHERO DE BASES)		
H		1.5780	0.1000				525	Altura Aparato y Mira		
O	30004	328.24750	109.92950	27.4150			526	284597.876 4821049.149	61.157	
L		40			40		527	Nueva LINEA		
M		2.1500					528	Altura Mira		
	396	14.76650	102.53400	558.1490			529	284750.472 4821580.310	41.180	
	397	13.62800	102.03000	553.3720			530	284739.765 4821578.003	45.748	
	398	12.70500	101.88400	550.5980			531	284731.376 4821576.969	47.098	
	399	11.77450	101.76600	547.5780			532	284722.930 4821575.567	48.202	
	400	9.79650	101.67350	541.6140			533	284705.257 4821572.562	49.153	
	401	8.39250	101.64900	536.4670			534	284692.764 4821569.165	49.495	
	402	7.06350	101.64450	533.3490			535	284681.306 4821567.423	49.613	
L		40			40		536	Nueva LINEA		
M		1.3000					537	Altura Mira		
	403	7.68900	102.13150	531.3360			538	284686.253 4821564.700	46.452	
	404	7.51850	102.12850	529.6770			539	284684.646 4821563.224	46.532	
	405	6.23350	102.00450	525.6470			540	284673.632 4821560.399	47.690	
	406	4.94650	101.92650	522.7360			541	284662.828 4821558.448	48.422	
	407	3.68250	101.90000	519.7750			542	284652.308 4821556.201	48.727	
	408	2.29400	101.86500	516.8990			543	284640.886 4821553.867	49.097	
	409	0.66450	101.86100	513.5120			544	284627.630 4821550.789	49.228	
	410	399.28850	101.82350	511.5060			545	284616.559 4821548.787	49.588	
	411	397.33150	101.70950	508.9680			546	284600.953 4821545.859	50.571	
	412	395.87900	101.51000	509.8700			547	284589.301 4821546.179	52.145	
	413	395.32500	101.45700	510.8690			548	284584.801 4821546.878	52.546	
	414	394.56050	101.48400	509.3640			549	284578.817 4821544.886	52.365	
	415	393.29850	101.52150	507.4150			550	284568.974 4821541.979	52.111	
	416	392.56900	101.58350	506.3570			551	284563.322 4821540.272	51.643	
	417	391.34000	101.59300	505.3550			552	284553.764 4821538.045	51.593	
	418	390.16300	101.59050	504.5260			553	284544.650 4821535.874	51.633	
	419	388.80650	101.53950	504.7380			554	284534.011 4821534.324	52.032	
	420	387.94650	101.49200	504.2250			555	284527.403 4821532.591	52.421	
	421	386.40500	101.35400	505.1510			556	284515.243 4821531.076	53.494	
	422	385.61250	101.29750	505.4310			557	284509.043 4821529.986	53.936	
	423	384.02100	101.27450	505.8610			558	284496.661 4821527.421	54.110	
	424	382.67500	101.23850	506.3000			559	284486.212 4821525.082	54.388	
	425	381.45900	101.24450	506.8420			560	284476.770 4821522.912	54.330	
	426	379.85400	101.27950	507.8340			561	284464.273 4821520.025	54.031	
	427	377.47500	101.33950	510.1490			562	284445.558 4821515.945	53.504	
	428	376.67300	101.36600	511.7850			563	284438.961 4821515.203	53.257	
	429	376.52400	101.33450	513.1900			564	284437.335 4821516.088	53.480	
	430	376.30800	101.35900	512.1430			565	284436.095 4821514.478	53.305	
	431	374.86500	101.24300	514.9950			566	284424.228 4821512.784	54.183	
	432	373.46200	101.11200	517.5100			567	284412.777 4821510.621	55.199	
	433	372.29450	101.03600	519.7200			568	284403.200 4821508.711	55.781	
	434	370.55800	100.97750	523.5740			569	284388.708 4821506.015	56.199	
	435	369.33950	100.91200	528.0230			570	284377.720 4821505.407	56.674	
	436	367.89100	100.84850	531.7310			571	284365.343 4821502.973	57.152	
	437	366.75450	100.84050	535.9580			572	284354.966 4821501.975	57.163	
	438	365.89950	100.77550	541.3710			573	284345.986 4821503.002	57.645	
	439	364.31400	100.92750	546.4740			574	284331.776 4821500.283	56.278	
	440	362.97750	100.94450	552.6270			575	284318.747 4821499.220	56.042	
	441	361.93650	100.93450	556.7170			576	284308.935 4821497.575	56.069	
	442	361.36300	100.91150	560.3410			577	284302.735 4821497.712	56.218	
	443	360.18800	100.86050	567.0770			578	284290.349 4821497.201	56.576	
	444	358.91500	100.84900	573.9010			579	284277.119 4821495.922	56.588	
	445	358.10250	100.81500	579.0590			580	284268.139 4821495.562	56.829	
	446	357.29350	100.79450	584.4580			581	284258.990 4821495.255	56.949	
	447	356.19750	100.77400	592.1290			582	284246.290 4821494.858	57.044	
	448	354.91350	100.75800	601.7990			583	284230.852 4821494.526	57.079	
	449	353.92300	100.73950	610.1510			584	284218.257 4821494.639	57.157	

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		450 352.54850	100.78600	621.6600						
		451 351.91200	100.80450	626.8490			585	284200.680	4821494.260	56.570
		452 351.36300	100.84100	631.1860			586	284192.579	4821493.797	56.325
		453 351.08900	100.91500	632.3880			587	284185.663	4821493.202	55.908
		454 350.77500	100.92800	634.4360			588	284182.877	4821492.175	55.157
		455 350.08650	100.96850	641.7120			589	284179.211	4821491.466	54.999
		456 349.36600	101.06350	648.1210			590	284169.194	4821491.794	54.485
		457 349.07600	101.14900	650.4200			591	284159.516	4821491.111	53.421
L		60			60		592	284155.817	4821490.589	52.509
		458 349.12650	101.14000	651.1150			593	Nueva LINEA		
		459 348.93950	101.15750	649.3460			594	284155.677	4821491.445	52.589
		460 348.79400	101.15100	651.0220			595	284155.620	4821488.840	52.442
		461 348.96600	101.15200	652.9450			596	284153.381	4821488.935	52.478
L		60			60		597	284153.221	4821491.538	52.433
M		462 349.08050	101.15000	650.6210			598	Nueva LINEA		
		2.1500					599	284155.705	4821490.762	52.496
		463 348.93750	101.19100	649.2740			600	Altura Mira		
		464 348.78550	101.18450	650.9870			601	284155.662	4821488.771	51.252
		465 348.95850	101.06900	652.9860			602	284153.351	4821488.844	51.286
L		720			720		603	284153.127	4821491.521	52.434
M		1.3000					604	Nueva LINEA		
L		466 348.87950	101.14500	651.4100			605	Altura Mira		
		23			23		606	284153.708	4821489.835	52.533
		467 348.60950	101.11850	656.6820			607	Nueva LINEA		
		468 349.11700	101.09250	657.5810			608	284147.982	4821491.491	52.711
		469 349.45350	101.05100	654.7960			609	284150.968	4821495.888	52.964
		470 349.76550	100.98600	650.0950			610	284155.379	4821496.426	53.439
		471 350.11450	100.95550	647.2780			611	284160.962	4821495.406	54.180
		472 351.03800	100.81250	642.7200			612	284165.464	4821495.936	54.533
L		40			40		613	284175.318	4821499.255	56.045
		473 350.92350	100.73950	645.6190			614	Nueva LINEA		
		474 349.97100	100.70650	655.0370			615	284172.462	4821500.536	56.748
L		86			86		616	284158.919	4821500.412	56.979
M		2.1500					617	Nueva LINEA		
		475 350.05700	100.37000	659.8550			618	Altura Mira		
		476 350.21100	100.59400	657.9910			619	284156.120	4821504.467	59.564
		477 350.63200	100.65350	653.2700			620	284158.577	4821504.259	57.259
M		4.1500					621	284164.983	4821503.941	56.692
		478 351.18500	100.49300	647.2620			622	Altura Mira		
L		30			30		623	284173.211	4821503.581	56.385
M		2.1500					624	Nueva LINEA		
		479 351.03700	100.67450	644.6930			625	Altura Mira		
M		1.3000					626	284173.927	4821500.677	56.567
		480 352.22500	100.72900	630.9740			627	Altura Mira		
		481 353.30650	100.71900	619.9340			628	284192.008	4821498.928	57.021
		482 354.52000	100.68800	609.3240			629	284207.298	4821497.972	57.244
		483 355.76100	100.71700	599.7700			630	284223.099	4821497.787	57.660
		484 356.52700	100.72150	594.2240			631	284238.267	4821498.142	57.489
		485 357.31300	100.74350	588.7730			632	284247.337	4821498.428	57.509
M		1.5900					633	284256.445	4821498.751	57.367
		486 358.23750	100.71750	582.7910			634	Altura Mira		
M		1.3000					635	284266.828	4821499.278	57.384
		487 359.04250	100.77500	577.6680			636	Altura Mira		
		488 360.05650	100.79400	571.4990			637	284275.772	4821499.633	57.210
M		2.1500					638	284286.800	4821500.099	57.114
		489 360.73600	100.73000	567.6510			639	Altura Mira		
		490 361.81700	100.76650	561.9360			640	284293.978	4821500.521	56.882
		491 363.02100	100.76200	556.1360			641	284305.115	4821501.310	56.625
M		1.3000					642	284317.125	4821502.378	56.734
		492 364.24650	100.84450	550.3990			643	Altura Mira		
		493 365.80050	100.76850	543.6280			644	284329.190	4821503.304	56.939
		494 367.09750	100.78200	538.4880			645	284344.107	4821504.511	57.677
		495 368.12950	100.84850	534.7420			646	284356.219	4821505.613	57.625
		496 369.13150	100.89200	531.4560			647	284365.643	4821506.573	57.112
		497 370.51050	100.92950	527.5540			648	284374.591	4821507.644	56.792
M		2.1500					649	284386.577	4821509.405	56.536
		498 371.58250	100.84900	524.9540			650	Altura Mira		
		499 373.01050	100.94050	521.8120			651	284395.675	4821510.972	56.388
		500 374.11900	101.00450	519.5380			652	284407.648	4821513.063	55.679
		501 375.22350	101.09250	517.3890			653	284416.863	4821514.634	55.191
		502 376.33500	101.21000	515.5750			654	284425.991	4821516.128	54.509
		503 377.45850	101.18150	513.9920			655	284435.041	4821517.777	53.589
		504 378.93700	101.12250	512.2050			656	284444.093	4821519.527	53.849
		505 380.48550	101.07450	510.4600			657	284455.912	4821521.854	54.356
							658	284468.265	4821524.101	54.772



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		506	381.22600	101.06050	509.8010						
		507	382.74000	101.10750	508.7450			659	284474.126	4821525.232	54.895
		508	383.90200	101.14000	508.2950			660	284486.050	4821527.595	54.537
		509	385.07150	101.15900	507.8590			661	284495.131	4821529.561	54.285
		510	386.18450	101.18900	507.5360			662	284504.293	4821531.388	54.142
		511	387.31200	101.27200	507.3810			663	284513.015	4821533.056	53.908
		512	388.08750	101.35300	507.5340			664	284521.841	4821534.750	53.250
		513	389.16000	101.43700	507.6910			665	284527.879	4821536.074	52.601
		514	390.30250	101.45550	508.1320			666	284536.267	4821537.735	51.928
		515	391.44650	101.46400	508.6830			667	284545.191	4821539.631	51.771
		516	392.96350	101.38050	509.6760			668	284554.152	4821541.481	51.690
		517	394.13150	101.32350	510.7180			669	284566.068	4821543.964	52.336
		518	394.87650	101.32050	511.4320			670	284575.271	4821545.958	52.770
		519	395.61950	101.33700	512.2650			671	284581.167	4821547.186	52.780
								672	284587.061	4821548.459	52.630
B		30008	284622.332	4821037.528	63.942						
H			1.5440	0.1000				673	BASE (coord de FICHERO DE BASES)		
O		30004	328.24650	109.84850	27.4120			674	Altura Aparato y Mira		
L			30			30		675	284597.876	4821049.149	61.157
M			1.3000					676	Nueva LINEA		
		520	395.60950	101.43750	512.3040			677	Altura Mira		
		521	397.32250	101.40200	514.5620			678	284586.987	4821548.476	52.636
		522	398.07950	101.38750	515.7560			679	284600.651	4821551.503	52.872
		523	398.85950	101.36400	516.9690			680	284606.728	4821552.921	52.964
		524	399.58550	101.40550	517.9420			681	284613.022	4821554.290	53.128
		525	0.71550	101.41000	519.8360			682	284618.909	4821555.328	52.770
		526	1.42550	101.41650	521.1510			683	284628.121	4821557.200	52.691
		527	2.14750	101.43400	522.6310			684	284633.945	4821558.416	52.609
		528	3.18000	101.46100	524.7370			685	284639.902	4821559.726	52.433
		529	3.91900	101.48000	526.3390			686	284648.473	4821561.470	52.163
M			2.1500					687	284654.651	4821562.727	51.969
		530	5.67150	101.46150	530.6660			688	Altura Mira		
M			1.3000					689	284669.480	4821565.950	51.173
L		531	6.89700	101.71000	533.6290			690	Altura Mira		
			23			23		691	284679.957	4821567.838	49.873
		532	7.75050	102.10150	532.1380			692	Nueva LINEA		
		533	6.69700	102.02600	529.7140			693	284686.869	4821565.441	46.642
		534	5.95650	101.97050	527.8270			694	284677.872	4821564.048	47.350
		535	5.18650	101.89950	526.1420			695	284671.569	4821562.795	47.869
		536	4.58350	101.86750	524.5100			696	284665.077	4821561.691	48.508
		537	4.42250	101.78150	525.3580			697	284659.994	4821560.453	48.820
		538	4.00850	101.70150	525.3110			698	284658.732	4821561.413	49.505
		539	4.01250	101.80850	523.7720			699	284655.322	4821561.609	50.166
		540	3.26450	101.87600	520.8620			700	284655.257	4821560.048	49.327
		541	2.15350	101.84150	519.2430			701	284648.966	4821557.478	48.857
		542	1.36150	101.86900	517.1810			702	284639.834	4821556.254	49.186
		543	0.12700	101.81350	515.2010			703	284633.335	4821554.364	49.022
		544	399.19000	101.77450	514.0190			704	284623.308	4821552.514	49.529
		545	397.62600	101.71350	512.0230			705	284615.743	4821551.301	49.878
L		546	395.63250	101.45650	511.5650			706	284603.199	4821549.003	50.424
			30			30		707	284587.222	4821547.748	52.500
		547	14.40050	102.56700	554.3280			708	Nueva LINEA		
		548	14.65300	102.74500	554.2870			709	284746.500	4821577.303	41.860
		549	15.23700	102.76050	554.4000			710	284748.616	4821576.704	40.314
		550	16.77950	102.91950	560.4210			711	284753.582	4821575.627	40.174
		551	19.54600	102.96750	572.2520			712	284768.130	4821578.037	38.515
		552	20.98550	103.00100	579.0170			713	284795.038	4821582.440	37.543
		553	21.33250	103.02250	580.4110			714	284809.497	4821584.776	36.924
		554	22.00350	103.02900	582.8070			715	284812.931	4821585.054	36.662
		555	22.31850	103.02850	584.5370			716	284819.501	4821585.264	36.489
M			2.1500					717	284822.802	4821585.905	36.412
		556	22.56700	102.96700	586.8760			718	Altura Mira		
		557	22.25350	102.93450	592.6310			719	284825.761	4821587.334	36.017
		558	22.12250	102.75150	594.8690			720	284825.025	4821593.744	36.051
		559	21.83400	102.63750	599.9170			721	284824.667	4821596.333	37.657
		560	21.59950	102.43750	603.6980			722	284823.843	4821602.037	38.512
M			3.1500					723	284823.044	4821606.409	40.251
L		561	21.29000	102.18700	608.5690			724	Altura Mira		
			86			86		725	284821.902	4821612.058	41.458
		562	21.29000	102.18700	608.5810			726	Nueva LINEA		
		563	21.30600	102.18150	609.0210			727	284821.906	4821612.070	41.458
								728	284822.195	4821612.437	41.495
B		30008	284622.332	4821037.528	63.942						
H			1.5730	0.1000				729	BASE (coord de FICHERO DE BASES)		
								730	Altura Aparato y Mira		

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
O		30004	328.25100	109.91750	27.4160						
L			86					731	284597.876	4821049.149	61.157
M			1.3000					732	Nueva LINEA		
		564	359.26200	100.11250	662.1150			733	Altura Mira		
		565	358.75500	100.16150	662.5100			734	284226.881	4821568.569	63.074
		566	358.68100	100.17700	662.3040			735	284222.427	4821565.717	62.563
L			91					736	284221.938	4821565.088	62.402
		568	358.38700	100.18600	661.0890			737	Nueva LINEA		
		569	358.38600	100.15600	658.1680			738	284220.245	4821562.268	62.312
		570	356.78150	100.21950	653.2680			739	284222.013	4821559.944	62.631
L			86					740	284212.053	4821545.875	61.991
M		571	356.49100	100.22800	652.6910			741	Nueva LINEA		
			1.5000					742	284210.103	4821543.550	61.905
L		572	356.41850	100.21400	652.5530			743	Altura Mira		
			92					744	284209.614	4821542.974	61.849
		573	356.41550	100.21000	652.5650			745	Nueva LINEA		
		574	355.91800	100.26900	651.4930			746	284209.582	4821542.964	61.890
L			86					747	284206.331	4821538.896	61.290
		575	355.90650	100.26550	651.5940			748	Nueva LINEA		
		576	354.85650	100.37500	649.5980			749	284206.176	4821538.899	61.326
		577	353.78650	100.48750	647.5020			750	284199.267	4821530.448	60.216
		578	352.92000	100.57450	647.2080			751	284192.439	4821521.695	59.084
		579	351.88550	100.67650	646.8100			752	284186.092	4821515.577	58.202
		580	351.69600	100.65150	650.0230			753	284178.662	4821508.128	57.169
L			86					754	284175.050	4821509.139	57.391
M			2.1500					755	Nueva LINEA		
		581	351.59600	100.59000	649.3460			756	Altura Mira		
		582	351.69700	100.58350	649.8930			757	284174.772	4821507.949	57.375
L			3					758	284175.142	4821509.056	57.436
		583	351.62250	100.64800	644.9410			759	Nueva LINEA		
		584	352.76550	100.53000	646.3760			760	284178.007	4821504.939	56.828
M			1.3000					761	284185.493	4821513.907	58.011
		585	353.96050	100.49150	647.5580			762	Altura Mira		
		586	355.21550	100.36000	650.0000			763	284193.727	4821522.910	59.243
		587	356.19250	100.26500	651.5920			764	284201.793	4821533.134	60.567
		588	357.13550	100.19950	653.5640			765	284208.433	4821540.762	61.531
		589	358.27050	100.15900	657.0660			766	284214.701	4821548.381	62.195
		590	358.98450	100.13050	660.4790			767	284221.738	4821558.343	62.602
		591	359.28950	100.11800	661.6590			768	284225.553	4821565.532	62.890
		592	359.49300	100.10300	663.1430			769	284227.383	4821568.374	63.017
L			3					770	284228.200	4821570.828	63.171
		593	359.68900	100.11750	657.7720			771	Nueva LINEA		
		594	358.53100	100.16350	653.0380			772	284233.022	4821567.709	63.029
		595	357.39950	100.20150	649.2010			773	284226.315	4821556.775	62.566
		596	356.01000	100.29250	646.5210			774	284219.530	4821546.645	62.188
		597	354.73100	100.43300	644.9080			775	284210.226	4821535.665	61.272
		598	353.54700	100.54550	643.6510			776	284201.360	4821526.058	59.856
		599	352.35150	100.66400	642.8950			777	284193.191	4821517.201	58.727
L		600	351.64750	100.73800	642.2940			778	284184.782	4821508.496	57.537
			42					779	284180.020	4821503.187	56.797
		601	355.31600	100.38150	645.3320			780	Nueva LINEA		
		602	356.97750	100.23850	647.5590			781	284205.591	4821530.232	60.375
		603	357.92750	100.19150	650.3070			782	284217.193	4821542.682	61.817
L		604	359.69800	100.12000	657.4940			783	284223.088	4821550.842	62.287
			86					784	284233.262	4821567.540	63.004
		605	359.70400	100.11850	657.7590			785	Nueva LINEA		
		606	359.93850	100.19900	646.6480			786	284233.155	4821567.790	63.019
		607	360.34250	100.32750	629.7350			787	284241.653	4821560.237	62.221
		608	360.53700	100.38750	622.1080			788	284254.851	4821548.904	61.002
		609	360.67050	100.46300	616.0810			789	284260.848	4821543.814	60.454
		610	361.34150	100.50550	613.8420			790	284265.405	4821539.655	59.759
M			2.1500					791	284271.997	4821541.548	59.366
		611	362.38150	100.52850	610.5240			792	Altura Mira		
		612	362.62950	100.51850	609.6410			793	284282.127	4821544.448	58.321
		613	363.91500	100.52500	604.2480			794	284284.593	4821545.035	58.424
M			1.3000					795	284297.806	4821547.201	58.406
		614	364.64400	100.51850	601.3890			796	Altura Mira		
		615	365.58350	100.49450	599.6580			797	284305.171	4821548.455	59.341
		616	367.35000	100.44900	598.5010			798	284313.636	4821551.598	59.581
		617	368.91400	100.33150	600.3830			799	284328.583	4821558.959	60.017
		618	369.57100	100.31250	601.4880			800	284340.595	4821567.685	61.112
M			4.8500					801	284345.572	4821571.547	61.286
		619	370.03450	99.85200	601.7890			802	Altura Mira		
M			4.6500					803	284349.328	4821573.821	62.088
								804	Altura Mira		

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#	L	Ba/Pt	L.AZIM / X	L. VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		620	370.13850	99.81900	605.5730			805	284348.494	4821577.640	
M		621	370.38150	100.11250	617.9720			806	284344.992	4821589.763	62.611
			1.3000					807	Altura Mira		59.798
		622	370.37800	100.05850	617.9630			808	284344.966	4821589.740	63.672
		623	370.38450	100.11400	617.9590			809	284345.024	4821589.764	63.134
		624	370.62550	100.09100	630.6440			810	284341.467	4821602.168	63.340
L		625	370.81750	100.08450	639.8090			811	284339.114	4821611.230	63.393
			42			42		812	Nueva LINEA		
		626	370.21650	100.28350	597.2670			813	284352.904	4821570.559	61.579
		627	369.92600	100.35400	585.5510			814	284355.809	4821558.890	60.982
M		628	369.27450	100.38050	576.0650			815	284354.892	4821547.732	60.794
			2.1500					816	Altura Mira		
		629	368.63750	100.33750	568.1510			817	284353.543	4821538.061	60.374
		630	367.66500	100.53100	554.6330			818	284352.511	4821522.076	58.759
		631	367.08850	100.60300	545.1240			819	284352.838	4821511.343	58.221
L		632	366.73250	100.65400	540.3290			820	284352.589	4821505.671	57.834
			4			4		821	Nueva LINEA		
		633	368.79900	100.31100	580.7770			822	284348.868	4821549.880	60.550
		634	367.45400	100.32550	585.2360			823	284335.924	4821547.877	60.395
		635	366.05950	100.39150	588.4440			824	284323.185	4821544.241	59.769
		636	363.80550	100.45500	594.9060			825	284301.958	4821538.775	59.136
		637	362.20800	100.59200	582.5560			826	284296.398	4821520.335	57.970
		638	364.20550	100.59000	572.5050			827	284317.064	4821521.820	58.081
		639	365.76500	100.54900	565.5280			828	284332.591	4821523.164	58.509
		640	367.29000	100.50900	560.3850			829	284346.833	4821525.489	58.905
		641	366.08950	100.61400	551.9040			830	284341.993	4821512.895	58.062
		642	365.77300	100.62750	547.2390			831	284342.023	4821507.488	57.991
		643	364.13750	100.63900	556.0670			832	284325.329	4821507.595	57.804
		644	363.23800	100.67850	561.4600			833	284315.774	4821507.866	57.402
		645	361.67550	100.71450	567.3330			834	284300.999	4821505.038	57.019
		646	360.82700	100.67450	572.8510			835	284291.609	4821505.222	57.317
		647	359.40600	100.65150	581.6280			836	284276.026	4821504.777	57.435
		648	358.00600	100.61750	590.5410			837	284260.370	4821504.093	57.660
		649	356.16700	100.52150	613.3430			838	284232.550	4821511.054	58.366
		650	355.14750	100.48950	622.4240			839	284219.133	4821511.671	58.605
		651	354.02300	100.46750	640.8130			840	284198.662	4821518.272	58.686
		652	356.50650	100.23350	644.2600			841	284215.549	4821537.113	61.029
		653	357.48450	100.29000	631.8980			842	284230.930	4821533.596	60.513
		654	358.48300	100.37400	621.1700			843	284245.273	4821531.145	59.741
		655	360.03250	100.48200	606.4590			844	284266.045	4821528.266	58.798
L		656	361.86250	100.51050	597.9730			845	284285.084	4821531.295	58.594
			42			42		846	Nueva LINEA		
		657	362.77400	100.43500	603.4760			847	284289.147	4821540.665	59.265
		658	362.05900	100.53300	591.9770			848	284289.977	4821527.370	58.432
		659	361.45450	100.62900	579.9520			849	284292.190	4821514.300	57.657
L		660	361.02450	100.71950	568.1320			850	284295.777	4821502.381	56.965
			741			741		851	Nueva LINEA		
M			1.3000					852	Altura Mira		
		662	357.29100	100.19200	654.3310			853	284215.473	4821549.976	62.270
		663	360.22000	99.99950	666.1880			854	284232.533	4821577.763	64.249
B	30008	284622.332	4821037.528		63.942			855	BASE (coord de FICHERO DE BASES)		
H		1.5540	1.3400					856	Altura Aparato y Mira		
O	30004	328.24350	107.01450		27.2520			857	284597.876	4821049.149	61.157
L		30				30		858	Nueva LINEA		
M		2.1500						859	Altura Mira		
		664	379.47450	100.31700	596.3400			860	284433.352	4821603.118	60.400
		665	379.63750	100.35650	594.8010			861	284435.285	4821602.137	60.038
M			4.6500					862	Altura Mira		
		666	379.59550	100.26550	584.1750			863	284438.260	4821591.933	58.432
		667	379.57600	100.31250	571.0080			864	284442.243	4821579.380	58.065
M			2.1500					865	Altura Mira		
		668	378.17900	100.52650	571.2340			866	284430.325	4821575.499	58.643
		669	375.81750	100.50600	571.6510			867	284410.351	4821568.397	58.824
		670	375.69300	100.49550	571.6630			868	284409.309	4821567.993	58.918
		671	374.88800	100.52500	572.0750			869	284402.461	4821565.636	58.650
M			4.6500					870	Altura Mira		
		672	374.90700	100.20250	584.9790			871	284397.656	4821577.631	59.008
		673	374.98000	100.16800	603.2410			872	284391.280	4821594.758	59.278
		674	375.01550	100.15150	616.3710			873	284386.569	4821607.018	59.404
L			86			86		874	Nueva LINEA		
		675	375.00650	100.14800	616.3870			875	284386.482	4821607.000	59.438
		676	374.99200	100.00600	617.7440			876	284385.832	4821608.201	60.813
L			86			86		877	Nueva LINEA		

