



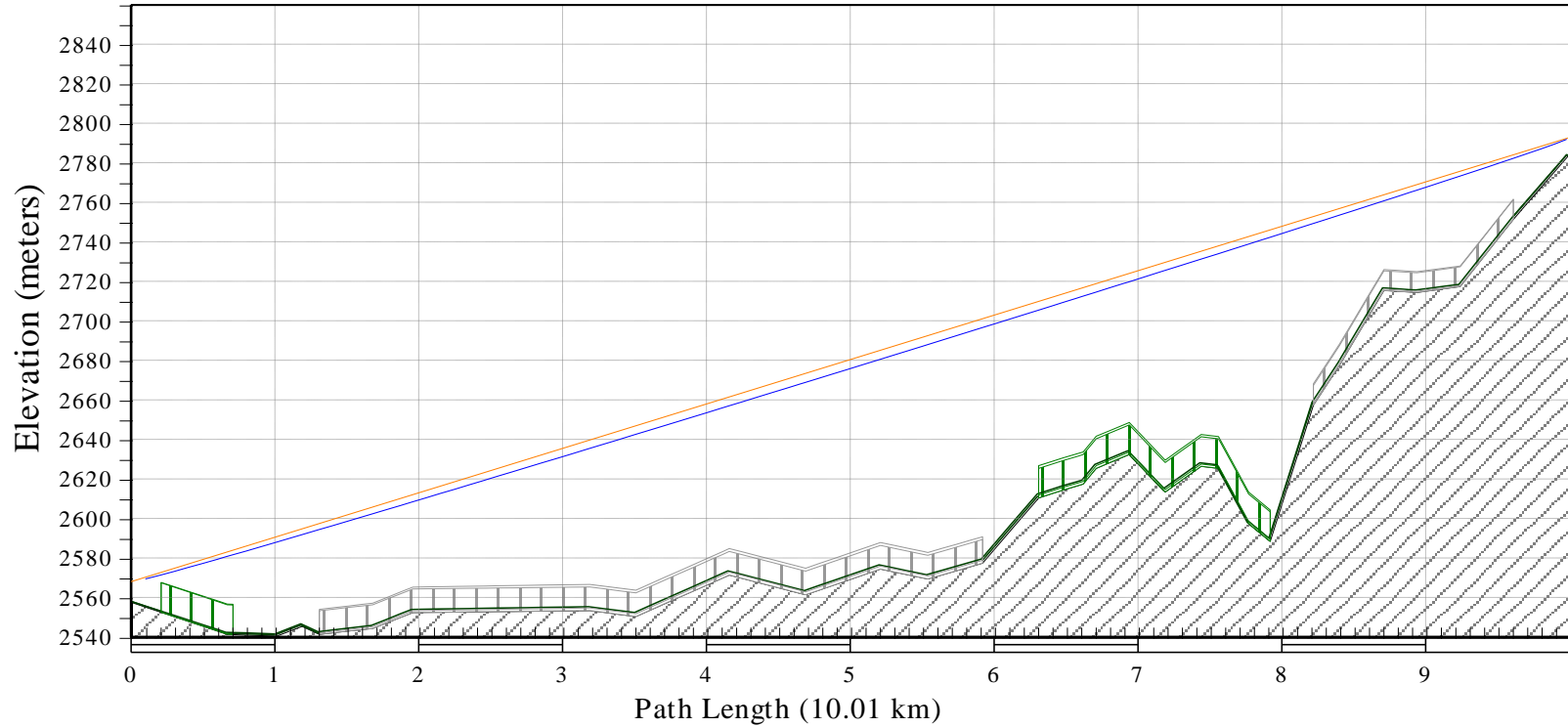
CLIENTE:
CDM SMITH - INGESAM

CONTRATO No.:

DOCUMENTO NO.:
INF-PTAR-003

ELABORO:
P.VIVEROS

FECHA:
19/09/2013



<p>PTAR CANOAS Latitude 004 34 23 N Longitude 074 15 38 W Azimuth 88.92 deg Elevation 2558 mASL Antenna CL 10.0 mAGL</p>	<p>Frequency = 13000.0 MHz K = 1.33 %F1 = 60.00</p> <p>VITECH COM SAS.</p>	<p>SIERRA MORENA Latitude 004 34 29 N Longitude 074 10 13 W Azimuth 268.92 deg Elevation 2783 mASL Antenna CL 10.0 mAGL</p>
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<p>PROYECTO: PTAR CANOAS - EAAB - CMD SMITH</p>	<p>Date 19/09/2013</p>	<p>By PVE</p>
<p>ALTERNATIVA #1 - COMUNICACIONES</p>	<p>cansm.p13</p>	