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#	L Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		2.1500								
	677	374.67100	100.40700	616.8750			878			
	678	374.38800	100.42100	617.6870			879	284383.299	4821606.189	59.427
	679	374.27300	100.45900	619.7470			880	284380.456	4821605.867	59.286
	680	373.65850	100.49550	622.5870			881	284378.621	4821607.321	58.903
	681	373.27600	100.47300	624.8940			882	284371.991	4821607.540	58.526
	682	372.93700	100.45400	625.3500			883	284367.630	4821608.133	58.729
	683	372.40400	100.37300	626.7470			884	284364.407	4821607.186	58.912
	684	371.40100	100.31900	627.5290			885	284359.057	4821606.279	59.700
	685	371.40000	100.31850	627.5190			886	284349.789	4821602.767	60.227
	686	371.20700	100.37950	620.7120			887	284349.784	4821602.754	60.232
	687	371.19650	100.36250	615.7760			888	284351.048	4821595.800	59.671
M		1.7000					889	284353.114	4821591.317	59.865
	688	371.16250	100.37300	610.6620			890			
M		1.8400					891	284355.057	4821586.574	60.243
	689	371.09700	100.37350	606.0530			892			
M		3.1500					893	284356.514	4821582.157	60.125
	690	371.05150	100.27900	589.2140			894			
L		4					895	284363.519	4821566.844	59.787
M		2.1500					896			
	691	372.34100	100.37550	606.5940			897			
	692	373.81800	100.39350	605.8850			898	284366.978	4821587.738	59.792
	693	373.77650	100.48600	584.3990			899	284380.095	4821592.863	59.625
	694	371.63950	100.39800	587.1300			900	284388.339	4821573.012	58.907
	695	371.22700	100.33000	585.6460			901	284369.319	4821567.326	59.698
	696	373.32200	100.49400	572.3410			902	284366.538	4821564.344	60.333
	697	373.17600	100.67700	553.2850			903	284389.429	4821560.313	58.926
	698	372.94000	100.85950	535.2350			904	284396.031	4821542.376	57.482
	699	370.70500	100.79750	536.7870			905	284401.612	4821525.074	56.139
M		1.3000					906	284383.943	4821518.423	56.641
	700	368.81900	100.79350	544.1860			907			
	701	368.45300	100.70750	550.5200			908	284366.322	4821517.680	57.433
L		86			86		909	284360.550	4821521.779	58.098
M		2.1500					910			
	702	369.87550	100.30600	576.0730			911			
	703	369.69300	100.29050	572.6510			912	284359.776	4821550.276	60.599
	704	369.43000	100.33500	567.7720			913	284359.875	4821546.480	60.755
	705	369.09350	100.36400	565.2090			914	284360.029	4821541.063	60.380
	706	369.01500	100.34650	563.4530			915	284358.568	4821537.401	60.135
	707	369.04800	100.46100	561.1440			916	284358.773	4821535.524	60.300
	709	368.15750	100.52750	550.8460			917	284360.113	4821533.614	59.303
	710	367.91250	100.57900	547.2930			918	284358.141	4821520.858	58.802
	711	367.86750	100.69500	545.9840			919	284358.001	4821516.723	58.388
	712	367.60700	100.73950	541.4670			920	284358.300	4821515.382	57.405
	713	368.04600	100.78400	535.8870			921	284358.549	4821510.350	57.076
	714	368.29500	100.80100	534.5480			922	284364.503	4821507.262	56.766
	715	369.78150	100.83400	531.4050			923	284366.983	4821507.089	56.639
	716	371.80650	100.85800	527.4300			924	284379.454	4821510.125	56.403
	717	373.76650	100.95900	524.1550			925	284396.311	4821514.016	56.256
L		86			86		926	284412.402	4821517.737	55.469
	719	374.18450	100.96100	523.6410			927			
M		1.7000					928	284415.763	4821518.632	55.460
	720	375.08150	101.06400	522.7720			929			
M		1.5000					930	284422.899	4821520.680	55.077
	721	374.97350	101.09850	526.4100			931			
M		4.6500					932	284420.687	4821523.696	54.931
	722	374.65550	100.69950	530.3000			933			
	723	374.55050	100.64500	536.3250			934	284416.735	4821526.311	55.038
	724	374.56150	100.59400	541.7480			935	284413.582	4821531.525	55.431
	725	374.62100	100.57050	542.8280			936	284411.556	4821536.561	55.811
L		23			23		937	284411.603	4821537.754	56.001
	726	374.60450	100.56850	543.3210			938			
	727	374.56900	100.47650	548.3050			939	284411.282	4821538.154	56.014
	728	374.24600	100.44700	551.8140			940	284409.061	4821542.633	56.762
	729	374.29900	100.38450	553.9510			941	284405.119	4821544.772	56.992
	730	374.45650	100.32900	558.6910			942	284404.701	4821546.921	57.521
	731	374.33750	100.27050	568.1310			943	284404.109	4821551.824	57.979
	732	374.19050	100.25100	570.6370			944	284399.444	4821560.100	58.453
L		40			40		945	284397.249	4821561.888	58.618
M		1.3000					946			
	733	374.26050	100.58300	571.8590			947			
	734	374.57600	100.55050	566.5880			948	284397.353	4821563.240	58.981
	735	374.66400	100.60550	559.5060			949	284402.010	4821559.495	59.318
	736	374.48350	100.66750	552.0050			950	284405.478	4821553.267	58.895
							951	284406.945	4821545.739	58.428

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L		737 374.79350	100.76400	543.6420			952	284412.652	4821539.058	57.691
M		23			23		953	Nueva LINEA		
		2.1500					954	Altura Mira		
		739 374.76300	100.79150	542.0860			955	284413.013	4821537.520	56.626
		740 374.86450	100.65700	547.7210			956	284411.638	4821543.066	57.713
		741 374.65500	100.62450	553.7740			957	284407.628	4821547.952	57.934
		742 374.79350	100.56200	564.0390			958	284404.778	4821557.892	58.388
		743 374.39150	100.50400	571.5350			959	284398.559	4821563.409	58.843
		744 374.39000	100.50500	571.5280			960	284398.550	4821563.398	58.834
L		4			4		961	Nueva LINEA		
		745 375.66450	100.60500	562.7740			962	284412.390	4821559.643	58.019
		746 375.47100	100.71000	544.6250			963	284417.629	4821542.177	57.292
		747 375.73850	100.94000	527.8220			964	284426.011	4821527.414	55.571
		748 376.60600	101.09400	518.0520			965	284436.222	4821520.908	54.462
		749 377.43800	101.11550	517.2790			966	284442.824	4821522.572	54.300
		750 378.19900	100.83900	537.1690			967	284441.944	4821543.448	56.286
		751 378.47300	100.62650	561.2540			968	284436.126	4821566.959	57.844
L		42			42		969	Nueva LINEA		
M		4.1500					970	Altura Mira		
		752 379.40050	100.36750	569.5510			971	284441.214	4821577.498	58.080
M		1.5500					972	Altura Mira		
		753 379.20750	100.79000	545.2250			973	284447.394	4821553.876	57.200
		754 379.15950	100.84750	537.4060			974	284449.521	4821546.335	56.811
		755 378.58550	101.20750	513.0160			975	284453.007	4821521.692	54.233
L		23			23		976	Nueva LINEA		
M		2.1500					977	Altura Mira		
		756 374.64700	100.82150	542.5750			978	284411.914	4821537.585	56.364
		757 374.71900	100.89000	530.6180			979	284417.108	4821526.791	55.947
M		1.3000					980	Altura Mira		
		758 375.09350	101.04750	525.4440			981	284421.970	4821523.189	55.569
		759 375.13400	101.13900	521.4440			982	284423.807	4821519.606	54.885
L		92			92		983	Nueva LINEA		
M		4.6500					984	Altura Mira		
		760 375.65850	100.17100	599.3100			985	284398.699	4821593.542	59.260
		761 375.76200	100.16600	592.7790			986	284402.030	4821587.842	59.323
		762 375.82600	100.16100	586.7960			987	284404.802	4821582.506	59.385
		763 377.01350	100.16050	587.9020			988	284414.614	4821587.503	59.387
L		60			60		989	Nueva LINEA		
		764 378.00200	100.15650	579.9480			990	284425.872	4821583.179	59.442
		765 378.82200	100.14800	580.9730			991	284432.582	4821586.633	59.518
		766 378.71200	100.10900	587.6920			992	284429.428	4821592.652	59.863
L		166			166		993	Nueva LINEA		
M		1.8000					994	Altura Mira		
		767 378.52850	100.41850	588.9290			995	284427.423	4821593.249	59.847
M		3.1500					996	Altura Mira		
		768 378.75100	100.32950	581.5080			997	284431.796	4821586.921	59.359
M		2.1500					998	Altura Mira		
		769 378.03950	100.42400	580.6280			999	284425.968	4821583.924	59.501
		770 377.95250	100.40950	585.6630			1000	284423.512	4821588.392	59.601
		771 376.76850	100.44250	584.4240			1001	284413.744	4821583.440	59.306
		772 375.76250	100.45200	583.4690			1002	284405.499	4821579.188	59.226
		773 375.60150	100.44350	599.7490			1003	284398.042	4821593.737	59.192
		774 375.69800	100.44300	599.8210			1004	284398.858	4821594.143	59.196
		775 377.01050	100.43000	594.8210			1005	284412.147	4821593.955	59.352
		776 377.04150	100.42900	594.8760			1006	284412.399	4821594.109	59.361
		777 377.15050	100.44200	585.8660			1007	284416.517	4821586.032	59.301
		778 377.40300	100.42550	586.2420			1008	284418.563	4821587.197	59.450
		779 377.47150	100.41550	587.5830			1009	284418.690	4821588.674	59.534
		780 377.54450	100.41050	588.2470			1010	284419.093	4821589.531	59.576
M		1.0000					1011	Altura Mira		
		781 378.41550	100.47100	593.0650			1012	284425.062	4821596.800	60.131
M		2.1500					1013	Altura Mira		
		782 379.11550	100.29600	596.9800			1014	284429.959	4821602.650	60.594
L		166			166		1015	Nueva LINEA		
		783 379.15700	100.29000	596.0640			1016	284430.622	4821601.908	60.654
		784 377.90900	100.38450	589.1650			1017	284421.944	4821591.550	59.810
		785 377.91950	100.39000	588.1930			1018	284422.366	4821590.669	59.765
L		741			741		1019	Nueva LINEA		
		786 379.44150	100.28950	596.3190			1020	284433.065	4821603.001	60.658
L		642			642		1021	Nueva LINEA		
M		3.1500					1022	Altura Mira		
		787 379.41550	100.21500	596.5710			1023	284432.753	4821603.166	60.355
M		2.1500					1024	Altura Mira		
		788 379.17100	100.29500	595.7540			1025	284430.846	4821601.657	60.609

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L		642			642					
	789	379.00050	100.29050	600.0840			1026	Nueva LINEA		
	790	379.19700	100.19850	601.8060			1027	284427.933	4821605.239	60.631
	791	377.55600	100.20350	603.9340			1028	284429.132	4821607.470	61.493
	792	377.04800	100.19250	604.4860			1029	284413.772	4821604.298	61.440
L		23			23		1030	284409.061	4821603.132	61.542
	793	377.06100	100.42600	600.0620			1031	Nueva LINEA		
	794	377.80900	100.38700	598.6880			1032	284410.740	4821599.026	59.354
M		1.3000					1033	284417.821	4821600.184	59.730
M		2.1500					1034	Altura Mira		
	795	378.53700	100.42300	599.2090			1035	284424.096	4821602.976	60.238
L		4			4		1036	Altura Mira		
	797	375.03150	100.47550	573.1710			1037	284427.673	4821605.298	60.621
	798	377.34700	100.50300	572.3610			1038	Nueva LINEA		
	799	379.22650	100.52650	572.7060			1039	284403.231	4821567.146	59.087
	800	379.36600	100.35250	590.5360			1040	284422.918	4821574.002	58.845
L		642			642		1041	284438.731	4821579.980	58.631
M		1.3000					1042	284434.237	4821597.292	60.099
	801	379.50400	100.34450	597.5010			1043	Nueva LINEA		
	802	379.83900	100.32250	598.7250			1044	Altura Mira		
	803	380.95750	100.31300	598.6140			1045	284433.247	4821604.306	60.986
	804	382.00100	100.29950	598.6080			1046	284435.851	4821606.457	61.187
L		642			642		1047	284445.907	4821609.540	61.276
	805	382.43050	100.29450	598.7540			1048	284455.308	4821612.349	61.403
	806	383.97550	100.29950	599.2330			1049	Nueva LINEA		
	807	385.02400	100.29800	599.7230			1050	284459.150	4821613.604	61.450
M		4.5000					1051	284473.058	4821617.858	61.401
	808	385.44750	99.99950	600.1490			1052	284482.521	4821620.714	61.412
L		642			642		1053	Altura Mira		
M		3.1500					1054	284486.306	4821622.052	61.024
	809	385.30650	100.10800	603.8280			1055	Nueva LINEA		
M		2.1500					1056	Altura Mira		
	810	382.62800	100.21850	603.3220			1057	284484.170	4821625.330	61.346
	811	380.45950	100.22500	603.6380			1058	Altura Mira		
M		1.3000					1059	284459.706	4821618.509	61.299
	812	379.73850	100.31200	602.4410			1060	284439.919	4821612.934	61.237
L		642			642		1061	Altura Mira		
M		2.1500					1062	284433.790	4821609.691	61.267
	813	379.46400	100.23250	601.9820			1063	Nueva LINEA		
	814	379.23650	100.25350	601.6700			1064	Altura Mira		
L		760			760		1065	284431.469	4821608.441	61.171
	815	380.32450	100.21800	598.6690			1066	284429.530	4821607.459	60.974
	816	382.95050	100.20150	598.8640			1067	Nueva LINEA		
L		741			741		1068	284440.210	4821607.813	61.320
	817	382.85600	100.21450	598.9520			1069	284463.831	4821615.027	61.474
L		4			4		1070	Nueva LINEA		
M		1.3000					1071	284462.950	4821614.875	61.352
	818	382.06650	100.33600	593.1680			1072	Nueva LINEA		
	819	381.67950	100.29000	595.4660			1073	Altura Mira		
	820	380.77950	100.31450	594.0450			1074	284457.412	4821607.294	61.089
	821	380.32050	100.43450	588.3680			1075	284453.299	4821608.486	61.507
	822	380.86450	100.48050	584.2330			1076	284445.667	4821604.682	61.285
	823	381.44700	100.48650	584.2980			1077	284443.312	4821597.980	60.203
	824	382.12100	100.44300	585.7470			1078	284449.333	4821595.536	59.809
	825	381.72050	100.20300	591.3820			1079	284454.427	4821597.158	59.753
	826	381.25450	100.21800	590.7040			1080	284459.959	4821600.299	60.143
	827	380.95900	100.20250	590.6190			1081	284454.823	4821604.681	62.333
	828	379.82100	100.37350	596.3560			1082	284450.873	4821602.791	62.196
	829	379.92500	100.55350	581.7070			1083	284448.276	4821601.908	62.340
	830	380.01500	100.60600	571.0490			1084	284436.429	4821604.151	60.721
	831	380.84650	100.63950	563.8750			1085	284441.902	4821590.516	59.161
	832	380.80350	100.81700	538.0430			1086	284445.977	4821580.630	58.782
	833	383.06050	100.87800	534.4190			1087	284455.213	4821576.033	58.553
	834	383.04300	100.86000	535.8990			1088	284462.527	4821551.239	57.310
	835	383.91050	100.73150	565.8040			1089	284481.791	4821553.078	56.845
	836	383.02800	100.47800	586.9860			1090	284481.259	4821554.469	56.976
	837	386.69800	100.96900	572.7870			1091	284480.834	4821585.309	57.716
	838	386.73950	100.95150	569.7500			1092	284467.667	4821603.748	59.811
	839	387.10450	101.08850	550.1920			1093	284503.504	4821597.780	55.500
	840	387.84000	101.29450	516.6600			1094	284504.497	4821594.889	55.702
	841	387.81500	101.40650	512.1990			1095	284511.633	4821576.381	54.809
	842	386.95050	101.34450	511.5210			1096	284524.239	4821544.677	53.709
	843	383.92000	101.18550	514.4340			1097	284524.892	4821540.241	52.898
							1098	284518.210	4821538.218	53.411
							1099	284493.769	4821535.541	54.634

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		844	380.60350	101.12000	515.9790					
		845	378.88800	101.10000	520.1430		1100	284467.544	4821529.654	55.136
		846	379.11950	100.92000	521.7440		1101	284452.984	4821529.244	55.227
		847	379.44900	100.89700	528.3270		1102	284454.250	4821531.394	56.674
M			2.1500				1103	284454.719	4821538.502	56.770
		848	382.02050	100.82950	524.5180		1104	Altura Mira		
M			3.1500				1105	284476.146	4821541.211	56.530
		849	384.24850	100.74150	528.1060		1106	Altura Mira		
		850	385.41500	100.80400	533.0680		1107	284492.978	4821549.505	56.213
		851	386.19650	100.84450	535.4610		1108	284501.255	4821556.615	55.633
M			2.1500				1109	284507.122	4821560.394	55.262
		852	386.46850	100.83000	531.3020		1110	Altura Mira		
		853	385.81300	100.75700	530.0710		1111	284510.234	4821556.818	56.438
		854	385.30900	100.61000	523.2060		1112	284505.164	4821554.444	57.062
		855	384.61300	100.54900	522.8530		1113	284502.643	4821546.830	58.351
		856	384.11100	100.58600	522.6850		1114	284497.165	4821545.153	58.855
		857	383.66050	100.68600	522.5260		1115	284493.208	4821543.985	58.553
		858	382.33350	100.72050	521.1460		1116	284489.670	4821542.897	57.734
		859	381.13750	100.68600	521.5040		1117	284479.545	4821538.692	57.466
		860	380.77200	100.71900	522.7710		1118	284470.050	4821536.266	57.744
		861	380.44750	100.65350	524.2830		1119	284466.813	4821536.590	57.460
		862	379.73800	100.69650	524.5310		1120	284463.812	4821537.238	57.982
L			42				1121	284458.176	4821535.672	57.626
M			0.5000			42	1122	Nueva LINEA		
		863	387.34450	101.10750	571.3550		1123	Altura Mira		
M			2.1500				1124	284509.486	4821597.535	55.078
		864	387.74400	101.10100	562.3460		1125	Altura Mira		
M			4.6500				1126	284514.726	4821589.392	53.642
		865	387.98350	100.86000	556.1090		1127	Altura Mira		
L			642			642	1128	284517.968	4821583.699	53.354
		866	388.02200	100.86550	556.2120		1129	Nueva LINEA		
		867	388.01750	100.85900	553.0400		1130	284518.279	4821583.863	53.305
		868	387.98450	100.83350	545.4630		1131	284518.834	4821580.741	53.404
		869	387.96650	100.76900	541.5710		1132	284519.973	4821573.248	53.724
L			42			42	1133	284520.552	4821569.404	54.324
		870	387.93600	100.76950	540.4160		1134	Nueva LINEA		
		871	388.24600	100.93900	514.6750		1135	284520.515	4821568.221	54.333
		872	388.41700	101.08200	508.5780		1136	284527.830	4821543.391	53.272
L			42			42	1137	284530.296	4821537.630	52.220
M			2.1500				1138	Nueva LINEA		
		873	386.73900	100.86800	573.3160		1139	Altura Mira		
		874	384.98900	100.68300	576.8820		1140	284503.753	4821598.387	55.551
		875	384.89150	100.57900	586.9090		1141	284487.544	4821598.403	57.179
		876	383.56950	100.40500	589.9430		1142	284484.325	4821607.950	58.031
		877	382.51400	100.26600	592.7160		1143	284471.733	4821607.907	59.616
		878	382.46600	100.22000	598.2500		1144	284461.543	4821608.007	60.893
L			3			3	1145	284459.607	4821613.212	61.302
M			1.3000				1146	Nueva LINEA		
		879	394.04200	100.58950	598.0690		1147	Altura Mira		
		880	393.70500	100.68750	591.2240		1148	284566.413	4821632.946	58.682
		881	393.14800	100.82600	578.9860		1149	284563.939	4821625.821	57.834
		882	392.43950	100.95050	567.8040		1150	284560.111	4821613.106	56.706
		883	391.35000	101.01250	560.6730		1151	284555.036	4821601.261	55.740
		884	389.90150	101.14250	552.8590		1152	284546.366	4821592.954	55.300
							1153	284534.987	4821583.348	54.295
B	30008	284622.332	4821037.528	63.942			1154	BASE (coord de FICHERO DE BASES)		
H		1.6140	1.3000				1155	Altura Aparato y Mira		
O	30004	328.24700	107.25450	27.2610			1156	284597.876	4821049.149	61.157
L			3			3	1157	Nueva LINEA		
M			4.6500				1158	Altura Mira		
		885	390.35200	100.77100	546.9330		1159	284539.710	4821578.139	54.302
		886	390.73150	100.71250	553.9970		1160	284541.907	4821585.616	54.726
		887	392.24100	100.60850	561.8880		1161	284553.963	4821595.210	55.556
		888	393.07700	100.53350	570.0370		1162	284560.406	4821604.166	56.150
		889	393.64750	100.44600	576.7520		1163	284564.816	4821611.385	56.887
		890	394.23050	100.40150	577.1950		1164	284570.034	4821612.332	57.288
L			3			3	1165	Nueva LINEA		
		891	394.45550	100.38550	581.4000		1166	284571.699	4821616.703	57.408
		892	394.20600	100.35100	588.5730		1167	284568.777	4821623.645	57.684
		893	394.41450	100.22750	597.1220		1168	284569.946	4821632.338	58.796
L			30			30	1169	Nueva LINEA		
		894	394.54500	100.24550	594.8790		1170	284571.358	4821630.209	58.635
		895	394.34700	100.34700	587.1390		1171	284570.203	4821622.334	57.728
		896	394.54600	100.39450	581.3640		1172	284572.526	4821616.738	57.326

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	L		30			30					
		897	394.24050	100.40100	576.6930			1173	Nueva LINEA		
		898	393.58750	100.45500	575.0360			1174	284570.169	4821611.840	57.295
		899	392.98650	100.55600	566.2590			1175	284564.448	4821609.623	56.818
		900	392.37650	100.60950	560.8450			1176	284560.017	4821600.321	55.982
		901	390.87400	100.67300	551.5030			1177	284555.275	4821594.319	55.557
		902	390.44000	100.79200	547.0350			1178	284543.490	4821583.330	55.096
		903	390.38000	100.86150	541.0300			1179	284540.442	4821578.351	54.120
		904	390.36750	100.93700	535.0090			1180	284540.838	4821572.330	53.604
	L		642			642		1181	284541.642	4821566.354	53.051
		905	388.24500	100.72850	540.6570			1182	Nueva LINEA		
		906	389.00100	100.91100	536.5290			1183	284523.018	4821568.944	54.739
		907	389.89700	100.95950	534.3960			1184	284530.049	4821566.000	53.248
		908	389.88050	100.93100	536.6950			1185	284537.834	4821565.135	52.871
	L		92			92		1186	284537.332	4821567.386	53.077
		909	389.87650	100.89850	536.7510			1187	Nueva LINEA		
		910	389.63850	100.82700	544.2800			1188	284537.290	4821567.440	53.350
	L		642			642		1189	284534.087	4821574.555	53.855
		911	389.62050	100.83050	544.3640			1190	Nueva LINEA		
		912	389.55550	100.80200	548.2210			1191	284533.922	4821574.613	53.824
	L		642			642		1192	284532.742	4821578.330	54.020
		913	389.55450	100.79900	548.7860			1193	Nueva LINEA		
		914	389.53700	100.78150	550.3040			1194	284532.642	4821578.886	54.038
	L		642			642		1195	284532.244	4821580.361	54.171
		915	389.54050	100.77600	552.2650			1196	Nueva LINEA		
		916	389.52350	100.77450	553.3220			1197	284531.953	4821582.301	54.194
		917	388.90050	100.83900	555.2300			1198	284531.634	4821583.319	54.195
		918	388.60150	100.85400	555.5820			1199	284525.967	4821584.277	53.609
	L		4			4		1200	284523.338	4821584.163	53.474
		919	388.46900	100.94150	566.8920			1201	Nueva LINEA		
		920	389.12550	100.87200	566.5940			1202	284520.164	4821595.069	52.544
		921	389.98950	100.77150	559.8750			1203	284525.968	4821595.808	53.167
		922	390.76250	100.70550	563.2910			1204	284534.605	4821590.440	54.142
	L		92			92		1205	284540.829	4821594.851	54.685
	M		2.1500					1206	Nueva LINEA		
		923	389.23150	101.14050	542.1810			1207	Altura Mira		
	L		92			92		1208	284531.016	4821571.870	53.713
		924	388.96350	101.11200	541.8660			1209	Nueva LINEA		
	M		3.1500					1210	284528.821	4821571.175	53.961
		925	389.08950	100.97650	551.4320			1211	Altura Mira		
	M		4.1500					1212	284528.242	4821580.802	53.968
		926	388.31650	100.90750	552.0290			1213	Altura Mira		
	L		720			720		1214	284521.542	4821580.216	53.557
	M		4.6500					1215	Nueva LINEA		
		927	389.53000	100.77950	550.5120			1216	Altura Mira		
	L		740			740		1217	284532.150	4821580.556	54.185
		928	389.64050	100.82900	544.6600			1218	Nueva LINEA		
		929	389.62700	100.76900	552.4120			1219	284534.042	4821574.933	53.833
		930	391.55950	100.60150	563.4310			1220	284532.669	4821582.569	54.253
		931	392.09800	100.57600	566.5730			1221	284547.793	4821595.976	55.603
		932	393.27650	100.36000	586.7460			1222	284552.130	4821599.706	55.801
	M		4.3000					1223	284560.418	4821620.983	57.611
		933	394.61700	100.18000	597.6710			1224	Altura Mira		
	M		4.6500					1225	284571.792	4821633.050	59.590
		934	394.84600	100.09800	603.6020			1226	Altura Mira		
	L		742			742		1227	284573.454	4821639.141	60.001
	M		2.1500					1228	Nueva LINEA		
		935	394.64100	100.32700	595.2090			1229	Altura Mira		
		936	394.56150	100.33000	595.3970			1230	284572.224	4821630.610	60.372
		937	394.58250	100.33000	596.1230			1231	284571.468	4821630.735	60.343
	L		742			742		1232	284571.602	4821631.475	60.339
		938	394.53050	100.20800	609.3000			1233	Nueva LINEA		
		939	394.47900	100.20700	607.6900			1234	284569.984	4821644.566	61.440
		940	394.30500	100.21800	608.0980			1235	284569.633	4821642.919	61.454
		941	394.36150	100.21350	609.8460			1236	284567.942	4821643.179	61.348
	L		92			92		1237	284568.324	4821644.968	61.385
	M		4.6500					1238	Nueva LINEA		
		942	394.82600	100.11900	602.8140			1239	Altura Mira		
	M		2.1500					1240	284573.329	4821638.340	59.803
		943	394.64750	100.33150	595.9850			1241	Altura Mira		
	M		3.0000					1242	284572.220	4821631.389	60.326
		944	395.03050	100.23450	595.0540			1243	Altura Mira		
	L		744			744		1244	284575.866	4821630.755	60.387
	M		2.1500					1245	Nueva LINEA		
								1246	Altura Mira		