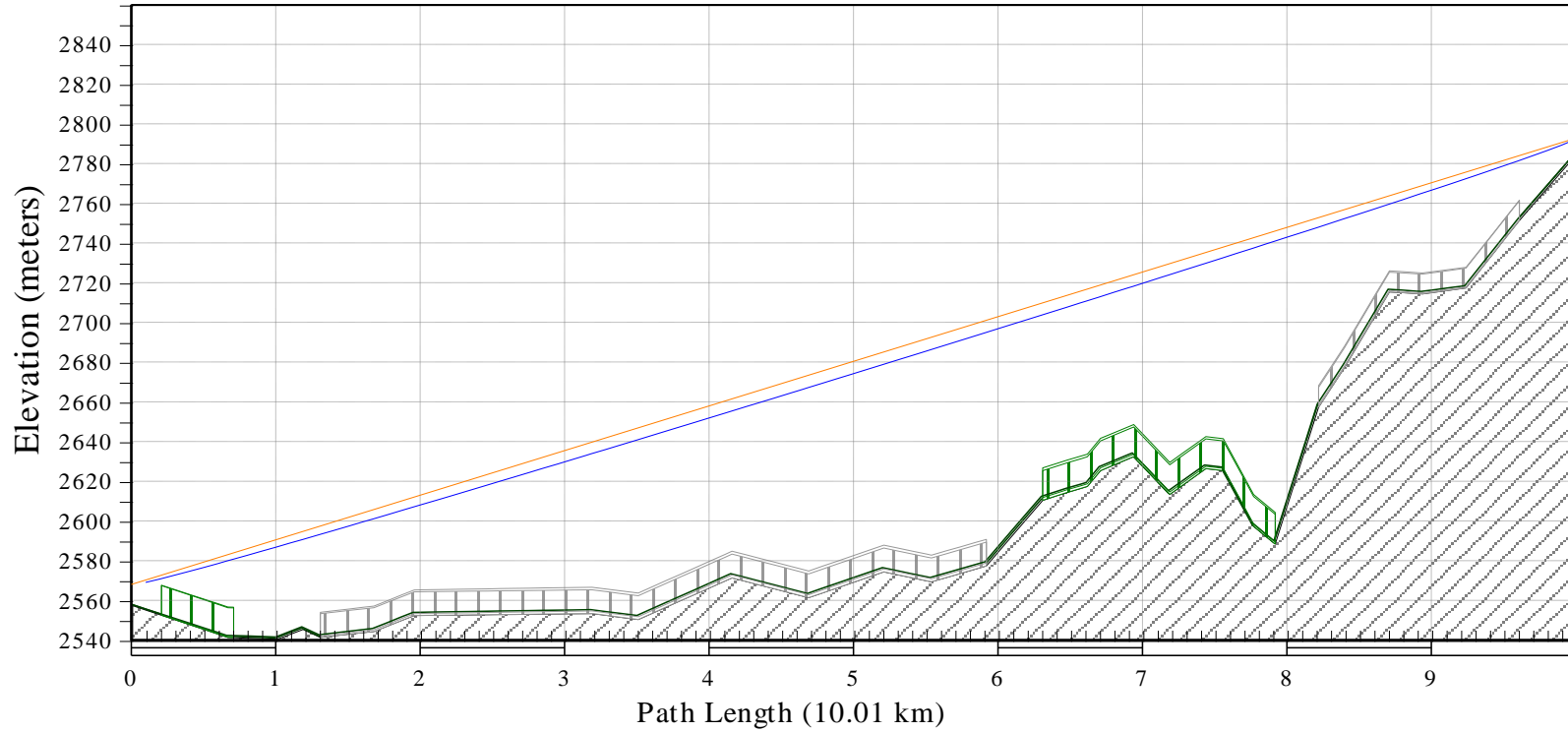
CLIENTE:
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ELABORO:
P.VIVEROS