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
			945 394.62300	100.34250	596.6770						
L			40					1247	284571.933	4821632.058	60.219
M			1.3000			40		1248	Nueva LINEA		
			946 394.58600	100.35200	614.6320			1249	Altura Mira		
			947 393.93700	100.36300	602.4420			1250	284570.060	4821649.918	60.882
			948 391.60850	100.42400	600.2390			1251	284564.981	4821637.218	60.845
			949 390.31450	100.37200	608.5330			1252	284543.380	4821632.533	60.282
			950 389.19500	100.35800	613.7410			1253	284530.045	4821639.006	60.725
L			23			23		1254	284518.602	4821642.424	60.829
M			9.0000					1255	Nueva LINEA		
			951 389.19250	100.34000	611.2820			1256	Altura Mira		
M			6.0000					1257	284518.994	4821639.997	53.316
			952 391.61550	100.40500	597.8070			1258	Altura Mira		
M			3.0000					1259	284543.765	4821630.132	55.776
			953 393.45750	100.35900	596.0640			1260	Altura Mira		
L			23			23		1261	284561.120	4821630.425	59.218
M			2.1500					1262	Nueva LINEA		
			954 393.91900	100.46450	598.8120			1263	Altura Mira		
M			4.6500					1264	284565.158	4821633.582	59.061
			955 394.67000	100.04100	613.5740			1265	Altura Mira		
L			4			4		1266	284570.956	4821648.941	60.536
M			2.1500					1267	Nueva LINEA		
			956 394.28700	100.24200	612.8810			1268	Altura Mira		
			957 392.74400	100.21650	606.3830			1269	284567.341	4821647.927	61.101
			958 390.43450	100.23150	613.9330			1270	284553.304	4821639.960	61.368
			959 392.76250	100.18700	615.5670			1271	284530.369	4821644.524	61.198
L			92			92		1272	284552.436	4821649.105	61.623
M			5.6500					1273	Nueva LINEA		
			960 391.16250	100.57100	569.3950			1274	Altura Mira		
			961 391.13850	100.60050	578.3100			1275	284543.486	4821601.409	54.820
			962 389.91200	100.64400	578.5600			1276	284542.036	4821610.205	54.473
L			4			4		1277	284530.979	4821608.795	54.075
			963 390.38300	100.68550	583.7730			1278	Nueva LINEA		
			964 391.64350	100.57450	584.6380			1279	284534.424	4821614.605	53.643
L			92			92		1280	284545.752	4821617.099	54.653
			965 386.61750	99.87300	600.0230			1281	Nueva LINEA		
M			4.6500					1282	284497.065	4821624.322	61.127
			966 385.50000	99.96750	598.3030			1283	Altura Mira		
			967 385.58550	100.32200	593.5280			1284	284487.173	4821620.359	61.235
M			5.6500					1285	284489.030	4821615.879	57.927
			968 385.79600	100.36500	593.8490			1286	Altura Mira		
M			4.6500					1287	284490.872	4821616.628	56.524
			969 385.86800	100.38350	590.2130			1288	Altura Mira		
			970 386.74400	100.37250	591.6480			1289	284492.329	4821613.229	57.374
L			30			30		1290	284499.965	4821616.367	57.467
M			5.6500					1291	Nueva LINEA		
			971 387.05650	100.25750	589.5100			1292	Altura Mira		
			972 387.05450	100.26350	591.8830			1293	284503.239	4821614.872	57.544
M			4.6500					1294	284502.742	4821617.193	57.479
			973 386.95750	100.30700	597.0300			1295	Altura Mira		
			974 385.44900	99.95200	599.8280			1296	284500.811	4821622.047	58.050
			975 385.88350	99.94800	600.5180			1297	284486.360	4821621.735	61.382
L			30			30		1298	284490.199	4821623.323	61.420
			976 385.97800	99.94800	600.6150			1299	Nueva LINEA		
			977 386.79450	99.91800	602.0670			1300	284491.048	4821623.613	61.420
			978 386.85700	99.91350	598.9920			1301	284498.276	4821626.669	61.705
L			741			741		1302	284499.485	4821623.781	61.743
			979 386.88850	99.91800	601.5990			1303	Nueva LINEA		
			980 386.29200	99.93100	605.8300			1304	284499.242	4821626.393	61.705
L			30			30		1305	284492.825	4821629.347	61.587
			981 385.97000	99.94300	605.6480			1306	Nueva LINEA		
M			5.6500					1307	284489.873	4821628.507	61.472
			982 386.44450	99.82300	606.5380			1308	Altura Mira		
M			4.6500					1309	284494.094	4821630.346	61.617
			983 386.82750	99.91900	607.8540			1310	Altura Mira		
M			5.6500					1311	284497.392	4821632.397	61.704
			984 387.49150	99.79600	612.8750			1312	Altura Mira		
			985 387.64200	99.77800	615.0270			1313	284502.623	4821638.589	61.895
L			30			30		1314	284503.629	4821640.981	62.076
			986 387.64600	99.78200	616.9940			1315	Nueva LINEA		
			987 387.62700	99.76500	617.5230			1316	284503.287	4821642.919	62.044
			988 387.43300	99.73850	620.0720			1317	284503.004	4821643.402	62.211
L			92			92		1318	284500.659	4821645.534	62.478
M			4.6500					1319	Nueva LINEA		
								1320	Altura Mira		

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989			385.88700	99.94700	608.2460						
990			386.00550	99.87250	618.0060			1321	284488.531	4821630.869	61.437
991			384.26200	99.89850	609.8670			1322	284487.507	4821640.640	62.169
992			384.29550	99.88300	612.9850			1323	284473.035	4821628.831	61.903
M			5.6500					1324	284472.584	4821631.933	62.057
993			383.91500	99.77600	613.2500			1325	Altura Mira		
L			4			4		1326	284468.968	4821631.281	62.089
M			4.6500					1327	Nueva LINEA		
994			382.14400	99.94100	613.4000			1328	Altura Mira		
995			378.72700	99.87050	617.7600			1329	284452.470	4821626.933	61.499
996			377.21200	99.87550	619.7890			1330	284419.664	4821621.089	62.188
997			375.07550	99.82200	623.8720			1331	284405.124	4821618.002	62.143
998			372.75900	99.79550	633.1560			1332	284384.211	4821614.160	62.676
999			375.40850	99.78550	632.1280			1333	284359.538	4821613.561	62.966
1000			377.50800	99.86350	626.4320			1334	284384.120	4821623.044	63.062
L			91			91		1335	284405.526	4821625.238	62.275
1001			378.94950	99.93850	605.5800			1336	Nueva LINEA		
1002			378.64200	99.93050	605.7200			1337	284425.660	4821610.276	61.515
1003			378.59750	99.92850	602.9880			1338	284422.850	4821609.451	61.591
L			4			4		1339	284423.352	4821606.732	61.607
1004			380.39050	99.91550	608.2830			1340	Nueva LINEA		
1005			380.49450	99.92100	605.0960			1341	284437.854	4821617.156	61.738
1006			382.53750	99.91650	604.5530			1342	284439.763	4821614.418	61.681
1007			383.86400	99.91450	604.2760			1343	284458.514	4821619.456	61.723
1008			385.15500	99.95850	604.8930			1344	284470.743	4821622.475	61.742
L			3			3		1345	284482.493	4821626.029	61.324
M			1.6100					1346	Nueva LINEA		
1009			385.09850	100.27000	600.2070			1347	Altura Mira		
1010			383.57350	100.26500	599.9660			1348	284483.059	4821621.341	61.424
1011			382.44750	100.26950	599.9580			1349	284469.177	4821617.605	61.472
L			3			3		1350	284458.944	4821614.798	61.430
1012			381.97650	100.26350	599.8220			1351	Nueva LINEA		
1013			380.35450	100.28800	599.7300			1352	284454.715	4821613.443	61.487
1014			379.78200	100.29800	598.6330			1353	284440.126	4821608.897	61.257
L			3			3		1354	284435.338	4821606.193	61.167
1015			379.76500	100.29100	601.7460			1355	Nueva LINEA		
1016			381.82850	100.26700	602.4460			1356	284434.213	4821609.100	61.219
1017			383.91850	100.26850	602.3330			1357	284452.638	4821615.569	61.443
1018			385.12700	100.26600	603.0970			1358	284471.731	4821620.718	61.430
M			4.6500					1359	284482.651	4821624.215	61.450
1019			385.30400	99.94200	603.4370			1360	Altura Mira		
L			3			3		1361	284484.204	4821624.937	61.480
1020			385.99100	99.93950	605.1070			1362	Nueva LINEA		
1021			386.89850	99.91700	607.1950			1363	284490.186	4821628.023	61.505
1022			387.56950	99.89650	612.8970			1364	284498.190	4821631.890	61.722
1023			387.75250	99.87400	615.5250			1365	284503.355	4821638.759	61.927
L			3			3		1366	284504.581	4821641.678	62.149
M			5.6500					1367	Nueva LINEA		
1024			387.72600	99.77650	616.5940			1368	Altura Mira		
1025			387.71350	99.77100	619.3470			1369	284504.125	4821642.675	62.096
L			3			3		1370	284503.478	4821645.353	62.159
M			4.6500					1371	Nueva LINEA		
1026			388.80950	99.84500	618.4740			1372	Altura Mira		
1027			388.29850	99.86100	613.8220			1373	284514.111	4821646.452	62.437
1028			387.12550	99.91300	604.3030			1374	284510.078	4821640.991	62.271
L			40			40		1375	284500.891	4821629.496	61.756
1029			386.87450	99.92000	599.3890			1376	Nueva LINEA		
1030			387.15750	99.90200	600.3620			1377	284499.565	4821624.203	61.683
M			5.6500					1378	284501.979	4821625.696	61.854
M			387.72050	99.78450	603.8020			1379	Altura Mira		
M			4.6500					1380	284506.526	4821630.111	61.974
1032			388.47550	99.83650	614.0130			1381	Altura Mira		
1033			388.89950	99.83800	617.5500			1382	284511.722	4821641.488	62.508
L			760			760		1383	284515.133	4821645.694	62.503
1034			387.76900	99.88400	606.3490			1384	Nueva LINEA		
L			92			92		1385	284506.490	4821632.701	62.035
1035			394.75050	100.30950	592.5600			1386	Nueva LINEA		
1036			394.71350	100.37650	582.1800			1387	284573.463	4821628.057	58.048
1037			399.17250	100.45850	580.9650			1388	284573.982	4821617.681	57.485
L			91			91		1389	284614.718	4821618.423	56.744
M			2.1500					1390	Nueva LINEA		
1038			394.15100	100.69500	574.9720			1391	Altura Mira		
1039			394.22400	100.71750	572.0400			1392	284569.522	4821610.030	57.151
1040			393.93750	100.72800	571.4180			1393	284570.445	4821607.168	56.981
								1394	284567.941	4821606.309	56.893

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L		4			4					
M		4.6500					1395			
	1041	395.15000	100.43300	571.6060			1396			
	1042	396.82700	100.41550	576.9460			1397	284578.767	4821607.453	57.040
	1043	398.57100	100.45450	575.9460			1398	284593.527	4821613.737	57.162
M		5.6500					1399	284609.343	4821613.307	56.816
	1044	398.42850	100.43350	559.4270			1400			
M		4.6500					1401	284608.464	4821596.765	56.117
	1045	1.11750	100.67100	556.6320			1402			
	1046	3.12950	100.75350	557.8650			1403	284632.042	4821594.039	55.060
	1047	3.78100	100.85550	547.0810			1404	284649.682	4821594.678	54.324
	1048	4.66750	101.03100	532.7000			1405	284654.743	4821583.594	53.574
L		4			4		1406	284661.290	4821568.727	52.298
	1049	399.95250	100.93850	521.1640			1407			
	1050	397.69900	100.94950	517.2470			1408	284621.887	4821558.630	53.241
	1051	396.40250	100.94300	516.6970			1409	284603.587	4821554.373	53.209
	1052	395.77500	100.82350	526.3950			1410	284593.097	4821553.336	53.270
	1053	395.92450	100.63000	542.7510			1411	284587.370	4821562.712	54.115
L		4			4		1412	284587.554	4821579.132	55.554
	1055	396.07500	100.57650	540.5370			1413			
	1056	396.46650	100.43900	525.2890			1414	284588.971	4821577.007	56.030
	1057	397.03050	100.43750	525.0970			1415	284593.136	4821561.987	57.302
	1058	397.34950	100.47700	522.3090			1416	284597.792	4821562.034	57.316
	1059	397.41600	100.45000	525.7870			1417	284600.537	4821559.362	57.010
	1060	397.15000	100.53600	538.5180			1418	284600.941	4821562.862	57.208
	1061	397.67800	100.58150	544.2400			1419	284598.175	4821575.480	56.391
M		5.6500					1420	284602.428	4821581.376	55.954
	1062	399.15250	100.58400	544.8130			1421			
	1063	1.70950	100.66000	545.0840			1422	284615.021	4821582.264	54.928
M		4.6500					1423	284636.908	4821582.383	54.275
	1064	3.30050	100.35350	538.2640			1424			
	1065	1.34000	100.22300	534.9800			1425	284650.167	4821575.058	57.936
	1066	399.04450	100.16900	533.1650			1426	284633.534	4821572.382	59.051
	1067	399.23800	100.24100	528.3870			1427	284614.273	4821570.625	59.509
	1068	398.92800	100.20650	537.6090			1428	284615.951	4821565.868	58.924
	1069	397.87100	100.12700	537.7850			1429	284613.222	4821575.052	59.181
	1070	398.08000	100.04050	530.1410			1430	284604.293	4821575.004	59.852
L		42			42		1431	284606.289	4821567.421	60.587
	1071	5.40300	101.16550	530.1700			1432			
	1072	4.01500	100.84800	548.9420			1433	284667.209	4821565.701	51.219
L		44			44		1434	284656.867	4821585.329	53.614
	1073	3.23050	100.74200	561.2200			1435			
	1074	1.18850	100.64450	563.0420			1436	284650.736	4821597.985	54.386
	1075	0.66350	100.49250	583.2470			1437	284632.782	4821600.439	55.227
L		4			4		1438	284628.348	4821620.721	56.416
	1076	394.35450	100.80100	529.9050			1439			
	1077	392.77950	100.79100	535.2870			1440	284575.349	4821565.299	54.257
	1078	392.73550	100.98050	519.6810			1441	284561.698	4821569.323	54.274
	1079	391.01050	101.03050	525.7550			1442	284563.112	4821553.757	52.920
	1080	390.09850	100.98500	531.6060			1443	284548.293	4821557.969	52.414
	1081	389.99600	100.87600	542.4780			1444	284539.937	4821562.641	52.700
	1082	398.84250	100.21450	621.5770			1445	284537.387	4821573.257	53.461
	1083	1.40200	100.24000	626.3240			1446	284610.964	4821658.992	58.837
	1084	4.96150	100.28950	633.3160			1447	284636.056	4821663.691	58.571
	1085	5.81150	100.30050	635.6150			1448	284671.571	4821668.914	58.052
	1086	5.20600	100.38350	608.0780			1449	284680.205	4821670.490	57.932
	1087	4.36250	100.41550	594.3330			1450	284671.936	4821643.563	57.267
	1088	3.81350	100.39450	589.2950			1451	284662.962	4821630.452	57.050
	1089	2.43350	100.24450	592.0960			1452	284657.547	4821625.753	57.277
	1090	0.25600	100.21750	589.8140			1453	284644.895	4821629.184	58.655
	1091	398.85950	100.21550	592.3180			1454	284624.640	4821627.328	58.914
	1092	397.28150	100.16850	592.3770			1455	284611.658	4821629.741	58.924
	1093	395.74600	100.08700	592.4130			1456	284596.981	4821629.354	59.361
L		44			44		1457	284582.712	4821628.608	60.120
	1094	394.98850	100.05250	603.4120			1458			
	1095	395.45400	100.04100	616.6100			1459	284574.816	4821639.060	60.432
L		642			642		1460	284578.272	4821652.556	60.534
	1096	395.83850	100.03950	619.9270			1461			
	1097	396.14450	100.00700	621.1990			1462	284581.771	4821656.120	60.547
L		4			4		1463	284584.667	4821657.578	60.863
	1098	396.08200	100.02050	620.3800			1464			
	1099	397.05650	100.05850	616.3370			1465	284584.109	4821656.723	60.732
	1100	398.59250	100.09050	615.1270			1466	284593.779	4821653.197	60.365
	1101	398.65200	100.07700	621.0880			1467	284608.667	4821652.497	60.056
							1468	284609.115	4821658.469	60.180

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		1102	398.91100	100.21900	621.5340						
		1103	398.72700	100.19900	613.5470			1469	284611.634	4821658.960	58.793
		1104	397.93450	100.17550	611.7230			1470	284609.998	4821650.942	59.013
		1105	396.56650	100.10900	615.4100			1471	284602.423	4821648.919	59.244
		1106	3.92600	100.29650	606.9580			1472	284589.091	4821652.033	59.877
		1107	399.45250	100.19250	600.2830			1473	284659.673	4821643.324	58.103
		1108	396.07400	100.10350	601.8240			1474	284617.105	4821637.780	59.115
								1475	284585.177	4821638.197	59.951
B		30008	284622.332	4821037.528	63.942						
M			1.3000					1476	BASE (coord de FICHERO DE BASES)		
O		30004	328.24650	107.25100	27.2580			1477	Altura Mira		
L			642			642		1478	284597.876	4821049.149	61.157
M			4.6500					1479	Nueva LINEA		
		1109	359.91150	99.78400	658.4870			1480	Altura Mira		
		1110	362.28100	99.72750	667.7210			1481	284234.496	4821569.670	63.169
		1111	363.16750	99.71450	668.4420			1482	284249.410	4821591.390	63.793
M			5.6500					1483	284256.765	4821597.133	63.933
L		1112	364.56300	99.61400	669.6620			1484	Altura Mira		
M			30			30		1485	284268.477	4821606.042	63.996
			4.6500					1486	Nueva LINEA		
		1114	360.22250	99.76050	665.7420			1487	Altura Mira		
		1115	362.09900	99.72600	672.6140			1488	284232.856	4821577.441	63.440
M			5.6500					1489	284245.084	4821594.373	63.831
L		1116	363.05400	99.60300	672.7700			1490	Altura Mira		
			642			642		1491	284253.398	4821600.094	64.131
L		1118	364.17700	99.62350	675.3070			1492	Nueva LINEA		
L			741			741		1493	284262.024	4821608.661	63.930
M			4.6500					1494	Nueva LINEA		
L		1119	360.25450	99.75850	666.2160			1495	Altura Mira		
			642			642		1496	284232.851	4821578.021	63.462
		1120	359.37950	99.81700	705.2460			1497	Nueva LINEA		
		1121	358.50350	99.91200	694.3510			1498	284202.207	4821603.967	62.966
		1122	354.51900	99.92300	666.8600			1499	284201.061	4821589.474	61.898
		1123	351.18450	100.02000	647.7010			1500	284185.376	4821541.277	61.742
		1124	350.08450	99.98300	659.9510			1501	284172.896	4821503.914	60.730
L			742			742		1502	284156.254	4821504.752	61.111
		1125	352.62850	99.91900	659.6890			1503	Nueva LINEA		
		1126	352.66200	99.91950	658.2660			1504	284175.470	4821522.806	61.774
		1127	352.79100	99.91950	658.7920			1505	284176.688	4821521.993	61.767
L			92			92		1506	284177.316	4821523.283	61.768
		1128	351.58100	100.15550	675.1670			1507	Nueva LINEA		
		1129	352.91600	100.16500	688.0900			1508	284156.876	4821526.598	59.287
L			92			92		1509	284158.523	4821545.796	59.154
M			0.0000					1510	Nueva LINEA		
L		1130	346.19950	100.08250	753.2970			1511	Altura Mira		
L			92			92		1512	284058.796	4821537.399	64.617
L			91			91		1513	Nueva LINEA		
M			4.6500					1514	Nueva LINEA		
		1131	360.06300	99.84050	670.3220			1515	Altura Mira		
		1132	360.22150	99.75400	666.0730			1516	284228.814	4821580.173	62.615
		1133	359.37950	99.89100	667.5960			1517	284232.654	4821577.703	63.509
L			92			92		1518	284224.634	4821573.728	62.078
		1135	356.27850	99.93000	667.7110			1519	Nueva LINEA		
		1136	357.32000	99.92100	667.2680			1520	284198.925	4821553.817	61.670
		1137	357.32400	99.88500	657.8200			1521	284207.703	4821560.328	61.763
L			92			92		1522	284213.606	4821552.951	62.123
		1138	355.72900	99.92500	666.8150			1523	Nueva LINEA		
		1139	355.71000	99.94100	660.4750			1524	284195.058	4821549.456	61.721
L			4			4		1525	284198.969	4821544.462	61.547
		1140	355.20550	99.92900	667.2290			1526	Nueva LINEA		
		1141	353.84350	99.98350	656.9930			1527	284190.595	4821546.241	61.679
		1142	352.21700	100.16200	649.8170			1528	284186.600	4821529.228	61.105
L			86			86		1529	284179.077	4821512.687	59.280
		1143	351.71350	100.21700	650.1790			1530	Nueva LINEA		
		1144	353.21400	99.97750	658.8200			1531	284175.085	4821509.428	58.718
		1145	355.26450	99.90800	671.3010			1532	284180.534	4821526.251	61.167
		1146	357.43600	99.87850	685.9790			1533	284188.435	4821549.747	61.906
		1147	358.48450	99.84450	680.9360			1534	284197.056	4821575.763	62.246
		1148	359.73500	99.79600	695.4110			1535	284209.040	4821578.685	62.600
L			86			86		1536	284211.192	4821598.371	63.166
		1149	351.88350	100.22150	647.1600			1537	Nueva LINEA		
		1150	354.57350	99.99350	649.3200			1538	284178.418	4821508.424	58.682
		1151	355.89600	99.93400	651.6580			1539	284197.289	4821528.391	61.000
								1540	284206.084	4821538.913	61.610

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
B		30003	284578.510	4821657.433	60.909						
H			1.5920	1.3000				1541	BASE (coord de FICHERO DE BASES)		
O		30001	298.82700	100.95350	189.6110			1542	Altura Aparato y Mira		
D		30009	99.43750	99.39050	306.8140			1543	284765.883	4821686.323	58.372
L			176					1544	284274.862	4821613.592	64.145
		1152	99.52550	99.37600	303.1950		176	1545	Nueva LINEA		
		1153	99.23500	99.33800	285.5560			1546	284278.384	4821614.524	64.179
		1154	99.19450	99.32650	278.1300			1547	284296.034	4821615.731	64.176
L			176					1548	284303.406	4821616.641	64.148
		1155	99.18300	99.32600	276.8140		176	1549	Nueva LINEA		
		1156	99.19300	99.33350	253.3390			1550	284304.715	4821616.784	64.137
		1157	99.20400	99.34350	243.8090			1551	284327.928	4821620.271	63.857
L			176					1552	284337.348	4821621.710	63.719
		1158	99.23450	99.35550	240.2080		176	1553	Nueva LINEA		
		1159	99.21900	99.38250	212.4910			1554	284340.892	4821622.352	63.637
		1160	99.22250	99.36800	186.6280			1555	284368.317	4821626.348	63.265
		1161	99.20450	99.42100	160.9260			1556	284393.899	4821630.142	63.056
		1162	99.19900	99.41950	138.5240			1557	284419.329	4821633.855	62.666
		1163	99.18650	99.33350	116.2770			1558	284441.490	4821637.126	62.465
		1164	99.18250	99.18600	94.5450			1559	284463.500	4821640.365	62.419
		1165	99.06000	99.02000	77.6420			1560	284484.999	4821643.549	62.410
L			176					1561	284501.742	4821645.884	62.397
		1166	98.94850	98.70500	63.6810		176	1562	Nueva LINEA		
		1167	99.44250	98.74050	39.9480			1563	284515.568	4821647.851	62.497
		1168	98.80700	99.15100	20.3410			1564	284538.980	4821651.729	61.991
		1169	98.77350	100.39500	7.5370			1565	284558.410	4821654.327	61.472
L			176					1566	284571.062	4821656.278	61.154
		1170	283.31150	113.04250	1.3120		176	1567	Nueva LINEA		
		1171	285.83900	107.29000	2.3290			1568	284579.695	4821657.929	60.934
L			176					1569	284580.678	4821658.242	60.935
		1172	222.24100	102.53150	6.0420		176	1570	Nueva LINEA		
		1173	105.46400	98.69000	56.1080			1571	284579.797	4821663.331	60.961
L			176					1572	284522.481	4821654.701	62.356
		1174	104.73950	98.86600	64.6980		176	1573	Nueva LINEA		
		1175	102.70800	99.27250	104.1980			1574	284513.940	4821653.547	62.354
		1176	101.48200	99.42350	154.4390			1575	284474.761	4821647.859	62.392
		1177	101.13000	99.37850	189.6790			1576	284425.034	4821640.284	62.601
		1178	100.64400	99.35050	244.3340			1577	284390.134	4821635.329	63.055
		1180	100.50850	99.32000	275.5000			1578	284336.080	4821627.109	63.698
L			642					1579	284305.232	4821622.659	64.149
		1181	99.38550	99.37600	303.2920		642	1580	Nueva LINEA		
		1182	99.16600	99.33200	285.7020			1581	284278.383	4821613.850	64.180
L			642					1582	284295.935	4821615.404	64.204
M			1.8500					1583	Nueva LINEA		
		1183	98.94300	99.17350	133.2620			1584	Altura Mira		
		1185	98.89700	98.99450	105.9270			1585	284446.780	4821637.368	62.382
		1186	98.76300	98.59600	78.6660			1586	284473.816	4821641.409	62.325
L			740					1587	284500.794	4821645.370	62.386
M			2.1500					1588	Nueva LINEA		
		1187	98.05750	96.83600	28.5390			1589	Altura Mira		
		1188	97.75400	97.76800	40.3610			1590	284550.394	4821652.749	61.769
		1189	98.46400	97.60450	40.4700			1591	284538.755	4821650.615	61.766
L			741					1592	284538.577	4821651.043	61.874
		1190	97.92750	97.91650	63.2970		741	1593	Nueva LINEA		
L			740					1594	284516.129	4821646.910	62.422
		1191	98.61050	98.37150	78.0150			1595	Nueva LINEA		
		1192	98.90400	98.74700	97.2510			1596	284501.473	4821645.287	62.347
M			1.8000					1597	284482.396	4821642.733	62.266
		1193	98.99100	99.22550	133.5790			1598	Altura Mira		
		1194	99.08450	99.28850	169.7260			1599	284446.450	4821637.420	62.327
M			1.5000					1600	284410.675	4821632.250	62.600
		1195	99.10350	99.30450	173.1580			1601	Altura Mira		
		1196	99.09350	99.36300	206.1200			1602	284407.273	4821631.792	62.895
		1197	99.15800	99.28750	244.7100			1603	284374.680	4821626.879	63.066
L			760					1604	284336.485	4821621.404	63.744
M			2.1500					1605	Nueva LINEA		
		1198	106.89550	97.46250	47.9590			1606	Altura Mira		
L			721					1607	284530.606	4821656.176	62.262
M			1.3000					1608	Nueva LINEA		
		1199	151.80100	100.78500	7.3510			1609	Altura Mira		
								1610	284572.791	4821662.050	61.110
B		30009	284274.864	4821613.579	64.151			1611	BASE (coord de FICHERO DE BASES)		
H			1.6220	1.3000				1612	Altura Aparato y Mira		
O		30003	299.43800	100.74200	306.8200			1613	284578.510	4821657.433	60.909