FECHA:
19/09/2013



<p>PTAR CANOAS Latitude 004 34 23 N Longitude 074 15 38 W Azimuth 88.92 deg Elevation 2558 mASL Antenna CL 10.0 mAGL</p>	<p>Frequency = 7000.0 MHz K = 1.33 %F1 = 60.00 VITECH COM SAS.</p>	<p>SIERRA MORENA Latitude 004 34 29 N Longitude 074 10 13 W Azimuth 268.92 deg Elevation 2783 mASL Antenna CL 10.0 mAGL</p>
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<p>PROYECTO: PTAR CANOAS - EAAB - CMD SMITH ALTERNATIVA #1 - COMUNICACIONES</p>	<p>Date 19/09/2013</p>	<p>By PVE cansm.p13</p>
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	CLIENTE: CDM SMITH - INGESAM		CONTRATO No.:	
	DOCUMENTO NO.: INF-PTAR-003		ELABORO: P.VIVEROS	FECHA: 19/09/2013

PTAR CANOAS

SIERRA MORENA

Latitude	004 34 23 N	004 34 29 N
Longitude	074 15 38 W	074 10 13 W
Azimuth	88.92	268.92
Distance (km)		10.01
Datum	NAD27 - Clarke 1866	
UTM Zone	18	18
Easting (km)	582.037	592.045
Northing (km)	505.487	505.687
Elevation (m)	2558.0	2783.0
Antenna Height (m)	10.0	10.0
Frequency (MHz)		13000.00
Polarization		Vertical

Dist (km)	Elev (m)	Strut (m)	Gnd	Dist (km)	Elev (m)	Strut (m)	Gnd
0.00	2558.0		AG	6.47	2615.0		AG
0.20	2553.2	15 T (sr)	AG	6.61	2618.0		AG
0.66	2542.0		AG	6.70	2626.0		AG
0.70	2541.9	T (er)	AG	6.93	2633.0		AG
1.00	2541.0		AG	7.18	2614.0		AG
1.18	2546.0		AG	7.43	2627.0		AG
1.30	2542.0	12 B (sr)	AG	7.55	2626.0		AG
1.67	2545.0		AG	7.76	2598.0		AG
1.95	2553.0		AG	7.91	2589.0	T (er)	AG
3.18	2554.0		AG	8.21	2658.0	10 B (sr)	AG
3.50	2551.0		AG	8.39	2678.0		AG
4.15	2572.0		AG	8.70	2716.0		AG
4.68	2562.0		AG	8.93	2715.0		AG
5.20	2575.0		AG	9.23	2718.0		AG
5.53	2570.0		AG	9.60	2752.0	B (er)	AG
5.91	2578.0	B (er)	AG	9.98	2784.0		AG
6.30	2611.0	15 T (sr)	AG	10.01	2783.0		AG