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L		642			642					
	1200	299.80550	100.78550	172.2270			1614			
	1201	299.87200	100.81300	146.3760			1615	284445.447	4821637.211	62.350
	1202	300.11500	100.77250	108.5340			1616	284419.863	4821633.512	62.605
	1203	300.44950	100.84200	84.6100			1617	284382.433	4821627.949	63.157
	1204	300.73950	100.75700	66.6120			1618	284358.779	4821624.340	63.354
L		642			642		1619	284340.968	4821621.750	63.681
	1205	300.76350	100.77000	62.9200			1620			
	1206	301.82400	100.64050	37.8460			1621	284337.306	4821621.274	63.712
	1207	302.63350	100.62750	29.9860			1622	284312.495	4821617.581	64.092
L		642			642		1623	284304.718	4821616.371	64.177
	1208	302.68500	100.70350	28.8650			1624			
L		720			720		1625	284303.604	4821616.243	64.154
	1209	302.20050	100.67250	29.7180			1626			
L		91			91		1627	284304.431	4821616.547	64.159
M		2.1500					1628			
	1210	300.31850	100.25050	94.2730			1629			
	1211	300.29500	100.30300	96.5160			1630	284368.345	4821625.763	63.253
	1212	300.20850	100.28300	101.2820			1631	284370.564	4821626.088	63.164
B	30009	284274.864	4821613.579	64.151			1632	284375.272	4821626.842	63.173
M		1.3000					1633			
O	30010	116.71450	100.28250	228.5140			1634			
B	30010	284048.220	4821642.725	63.465			1635	284048.220	4821642.725	63.465
H		1.4730	1.3000				1636			
O	30009	316.71450	99.85900	228.5120			1637			
L		176			176		1638	284274.864	4821613.579	64.151
	1213	316.40250	99.85600	231.0580			1639			
	1214	316.79250	99.89200	216.8880			1640	284277.530	4821614.378	64.164
	1215	316.89850	99.93850	207.1230			1641	284263.300	4821614.798	64.009
L		176			176		1642	284253.572	4821615.714	63.841
	1216	314.83900	99.93950	204.9880			1643			
	1217	314.77450	99.86950	223.5240			1644	284252.214	4821622.580	63.836
	1218	314.66200	99.87450	228.7980			1645	284270.681	4821620.983	64.099
B	30010	284048.220	4821642.725	63.465			1646	284275.969	4821620.873	64.092
M		0.1000					1647			
B	30011	283901.435	4821629.250	61.953			1648			
H		1.5500	0.1000				1650			
O	30010	0.00050	99.97450	147.4030			1651			
M		1.0000					1652	284048.220	4821642.725	63.465
D	30051	138.10050	102.09100	209.8900			1653			
B	30505	0.000	0.000	0.000			1654	283799.590	4821445.857	55.613
H		1.5880	1.0000				1655			
O	30051	52.44900	101.02950	195.4530			1656			
L		30			30		1657	283799.604	4821445.854	55.620
M		1.3000					1658			
	1219	30.74000	100.18650	226.2690			1659			
	1220	30.85600	100.77950	221.4060			1660	-63.011	217.317	-0.371
M		2.1500					1661	-61.265	212.744	-2.420
	1221	31.04700	100.99200	215.3720			1662			
	1222	30.94350	101.05000	212.4230			1663	-58.971	207.114	-3.915
	1223	28.17550	100.75950	185.6670			1664	-58.495	204.180	-4.062
L		642			642		1665	-58.840	176.083	-2.775
	1224	28.08100	100.72450	185.3890			1666			
	1225	19.21950	99.65600	176.7340			1667	-59.013	175.733	-2.669
L		4			4		1668	-78.962	158.111	0.395
	1226	26.14650	100.53250	184.8390			1669			
	1227	27.58900	100.64350	207.5230			1670	-64.136	173.348	-2.106
	1228	29.31150	100.54650	222.9960			1671	-67.578	196.201	-2.657
	1229	25.18450	100.34000	227.8500			1672	-66.887	212.720	-2.473
	1230	25.02550	100.50600	202.6640			1673	-82.282	212.471	-1.775
	1231	24.59550	100.40700	184.6800			1674	-73.657	188.798	-2.170
L		23			23		1675	-68.282	171.589	-1.740
	1232	30.71100	100.72950	219.7200			1676			
	1233	25.68450	100.28800	235.4770			1677	-61.280	210.987	-3.077
B	30505	0.000	0.000	0.000			1678	-83.309	220.245	-1.624
H		1.6220	1.0000				1679			
O	30051	52.44950	101.04150	195.4540			1680			
L		30			30		1681	283799.604	4821445.854	55.620
							1682			

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M			2.1500								
		1234	28.01400	101.05350	184.7700			1683	Altura Mira		
M			4.6500					1684	-58.997	175.071	-3.583
		1235	19.27750	98.81850	175.0330			1685	Altura Mira		
M			2.1500					1686	-78.048	156.635	0.222
		1236	19.87650	99.74200	151.2900			1687	Altura Mira		
		1237	20.96350	99.49050	120.2530			1688	-66.195	136.039	0.087
		1238	16.17750	99.44250	97.3560			1689	-50.760	109.010	0.435
L			4					1690	-47.607	84.918	0.325
		1239	18.87650	99.59750	133.2280	4		1691	Nueva LINEA		
M			1.8000					1692	-60.166	118.866	0.315
		1240	18.79050	99.76850	157.1480			1693	Altura Mira		
L			4					1694	-71.159	140.113	0.395
M			4.0000					1695	Nueva LINEA		
		1241	23.43150	99.76850	177.0220			1696	Altura Mira		
		1242	21.39050	99.04200	145.1470			1697	-68.449	163.252	-1.732
L			40					1698	-60.379	131.974	-0.192
M			4.6900			40		1699	Nueva LINEA		
		1243	28.94050	100.27250	182.7090			1700	Altura Mira		
		1244	30.82150	100.37900	180.0550			1701	-55.821	173.971	-3.848
		1245	28.27300	99.96750	158.1380			1702	-49.921	172.993	-4.138
M			1.8000					1703	-49.890	150.062	-2.986
		1246	21.61000	99.80100	117.6980			1704	Altura Mira		
M			2.1500					1705	-48.597	107.196	0.191
		1247	20.20850	100.11000	105.5830			1706	Altura Mira		
		1248	19.52600	100.15350	96.2590			1707	-45.701	95.180	-0.710
		1249	12.42800	99.97700	71.0840			1708	-42.593	86.323	-0.759
		1250	4.69200	100.12250	56.9590			1709	-38.351	59.851	-0.502
		1251	396.56000	103.10400	49.1790			1710	-36.317	43.879	-0.637
		1252	392.00000	104.40900	45.2330			1711	-35.885	33.543	-2.925
L			99					1712	-35.086	28.376	-3.658
M			4.0000			99		1713	Nueva LINEA		
		1253	378.73350	102.64050	39.0120			1714	Altura Mira		
M			2.1500					1715	-34.723	17.711	-3.996
		1254	396.16450	102.50300	53.4270			1716	Altura Mira		
L			99					1717	-39.226	36.212	-2.628
		1255	398.76650	100.11600	59.2590	99		1718	Nueva LINEA		
		1256	388.48650	99.72600	51.6200			1719	-41.863	41.942	-0.636
		1257	368.59600	97.94350	38.8730			1720	-41.866	30.197	-0.306
L			30					1721	-36.972	11.942	0.728
		1258	365.16200	97.25600	37.1250	30		1722	Nueva LINEA		
		1259	362.21000	97.75150	42.9700			1723	-35.858	9.481	1.072
		1260	384.77550	99.07400	51.4410			1724	-41.981	9.041	0.989
		1261	6.23450	99.50500	74.0490			1725	-43.399	27.608	0.220
		1262	14.06500	99.11300	89.8400			1726	-45.816	58.170	0.048
		1263	14.51200	99.00450	91.4440			1727	-46.505	76.857	0.724
		1264	17.57500	99.67050	102.7960			1728	-46.783	78.557	0.902
		1265	20.96600	99.48750	120.2840			1729	-48.288	90.747	0.005
L			91					1730	-50.769	109.040	0.441
		1266	15.76250	99.59400	118.2200	91		1731	Nueva LINEA		
M			4.6900					1732	-58.482	102.739	0.227
		1267	18.59550	98.15850	118.0790			1733	Altura Mira		
		1268	18.82450	98.15550	122.0790			1734	-53.768	105.072	0.348
		1269	18.73650	98.15050	125.7490			1735	-55.198	108.830	0.470
		1270	18.29700	98.14550	125.7730			1736	-57.012	112.023	0.586
		1271	18.26500	98.22350	128.7570			1737	-57.795	111.648	0.596
L			642					1738	-59.226	114.271	0.526
		1272	14.37600	97.41550	96.0820	642		1739	Nueva LINEA		
		1273	15.84650	98.26450	120.1370			1740	-49.298	82.379	0.832
M			2.1500					1741	-59.271	104.447	0.208
		1274	15.76950	99.62200	113.8420			1742	Altura Mira		
		1275	14.92100	99.36400	98.0730			1743	-56.305	98.941	0.149
		1276	14.75400	99.13150	95.8220			1744	-49.636	84.579	0.452
L			4					1745	-48.711	82.507	0.780
M			4.6900			4		1746	Nueva LINEA		
		1277	7.51350	97.73750	94.1290			1747	Altura Mira		
		1278	11.23200	98.45100	113.2320			1748	-56.709	75.054	0.277
		1279	11.73100	99.08550	129.6970			1749	-62.852	94.146	-0.312
L			642					1750	-71.158	108.418	-1.204
M			2.1500			642		1751	Nueva LINEA		
		1280	14.44600	99.04750	90.9300			1752	Altura Mira		
		1281	6.80900	99.48350	93.7720			1753	-46.602	78.068	0.833
L			4					1754	-57.352	74.184	0.233
		1282	2.71150	99.55450	88.8790	4		1755	Nueva LINEA		
								1756	-58.770	66.672	0.094

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		1283 391.20900	99.90000	71.7720						
		1284 374.90500	98.79600	58.3970			1757	-56.362	44.436	-0.415
		1285 363.37550	97.74950	53.0470			1758	-53.512	23.355	0.577
L		30					1759	-51.613	12.108	1.347
		1286 362.01600	97.71650	43.0320	30		1760	Nueva LINEA		
		1287 358.73300	97.73000	53.0340			1761	-42.068	8.925	1.015
L		30					1762	-52.344	8.313	1.363
		1289 360.77150	97.46600	56.2360	30		1763	Nueva LINEA		
L		30					1764	-55.185	10.586	1.710
		1290 362.08400	97.38450	56.5240	30		1765	Nueva LINEA		
L		92					1766	-55.234	11.780	1.794
		1291 359.71200	97.78950	65.5570	92		1767	Nueva LINEA		
		1292 362.03850	97.38600	56.5660			1768	-64.541	11.270	1.748
		1293 371.64700	98.16550	59.5550			1769	-55.284	11.750	1.794
L		91					1770	-55.707	20.990	1.188
		1294 371.78650	98.16900	59.4280	91		1771	Nueva LINEA		
		1295 376.91100	99.09000	61.7630			1772	-55.542	21.067	1.181
		1296 379.69550	99.21550	63.2790			1773	-55.794	26.474	0.355
L		86					1774	-55.925	29.598	0.252
		1297 344.81800	97.93100	96.6200	86		1775	Nueva LINEA		
		1298 344.67250	97.52750	73.4210			1776	-96.389	-5.895	2.612
		1299 344.11050	97.11600	39.4260			1777	-73.218	-4.646	2.323
		1300 343.26600	96.83400	39.1950			1778	-39.283	-2.841	1.258
		1301 343.08450	93.61850	39.7390			1779	-39.004	-3.341	1.421
		1302 343.13650	93.55200	40.3510			1780	-39.385	-3.487	3.449
		1303 293.59400	95.17600	55.7340			1781	-39.991	-3.508	3.552
M		3.1500					1782	-36.018	-42.323	3.691
		1304 293.33150	96.66100	55.6400			1783	Altura Mira		
		1305 277.53100	99.07800	76.1470			1784	-35.836	-42.463	1.389
		1306 268.23200	99.41000	101.1290			1785	-33.308	-68.467	-0.425
L		30					1786	-30.531	-96.406	-0.590
		1307 268.17700	99.38050	101.2160	30		1787	Nueva LINEA		
M		2.1500					1788	-30.474	-96.514	-0.542
		1308 265.73950	99.66050	112.8120			1789	Altura Mira		
		1309 261.78650	100.21350	135.8650			1790	-29.824	-108.797	0.074
L		40					1791	-27.719	-133.007	-0.982
		1310 254.62200	100.93000	173.8690	40		1792	Nueva LINEA		
		1311 255.67250	101.32750	159.7940			1793	-16.131	-173.101	-3.066
M		0.4000					1794	-17.446	-158.804	-3.858
		1312 256.19050	102.17450	153.8310			1795	Altura Mira		
L		23					1796	-18.032	-152.680	-4.030
M		1.3000			23		1797	Nueva LINEA		
		1314 256.42350	101.55950	162.2670			1798	Altura Mira		
M		0.5500					1799	-19.616	-161.028	-3.651
		1315 256.63950	102.00900	156.8160			1800	Altura Mira		
L		40					1801	-19.481	-155.523	-3.874
M		2.1500			40		1802	Nueva LINEA		
		1316 257.73950	100.50600	140.8800			1803	Altura Mira		
M		1.3000					1804	-19.922	-139.460	-1.646
		1317 260.78050	100.36100	113.1310			1805	Altura Mira		
		1318 273.28850	100.30650	72.0440			1806	-21.327	-111.101	-0.319
		1319 284.38350	99.68000	55.1970			1807	-27.132	-66.739	-0.025
L		86					1808	-29.339	-46.753	0.600
M		2.1500			86		1809	Nueva LINEA		
		1321 293.51450	95.18200	55.7270			1810	Altura Mira		
		1322 294.03000	94.65600	50.8850			1811	-35.961	-42.363	3.686
		1323 295.34100	94.67100	51.1400			1812	-33.126	-38.389	3.739
		1324 306.35450	94.01450	44.3610			1813	-34.080	-37.889	3.748
		1325 320.72200	92.94650	38.3320			1814	-34.747	-27.262	3.637
		1326 337.15600	93.23900	38.1880			1815	-34.475	-16.213	3.710
L		40					1816	-37.350	-6.852	3.520
M		1.3000			40		1817	Nueva LINEA		
		1327 337.80450	97.70850	35.3180			1818	Altura Mira		
M		0.0000					1819	-34.779	-6.015	1.593
		1328 336.98150	100.07900	32.5910			1820	Altura Mira		
		1329 325.60950	99.00200	34.3930			1821	-32.040	-5.969	1.582
M		2.0000					1822	-32.150	-12.205	2.161
		1330 311.44200	95.72200	39.4940			1823	Altura Mira		
		1331 293.27250	96.73650	49.6060			1824	-32.845	-21.771	2.274
L		30					1825	-31.917	-37.890	2.164
M		1.3000			30		1826	Nueva LINEA		
		1332 333.09000	97.02650	35.3460			1827	Altura Mira		
		1333 338.47100	97.22500	35.8770			1828	-34.250	-8.574	1.972
		1334 344.04350	98.92700	36.0180			1829	-35.381	-5.738	1.885
							1830	-35.916	-2.635	0.929



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	L	1335	341.81300	98.02100	38.1080			1831	-37.866	-4.116	1.507
	M		741			741		1832	Nueva LINEA		
	L	1336	364.76950	97.47450	38.2680			1833	Altura Mira		
	M		762			762		1834	-37.027	9.546	0.990
	L	1337	343.57150	92.78950	38.8640			1835	Nueva LINEA		
	M		176			176		1836	Altura Mira		
	L	1338	346.99500	98.44950	63.0250			1837	-38.489	-3.111	1.325
	M		176			176		1838	Nueva LINEA		
	L	1339	347.33050	98.81200	35.9490			1839	Altura Mira		
	M		176			176		1840	-62.984	-1.694	1.857
	L	1340	352.74600	101.04450	9.3310			1841	-35.934	-0.777	0.993
	M		176			176		1842	-9.311	0.592	0.169
	L	1341	140.10700	103.65250	15.9860			1843	15.814	2.149	-0.595
	M		176			176		1844	43.799	3.477	-1.466
	L	1342	143.66350	102.58950	43.9730			1845	43.710	4.472	-1.405
	M		176			176		1846	Nueva LINEA		
	L	1343	142.21650	102.50100	43.9720			1847	15.356	10.814	-0.573
	M		176			176		1848	-13.435	9.147	0.265
	L	1344	109.64750	103.03250	18.8030			1849	-36.627	7.808	0.992
	M		176			176		1850	-46.887	6.854	1.315
	L	1345	386.75950	100.22150	16.2530			1851	-47.031	6.158	1.292
	M		176			176		1852	-71.773	4.651	1.998
	L	1346	362.07800	98.86100	37.4560			1853	Nueva LINEA		
	M		176			176		1854	-50.096	-0.846	1.489
	L	1347	357.94700	98.66600	47.3960			1855	-49.057	-0.782	1.455
	M		176			176		1856	-49.332	-1.798	1.489
	L	1348	356.99550	98.69900	47.4420			1857	Nueva LINEA		
	M		176			176		1858	-37.248	8.809	1.012
	L	1349	352.82650	98.51700	71.9430						
	M		176			176					
	L	1350	347.63100	98.51750	50.1170						
	M		176			176					
	L	1351	347.69150	98.53000	49.0760						
	M		176			176					
	L	1352	346.38700	98.49600	49.3790						
	M		176			176					
	L	1353	363.49100	98.85250	38.2820						
	M		176			176					
	B	30004	284597.876	4821049.149	61.157						
	H		1.5460	1.3000				1859	BASE (coord de FICHERO DE BASES)		
	O	30005	0.00050	98.32550	796.6190			1860	Altura Aparato y Mira		
	D	30051	110.64600	100.41500	891.4270			1861	284367.128	4820286.959	82.380
	D	30002	200.51150	101.32950	596.0150			1862	283799.607	4821445.835	55.644
	L		92			92		1863	284775.108	4821618.062	48.980
	M		0.0000			0		1864	Nueva LINEA		
	L	1354	133.81150	99.54850	655.1370			1865	Altura Mira		
	M		92			92		1866	284153.379	4821530.394	67.378
	L	1355	133.80900	99.81400	654.6730			1867	284153.666	4821530.046	64.644
	M		92			92		1868	Nueva LINEA		
	L	1356	134.75500	99.55000	664.3270			1869	284154.426	4821543.771	67.428
	M		92			92		1870	Nueva LINEA		
	L	1357	123.50050	99.62950	806.1830			1871	283962.555	4821545.398	67.438
	M		1.3000			1		1872	Altura Mira		
	L	1358	124.54250	99.53900	815.0610			1873	283963.862	4821561.303	67.349
	M		92			92					
	B	30051	283799.604	4821445.854	55.620			1874	BASE (coord de FICHERO DE BASES)		
	H		1.6120	1.3000				1875	Altura Aparato y Mira		
	O	30004	310.64600	99.63200	891.4260			1876	284597.876	4821049.149	61.157
	D	30011	213.55250	98.17650	209.8590			1877	283901.435	4821629.251	61.945
	L		30			30		1878	Nueva LINEA		
	M		4.6900			4		1879	Altura Mira		
	L	1359	218.23200	98.23100	152.5330			1880	283883.210	4821573.361	56.781
	M		30			30		1881	283869.206	4821548.891	55.302
	L	1360	219.10600	98.58750	124.3740			1882	Nueva LINEA		
	M		23			23		1883	283868.949	4821548.207	55.270
	L	1361	219.19350	98.59600	123.6630			1884	283860.224	4821529.054	53.621
	M		23			23		1885	283853.029	4821511.809	51.470
	L	1362	221.37050	99.33300	102.9490			1886	Nueva LINEA		
	M		23			23		1887	283855.905	4821514.000	51.680
	L	1363	224.62700	100.80450	84.8850			1888	283870.166	4821518.714	53.246
	M		40			40		1889	283911.193	4821515.111	54.970
	L	1365	225.24350	100.62100	88.4000			1890	283934.910	4821511.681	55.380
	M		40			40		1891	Altura Mira		
	L	1366	230.26500	99.55850	101.4310			1892	283945.266	4821510.564	55.850
	M		40			40		1893	Nueva LINEA		
	L	1367	245.92300	98.82400	131.3580			1894	Altura Mira		
	M		40			40		1895	283947.468	4821512.440	55.531
	L	1368	252.45900	98.80000	150.4970			1896	283918.273	4821510.870	53.995
	M		40			40		1897	Altura Mira		
	L	1369	254.67000	99.95350	159.3900			1898	283886.291	4821510.285	52.022
	M		30			30		1899	Altura Mira		
	L	1370	254.34800	98.82750	162.1940			1900	283852.963	4821511.510	51.476
	M		30			30		1901	283840.248	4821512.030	57.898
	L	1371	249.37650	99.31700	135.3210			1902	Nueva LINEA		
	M		30			30					
	L	1372	240.59350	102.18650	108.0740						
	M		30			30					
	L	1373	224.73000	100.80250	84.6120						
	M		30			30					
	L	1374	216.34800	95.61700	77.8460						
	M		40			40					

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
			1375 216.88800	95.71950	78.4870						
			1376 216.43150	96.20100	100.3210			1903	283841.151	4821512.233	57.816
			1377 215.84850	96.82500	148.7600			1904	283852.125	4821531.118	58.526
L			176					1905	283876.364	4821573.063	59.959
M			1.3000			176		1906	Nueva LINEA		
			1378 215.22250	98.19250	129.8390			1907	Altura Mira		
			1379 215.53500	98.23350	99.5870			1908	283865.561	4821557.630	59.619
			1380 215.99000	98.29700	78.6620			1909	283850.615	4821531.339	58.696
			1381 215.00300	98.28950	78.6380			1910	283840.379	4821513.089	58.036
			1382 214.88150	98.33350	63.8230			1911	283839.320	4821513.692	58.045
			1383 214.73700	98.46050	44.2480			1912	283831.733	4821500.974	57.603
L			176					1913	283821.793	4821484.121	57.002
			1384 205.21850	98.52150	42.4990	176		1914	Nueva LINEA		
			1385 208.17300	98.35500	60.6710			1915	283815.204	4821485.374	56.919
			1386 209.77250	98.28650	77.9990			1916	283824.466	4821501.174	57.500
			1387 208.83750	98.31000	78.1510			1917	283833.342	4821516.147	58.032
			1388 210.14200	98.27050	94.1830			1918	283832.370	4821516.773	58.007
			1389 211.62000	98.20300	128.0210			1919	283840.834	4821530.494	58.491
L			740					1920	283858.301	4821559.567	59.546
			1390 210.30800	98.42950	113.7560	740		1921	Nueva LINEA		
L			4					1922	283849.672	4821547.960	58.739
			1391 211.45250	98.22650	130.6760	4		1923	Nueva LINEA		
			1392 211.19000	98.23000	114.7030			1924	283859.213	4821562.084	59.573
			1393 209.98550	98.29500	93.0700			1925	283851.506	4821548.092	59.122
			1394 208.71050	98.34450	78.2470			1926	283840.141	4821529.594	58.425
L			4					1927	283832.269	4821516.927	57.967
			1395 210.00450	98.28500	83.7400	4		1928	Nueva LINEA		
			1396 208.91650	98.26150	67.6000			1929	283836.100	4821521.188	58.188
			1397 206.15500	98.35300	47.2410			1930	283828.022	4821507.162	57.778
L			4					1931	283817.587	4821489.521	57.154
			1398 214.76050	98.35600	44.2830	4		1932	Nueva LINEA		
			1399 214.89950	98.25850	63.6580			1933	283821.824	4821484.141	57.076
			1400 215.14900	98.26950	83.2680			1934	283831.664	4821500.821	57.673
L			4					1935	283841.822	4821517.589	58.196
			1401 216.18500	98.20850	77.7400	4		1936	Nueva LINEA		
			1402 215.62550	98.28100	96.6450			1937	283840.103	4821512.175	58.120
			1403 215.24300	98.22750	130.7530			1938	283849.227	4821528.745	58.542
L			4					1939	283866.063	4821558.397	59.573
M			4.6900			4		1940	Nueva LINEA		
			1404 220.98400	98.20400	156.8010			1941	Altura Mira		
			1405 231.33100	98.20050	168.6170			1942	283891.132	4821573.091	56.967
			1406 237.68300	98.13400	186.1000			1943	283918.872	4821564.949	57.309
			1407 247.52950	98.47650	163.9480			1944	283943.673	4821563.527	57.998
			1408 237.69700	98.46250	131.1860			1945	283940.999	4821528.742	56.467
			1409 228.26750	98.87400	110.1680			1946	283901.194	4821528.794	55.711
L			44					1947	283873.714	4821527.344	54.491
			1410 253.96350	98.85450	163.7820	44		1948	Nueva LINEA		
			1411 243.27100	98.05600	186.4200			1949	283948.508	4821513.993	55.491
			1412 237.70000	98.14400	200.9110			1950	283953.693	4821550.621	58.236
L			4					1951	283955.173	4821572.851	58.401
M			1.3000			4		1952	Nueva LINEA		
			1413 215.98100	98.20400	77.6730			1953	Altura Mira		
			1414 216.19150	98.23000	60.0730			1954	283839.855	4821512.247	58.123
			1415 216.50700	98.29250	44.1200			1955	283830.905	4821497.100	57.602
L			4					1956	283822.779	4821483.378	57.115
			1416 203.97800	98.31750	44.7630	4		1957	Nueva LINEA		
			1417 207.49750	98.21000	65.3820			1958	283815.219	4821487.788	57.115
			1418 208.73450	98.33550	78.1940			1959	283825.760	4821505.747	57.770
L			750					1960	283832.273	4821516.866	57.977
			1419 208.38900	98.17700	73.4890	750		1961	Nueva LINEA		
			1420 203.83850	98.27950	44.4110			1962	283829.943	4821512.754	58.036
L			750					1963	283815.005	4821487.491	57.132
			1421 216.48900	98.25050	43.5960	750		1964	Nueva LINEA		
			1422 215.99400	98.17400	72.9620			1965	283822.493	4821482.938	57.130
L			30					1966	283837.426	4821508.211	58.025
M			4.6900			30		1967	Nueva LINEA		
			1423 257.34650	96.72900	185.6190			1968	Altura Mira		
M			1.5000					1969	283972.025	4821513.926	62.077
			1424 257.79550	97.48000	189.8810			1970	Altura Mira		
M			4.6900					1971	283976.566	4821514.280	63.249
			1425 259.28350	96.70300	207.5470			1972	Altura Mira		
			1426 264.68550	97.49350	257.2520			1973	283994.616	4821516.066	63.289
			1427 268.44500	98.04050	311.4100			1974	284047.966	4821512.120	62.672
			1428 270.79000	98.41700	360.2900			1975	284104.555	4821508.205	62.132
								1976	284154.897	4821504.960	61.508

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L		86			86					
	1429	270.86700	98.45750	361.8260			1977	Nueva LINEA		
	1430	271.05650	98.50050	366.9900			1978	284156.488 4821504.781		61.317
L		40			40					
	1431	268.12300	98.48100	366.4350			1979	284161.764 4821504.545		61.194
	1432	267.53000	98.40650	351.6810			1980	Nueva LINEA		
	1433	260.12150	97.38800	251.1300			1981	284158.130 4821521.051		61.293
	1434	257.56800	97.16050	231.5660			1982	284142.998 4821521.223		61.352
L		40			40					
	1435	258.26700	97.02800	226.9280			1983	284036.783 4821527.738		62.847
	1436	252.31400	96.04650	181.6950			1984	284015.070 4821530.055		62.871
	1437	254.29050	96.04700	180.0230			1985	Nueva LINEA		
L		92			92					
	1438	246.68000	97.82250	185.4180			1986	284011.627 4821526.038		63.135
	1439	242.13750	98.04050	195.1550			1987	283962.492 4821525.559		63.820
L		4			4					
M		1.3000					1988	283963.367 4821519.777		63.715
	1440	109.05100	98.80050	206.2960			1989	Nueva LINEA		
	1441	101.66850	99.04350	199.0620			1990	283958.203 4821541.694		58.885
	1442	98.04800	99.14700	196.6600			1991	283958.933 4821558.383		58.550
L		4			4					
	1443	97.92000	99.12450	187.1660			1992	Nueva LINEA		
	1444	102.70750	98.99200	190.3020			1993	Altura Mira		
	1445	108.67250	98.85900	195.8940			1994	283612.656 4821532.989		59.822
L		750			750					
	1446	105.59400	98.89200	191.4640			1995	283610.682 4821508.501		58.925
	1447	97.58200	99.10850	185.6510			1996	283609.741 4821497.037		58.569
L		750			750					
	1448	104.47000	98.95300	202.7920			1997	Nueva LINEA		
L		750			750					
	1449	96.96700	99.16150	197.3570			1998	283618.811 4821494.202		58.508
L		60			60					
M		2.1500					1999	283620.000 4821508.682		58.947
	1450	106.11300	98.67900	191.6240			2000	283621.590 4821527.540		59.445
M		0.0000								
	1451	106.30500	99.36650	189.8460			2001	Nueva LINEA		
L		60			60					
M		2.1500					2002	283621.958 4821517.190		59.267
	1452	104.90950	98.76050	203.4370			2003	283620.022 4821492.858		58.534
M		1.8000					2004	Nueva LINEA		
	1453	104.76900	98.82300	204.6410			2005	283610.140 4821518.078		59.270
B	30051	283799.604	4821445.854	55.620			2006	Nueva LINEA		
H		1.6180	1.3000				2007	283608.223 4821493.976		58.534
O	30011	213.55250	98.17550	209.8600			2008	Nueva LINEA		
L		60			60					
	1453	216.17400	98.20400	77.2720			2009	Altura Mira		
	1454	216.13850	98.19450	74.9350			2010	283622.409 4821518.692		59.060
L		60			60					
	1455	208.53350	98.21050	77.0770			2011	Altura Mira		
	1456	208.31700	98.19950	74.6660			2012	283624.243 4821518.557		59.123
B	30008	284622.332	4821037.528	63.942			2013	Nueva LINEA		
H		1.5600	1.3000				2014	Altura Mira		
O	30002	88.13500	101.61350	600.4970			2015	283610.053 4821519.614		59.045
L		86			86					
M		2.1500					2016	Altura Mira		
	1457	88.89300	101.36550	593.8030			2017	283608.764 4821519.631		59.218
	1458	89.41700	101.36400	596.4710			2018	BASE (coord de FICHERO DE BASES)		
M		5.6900					2019	Altura Aparato y Mira		
	1459	89.24000	101.07300	601.4240			2020	283901.435 4821629.250		61.953
M		4.6900								
	1460	93.64450	101.22750	627.4570			2021	Nueva LINEA		
	1461	96.33050	101.17900	646.5510			2022	283839.848 4821511.782		58.118
	1462	98.71700	101.07350	665.3510			2023	283838.595 4821509.810		58.063
	1463	97.15850	100.77750	677.2970			2024	Nueva LINEA		
	1464	97.00800	100.76200	676.9390			2025	283831.584 4821515.949		58.105
	1465	96.98600	100.75300	677.6020			2026	283830.352 4821513.861		58.050
	1466	97.16450	100.74600	677.8510			2027	BASE (coord de FICHERO DE BASES)		
	1467	98.45650	100.97900	668.2490			2028	Altura Aparato y Mira		
	1468	98.80700	101.11850	665.7020			2029	284775.123 4821618.072		48.971
	1469	97.54600	101.19000	654.9670						
	1470	96.11850	101.36650	644.2040			2030	Nueva LINEA		
	1471	93.71350	101.37800	627.2900			2031	Altura Mira		
							2032	284780.255 4821609.799		50.640
							2033	284785.690 4821611.045		50.597
							2034	Altura Mira		
							2035	284785.453 4821616.314		49.700
							2036	Altura Mira		
							2037	284833.841 4821628.132		48.740
							2038	284865.756 4821636.379		48.866
							2039	284895.763 4821643.988		49.622
							2040	284885.494 4821661.547		52.571
							2041	284883.881 4821661.839		52.740
							2042	284883.922 4821662.542		52.828
							2043	284885.770 4821662.036		52.899
							2044	284894.465 4821647.763		50.565
							2045	284896.761 4821643.913		49.146
							2046	284880.461 4821639.353		48.598
							2047	284862.870 4821634.974		47.013
							2048	284834.414 4821627.717		47.261

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M	1472	89.38350 5.6900	101.30100	598.7100			2049	284786.004	4821613.296	48.601
L	1473	89.51900 4	101.42200	595.9430			2050	Altura Mira		
M		4.6900			4		2051	284786.460	4821610.264	46.525
L	1474	92.78250 86	101.17600	629.3190			2052	Nueva LINEA		
M					86		2053	Altura Mira		
L	1475	98.46700	101.01650	668.4130			2054	284826.432	4821632.712	49.214
M	1476	98.70300 2.1500	101.03250	670.4820			2055	Nueva LINEA		
L	1477	100.30250	101.37650	675.5400			2056	284894.630	4821647.862	50.169
M	1478	101.12550	101.40750	676.6040			2057	284897.740	4821648.732	49.968
L	1479	102.84200	101.47550	676.2520			2058	Altura Mira		
M	1480	103.41250 3.1500	101.57300	675.9820			2059	284915.171	4821646.115	48.777
L	1481	103.71600 2.1500	101.51500	675.8740			2060	284923.484	4821643.225	48.424
M							2061	284939.531	4821634.561	47.710
L	1482	103.71000	101.56850	676.2550			2062	284944.728	4821631.435	46.681
M	1483	102.83750	101.46400	676.4920			2063	Altura Mira		
L	1484	101.12200	101.35300	676.8840			2064	284947.511	4821629.810	46.299
M	1485	100.29000	101.31650	675.8070			2065	Altura Mira		
L	1486	98.68100 4	101.17400	671.0510			2066	284947.631	4821630.162	46.722
M	1487	98.77750	101.15600	674.0660			2067	284939.603	4821634.797	47.827
L	1488	100.10900	101.28850	694.3400			2068	284923.581	4821643.503	48.998
M	1489	102.22350	101.45200	711.2360			2069	284915.173	4821646.425	49.408
L	1490	103.40500 4	101.55050	700.3240			2070	284897.751	4821649.322	51.007
M	1491	102.35700 4	101.48500	673.5040			2071	Nueva LINEA		
L	1492	102.12050	101.46250	673.1470			2072	284899.922	4821651.654	51.143
M	1493	101.82650	101.44450	669.7820			2073	284921.426	4821663.982	49.331
L	1494	101.56250	101.41000	672.9440			2074	284949.827	4821668.663	47.165
M	1495	101.80450 742	101.42100	675.8500			2075	284956.268	4821652.866	46.329
L	1496	101.85000	101.38200	675.2330			2076	Nueva LINEA		
M	1497	102.05150	101.38150	672.8960			2077	284933.702	4821634.522	47.673
L	1498	101.82200	101.39200	670.5980			2078	Nueva LINEA		
M	1499	101.60800 4	101.37850	673.0830			2079	284931.320	4821635.362	47.919
L	1500	101.03550	101.42450	672.6570			2080	284927.027	4821633.791	48.185
M	1501	99.81900	101.42200	669.3450			2081	284925.983	4821637.878	48.479
L	1502	99.04800 30	101.37950	668.8190			2082	284929.583	4821639.304	48.298
M	1503	98.83050	101.36150	665.6990			2083	Nueva LINEA		
L	1504	100.48000	101.46500	667.6360			2084	284929.736	4821638.543	48.725
M	1505	101.90250	101.45500	669.5660			2085	284930.566	4821635.491	48.781
L	1506	103.33150	101.58350	672.4700			2086	284927.362	4821634.550	48.720
M	1507	104.29250	101.63000	677.7280			2087	284926.478	4821637.791	48.808
L	1508	104.84400	101.69800	681.1630			2088	Nueva LINEA		
M	1509	106.00250	101.93700	688.6680			2089	284920.874	4821640.111	48.332
L	1510	106.28700	102.01650	691.4190			2090	284907.893	4821642.711	48.432
M	1511	107.06000	102.33850	699.8390			2091	284900.328	4821645.656	48.890
L	1512	107.90600	102.39800	709.0050			2092	Nueva LINEA		
M	1513	109.00300 1.5000	102.48500	720.5960			2093	284896.963	4821643.764	49.145
L	1515	109.35600 86	102.59800	724.2550			2094	284913.411	4821638.167	48.019
M		2.1500			86		2095	284927.639	4821633.233	48.080
L	1517	109.46900	102.53750	725.4370			2096	284942.299	4821628.755	46.657
M	1518	108.48300	102.39700	725.2970			2097	284953.753	4821628.431	46.032
L	1519	107.62000 4.6900	102.33150	725.0800			2098	284960.555	4821628.502	45.217
M	1520	106.07150 40	102.11300	725.5860			2099	284975.060	4821628.629	42.433
L		2.1500			40		2100	284979.104	4821629.378	41.486
M	1521	106.95700	102.24000	709.4460			2101	284990.632	4821632.054	37.683
L	1522	105.85900	101.97700	708.1630			2102	285003.413	4821634.809	36.685
M		3.1500					2103	285020.025	4821637.778	35.265
L	1523	104.64300	101.70000	713.0990			2104	Altura Mira		
M	1524	103.68250 40	101.56250	717.3650			2105	285025.355	4821638.558	34.488
L		1.6000			40		2106	Nueva LINEA		
M	1526	109.48050	102.57900	725.0360			2107	Altura Mira		
L							2108	285027.096	4821638.844	34.479
M							2109	285017.692	4821644.976	36.084
L							2110	285009.320	4821650.119	36.838
M							2111	Altura Mira		
L							2112	284994.611	4821659.859	36.768
M							2113	Nueva LINEA		
L							2114	Altura Mira		
M							2115	284994.733	4821640.852	38.428
L							2116	284983.667	4821646.166	41.397
M							2117	Altura Mira		
L							2118	284974.457	4821657.324	43.345
M							2119	284967.136	4821666.340	44.781
L							2120	Nueva LINEA		
M							2121	Altura Mira		
L							2122	285026.970	4821638.423	34.573

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M			2.1500								
		1527	107.81250	102.40200	707.3500			2123	Altura Mira		
		1528	107.01100	102.33650	698.3290			2124	285001.647	4821633.971	36.703
		1529	105.99600	101.93500	687.9360			2125	284989.381	4821631.055	37.760
		1530	103.54700	101.65350	665.6410			2126	284974.625	4821628.037	42.477
		1531	102.54200	101.71700	656.9110			2127	284941.020	4821621.659	46.094
		1532	101.06400	101.89800	643.2670			2128	284927.693	4821618.876	45.665
		1533	100.46600	102.06050	637.0990			2129	284908.032	4821613.543	44.204
		1534	99.85250	102.33150	630.8170			2130	284899.900	4821610.607	42.762
		1535	98.83450	102.51550	622.7090			2131	284891.642	4821607.495	40.281
		1536	97.50400	102.70800	611.8650			2132	284879.122	4821604.286	38.779
		1537	96.18600	102.79150	603.0150			2133	284862.927	4821599.498	37.357
		1538	95.80400	102.87800	598.5610			2134	284847.918	4821596.128	36.943
L			4					2135	284842.908	4821593.302	36.325
		1539	95.70150	102.89550	597.1160			2136	Nueva LINEA		
		1540	94.62350	102.92900	590.6840			2137	284841.480	4821592.307	36.227
L			4					2138	284829.790	4821589.909	36.208
		1541	94.61100	102.88850	593.7720			2139	Nueva LINEA		
		1542	94.85700	102.80550	598.3440			2140	284830.772	4821592.854	36.444
		1543	96.07350	102.56050	612.8360			2141	284834.550	4821596.347	37.016
		1544	96.42100	102.23900	628.5200			2142	284850.624	4821605.716	38.735
		1545	97.41750	102.20700	635.1000			2143	284859.689	4821619.081	41.277
		1546	98.51450	102.34750	630.8130			2144	284871.347	4821621.354	41.366
		1547	98.99600	102.08000	638.4230			2145	284879.601	4821613.020	40.123
		1548	99.30750	101.74150	647.8330			2146	284887.140	4821618.061	42.524
		1549	100.33500	101.52900	656.6220			2147	284893.966	4821625.390	45.660
		1550	101.45550	101.46500	664.9890			2148	284907.256	4821628.895	47.611
		1551	102.08550	101.59450	662.4220			2149	284921.390	4821631.273	48.080
		1552	101.24300	101.78050	650.6510			2150	284926.059	4821625.975	46.791
		1553	100.47250	101.81800	646.0010			2151	284912.964	4821619.371	45.185
		1554	99.66400	102.07450	639.3910			2152	284903.870	4821618.653	44.934
		1555	98.47450	102.40700	627.4570			2153	284893.629	4821616.128	42.547
L			30			30		2154	284877.863	4821610.099	39.660
		1556	109.60900	102.59650	727.0680			2155	Nueva LINEA		
		1557	110.44650	102.70050	736.9310			2156	285029.315	4821639.280	33.741
		1558	112.11650	102.69800	759.3670			2157	285042.795	4821641.923	32.137
		1559	113.07000	102.69900	773.1080			2158	285071.783	4821648.746	31.217
		1560	114.15650	102.66300	789.3260			2159	285089.185	4821652.883	30.625
		1561	115.77500	102.61800	816.1160			2160	285109.642	4821657.581	30.385
		1562	116.99200	102.58650	838.6110			2161	285142.331	4821665.629	29.844
		1563	117.53100	102.61250	848.9910			2162	285168.915	4821672.622	29.336
		1564	117.86100	102.63900	851.2070			2163	285181.095	4821675.765	28.569
		1565	118.18150	102.68250	853.0850			2164	285185.853	4821674.507	28.124
L			4			4		2165	285190.287	4821673.043	27.464
		1566	108.70000	102.43800	721.6320			2166	Nueva LINEA		
		1567	107.65150	102.32900	718.3960			2167	285017.742	4821640.547	35.757
		1568	106.99050	102.24550	710.8240			2168	285006.054	4821644.283	37.110
		1569	106.26300	102.03700	700.4720			2169	284995.773	4821641.826	38.318
		1570	104.90850	101.72100	692.3730			2170	284983.545	4821637.258	40.975
L			761			761		2171	284966.727	4821637.873	44.669
M			5.6900					2172	Nueva LINEA		
		1571	106.07650	102.05850	725.8920			2173	Altura Mira		
L			761			761		2174	284994.827	4821660.109	36.379
		1572	105.79850	101.99450	758.3630			2175	Nueva LINEA		
L			23			23		2176	285008.658	4821689.673	36.095
M			4.6900					2177	Nueva LINEA		
		1573	106.72450	102.04500	713.9120			2178	Altura Mira		
M			5.6900					2179	284994.896	4821646.078	37.917
		1574	105.96600	102.02850	721.2470			2180	Altura Mira		
M			7.0000					2181	284991.375	4821656.776	36.869
		1575	105.44100	101.91000	723.0000			2182	Altura Mira		
L			3			3		2183	284987.161	4821661.347	36.848
M			5.6900					2184	Nueva LINEA		
		1576	105.88200	102.03850	726.8870			2185	Altura Mira		
		1577	105.75800	101.98400	758.3590			2186	284993.435	4821662.106	36.575
L			642			642		2187	285008.243	4821689.919	36.220
M			2.1500					2188	Nueva LINEA		
		1578	113.21050	102.45750	850.9460			2189	Altura Mira		
		1579	113.46850	102.46100	852.0090			2190	285137.761	4821713.807	30.559
L			642			642		2191	285141.144	4821712.553	30.472
		1580	113.78800	102.45950	853.6810			2192	Nueva LINEA		
		1581	114.81850	102.48700	858.9700			2193	285145.550	4821711.261	30.427
		1582	115.37400	102.49800	861.1290			2194	285159.687	4821706.814	29.853
		1583	116.81950	102.48900	863.1030			2195	285166.868	4821703.765	29.620
								2196	285183.139	4821692.733	29.665

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M			3.1500								
		1584	117.51700	102.52800	854.7400			2197	Altura Mira		
M			4.0000					2198	285184.767	4821680.245	28.467
		1585	117.73350	102.49600	851.0880			2199	Altura Mira		
L			30					2200	285184.549	4821675.603	28.189
M			2.1500					2201	Nueva LINEA		
		1586	112.98950	102.69500	772.1840			2202	Altura Mira		
		1587	111.81550	102.53050	779.0580			2203	285087.850	4821652.739	30.712
		1588	110.73600	102.40800	785.7800			2204	285080.518	4821666.837	32.433
		1589	110.21600	102.36450	789.2310			2205	285073.676	4821680.060	33.678
L			4					2206	285070.383	4821686.579	34.086
		1590	111.15550	102.44150	786.6670			2207	Nueva LINEA		
		1591	112.02150	102.43750	798.5520			2208	285078.405	4821677.781	33.231
		1592	113.29700	102.46400	814.9000			2209	285094.094	4821681.097	32.826
		1593	114.49450	102.50000	831.0480			2210	285116.805	4821684.486	31.863
		1594	115.95800	102.52300	849.3920			2211	285138.913	4821687.690	30.771
		1595	116.49900	102.53550	855.7440			2212	285165.443	4821689.720	29.746
L			742					2213	285175.064	4821689.918	29.327
		1596	112.93150	102.42950	842.7320			2214	Nueva LINEA		
		1597	112.71750	102.41850	844.2510			2215	285129.854	4821709.521	31.246
		1598	112.84550	102.41450	847.0700			2216	285128.506	4821712.442	31.334
		1599	113.05650	102.42400	845.4800			2217	285131.558	4821713.674	31.280
L			4					2218	285132.834	4821710.713	31.214
		1600	113.09600	102.45550	845.5000			2219	Nueva LINEA		
		1601	112.94850	102.45700	842.2610			2220	285133.254	4821710.399	30.795
		1602	112.71150	102.44650	843.8740			2221	285129.741	4821708.998	30.900
		1603	112.80850	102.44350	847.2380			2222	285128.208	4821712.177	30.977
								2223	285131.257	4821714.093	30.888
B	30008	284622.332	4821037.528		63.942			2224	BASE (coord de FICHERO DE BASES)		
H		1.5930		1.3000				2225	Altura Aparato y Mira		
O	30004	0.00000	107.21150		27.2500			2226	284597.876	4821049.149	61.157
D	30012	117.92900	102.71050		853.6710			2227	285188.057	4821675.790	27.948
L			742					2228	Nueva LINEA		
M			4.6900					2229	Altura Mira		
		1604	115.22300	102.30600	870.1300			2230	285170.936	4821712.180	29.383
		1605	115.16200	102.30550	870.2410			2231	285170.359	4821712.792	29.386
		1606	115.16650	102.30650	871.1430			2232	285170.975	4821713.453	29.340
		1607	115.23300	102.29950	871.1600			2233	285171.694	4821712.895	29.435
L			40					2234	Nueva LINEA		
		1608	118.12950	102.52750	854.7740			2235	285190.865	4821674.903	26.966
		1609	117.06850	102.43400	868.9290			2236	285189.434	4821695.038	27.681
		1610	115.92900	102.38500	887.8420			2237	285189.677	4821719.632	27.643
		1611	115.55900	102.40550	896.5870			2238	285191.245	4821729.661	27.028
		1612	114.54600	102.49950	917.5960			2239	285193.199	4821755.013	24.883
L			40					2240	Nueva LINEA		
		1613	114.45050	102.46350	928.2030			2241	285198.721	4821764.188	24.992
		1614	113.70550	102.33700	942.5530			2242	285199.000	4821782.277	26.311
		1615	113.44900	102.31350	946.2360			2243	285198.244	4821787.523	26.525
B	30012	285188.077	4821675.799		27.964			2244	BASE (coord de FICHERO DE BASES)		
H		1.5280		1.3000				2245	Altura Aparato y Mira		
O	30008	0.00050	97.33800		853.6480			2246	284622.332	4821037.528	63.942
L			23					2247	Nueva LINEA		
M			2.1500					2248	Altura Mira		
		1616	245.16100	132.50850	11.4080			2249	285197.938	4821677.150	21.766
		1617	232.38350	133.97800	11.2750			2250	285197.238	4821679.008	21.606
		1618	178.76050	115.63200	22.5890			2251	285196.440	4821696.052	21.851
		1619	170.69950	110.89150	30.0630			2252	285195.835	4821704.389	22.224
		1620	164.97800	105.10250	54.8800			2253	285197.607	4821729.666	22.948
L			630					2254	Nueva LINEA		
		1621	167.57000	106.99350	45.6890			2255	285197.802	4821720.159	22.333
		1622	176.65800	112.92000	27.8800			2256	285197.660	4821701.370	21.723
		1623	177.85950	112.98250	27.7150			2257	285198.080	4821701.029	21.729
		1624	176.63200	114.30250	27.9340			2258	285197.623	4821701.303	21.119
		1625	203.99400	127.23450	14.6750			2259	285197.543	4821685.216	21.254
		1626	232.00000	134.56150	11.7080			2260	285197.518	4821679.170	21.293
L			100					2261	Nueva LINEA		
		1627	233.04000	132.71000	11.7070			2262	285197.733	4821679.070	21.588
L			630					2263	Nueva LINEA		
		1628	233.89650	117.69150	22.3970			2264	285208.567	4821682.433	21.198
		1629	197.12350	112.00750	33.3290			2265	285208.663	4821701.254	21.093
		1630	197.76050	110.66950	33.5430			2266	285209.130	4821701.305	21.747
		1631	181.38350	106.22600	50.8010			2267	285209.282	4821721.695	22.382
		1632	172.25800	103.01150	75.0880			2268	285209.485	4821747.682	23.792
L			23					2269	Nueva LINEA		

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#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		1633	174.89700	102.96800	73.2360					
		1634	183.07600	106.10050	49.9700		2270	285211.846	4821744.986	23.929
		1635	199.38350	110.58800	33.1140		2271	285210.132	4821720.383	22.561
		1636	237.25300	116.03200	22.4350		2272	285209.501	4821700.446	21.860
L			100				2273	285209.072	4821681.393	21.752
		1637	234.29500	116.77500	22.4760	100	2274	Nueva LINEA		
L			100				2275	285208.763	4821682.354	21.488
		1638	197.50950	110.96900	32.9750	100	2276	Nueva LINEA		
L			100				2277	285208.658	4821700.935	21.689
		1639	198.27850	110.85950	33.2580	100	2278	Nueva LINEA		
L			750				2279	285209.146	4821700.905	21.696
		1640	178.69500	105.28100	53.5800	750	2280	Nueva LINEA		
L			750				2281	285208.405	4821725.173	22.903
		1641	213.65200	114.01150	25.1000	750	2282	Nueva LINEA		
L			741				2283	285207.853	4821690.252	21.862
		1642	216.15050	112.94050	26.9760	741	2284	Nueva LINEA		
L			40				2285	285210.003	4821690.540	21.896
M			1.3000			40	2286	Nueva LINEA		
		1643	234.06150	102.92100	30.8050		2287	Altura Mira		
		1644	214.70500	104.74600	33.7490		2288	285217.378	4821685.202	26.779
		1645	193.47050	103.35750	47.4380		2289	285215.574	4821695.205	25.678
		1646	181.52800	103.28800	63.7900		2290	285215.704	4821714.281	25.691
		1647	177.73100	103.45500	71.1490		2291	285214.927	4821733.569	24.899
L			30			30	2292	285214.127	4821741.895	24.333
		1648	236.03300	102.66100	30.4200		2293	Nueva LINEA		
		1649	216.88050	104.39900	38.2780		2294	285217.290	4821684.186	26.921
		1650	203.62650	103.52450	49.8830		2295	285220.010	4821696.739	25.549
		1651	203.78850	103.65100	53.0550		2296	285223.182	4821711.130	25.432
M			2.1500				2297	285225.506	4821713.278	25.151
		1652	207.72250	103.51500	64.8960		2298	Altura Mira		
L			4			4	2299	285236.609	4821718.732	23.761
		1653	199.62050	102.65950	54.1160		2300	Nueva LINEA		
		1654	187.92050	102.94900	66.0970		2301	285223.699	4821716.474	25.082
		1655	174.97850	102.74400	82.2360		2302	285221.767	4821732.583	24.282
L			176			176	2303	285214.870	4821753.467	23.799
		1656	169.64900	102.29200	80.3270		2304	Nueva LINEA		
		1657	176.56100	105.00700	55.9360		2305	285207.819	4821753.608	24.451
		1658	199.38050	111.60300	29.7760		2306	285207.567	4821728.045	22.947
		1659	233.79100	117.41650	20.7020		2307	285207.286	4821697.901	21.945
		1660	251.50300	118.15950	19.6770		2308	285207.030	4821681.970	21.749
L			176			176	2309	285206.946	4821676.489	21.805
		1661	250.59250	129.18900	12.6650		2310	Nueva LINEA		
		1662	236.22800	128.94050	12.8620		2311	285199.419	4821676.376	21.736
		1663	178.11000	110.97500	30.6850		2312	285199.194	4821678.954	21.694
		1664	168.35200	105.69100	50.6190		2313	285199.329	4821703.857	22.078
		1665	165.09400	103.46900	66.7310		2314	285199.478	4821724.910	22.823
L			60			60	2315	285199.804	4821741.391	23.708
		1666	252.50500	131.08300	12.0160		2316	Nueva LINEA		
		1667	241.20150	117.98950	20.8620		2317	285198.687	4821676.020	21.706
		1668	235.85050	101.29400	30.3770		2318	285207.719	4821679.747	21.525
		1669	235.90200	99.63700	30.3690		2319	285217.244	4821684.263	26.725
		1670	235.64700	100.90600	30.7380		2320	285217.249	4821684.239	27.515
L			60			60	2321	285217.567	4821684.459	26.905
M			1.3000				2322	Nueva LINEA		
		1671	337.25600	103.78300	3.6680		2323	Altura Mira		
L			4			4	2324	285189.020	4821672.261	27.974
M			2.1500				2325	Nueva LINEA		
		1672	224.93400	101.81150	37.5550		2326	Altura Mira		
		1673	220.19350	102.08100	44.0990		2327	285221.815	4821692.259	26.274
		1674	211.47200	103.19250	53.9020		2328	285226.142	4821698.019	25.901
		1675	215.52450	103.57400	57.8700		2329	285230.428	4821709.033	24.640
		1676	226.55800	100.66300	61.7860		2330	285235.708	4821708.505	24.095
L			721			721	2331	285244.276	4821701.464	26.699
M			1.3000				2332	Nueva LINEA		
		1677	139.15100	99.72150	20.3270		2333	Altura Mira		
L			721			721	2334	285183.431	4821695.588	28.281
M			2.1500				2335	Nueva LINEA		
		1678	151.50250	98.07600	20.6140		2336	Altura Mira		
L			721			721	2337	285187.324	4821696.390	27.965
		1679	155.41000	98.15900	20.8180		2338	Nueva LINEA		
L			4			4	2339	285188.593	4821696.602	27.944
		1680	143.95000	97.26600	19.1040		2340	Nueva LINEA		
		1681	139.44600	97.32700	38.4100		2341	285185.127	4821694.656	28.162
		1682	152.51400	99.65650	52.8010		2342	285179.479	4821713.199	28.954
							2343	285186.985	4821728.588	27.627

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CO ISPOL V322 T2 RONDA SUR DE GIJON