Ground Elevations - AMSL, Structure & Antenna Heights - AGL

Ground Type

PG - Poor, AG - Average, GG - Good, FW - Fresh Water, SW - Salt Water

Structure Type

T - Tree, B - Building, WT - Water Tower

sr - start range, er - end range, op - off path



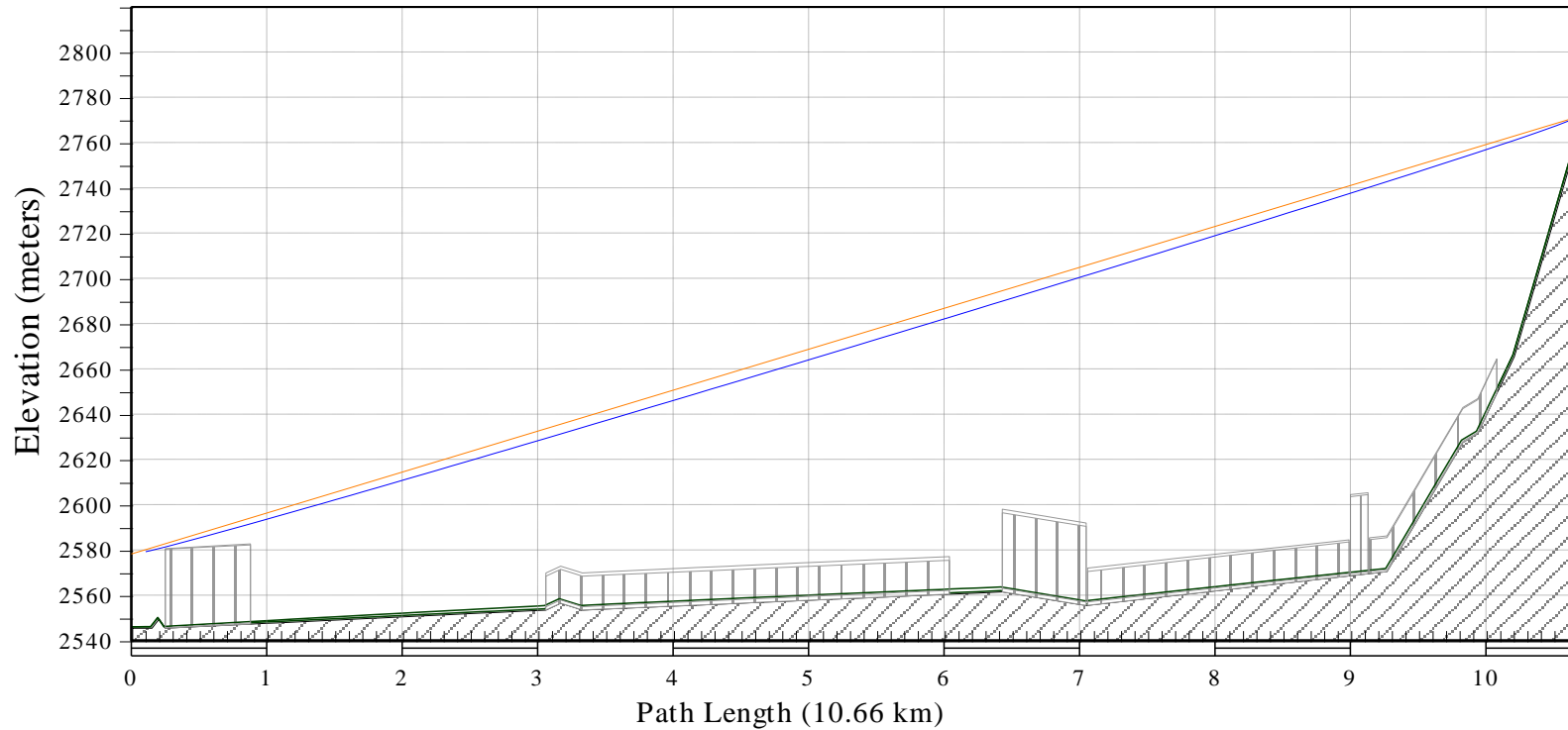
CLIENTE:
CDM SMITH - INGESAM

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DOCUMENTO NO.:
INF-PTAR-003

ELABORO:
P.VIVEROS

FECHA:
19/09/2013



<p>CONTROL MODELIA</p> <p>Latitude 004 39 39 N Longitude 074 07 38 W Azimuth 206.63 deg Elevation 2546 mASL Antenna CL 32.2 mAGL</p>	<p>Frequency = 13000.0 MHz K = 1.33 %F1 = 60.00</p> <p>VITECH COM SAS.</p>	<p>SIERRA MORENA</p> <p>Latitude 004 34 29 N Longitude 074 10 13 W Azimuth 26.62 deg Elevation 2761 mASL Antenna CL 10.0 mAGL</p>
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<p>PROYECTO: PTAR CANOAS - EAAB - CDM SMITH</p>	<p>Date 19/09/2013</p>	<p>By PVE</p>
<p>ALTERNATIVA # 1 - COMUNICACIONES</p>	<p>ccmsm.pl3</p>	



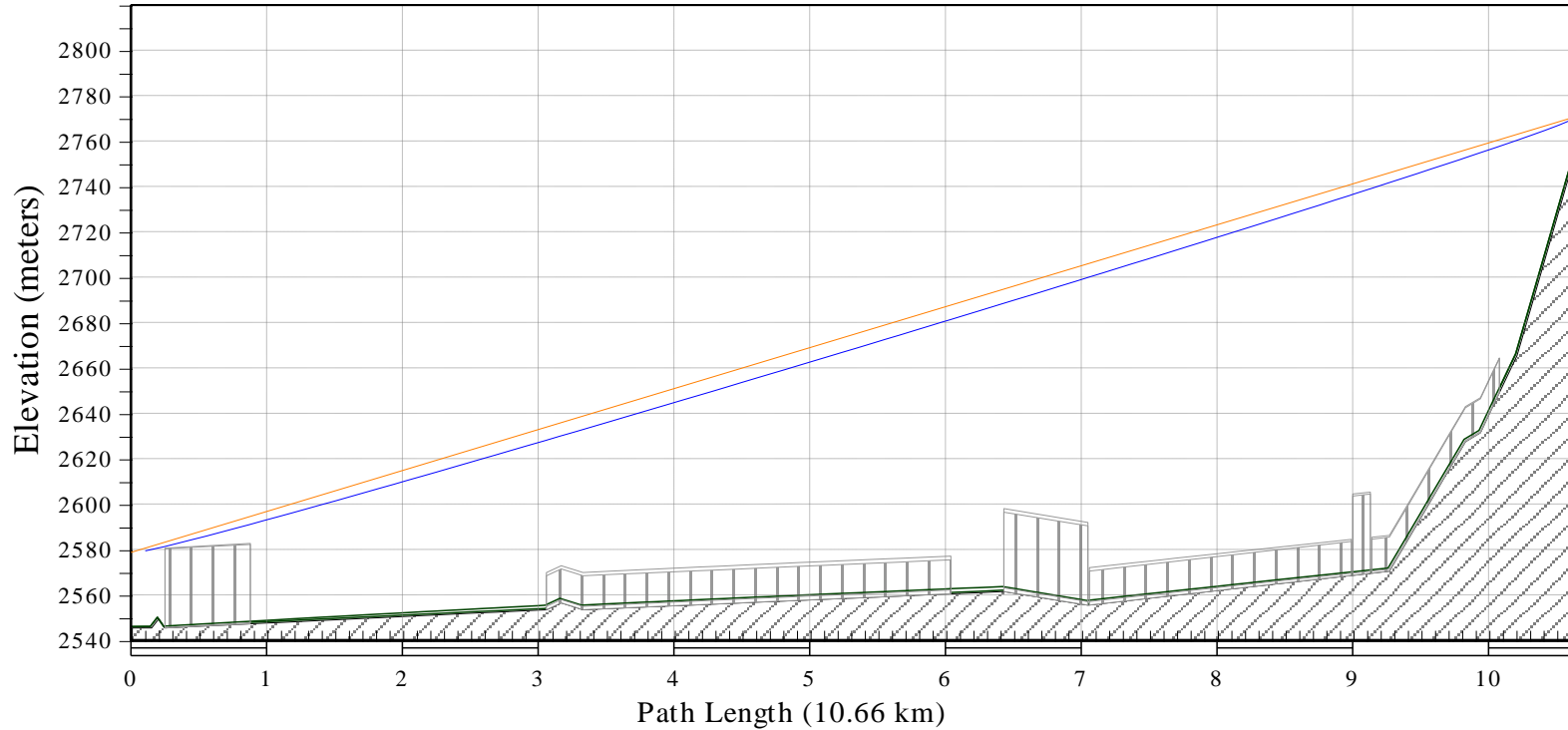
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INF-PTAR-003


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P.VIVEROS

FECHA:
19/09/2013



<p>CONTROL MODELIA</p> <p>Latitude 004 39 39 N Longitude 074 07 38 W Azimuth 206.63 deg Elevation 2546 mASL Antenna CL 32.7 mAGL</p>	<p>Frequency = 7000.0 MHz K = 1.33 %F1 = 60.00</p> <p>VITECH COM SAS.</p>	<p>SIERRA MORENA</p> <p>Latitude 004 34 29 N Longitude 074 10 13 W Azimuth 26.62 deg Elevation 2761 mASL Antenna CL 10.0 mAGL</p>
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<p>PROYECTO: PTAR CANOAS - EAAB - CDM SMITH</p>	<p>Date 19/09/2013</p>	<p>By PVE</p>
<p>ALTERNATIVA # 1 - COMUNICACIONES</p>	<p>ccmsm.p13</p>	