#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
B		30004	284597.876	4821049.149	61.157						
H			1.5410	1.3000				2344	BASE (coord de FICHERO DE BASES)		
O		30008	0.00000	94.04000	27.1980			2345	Altura Aparato y Mira		
D		30005	90.47400	98.32600	796.6050			2346	284622.332	4821037.528	63.942
								2347	284367.146	4820286.988	82.384
B		30007	284817.542	4821595.408	32.972						
H			1.5320	1.3000				2348	BASE (coord de FICHERO DE BASES)		
O		30006	386.29500	88.96900	86.8350			2349	Altura Aparato y Mira		
L			60			60		2350	284733.364	4821580.227	48.177
		1683	324.15650	83.12650	11.6050			2351	Nueva LINEA		
		1684	304.39850	101.08000	10.1320			2352	284813.013	4821585.165	36.244
		1685	287.05350	101.08950	10.1490			2353	284816.471	4821585.334	33.032
		1686	287.00350	103.59100	10.1630			2354	284819.224	4821585.401	33.030
M			0.0000					2355	284819.232	4821585.403	32.631
		1687	287.09000	92.32100	10.2430			2356	Altura Mira		
		1688	262.78800	92.66500	10.8140			2357	284819.222	4821585.379	35.737
M			1.3000					2358	284823.136	4821586.237	35.747
		1689	262.95250	103.31000	10.7390			2359	Altura Mira		
		1690	262.64000	100.64200	10.7240			2360	284823.103	4821586.238	32.646
		1691	253.65100	100.25850	11.1810			2361	284823.147	4821586.266	33.096
		1692	252.08300	86.76650	11.5100			2362	284824.669	4821586.793	33.159
M			2.1500					2363	284824.933	4821586.910	35.579
		1693	247.39400	79.29400	12.3950			2364	Altura Mira		
M			0.0000					2365	284825.881	4821587.137	36.315
		1694	263.50750	88.91700	10.9000			2366	Altura Mira		
		1695	287.60400	87.89800	10.3530			2367	284823.028	4821586.180	36.392
M			1.3000					2368	284819.140	4821585.368	36.460
		1696	323.99950	80.94350	11.7560			2369	Altura Mira		
L			630			630		2370	284813.025	4821585.123	36.671
		1697	303.15650	104.84900	6.6020			2371	Nueva LINEA		
		1698	287.11600	103.55450	9.9940			2372	284816.974	4821588.850	32.702
L			630			630		2373	284819.186	4821585.566	32.646
		1699	262.71050	103.32250	10.5720			2374	Nueva LINEA		
		1700	251.92800	104.78150	7.0970			2375	284823.050	4821586.401	32.653
		1701	218.58500	109.28350	3.0830			2376	284822.199	4821590.079	32.671
L			178			178		2377	284820.429	4821594.423	32.756
		1702	305.49950	104.48550	5.2680			2378	Nueva LINEA		
		1703	284.59550	103.18250	10.0390			2379	284816.896	4821590.193	32.833
L			178			178		2380	284819.584	4821585.592	32.702
		1704	264.92750	103.03650	10.4770			2381	Nueva LINEA		
		1705	250.08650	105.12600	4.8310			2382	284822.688	4821586.296	32.704
L			40			40		2383	284820.814	4821591.875	32.815
		1706	26.32250	77.58800	21.1480			2384	Nueva LINEA		
		1707	34.14850	76.98450	18.0590			2385	284799.670	4821604.048	40.496
		1708	37.31050	79.93200	14.2640			2386	284803.351	4821604.569	39.592
		1709	71.88500	69.18300	11.3250			2387	284806.528	4821603.320	37.626
L			23			23		2388	284813.594	4821604.622	38.475
		1710	30.05650	78.69950	20.5220			2389	Nueva LINEA		
		1711	43.28500	78.19050	17.6690			2390	284800.615	4821604.853	39.943
		1712	60.60500	74.37500	14.0700			2391	284804.995	4821606.341	39.139
		1713	74.10000	68.97550	12.0770			2392	284810.426	4821606.222	38.716
L			40			40		2393	284813.683	4821605.357	38.859
M			0.0000					2394	Nueva LINEA		
		1714	27.04050	80.00750	21.2930			2395	Altura Mira		
		1715	41.94550	75.80350	20.9700			2396	284799.410	4821604.428	41.082
		1716	60.08400	72.84300	17.0890			2397	284802.595	4821607.889	42.284
		1717	76.58250	70.19600	12.9020			2398	284808.885	4821608.334	41.575
		1718	92.78000	67.29850	12.3830			2399	284813.800	4821606.297	40.326
		1719	113.22000	66.96600	10.4610			2400	284816.717	4821606.161	40.589
M			1.3000					2401	284819.741	4821604.222	39.692
		1720	126.83050	61.24100	9.1280			2402	Altura Mira		
		1721	163.65950	57.19950	7.3110			2403	284820.855	4821602.123	38.424
M			0.0000					2404	284822.466	4821598.319	37.757
		1722	229.34250	89.78000	7.7950			2405	Altura Mira		
		1723	251.21650	90.68500	11.0030			2406	284824.303	4821591.734	35.750
								2407	284824.797	4821587.292	36.108



PCL XL error

Subsystem: KERNEL

Error: IllegalTag

Operator: 0x1b

Position: 2





CO ISPOL V322 T3 RONDA SUR DE GIJON

#	L Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
B	30004	284597.876	4821049.149	61.157						
L		6			6	0 BASE (coord de FICHERO DE BASES)				
H		1.5590	1.3000			1 Nueva LINEA				
O	30053	320.53700	103.09600	779.7800		2 Altura Aparato y Mira				
L		10			10	3 285190.042 4821555.084				23.559
	3877	316.70400	102.42300	859.2550		4 Nueva LINEA				
	3878	315.97600	102.45000	836.8530		5 285215.940 4821645.166				28.769
	3879	314.93900	102.48800	810.3890		6 285193.140 4821636.463				29.264
	3880	313.54200	102.54500	780.8520		7 285164.962 4821627.190				29.796
	3881	312.17600	102.59600	756.2400		8 285131.921 4821617.957				30.248
	3882	308.95500	102.68100	710.0450		9 285103.134 4821610.981				30.624
	3883	305.57400	102.73600	670.6330		10 285044.960 4821599.948				31.556
	3884	303.85500	102.75400	651.7770		11 284991.918 4821591.037				32.633
L		10			10	12 284966.476 4821585.942				33.257
	3885	304.86400	102.74200	663.3870		13 Nueva LINEA				
	3886	300.81000	102.77800	622.0410		14 284981.657 4821589.493				32.881
	3887	295.73100	102.79800	580.0510		15 284924.757 4821577.677				34.306
	3888	292.74900	102.79400	559.4940		16 284862.440 4821564.717				35.953
	3889	288.16900	102.76900	532.7600		17 284829.499 4821557.850				36.889
	3890	280.45500	102.67800	498.6480		18 284783.046 4821548.152				38.269
	3891	274.76700	102.57200	480.3660		19 284713.471 4821533.756				40.462
	3892	268.66600	102.43200	466.2070		20 284667.138 4821524.095				42.029
	3893	262.26000	102.26700	456.6260		21 284620.683 4821514.453				43.625
	3894	255.67300	102.09500	451.8570		22 284574.318 4821504.873				45.173
	3895	249.03700	101.92100	452.0870		23 284528.105 4821495.335				46.562
	3896	242.47800	101.73800	458.1860		24 284481.989 4821485.914				47.790
	3897	239.23700	101.64700	463.4660		25 284435.509 4821477.415				48.923
	3898	236.23700	101.56400	469.9240		26 284411.799 4821473.447				49.441
	3899	233.24100	101.48300	478.2170		27 284389.144 4821470.008				49.887
	3900	229.93400	101.39400	489.7020		28 284365.540 4821466.981				50.292
	3901	227.24100	101.32100	500.9560		29 284338.057 4821464.098				50.710
	3902	224.74800	101.25600	513.2980		30 284314.366 4821462.025				51.038
	3903	222.33100	101.19100	527.1730		31 284291.035 4821460.508				51.307
	3904	220.11200	101.13200	541.9690		32 284266.925 4821459.369				51.572
	3905	218.02300	101.07900	557.7350		33 284243.140 4821458.777				51.799
	3906	216.07500	101.03500	574.6570		34 284219.182 4821458.495				51.984
	3907	214.29700	100.99800	591.8670		35 284194.966 4821458.785				52.096
	3908	212.63200	100.96500	609.7090		36 284171.276 4821459.304				52.161
	3909	211.06600	100.93500	627.9670		37 284147.514 4821460.034				52.199
	3910	208.18900	100.88900	666.1950		38 284123.755 4821460.804				52.219
	3911	205.66700	100.85900	705.1250		39 284075.672 4821462.700				52.143
	3912	203.38300	100.84400	745.6020		40 284028.250 4821464.635				51.935
	3913	201.35900	100.83200	786.4650		41 283980.178 4821466.599				51.568
	3914	199.50900	100.83200	828.4980		42 283932.656 4821468.545				51.179
	3915	197.86800	100.83100	870.6340		43 283884.562 4821470.412				50.634
	3916	197.10300	100.83200	891.9780		44 283837.123 4821472.370				50.102
L		174			174	45 283813.319 4821473.348				49.811
	3917	196.87000	100.83200	893.4320		46 Nueva LINEA				
	3918	197.72700	100.83500	869.3880		47 283810.490 4821471.161				49.793
	3919	198.60300	100.83600	846.2450		48 283837.278 4821470.080				50.063
	3920	198.66600	100.83600	844.7360		49 283863.233 4821469.023				50.351
	3921	198.87300	100.83700	839.3810		50 283864.958 4821469.000				50.370
	3922	199.01800	100.83600	835.7590		51 283870.965 4821468.704				50.427
	3923	199.75400	100.83400	817.5880		52 283875.055 4821468.541				50.487
	3924	200.79800	100.83800	793.7820		53 283895.560 4821467.570				50.750
	3925	202.01800	100.84200	767.8630		54 283922.764 4821466.513				51.009
	3926	203.24300	100.84800	743.5820		55 283952.665 4821465.325				51.299
	3927	204.76200	100.86000	716.1390		56 283980.938 4821464.112				51.548
	3928	206.39900	100.87300	689.0550		57 284013.413 4821462.858				51.776
	3929	207.75700	100.88900	668.7050		58 284045.939 4821461.538				51.999
	3930	209.36100	100.90900	646.3920		59 284070.900 4821460.691				52.108
	3931	212.35300	100.96400	609.4540		60 284098.669 4821459.664				52.214
	3932	215.94200	101.03700	572.5800		61 284145.906 4821457.886				52.212
	3933	217.99100	101.08200	554.8110		62 284195.571 4821456.464				52.111
	3934	220.49300	101.14100	536.1280		63 284220.963 4821456.159				52.007
	3935	224.60300	101.25200	511.1890		64 284249.396 4821456.454				51.827
	3936	227.90300	101.34100	495.3280		65 284291.363 4821458.121				51.381
	3937	231.92700	101.44800	479.9660		66 284321.813 4821460.276				50.999
	3938	234.50800	101.52100	472.0480		67 284356.082 4821463.612				50.515
	3939	237.32700	101.59800	464.9680		68 284376.793 4821466.067				50.154
	3940	240.44700	101.68500	458.8920		69 284398.507 4821469.039				49.760
	3941	243.50700	101.77100	454.3660		70 284421.656 4821472.679				49.285
	3942	246.74600	101.86300	451.1530		71 284443.751 4821476.385				48.791
						72 284466.618 4821480.580				48.229

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CO ISPOL V322 T3 RONDA SUR DE GIJON

#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		4014	199.00100	100.83500	833.9410						
		4015	198.86200	100.85200	836.5120			147	283876.515	4821467.436	50.524
		4016	198.45100	100.84600	845.2720			148	283873.379	4821467.144	50.267
		4017	198.08600	100.85400	857.2150			149	283863.080	4821466.786	50.231
		4018	197.57500	100.83500	871.3090			150	283850.283	4821468.407	49.966
		4019	197.17300	100.84700	882.5130			151	283834.592	4821469.189	50.038
		4020	196.60800	100.83500	898.9000			152	283822.108	4821469.699	49.726
L				32				153	283803.931	4821470.479	49.679
M			2.0000			32		154	Nueva LINEA		
		4021	196.57300	100.79200	899.1150			155	Altura Mira		
		4022	196.66000	100.81600	895.2100			156	283803.503	4821470.147	49.584
		4023	196.79600	100.82300	889.0570			157	283807.530	4821469.397	49.295
		4024	197.04800	100.83000	879.8730			158	283813.857	4821468.184	49.275
L			630			630		159	283823.604	4821466.923	49.296
		4025	197.01300	100.84000	879.5390			160	Nueva LINEA		
		4026	196.75500	100.83400	889.1180			161	283823.670	4821466.338	49.162
M			2.1500					162	283813.535	4821467.707	49.121
		4027	196.63500	100.82500	894.9530			163	Altura Mira		
		4028	196.52800	100.82400	898.8730			164	283807.593	4821468.965	49.021
L			630			630		165	283803.424	4821469.470	48.985
		4029	196.48700	100.82700	898.6380			166	Nueva LINEA		
		4030	196.57500	100.82600	895.5660			167	283803.362	4821468.848	48.946
		4031	196.66800	100.82400	891.4600			168	283806.657	4821468.507	48.999
L			32			32		169	283810.895	4821467.735	49.080
		4032	196.98400	100.81900	879.2760			170	Nueva LINEA		
		4033	196.73600	100.81300	888.4200			171	283823.709	4821465.862	49.305
M			1.3000					172	283814.023	4821467.146	49.273
		4034	196.72100	100.87300	888.9180			173	Altura Mira		
M			1.8000					174	283813.494	4821467.190	49.279
		4035	196.57800	100.82100	894.1650			175	Altura Mira		
		4036	196.45100	100.81000	898.4280			176	283807.913	4821467.889	49.438
M			2.0000					177	283803.308	4821468.302	49.538
		4037	196.43700	100.79700	898.7990			178	Altura Mira		
								179	283802.885	4821468.301	49.517
B		30506	283119.004	4821533.328	44.542			180	BASE (coord de FICHERO DE BASES)		
L			6			6		181	Nueva LINEA		
H			1.5560	1.3000				182	Altura Aparato y Mira		
O		30505	106.41200	98.26500	491.5840			183	283607.915	4821483.922	58.194
L			10			10		184	Nueva LINEA		
		4901	103.38800	99.58700	591.4700			185	283709.620	4821501.871	48.658
		4902	103.44100	99.59600	561.7110			186	283679.880	4821502.987	48.383
		4903	103.49600	99.61900	526.6210			187	283644.818	4821504.428	47.968
		4904	103.56600	99.63700	491.1260			188	283609.348	4821505.837	47.614
L			174			174		189	Nueva LINEA		
		4905	103.35500	99.68500	441.2960			190	283559.679	4821510.086	46.994
M			2.1500					191	Altura Mira		
		4906	103.28100	99.53900	487.4800			192	283605.821	4821508.220	47.494
		4907	103.24100	99.52900	507.8280			193	283626.157	4821507.491	47.722
		4908	103.21300	99.52200	527.4560			194	283645.770	4821506.724	47.927
		4909	103.18500	99.51100	556.4880			195	283674.775	4821505.504	48.243
		4910	103.14600	99.50200	588.1650			196	283706.429	4821504.280	48.572
L			32			32		197	Nueva LINEA		
M			2.7500					198	Altura Mira		
		4911	103.04400	99.45600	558.1350			199	283676.477	4821506.657	48.138
M			2.1500					200	Altura Mira		
		4912	103.11900	99.51000	516.3500			201	283634.716	4821508.046	47.940
M			2.6000					202	Altura Mira		
		4913	103.16400	99.50000	477.3120			203	283595.709	4821509.620	47.262
L			10			10		204	Nueva LINEA		
M			1.3000					205	Altura Mira		
		4914	105.62800	99.55400	664.0070			206	283780.397	4821474.711	49.479
		4915	105.82100	99.56800	625.1170			207	283741.491	4821476.256	49.066
		4916	106.08900	99.59000	577.3820			208	283693.731	4821478.194	48.538
		4917	106.39400	99.61300	531.7050			209	283648.016	4821480.021	48.049
		4918	106.82600	99.65000	477.0550			210	283593.309	4821482.280	47.436
L			10			10		211	Nueva LINEA		
		4919	106.74400	99.63700	492.7490			212	283608.980	4821481.232	47.624
		4920	107.11800	99.66800	453.9720			213	283570.132	4821482.680	47.179
		4921	107.70000	99.70500	412.4120			214	283528.396	4821483.572	46.720
		4922	108.35900	99.73500	374.8950			215	283490.666	4821484.248	46.368
		4923	109.38300	99.76800	328.7240			216	283444.160	4821485.057	46.003
		4924	110.27800	99.79000	294.5940			217	283409.764	4821485.976	45.775
		4925	111.47000	99.83200	245.3510			218	283360.381	4821489.364	45.449
		4926	112.29500	99.89800	210.8160			219	283325.899	4821492.868	45.139

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
4927			112.98600	99.97700	182.4620						
4928			113.47800	100.06400	158.2060			220	283297.682	4821496.368	44.866
4929			113.80700	100.16700	136.4120			221	283273.677	4821500.085	44.641
4930			113.82800	100.33100	111.9760			222	283252.219	4821503.976	44.441
4931			113.16600	100.75000	71.2020			223	283228.347	4821509.198	44.217
4932			111.89700	101.39700	43.5790			224	283188.684	4821518.709	43.960
L			174					225	283161.814	4821525.234	43.842
4933			115.41500	101.31800	42.6520		174	226	Nueva LINEA		
4934			115.42400	100.74700	66.9340			227	283160.403	4821523.104	43.915
4935			115.34100	100.45800	91.5220			228	283183.978	4821517.271	44.013
4936			115.18000	100.23600	118.8780			229	283207.879	4821511.488	44.140
4937			114.61200	100.06000	150.3210			230	283234.517	4821505.251	44.358
4938			114.00600	99.96600	176.1470			231	283265.382	4821499.129	44.658
4939			113.35200	99.90000	199.6580			232	283290.904	4821494.888	44.894
4940			112.44100	99.83400	230.7100			233	283314.286	4821491.761	45.114
4941			111.62000	99.80600	263.5130			234	283345.321	4821488.531	45.403
4942			110.94400	99.79400	289.4770			235	283378.137	4821485.499	45.606
4943			110.00100	99.76900	322.9950			236	283404.211	4821483.812	45.740
4944			108.93300	99.74600	367.2920			237	283438.018	4821482.799	45.977
4945			108.33600	99.73100	397.5280			238	283482.681	4821481.963	46.272
4946			107.32500	99.66800	461.4410			239	283513.123	4821481.428	46.488
4947			106.96600	99.64000	496.2450			240	283577.385	4821480.356	47.218
4948			106.63800	99.61800	536.1130			241	283612.270	4821479.142	47.620
4949			106.36100	99.59700	575.3050			242	283652.192	4821477.535	48.034
4950			106.04400	99.57400	627.9660			243	283691.424	4821475.946	48.462
4951			105.82100	99.55900	671.4430			244	283744.124	4821473.806	49.026
L			32					245	283787.622	4821472.027	49.479
M			2.1500			32		246	Nueva LINEA		
4952			105.90200	99.48400	678.4590			247	Altura Mira		
L			630					248	283794.523	4821470.527	49.477
4953			105.96400	99.54200	678.5720		630	249	Nueva LINEA		
4954			106.01600	99.54200	678.6140			250	283794.579	4821469.858	48.860
L			32					251	283794.568	4821469.303	48.860
4955			106.06600	99.48600	678.6390			252	Nueva LINEA		
L			32					253	283794.538	4821468.770	49.458
4956			106.11600	99.49500	638.4630			254	Nueva LINEA		
4957			106.34100	99.51000	598.5070			255	283754.499	4821472.093	49.039
L			630					256	283714.523	4821473.820	48.578
4958			106.40100	99.57300	598.5630		630	257	Nueva LINEA		
4959			106.46900	99.57800	598.6140			258	283714.527	4821473.252	47.986
L			32					259	283714.513	4821472.611	47.940
4960			106.53300	99.51300	598.6210			260	Nueva LINEA		
L			32					261	283714.454	4821472.012	48.551
4961			106.61100	99.51400	558.6540			262	Nueva LINEA		
4962			106.92700	99.54100	518.6650			263	283674.629	4821475.425	48.233
L			630					264	283634.585	4821477.010	47.705
4963			107.00000	99.61200	518.6830		630	265	Nueva LINEA		
4964			107.08100	99.61200	518.7680			266	283634.542	4821476.416	47.127
L			32					267	283634.553	4821475.751	47.127
4965			107.11500	99.53600	522.7220			268	Nueva LINEA		
L			32					269	283638.448	4821475.035	47.776
4966			107.28800	99.55800	478.7990			270	Nueva LINEA		
4967			107.81600	99.59000	439.1310			271	283594.655	4821478.641	47.287
L			630					272	283554.818	4821479.555	46.789
4968			107.89100	99.67100	439.1450		630	273	Nueva LINEA		
4969			107.98400	99.67600	439.2810			274	283554.771	4821479.039	46.230
L			32					275	283554.827	4821478.386	46.196
4970			108.06200	99.59400	439.2870			276	Nueva LINEA		
L			32					277	283554.762	4821477.851	46.762
4971			108.48400	99.60700	399.2440			278	Nueva LINEA		
4972			109.30300	99.62200	359.4930			279	283514.698	4821480.284	46.423
L			630					280	283474.657	4821480.986	46.091
4973			109.41000	99.73200	359.5720		630	281	Nueva LINEA		
4974			109.50900	99.73200	359.7070			282	283474.650	4821480.376	45.470
L			32					283	283474.701	4821479.803	45.471
4975			109.61000	99.62400	359.6700			284	Nueva LINEA		
L			32					285	283474.576	4821479.245	46.081
4976			110.30800	99.62300	319.7900			286	Nueva LINEA		
4977			111.44400	99.62100	279.6050			287	283434.604	4821481.778	45.848
L			630					288	283394.097	4821483.339	45.618
4978			111.57600	99.76800	279.7050		630	289	Nueva LINEA		
4979			111.71500	99.76800	279.8200			290	283394.094	4821482.750	44.972
L			32					291	283394.096	4821482.129	44.973
4980			111.85100	99.63600	279.9190			292	Nueva LINEA		
								293	283394.081	4821481.524	45.554

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
L			32			32					
	4981		112.51900	99.60700	239.2600			294	Nueva LINEA		
	4982		113.80800	99.67700	198.4590			295	283353.647	4821486.584	45.429
L			630			630		296	283312.810	4821490.622	44.958
	4983		113.99500	99.87400	198.5920			297	Nueva LINEA		
	4984		114.20800	99.87300	198.4180			298	283312.815	4821490.024	44.344
L			32			32		299	283312.500	4821489.414	44.346
	4985		114.37700	99.69400	198.5650			300	Nueva LINEA		
L			32			32		301	283312.524	4821488.868	44.905
	4986		114.85900	99.72300	165.0060			302	Nueva LINEA		
	4987		115.83900	100.11800	156.9390			303	283279.533	4821495.166	44.668
	4988		117.08600	100.63200	149.8910			304	283271.110	4821494.685	43.659
	4989		118.02400	101.10600	141.6680			305	283263.521	4821493.584	42.461
L			32			32		306	283255.011	4821493.760	41.488
	4990		118.27700	101.12800	142.0000			307	Nueva LINEA		
	4991		117.48100	100.67500	150.0690			308	283255.170	4821493.126	41.433
	4992		116.30200	100.09400	157.5900			309	283263.442	4821492.640	42.358
L			630			630		310	283271.454	4821493.415	43.717
	4993		115.08800	99.95800	165.0020			311	Nueva LINEA		
	4994		115.32200	99.95700	165.1410			312	283279.393	4821494.589	44.059
L			630			630		313	283279.384	4821493.966	44.061
	4995		117.10300	100.66400	151.2050			314	Nueva LINEA		
L			40			40		315	283264.777	4821493.197	42.372
	4996		114.86600	99.71300	157.5600			316	Nueva LINEA		
	4997		115.75300	99.80500	116.4100			317	283272.285	4821496.871	44.660
	4998		116.21000	99.92600	75.3250			318	283231.867	4821504.817	44.305
	4999		118.14500	100.05500	22.5770			319	283191.900	4821514.356	44.036
L			23			23		320	283140.670	4821526.980	43.929
M			1.3000					321	Nueva LINEA		
	5000		108.98400	99.73500	394.9640			322	Altura Mira		
	5001		108.61900	99.69400	417.4570			323	283510.036	4821477.779	46.452
	5002		108.12900	99.68700	444.1850			324	283532.634	4821476.987	46.816
	5003		107.70400	99.66500	475.8030			325	283559.565	4821476.769	46.995
	5004		107.62700	99.63700	489.2210			326	283591.318	4821475.895	47.317
	5005		107.54700	99.62100	506.1300			327	283604.707	4821474.863	47.603
	5006		107.28600	99.62800	514.8320			328	283621.570	4821473.473	47.828
	5007		106.94900	99.61800	550.2110			329	283630.456	4821474.541	47.824
	5008		106.67300	99.59000	584.4510			330	283665.927	4821473.395	48.119
	5009		106.51900	99.59000	606.3770			331	283700.231	4821472.185	48.584
	5010		106.36100	99.56500	635.9860			332	283722.188	4821471.350	48.727
	5011		106.22900	99.56800	659.1520			333	283751.799	4821469.894	49.170
	5012		106.09700	99.55900	679.4340			334	283774.984	4821468.944	49.299
								335	283795.304	4821468.365	49.535

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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
B		30004	284597.876	4821049.149	61.157			0	BASE (coord de FICHERO DE BASES)		
H			1.5200	2.0000				1	Altura Aparato y Mira		
O		30002	19.22700	101.25400	595.9950			2	284775.112	4821618.090	48.971
L			10					3	Nueva LINEA		
M			1.3400			10		4	Altura Mira		
		4301	331.03700	100.81100	963.2480			5	283746.917	4821500.314	49.127
		4302	333.19900	100.81300	900.0490			6	283817.522	4821497.467	49.897
		4303	334.81800	100.81400	858.5090			7	283864.652	4821495.565	50.409
		4304	336.60100	100.81150	817.5930			8	283911.776	4821493.677	50.959
		4305	338.57250	100.81450	777.2910			9	283958.995	4821491.758	51.432
		4306	340.74950	100.82550	737.9420			10	284006.060	4821489.842	51.804
		4307	343.17750	100.85200	699.5180			11	284053.215	4821487.981	52.008
		4308	345.88500	100.89400	662.2320			12	284100.380	4821486.133	52.067
		4309	347.35050	100.91750	644.1400			13	284123.886	4821485.218	52.081
		4310	348.00700	100.93150	636.4150			14	284134.040	4821484.793	52.052
		4311	350.55950	100.98350	609.2310			15	284170.931	4821483.643	51.950
		4312	352.80500	101.03550	588.3090			16	284200.650	4821482.994	51.791
		4313	355.13100	101.09900	569.4710			17	284228.973	4821482.860	51.528
		4314	357.36400	101.15900	553.8340			18	284254.121	4821483.266	51.275
		4315	360.68900	101.24450	534.2800			19	284288.581	4821484.669	50.912
		4316	363.72450	101.32500	519.6750			20	284317.576	4821486.610	50.540
		4317	367.19800	101.41700	506.2510			21	284348.471	4821489.553	50.087
		4318	370.80500	101.51250	495.3150			22	284378.658	4821493.151	49.586
		4319	374.76400	101.61450	486.4460			23	284410.107	4821497.720	49.017
		4320	380.23500	101.74900	478.7390			24	284451.664	4821504.820	48.201
		4321	384.66800	101.86450	475.9230			25	284484.400	4821511.131	47.415
		4322	388.88400	101.97500	475.7190			26	284515.261	4821517.403	46.596
		4323	394.13450	102.10450	478.5810			27	284553.856	4821525.435	45.534
		4324	396.90050	102.17400	481.3960			28	284574.449	4821529.690	44.916
		4325	1.95400	102.29950	489.0870			29	284612.863	4821537.683	43.691
		4326	6.44500	102.40550	498.7790			30	284648.236	4821545.017	42.511
		4327	10.99700	102.50400	511.6360			31	284685.736	4821552.779	41.235
		4328	15.83700	102.58950	529.0810			32	284728.018	4821561.518	39.841
		4329	20.77300	102.65550	551.4990			33	284774.486	4821571.094	38.359
		4330	25.24200	102.68900	576.8180			34	284820.425	4821580.744	37.002
		4331	27.71650	102.70400	593.0550			35	284847.753	4821586.398	36.178
		4332	30.98500	102.70400	617.4610			36	284886.399	4821594.419	35.144
		4333	34.58500	102.69150	648.8860			37	284932.988	4821604.122	33.939
L			10			10		38	Nueva LINEA		
		4334	33.46500	102.70150	639.1020			39	284918.266	4821601.472	34.252
		4335	34.71900	102.69550	650.7140			40	284935.101	4821604.975	33.821
		4336	36.72700	102.68050	671.5970			41	284963.846	4821611.557	33.097
		4337	37.57650	102.66700	681.1120			42	284976.612	4821614.527	32.842
		4338	40.61350	102.63350	718.5450			43	285025.424	4821625.880	31.655
		4339	42.20250	102.62200	740.3880			44	285053.119	4821632.237	30.888
		4340	43.74700	102.57750	763.5800			45	285081.842	4821638.952	30.469
		4341	45.14400	102.55650	786.4750			46	285109.570	4821645.560	29.803
		4342	46.29250	102.53750	807.3050			47	285134.087	4821651.789	29.210
		4343	47.23450	102.51600	826.8090			48	285156.122	4821658.163	28.714
		4344	48.00800	102.48950	845.0130			49	285175.942	4821664.604	28.348
		4345	48.67000	102.46500	862.8480			50	285194.655	4821671.432	27.985
		4346	49.15400	102.44350	878.0460			51	285209.971	4821677.765	27.694
		4347	49.59600	102.41850	895.4060			52	285226.518	4821685.854	27.382
		4348	49.84850	102.39800	908.7750			53	285238.470	4821692.833	27.168
		4349	50.08100	102.38250	925.0260			54	285252.320	4821701.963	26.783
L			174			174		55	Nueva LINEA		
		4350	49.93750	102.39600	925.4890			56	285251.168	4821703.759	26.570
		4351	49.73300	102.40600	911.7590			57	285239.398	4821696.108	26.941
		4352	49.54150	102.41550	901.1110			58	285229.976	4821690.453	27.208
		4353	49.37650	102.42950	893.2330			59	285222.795	4821686.463	27.310
		4354	49.24500	102.43450	887.4360			60	285217.428	4821683.606	27.461
		4355	48.99700	102.45250	878.3880			61	285208.654	4821679.515	27.557
		4356	48.74300	102.46600	870.4310			62	285200.619	4821676.209	27.678
		4357	48.53950	102.47450	864.4030			63	285194.448	4821673.774	27.796
		4358	48.35800	102.47700	859.1830			64	285189.072	4821671.689	27.964
		4359	47.77100	102.50250	844.1610			65	285173.062	4821666.124	28.209
		4360	47.18800	102.51950	830.3420			66	285158.059	4821661.173	28.529
		4361	46.69650	102.53250	819.7690			67	285146.240	4821657.627	28.779
		4362	46.04000	102.54100	806.7230			68	285131.307	4821653.473	29.189
		4363	45.17850	102.55300	790.9570			69	285112.812	4821648.681	29.667
		4364	44.20200	102.56700	774.7030			70	285093.160	4821644.023	30.147
		4365	42.46500	102.59600	748.0070			71	285060.236	4821636.345	30.880