	CLIENTE: CDM SMITH - INGESAM		CONTRATO No.:	
	DOCUMENTO NO.: INF-PTAR-003	ELABORO: P.VIVEROS	FECHA: 19/09/2013	

CONTROL MODELIA

SIERRA MORENA

Latitude	004 39 39 N	004 34 29 N
Longitude	074 07 38 W	074 10 13 W
Azimuth	206.63	26.62
Distance (km)		10.66
Datum	NAD27 - Clarke 1866	
UTM Zone	18	18
Easting (km)	596.812	592.046
Northing (km)	515.212	505.676
Elevation (m)	2546.0	2761.0
Antenna Height (m)	32.2	10.0
Frequency (MHz)	13000.00	
Polarization	Vertical	

Dist (km)	Elev (m)	Strut (m)	Gnd	Dist (km)	Elev (m)	Strut (m)	Gnd
0.00	2546.0		AG	7.05	2556.1	15 B (sr)	AG
0.14	2546.0		AG	8.98	2569.1	B (er)	AG
0.20	2550.0		AG	8.99	2569.2	35 B (sr)	AG
0.24	2546.0	35 B (sr)	AG	9.12	2570.1	B (er)	AG
0.87	2547.8	B (er)	AG	9.13	2570.1	15 B (sr)	AG
3.05	2554.0	15 B (sr)	AG	9.26	2571.0		AG
3.16	2557.0		AG	9.82	2628.0		AG
3.32	2554.0		AG	9.93	2632.0		AG
6.03	2561.0	B (er)	AG	10.07	2649.6	B (er)	AG
6.42	2562.0	35 B (sr)	AG	10.20	2666.0		AG
7.04	2556.0	B (er)	AG	10.66	2761.0		AG

Ground Elevations - AMSL, Structure & Antenna Heights - AGL

Ground Type

PG - Poor, AG - Average, GG - Good, FW - Fresh Water, SW - Salt Water

Structure Type

T - Tree, B - Building, WT - Water Tower

sr - start range, er - end range, op - off path



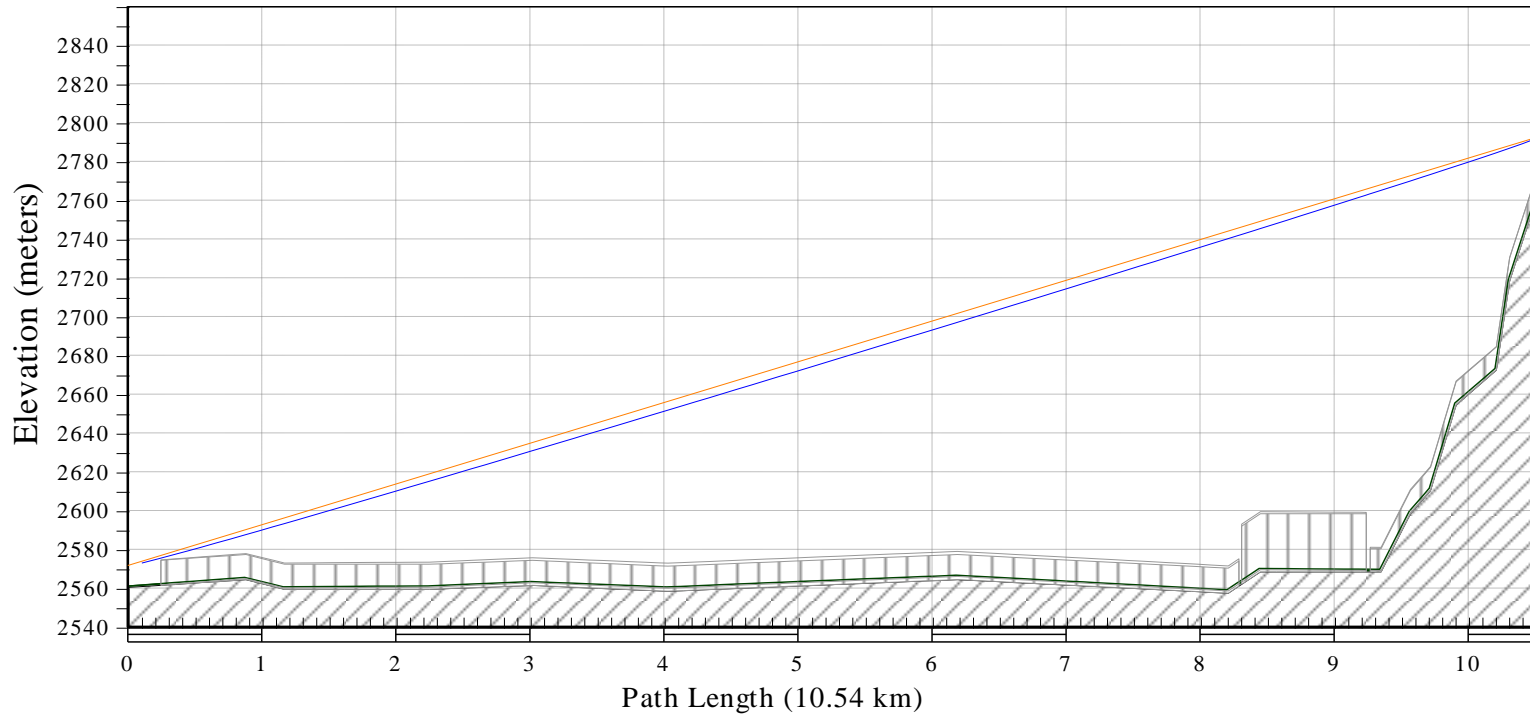
CLIENTE:
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DOCUMENTO NO.:
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ELABORO:
P.VIVEROS