0 5 490 3007

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
M		1.7500								
	4429	336.26500	100.84600	835.6600		145 Altura Mira				
	4430	336.38550	100.84450	837.1330		146 283894.231 4821499.789				49.868
L		60			60	147 283893.847 4821501.917				49.869
	4431	336.45950	100.84650	835.4490		148 Nueva LINEA				
	4432	336.30800	100.84650	834.6990		149 283895.789 4821501.822				49.864
		630			630	150 283895.345 4821499.745				49.874
M		2.0000				151 Nueva LINEA				
	4433	331.70050	100.81750	952.1060		152 Altura Mira				
	4434	331.73250	100.81700	952.3270		153 283761.455 4821503.836				48.511
L		630			630	154 283761.489 4821504.362				48.515
	4435	333.05400	100.82050	912.5640		155 Nueva LINEA				
	4436	333.09500	100.82100	912.8430		156 283805.639 4821501.897				48.971
L		630			630	157 283805.689 4821502.545				48.960
	4437	334.16900	100.81900	883.2620		158 Nueva LINEA				
	4438	334.20550	100.81850	883.5740		159 283838.869 4821500.722				49.366
L		630			630	160 283838.860 4821501.316				49.369
	4439	335.15100	100.82500	858.7600		161 Nueva LINEA				
	4440	335.19100	100.82450	859.0050		162 283866.785 4821499.525				49.597
L		630			630	163 283866.860 4821500.113				49.601
	4441	335.89800	100.82600	841.3030		164 Nueva LINEA				
M		2.1500				165 283886.873 4821498.743				49.808
	4442	335.93300	100.81600	841.6530		166 Altura Mira				
L		630			630	167 283886.824 4821499.322				49.786
M		2.2500				168 Nueva LINEA				
	4443	336.21450	100.85900	835.2190		169 Altura Mira				
	4444	336.25300	100.86050	835.5450		170 283894.248 4821498.992				49.204
L		630			630	171 283894.245 4821499.593				49.179
	4445	336.25600	100.86150	834.3130		172 Nueva LINEA				
M		2.3000				173 283895.304 4821498.962				49.183
	4446	336.29450	100.85450	834.5930		174 Altura Mira				
L		630			630	175 283895.340 4821499.539				49.221
M		2.0000				176 Nueva LINEA				
	4447	336.65350	100.82100	824.8220		177 Altura Mira				
	4448	336.68850	100.82150	824.7610		178 283906.081 4821498.177				50.085
L		630			630	179 283906.379 4821498.524				50.079
L		630			630	180 Nueva LINEA				
	4449	339.45750	100.82300	768.0790		181 Nueva LINEA				
	4450	339.49650	100.82300	768.4920		182 283972.709 4821495.246				50.787
L		630			630	183 283972.646 4821495.868				50.781
	4451	342.23850	100.84650	720.7700		184 Nueva LINEA				
	4452	342.28100	100.84250	721.1170		185 284030.059 4821492.987				51.128
L		630			630	186 284030.081 4821493.580				51.168
	4453	346.35150	100.90150	662.6260		187 Nueva LINEA				
	4454	346.39700	100.90250	663.0370		188 284103.302 4821490.028				51.323
L		630			630	189 284103.311 4821490.655				51.307
	4455	349.84950	100.96850	622.2250		190 Nueva LINEA				
	4456	349.89350	100.96700	622.5820		191 284156.901 4821488.021				51.237
L		630			630	192 284156.952 4821488.578				51.246
	4457	353.45550	101.05950	588.2290		193 Nueva LINEA				
	4458	353.49250	101.05700	588.7770		194 284205.160 4821486.968				50.911
L		630			630	195 284205.049 4821487.605				50.925
	4459	356.77100	101.14950	562.8900		196 Nueva LINEA				
	4460	356.80850	101.14400	563.3990		197 284244.405 4821487.092				50.535
L		630			630	198 284244.343 4821487.697				50.574
	4461	359.70200	101.22450	544.5620		199 Nueva LINEA				
	4462	359.73750	101.22050	545.0910		200 284275.783 4821488.112				50.223
L		630			630	201 284275.715 4821488.719				50.247
	4463	363.34700	101.31850	526.0450		202 Nueva LINEA				
	4464	363.37300	101.31800	526.5990		203 284311.519 4821490.283				49.801
L		630			630	204 284311.397 4821490.865				49.794
	4465	368.10250	101.44350	507.6230		205 Nueva LINEA				
	4466	368.11550	101.44250	508.2950		206 284354.096 4821494.251				49.185
L		32			32	207 284353.865 4821494.890				49.178
	4467	331.79800	100.77900	951.6830		208 Nueva LINEA				
	4468	332.56050	100.77150	929.3010		209 283762.517 4821504.918				49.092
	4469	333.71600	100.77950	897.4660		210 283787.551 4821503.937				49.472
	4470	334.09350	100.77600	887.2690		211 283823.412 4821502.488				49.741
	4471	335.53500	100.77600	852.1100		212 283834.882 4821501.869				49.914
	4472	335.96000	100.77500	842.0510		213 283875.148 4821500.409				50.338
	4473	336.24800	100.84050	836.0470		214 283886.673 4821499.840				50.473
	4474	336.25000	100.84350	833.7480		215 283893.784 4821499.810				49.685
	4475	336.37350	100.79750	829.9760		216 283895.735 4821498.593				49.676
						217 283899.774 4821497.919				50.325

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#	L Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		4476	336.61900	100.78150	824.0710					
		4478	337.54450	100.78150	804.2240		218	283906.463	4821497.397	50.606
		4479	339.36900	100.77850	768.5520		219	283929.545	4821496.364	50.847
		4480	341.35950	100.78800	733.7750		220	283971.698	4821494.654	51.318
		4481	343.54000	100.80900	699.6800		221	284013.623	4821492.976	51.630
		4482	345.84500	100.84100	668.1850		222	284055.592	4821491.181	51.818
		4483	348.22400	100.88100	639.1820		223	284095.625	4821489.751	51.880
L			32				224	284133.512	4821488.278	51.859
		4484	336.45400	100.80850	831.7390		225	Nueva LINEA		
		4485	336.73000	100.77500	825.0660		226	283898.862	4821499.755	50.160
		4486	339.50500	100.77050	769.4070		227	283906.410	4821499.145	50.678
		4487	342.53600	100.78950	718.0230		228	283971.955	4821496.489	51.404
		4488	345.96450	100.84000	669.3990		229	284034.289	4821493.939	51.807
		4489	349.67550	100.89100	625.7040		230	284095.542	4821491.495	51.874
L			60				231	284153.223	4821489.269	51.946
		4490	349.70050	100.84200	625.8600		232	Nueva LINEA		
		4491	349.65950	100.84200	625.5150		233	284153.280	4821489.558	52.425
		4492	349.82550	100.84550	623.7460		234	284153.242	4821489.029	52.430
		4493	349.86700	100.84350	624.1420		235	284155.645	4821488.939	52.419
L			205				236	284155.651	4821489.507	52.433
		4494	349.75300	100.83400	625.7360		237	Nueva LINEA		
L			32				238	284153.731	4821489.838	52.506
		4495	351.12550	100.93750	608.6430		239	Nueva LINEA		
		4496	354.21350	101.01400	581.1170		240	284175.214	4821487.003	51.739
M			1.3400				241	284215.081	4821486.268	51.444
		4497	357.63250	101.17950	556.3630		242	Altura Mira		
		4498	361.46600	101.27650	534.3420		243	284254.396	4821486.698	51.050
		4499	365.69250	101.39100	515.6420		244	284293.887	4821488.458	50.642
		4500	368.07700	101.46050	507.0430		245	284333.306	4821491.594	50.089
		4501	368.11650	101.45800	507.7860		246	284354.198	4821493.642	49.723
		4502	368.61800	101.46900	506.1570		247	284354.117	4821494.445	49.726
		4503	368.58250	101.46750	505.4680		248	284358.404	4821494.915	49.675
L			32				249	284358.482	4821494.175	49.703
M			2.0000				250	Nueva LINEA		
		4504	349.85850	100.90150	623.8160		251	Altura Mira		
		4505	354.00550	101.00600	585.1710		252	284155.829	4821489.212	51.869
		4506	360.26100	101.16400	542.7910		253	284210.974	4821488.057	51.453
		4507	365.57850	101.29100	518.0200		254	284280.679	4821489.495	50.773
		4508	370.43700	101.41700	501.8280		255	284331.282	4821493.173	50.190
		4509	376.31150	101.56850	488.9750		256	284373.171	4821497.713	49.525
		4510	383.19750	101.74150	481.9330		257	284420.143	4821504.515	48.647
		4511	389.75050	101.90950	481.1890		258	284472.186	4821514.212	47.510
		4512	396.64400	102.08450	486.3750		259	284520.762	4821523.895	46.261
		4513	1.88300	102.21950	494.4080		260	284572.249	4821534.583	44.770
		4514	7.11550	102.35100	505.9070		261	284612.476	4821543.037	43.460
		4515	12.98700	102.46200	523.9920		262	284654.252	4821551.554	42.015
		4516	17.30400	102.53750	541.1190		263	284703.937	4821561.891	40.436
M			1.3400				264	284743.023	4821569.987	39.134
		4517	19.56150	102.65950	551.6070		265	Altura Mira		
L			32				266	284764.554	4821574.462	38.320
		4518	370.26550	101.51400	500.4080		267	Nueva LINEA		
		4519	375.14900	101.63500	489.2780		268	284372.611	4821495.823	49.454
		4520	380.25600	101.76150	482.2340		269	284411.747	4821501.462	48.788
		4521	385.48600	101.89950	479.2210		270	284450.749	4821508.193	48.011
		4522	390.77800	102.03300	479.8990		271	284489.602	4821515.755	47.056
		4523	396.04600	102.15800	483.9830		272	284528.625	4821523.774	46.030
		4524	1.16750	102.28750	491.2920		273	284567.840	4821531.917	44.950
		4525	6.12400	102.41200	501.6590		274	284606.867	4821540.038	43.704
		4526	10.85800	102.51000	514.9580		275	284646.011	4821548.128	42.351
		4527	15.32850	102.58400	530.7990		276	284685.199	4821556.239	41.056
		4528	19.43500	102.64600	549.0800		277	284724.332	4821564.210	39.817
		4529	19.67250	102.65400	550.3410		278	284762.752	4821572.388	38.542
L			630				279	284765.086	4821572.967	38.420
M			2.0000				280	Nueva LINEA		
		4530	372.97850	101.57400	494.2610		281	Altura Mira		
		4531	372.95950	101.56700	494.9300		282	284394.381	4821499.405	48.474
L			630				283	284393.970	4821499.954	48.512
		4532	380.35650	101.75500	482.8480		284	Nueva LINEA		
		4533	380.35250	101.75050	483.4530		285	284451.287	4821509.011	47.383
L			630				286	284451.074	4821509.578	47.401
		4534	386.10000	101.90700	479.7710		287	Nueva LINEA		
		4535	386.09400	101.90350	480.4000		288	284493.988	4821517.313	46.323
L			630				289	284493.808	4821517.917	46.330
							290	Nueva LINEA		



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#	L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
		4583	48.16350	102.48850	858.2700						
		4584	48.12650	102.48200	858.5160			364	285186.537	4821672.824	27.185
L			630					365	285186.345	4821673.348	27.263
M			3.1500			630		366	Nueva LINEA		
		4585	48.39950	102.44450	862.5340			367	Altura Mira		
		4586	48.35050	102.45300	862.8620			368	285191.797	4821673.742	26.464
L			100					369	285191.538	4821674.433	26.337
M			3.8500			100		370	Nueva LINEA		
		4587	27.52950	102.69650	596.8500			371	Altura Mira		
L			32					372	284847.764	4821590.575	33.577
M			1.3400			32		373	Nueva LINEA		
		4588	25.80500	102.70850	584.6040			374	Altura Mira		
		4589	27.04750	102.70400	592.7310			375	284828.181	4821585.896	36.495
		4590	27.56950	102.71000	596.4230			376	284841.960	4821588.699	36.192
		4591	30.39600	102.71150	617.1510			377	284847.923	4821590.026	35.979
		4592	33.45700	102.71000	643.0800			378	284881.198	4821596.787	35.084
		4593	36.22150	102.68500	671.0780			379	284920.188	4821604.947	33.997
		4594	38.77150	102.66150	700.3610			380	284959.088	4821614.007	33.072
		4595	41.11050	102.62650	730.5280			381	284998.160	4821623.095	32.098
		4596	43.25500	102.58600	761.5390			382	285037.121	4821632.090	31.241
		4597	45.18800	102.55850	793.1590			383	285075.986	4821641.085	30.449
		4598	45.85400	102.54950	805.3840			384	285114.334	4821650.271	29.511
		4599	46.84600	102.53250	824.8650			385	285128.654	4821654.020	29.135
		4600	48.14950	102.48750	856.1950			386	285151.085	4821660.112	28.577
		4601	48.20550	102.48700	857.9050			387	285184.977	4821671.446	27.939
		4602	48.24550	102.49250	859.1070			388	285186.698	4821672.171	27.879
M			2.0000					389	285187.913	4821672.671	27.758
		4603	48.34550	102.45450	860.6870			390	Altura Mira		
L			32					391	285189.992	4821672.903	27.550
M			1.3400			32		392	Nueva LINEA		
		4604	25.68250	102.69850	585.9680			393	Altura Mira		
		4605	27.38300	102.71100	597.5670			394	284827.685	4821587.596	36.529
		4606	31.10300	102.70850	625.3980			395	284846.814	4821591.794	35.921
		4607	33.34700	102.70050	644.7300			396	284891.130	4821600.884	34.763
		4608	36.05550	102.68550	671.9860			397	284920.054	4821606.934	34.023
		4609	38.61500	102.65600	701.3830			398	284958.100	4821615.712	33.028
		4610	40.83400	102.62750	729.8030			399	284997.331	4821624.919	32.116
		4611	42.85650	102.59500	758.6450			400	285034.151	4821633.411	31.260
		4612	44.54450	102.56550	785.1860			401	285070.466	4821641.802	30.459
		4613	45.90800	102.54600	809.5890			402	285103.099	4821649.364	29.744
		4614	47.05200	102.52750	833.5440			403	285131.942	4821656.727	29.011
		4615	48.12050	102.48550	859.5840			404	285158.903	4821664.730	28.298
M			2.0000					405	285187.017	4821674.178	27.834
		4616	48.29950	102.48400	862.3810			406	Altura Mira		
L			40					407	285190.695	4821674.548	27.086
M			1.3400			40		408	Nueva LINEA		
		4617	47.77750	102.48550	851.5940			409	Altura Mira		
		4618	47.62450	102.44750	850.6460			410	285178.196	4821671.504	28.145
		4619	47.16000	102.44700	841.7040			411	285176.068	4821672.217	28.689
		4620	46.80000	102.44050	832.7200			412	285165.476	4821669.825	29.039
		4621	45.94050	102.49400	814.3920			413	285155.939	4821666.369	29.468
		4622	45.31850	102.49700	803.7650			414	285135.439	4821660.077	29.484
		4623	44.93500	102.55100	792.9470			415	285122.507	4821657.259	29.862
L			100					416	285111.806	4821652.161	29.613
M			3.8500			100		417	Nueva LINEA		
		4624	45.81800	102.55250	805.4790			418	Altura Mira		
L			23					419	285128.373	4821654.391	26.583
M			1.3400			23		420	Nueva LINEA		
		4625	40.78150	102.61200	730.7560			421	Altura Mira		
		4626	39.63850	102.58700	716.5360			422	285034.242	4821634.540	31.398
		4627	38.62750	102.59350	704.8080			423	285015.384	4821630.747	32.261
		4628	37.89000	102.61400	698.6950			424	284999.412	4821627.675	32.665
		4629	36.98500	102.63750	687.2970			425	284989.254	4821627.222	32.688
		4630	35.20650	102.71300	667.1840			426	284974.741	4821623.198	32.902
		4631	33.56750	102.67350	651.6190			427	284947.987	4821616.373	32.942
		4632	32.22050	102.67950	639.5300			428	284925.453	4821611.773	34.008
		4633	31.11100	102.68350	629.2870			429	284907.620	4821608.011	34.454
		4634	30.19250	102.67100	619.6720			430	284893.028	4821604.287	34.845
		4635	27.31250	102.65050	600.0570			431	284880.604	4821599.946	35.371
L			23					432	284847.257	4821594.354	36.385
		4636	17.57250	102.45500	547.5860			433	Nueva LINEA		
		4637	17.13450	102.59450	541.4990			434	284746.987	4821575.614	40.245
L			710					435	284741.732	4821570.719	39.294
						710		436	Nueva LINEA		

# -ISPOL- Libreta Topografica  
 # ---- Datos de Entrada ----  
 # -----

ispol-V.6.61 3 Jul 1998 10: 1 47

C0 ISPOL V322 T4 RONDA SUR DE GIJON

06 A90 2007

#L	Ba/Pt	L.AZIM / X	L.VERT / Y	DIST. / Z	COD.	OBSERVACIONES	LIN	X	Y	Z
	4751	310.66400	104.63050	176.2570			582	283434.586	4821513.231	46.390
L		10			10		583	Nueva LINEA		
	4752	309.93400	104.32300	191.0730			584	283419.600	4821513.548	46.234
	4753	312.07650	105.38100	147.7470			585	283463.338	4821511.682	46.725
	4754	313.36700	106.01800	130.2010			586	283481.143	4821510.938	46.908
	4755	317.43350	107.92850	95.7820			587	283516.417	4821509.624	47.300
	4756	320.71450	109.47350	78.9420			588	283533.942	4821508.878	47.493
	4757	328.69500	113.05350	56.1820			589	283558.404	4821507.884	47.758
	4758	346.12650	119.77900	36.5180			590	283581.880	4821506.967	48.033
L		174			174		591	Nueva LINEA		
	4759	363.54700	122.78900	31.7100			592	283591.823	4821508.884	48.087
	4760	336.34350	114.84950	49.2980			593	283567.558	4821509.840	47.802
	4761	325.36800	110.61500	70.1510			594	283544.157	4821510.764	47.554
	4762	318.27200	107.64800	100.1330			595	283512.571	4821512.064	47.197
	4763	315.80400	106.57950	118.4080			596	283493.750	4821512.860	46.982
	4764	313.43550	105.53300	143.7960			597	283467.841	4821513.930	46.716
	4765	311.90250	104.86050	166.9890			598	283444.315	4821514.870	46.462
	4766	310.92550	104.41500	187.1970			599	283423.913	4821515.813	46.227
	4767	310.45050	104.13700	202.6070			600	283408.455	4821516.962	46.043
	4768	309.82600	103.53700	250.4550			601	283360.821	4821522.365	45.293
	4769	309.82850	103.32300	273.0130			602	283338.519	4821525.846	44.958
	4770	309.87750	103.19200	288.2900			603	283323.448	4821528.416	44.754
	4771	309.94450	103.00500	312.0490			604	283300.011	4821532.414	44.479
	4772	310.07300	102.86000	333.1850			605	283279.227	4821536.367	44.241
L		60			60		606	Nueva LINEA		
	4773	309.98850	103.53550	252.9080			607	283358.501	4821523.379	45.163
	4774	310.24250	103.53400	252.9350			608	283358.633	4821524.378	45.167
	4775	310.28200	103.60650	246.9290			609	283364.593	4821523.566	45.220
	4776	310.13500	103.60950	246.8860			610	283364.545	4821522.997	45.211



06 ABR 2007

## 14.-RESEÑAS DE LAS BASES DEL AMBITO DEL TRABAJO



TECNIA  
ingeniería

# BASE TOPOGRAFICA



Nº DE BASE:

30506

NOMBRE BASE:

30506

TITULO

TRABAJO DE TOPOGRAFIA PARA LA EDIFICACION DEL AREA RESIDENCIAL DE ROCES

ZONA

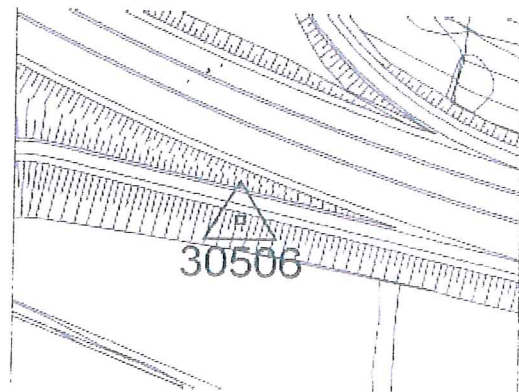
TERMINO MUNICIPAL DE GIJON

FOTOGRAFIA DE LA BASE



CROQUIS DE LA BASE

COORDENADAS	
X:	283119.004
Y:	4821533.328
Z:	44.542



## RESEÑA

Clavo de acero, en el borde de la entrada a la Ronda Sur, por Tremañes (dirección Oviedo-Gijón), despues de pasar la cooperativa gijonesa de carpinteria.



# BASE TOPOGRAFICA



Nº DE BASE:

30065

NOMBRE BASE:

30065

TITULO

TRABAJO DE TOPOGRAFIA PARA LA EDIFICACION DEL AREA RESIDENCIAL DE ROCES

ZONA

TERMINO MUNICIPAL DE GIJON

FOTOGRAFIA DE LA BASE



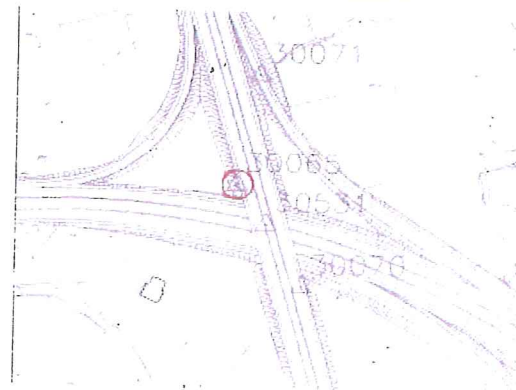
CROQUIS DE LA BASE

## COORDENADAS

X: 286869.404

Y: 4822428.150

Z: 23.022



## RESEÑA

Clavo con arandela. Tomando el carril provisional fuera de servicio, desde la glorieta (situada al final de la Ronda en la salida hacia La Guía), se encuentra al principio del puente.



TECNIA  
ingeniería

# BASE TOPOGRAFICA



**Nº DE BASE:**

31006

**NOMBRE BASE:**

31006

**TITULO**

TRABAJO DE TOPOGRAFIA PARA LA EDIFICACION DEL AREA  
RESIDENCIAL DE ROCES

**ZONA**

TERMINO MUNICIPAL DE GIJON

FOTOGRAFIA DE LA BASE

CROQUIS DE LA BASE

COORDENADAS

X: 284131.360

Y: 4820327.078

Z: 88.991

RESEÑA

Estaca de madera en la cabeza del talud próximo a la carretera con dirección de la Carbayera de Granda.



## LISTADO BASES

<u>NOMBRE BASE</u>	<u>COORD X</u>	<u>COORD Y</u>	<u>COORD Z</u>
31006	284131.360	4820327.078	88.991
30506	283119.004	4821533.328	44.542
30505	283607.915	4821483.922	58.194
30504	285188.856	4821606.822	26.298
30503	284404.598	4821139.275	30.439
30502	284458.399	4821189.208	30.387
30501	284831.063	4821544.074	32.008
30065	286869.404	4822428.150	23.022
30053	285190.042	4821555.084	23.559
30052	284425.064	4821473.634	49.224
30051	283799.604	4821445.854	55.620
30012	285188.077	4821675.799	27.964
30011	283901.435	4821629.250	61.953
30010	284048.220	4821642.725	63.465
30009	284274.864	4821613.579	64.151
30008	284622.332	4821037.528	63.942
30007	284817.542	4821595.408	32.972
30006	284733.364	4821580.227	48.177
30005	284367.128	4820286.959	82.380
30004	284597.876	4821049.149	61.157
30003	284578.510	4821657.433	60.909
30002	284775.123	4821618.072	48.971
30001	284765.883	4821686.323	58.372



## 14.-RESEÑAS DE LAS BASES DEL AMBITO DEL TRABAJO

06 AGO 2007

Informe de Topografía

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## 15.-PLANOS

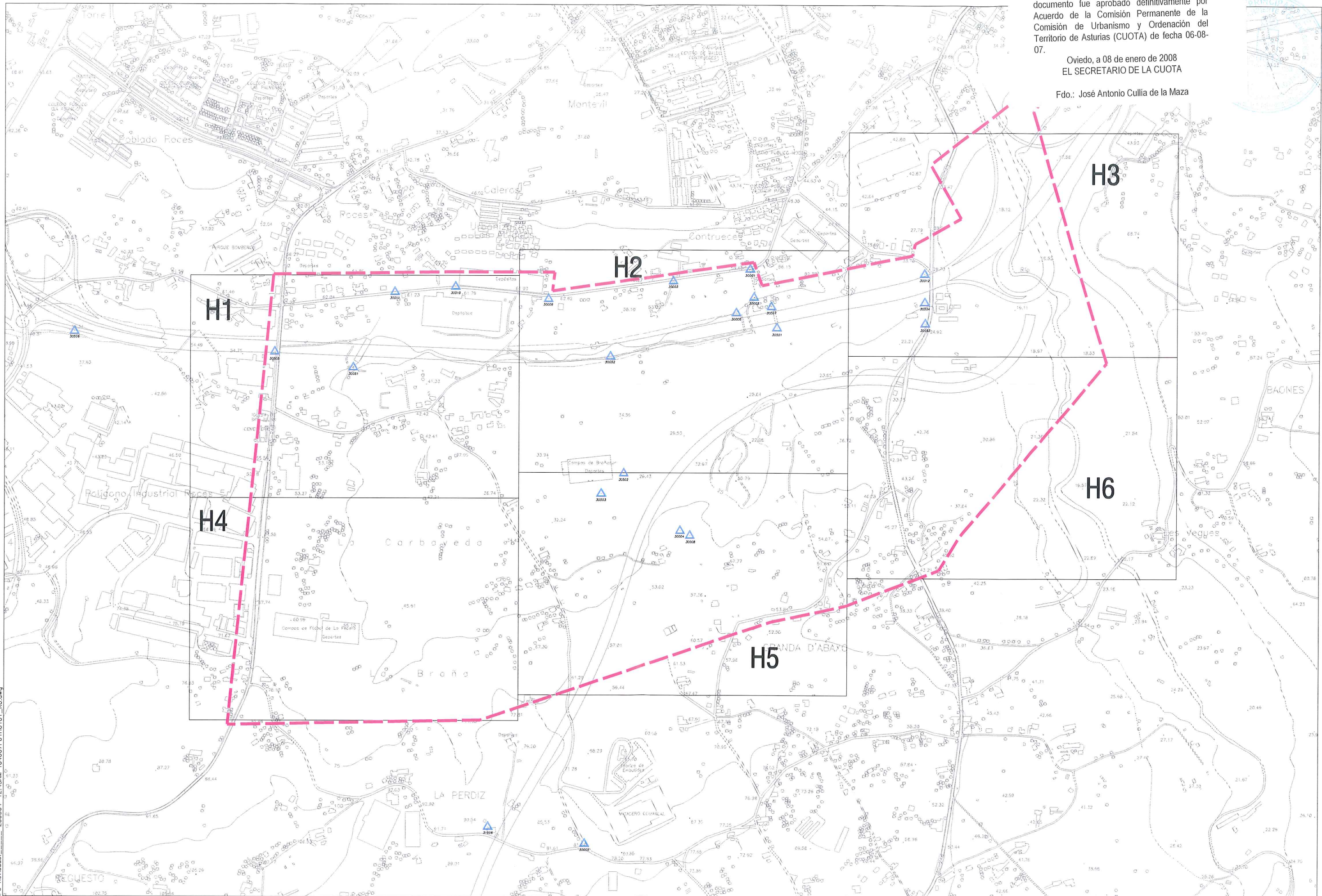
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15.2.- PLANOS DE CARTOGRAFIA: 4 PLANOS. 1/1000 , ORIGINALES EN A1

DILIGENCIA: Para hacer constar que el presente documento fue aprobado definitivamente por Acuerdo de la Comisión Permanente de la Comisión de Urbanismo y Ordenación del Territorio de Asturias (CUOTA) de fecha 06-08-07.

Oviedo, a 08 de enero de 2008  
EL SECRETARIO DE LA CUOTA

Fdo.: José Antonio Cullia de la Maza



Rev. 0 Dib: IFC Revisado: 250504-12:45AM T0400701H0101\_R0.dwg

TITULO  
TRABAJOS DE TOPOGRAFIA PARA  
LA EJECUCION DEL AREA RESIDENCIAL DE ROCAS  
- GIJON -



CLAVE T04007  
FECHA MAYO 2004  
ESCALAS 1/4000  
ORIGINALES EN A1 GRAFICAS

DESIGNACION  
PLANTA TOPOGRAFICA

PLANO Nº 1  
HOJA 1 DE 1



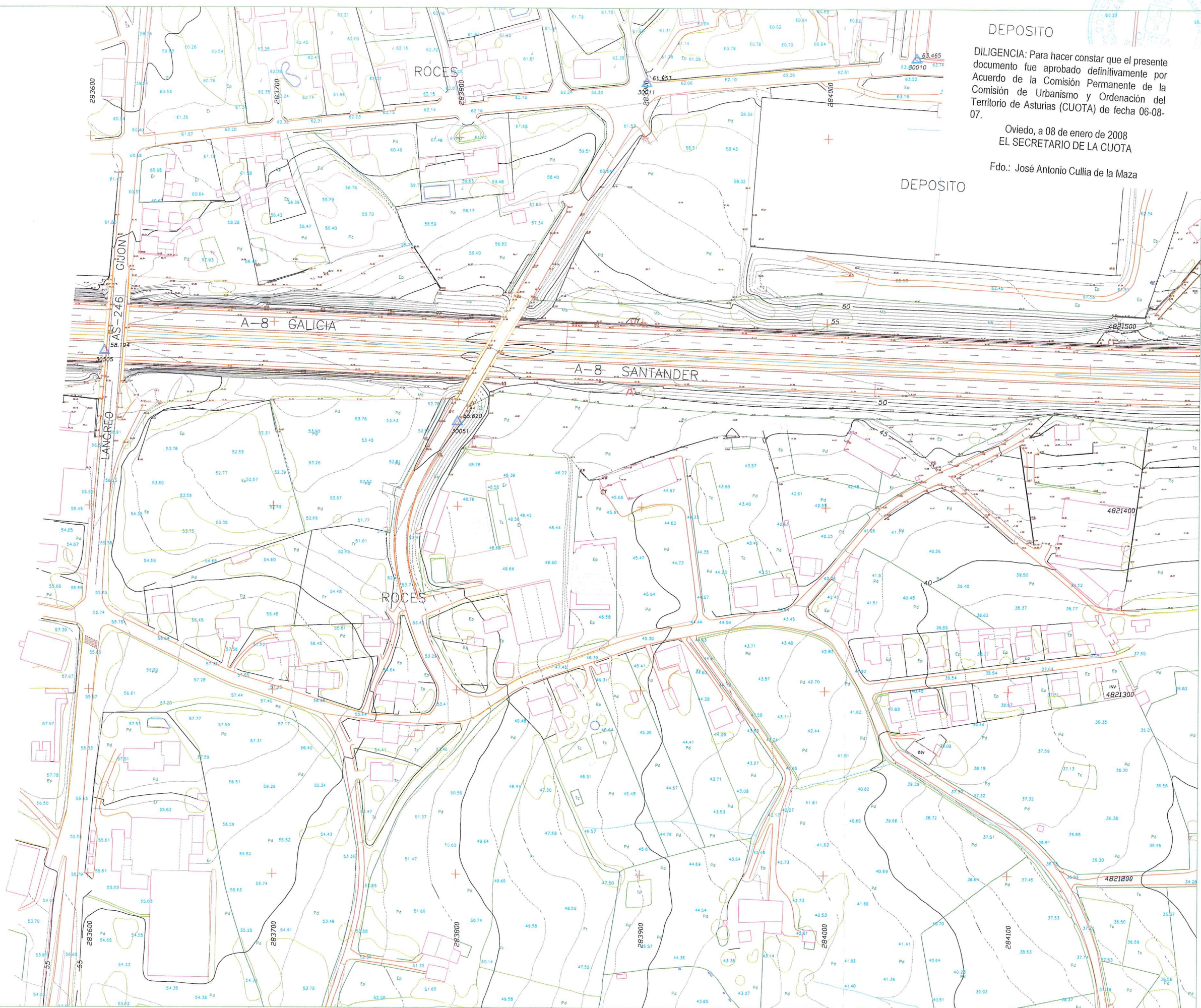
DEPOSITO

DILIGENCIA: Para hacer constar que el presente documento fue aprobado definitivamente por Acuerdo de la Comisión Permanente de la Comisión de Urbanismo y Ordenación del Territorio de Asturias (CUOTA) de fecha 06-08-07.

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DEPOSITO



4821600

283500

4821500

4821400

4821300

4821200

283500

Rev. 0 Dib: IFC Revisado: 250504-13:22AM T04007P02H0206.dwg

TITULO  
TRABAJOS DE TOPOGRAFIA PARA  
LA EJECUCION DEL AREA RESIDENCIAL DE ROCES  
- GIJON -



CLAVE  
T04007  
FECHA  
MAYO 2004  
ESCALAS  
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ORIGINALES EN A1  
GRAFICAS

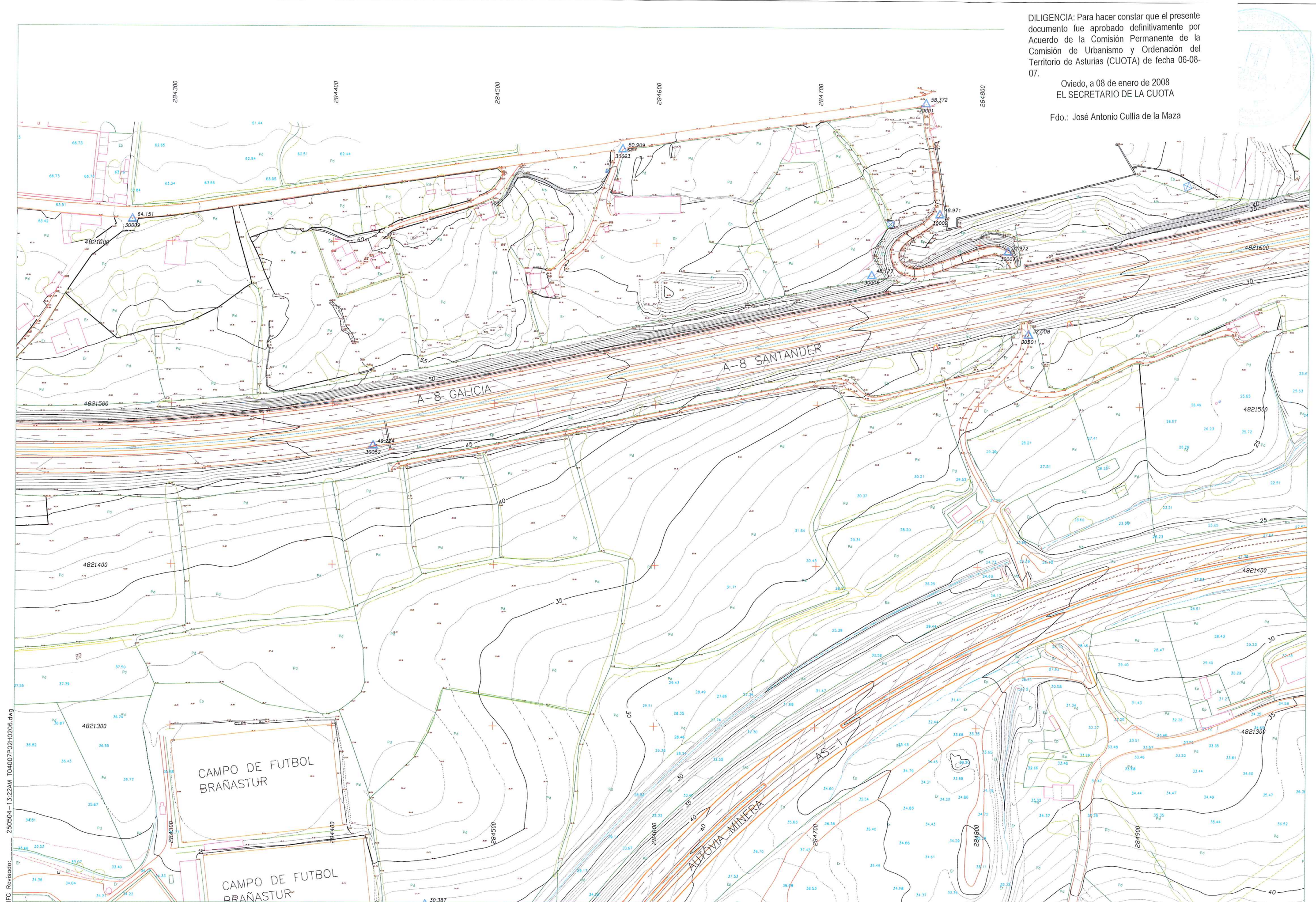
DESIGNACION  
PLANTA TOPOGRAFICA

PLANO N° 2  
HOJA 1 DE 6

DILIGENCIA: Para hacer constar que el presente documento fue aprobado definitivamente por Acuerdo de la Comisión Permanente de la Comisión de Urbanismo y Ordenación del Territorio de Asturias (CUOTA) de fecha 06-08-07.

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Fdo.: José Antonio Cullia de la Maza



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CAMPO DE FUTBOL  
BRAÑASTUR

CAMPO DE FUTBOL  
BRAÑASTUR

TITULO

TRABAJOS DE TOPOGRAFIA PARA  
LA EJECUCION DEL AREA RESIDENCIAL DE ROCES  
- GIJON -



CLAVE T04007	ESCALAS 1/1000	0 50m
FECHA MAYO 2004	ORIGINALES EN A1	GRAFICAS

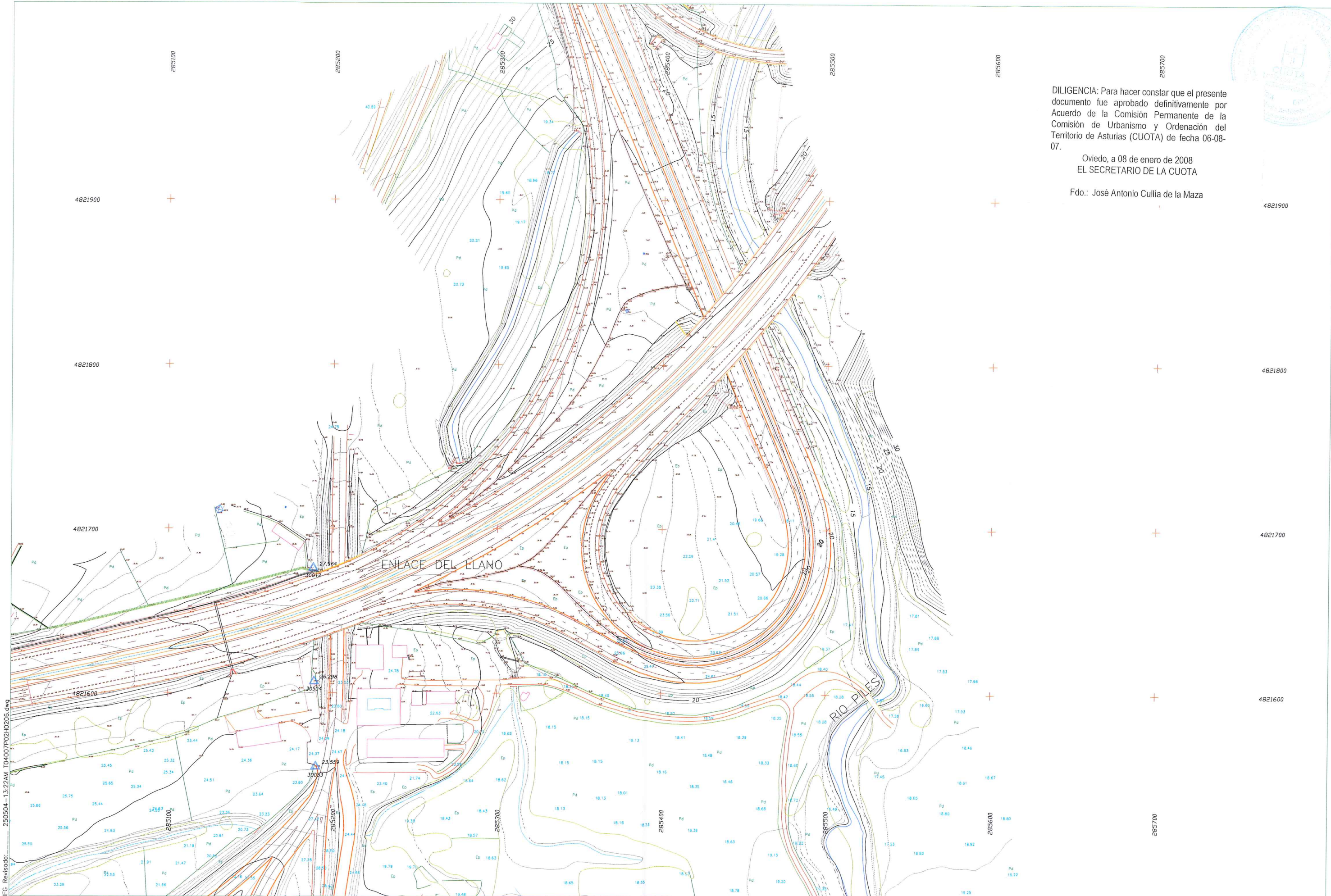
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TITULO  
TRABAJOS DE TOPOGRAFIA PARA  
LA EJECUCION DEL AREA RESIDENCIAL DE ROCES  
- GIJON -



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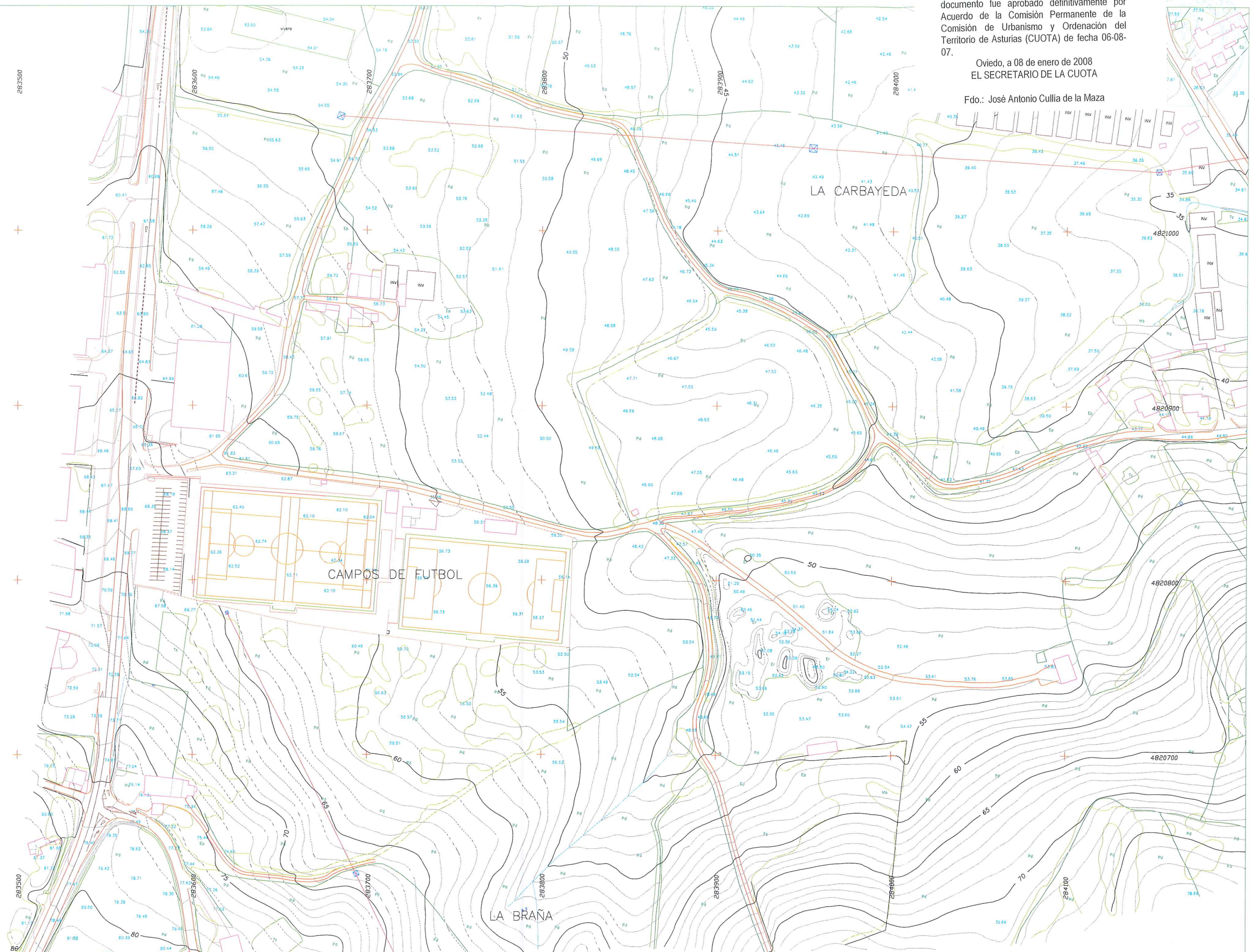
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PLANO Nº 2  
HOJA 3 DE 6

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TITULO  
TRABAJOS DE TOPOGRAFIA PARA  
LA EJECUCION DEL AREA RESIDENCIAL DE ROCES  
- GIJON -



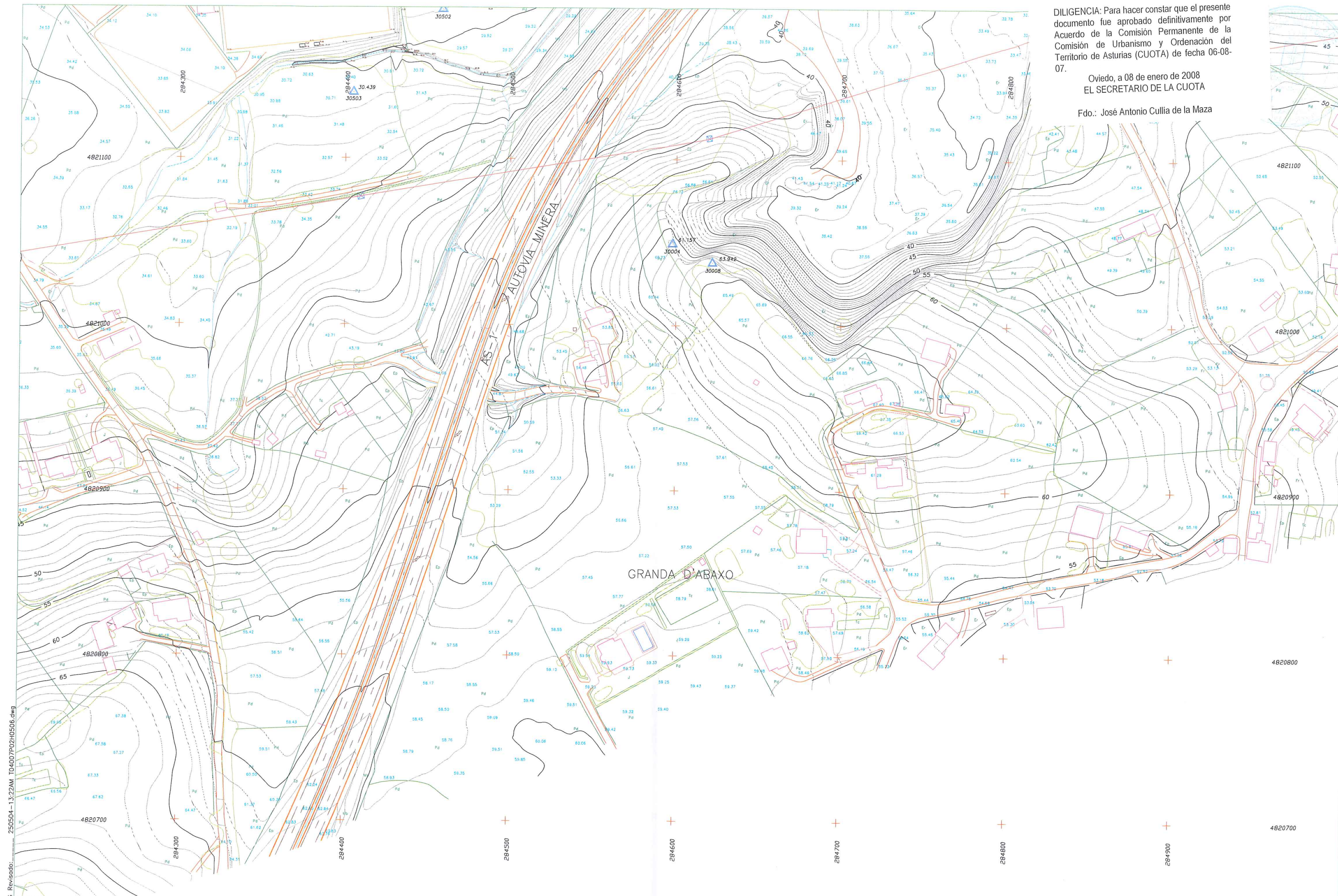
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ORIGINALES EN A1 GRAFICAS

DESIGNACION  
PLANTA TOPOGRAFICA  
PLANO N° 2  
HOJA 4 DE 6

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TITULO  
TRABAJOS DE TOPOGRAFIA PARA  
LA EJECUCION DEL AREA RESIDENCIAL DE ROCES  
- GIJON -



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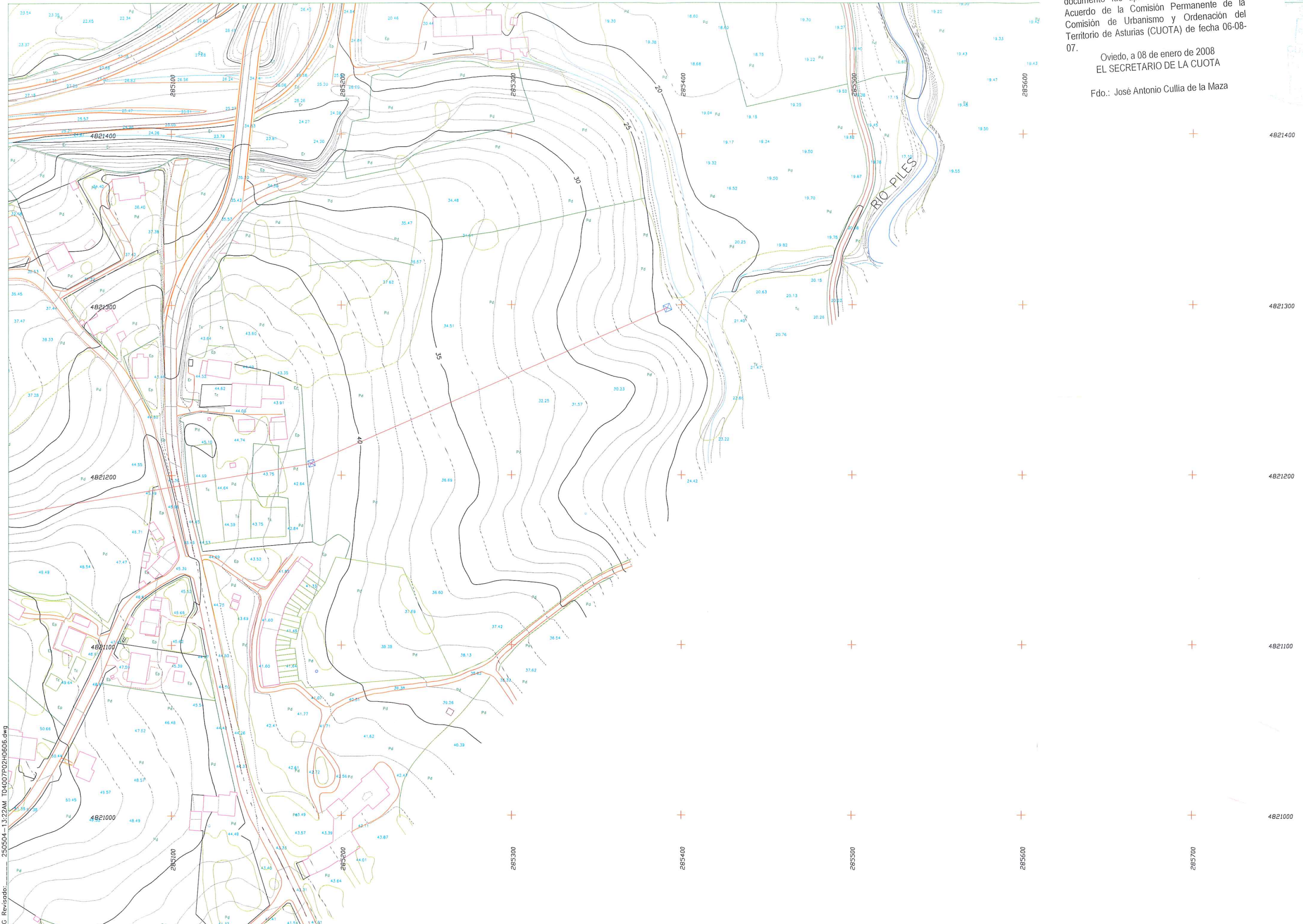
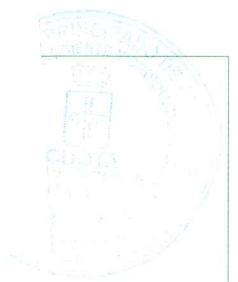
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TITULO  
 TRABAJO DE TOPOGRAFIA PARA  
 LA EJECUCION DEL AREA RESIDENCIAL DE ROCES  
 - GIJON -



CLAVE  
 T04007  
 FECHA  
 MAYO 2004

ESCALAS  
 1/1000  
 ORIGINALES EN A1



DESIGNACION

PLANTA TOPOGRAFICA

PLANO N° 2  
 HOJA 6 DE 6