FECHA:
19/09/2013



CENTRO NARIÑO	Frequency = 13000.0 MHz K = 1.33 %F1 = 60.00	SIERRA MORENA
Latitude 004 37 42 N		Latitude 004 34 29 N
Longitude 074 05 30 W		Longitude 074 10 13 W
Azimuth 235.75 deg		Azimuth 55.74 deg
Elevation 2561 mASL		Elevation 2783 mASL
Antenna CL 10.6 mAGL		Antenna CL 10.0 mAGL
VITECH COM SAS.		

PROYECTO: PTAR CANOAS - EAAB - CDM SMITH	Date 19/09/2013	By PVE
ALTERNATIVA # 1 - COMUNICACIONES	cnrsm.p13	



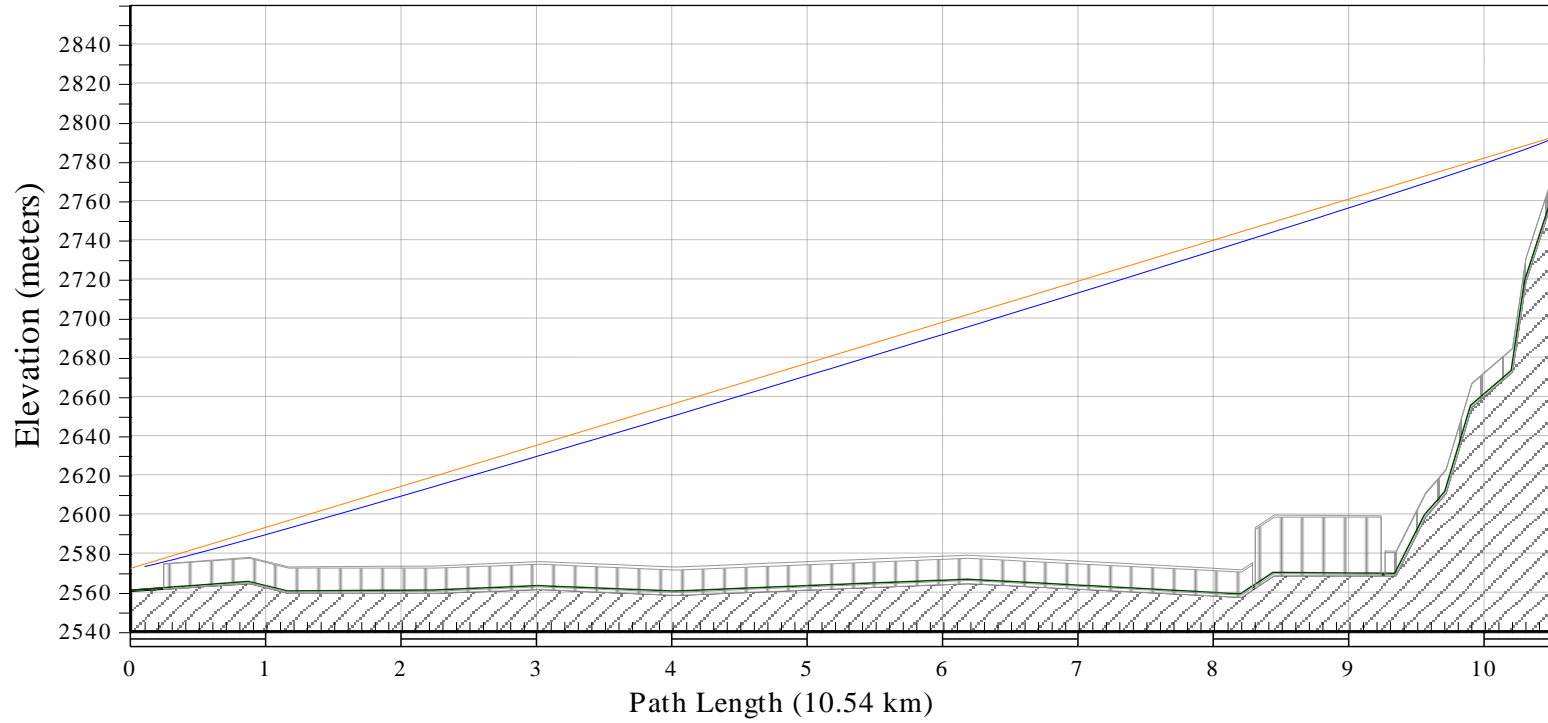
CLIENTE:
CDM SMITH - INGESAM

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DOCUMENTO NO.:
INF-PTAR-003


ELABORO:
P.VIVEROS

FECHA:
19/09/2013



CENTRO NARIÑO	Frequency = 7000.0 MHz K = 1.33 %F1 = 60.00	SIERRA MORENA
Latitude 004 37 42 N		Latitude 004 34 29 N
Longitude 074 05 30 W		Longitude 074 10 13 W
Azimuth 235.75 deg		Azimuth 55.74 deg
Elevation 2561 mASL		Elevation 2783 mASL
Antenna CL 11.1 mAGL		Antenna CL 10.0 mAGL
VITECH COM SAS.		

PROYECTO: PTAR CANOAS - EAAB - CDM SMITH	Date 19/09/2013	By PVE
ALTERNATIVA # 1 - COMUNICACIONES	cnrsm.p13	

	CLIENTE: CDM SMITH - INGESAM		CONTRATO No.:	
	DOCUMENTO NO.: INF-PTAR-003		ELABORO: P.VIVEROS	FECHA: 19/09/2013

CENTRO NARIÑO SIERRA MORENA

Latitude	004 37 42 N	004 34 29 N
Longitude	074 05 30 W	074 10 13 W
Azimuth	235.75	55.74
Distance (km)		10.54
Datum	NAD27 - Clarke 1866	
UTM Zone	18	18
Easting (km)	600.747	592.046
Northing (km)	511.617	505.676
Elevation (m)	2561.0	2783.0
Antenna Height (m)	10.6	10.0
Frequency (MHz)		13000.00
Polarization		Vertical

Dist (km)	Elev (m)	Strut (m)	Gnd	Dist (km)	Elev (m)	Strut (m)	Gnd
0.00	2561.0		AG	8.44	2569.0		AG
0.24	2562.1	13 B (sr)	AG	9.23	2569.0	B (er)	AG
0.87	2565.0		AG	9.26	2569.0	12 B (sr)	AG
1.16	2560.0		AG	9.34	2569.0		AG
2.24	2560.0		AG	9.56	2599.0		AG
3.01	2562.0		AG	9.71	2611.0		AG
4.02	2559.0		AG	9.90	2655.0		AG
6.18	2565.0		AG	10.20	2673.0		AG
8.20	2558.0		AG	10.30	2719.0		AG
8.28	2561.7	B (er)	AG	10.50	2761.7	B (er)	AG
8.30	2562.6	30 B (sr)	AG	10.54	2783.0		AG

Ground Elevations - AMSL, Structure & Antenna Heights - AGL

Ground Type

PG - Poor, AG - Average, GG - Good, FW - Fresh Water, SW - Salt Water

Structure Type

T - Tree, B - Building, WT - Water Tower

sr - start range, er - end range, op - off path



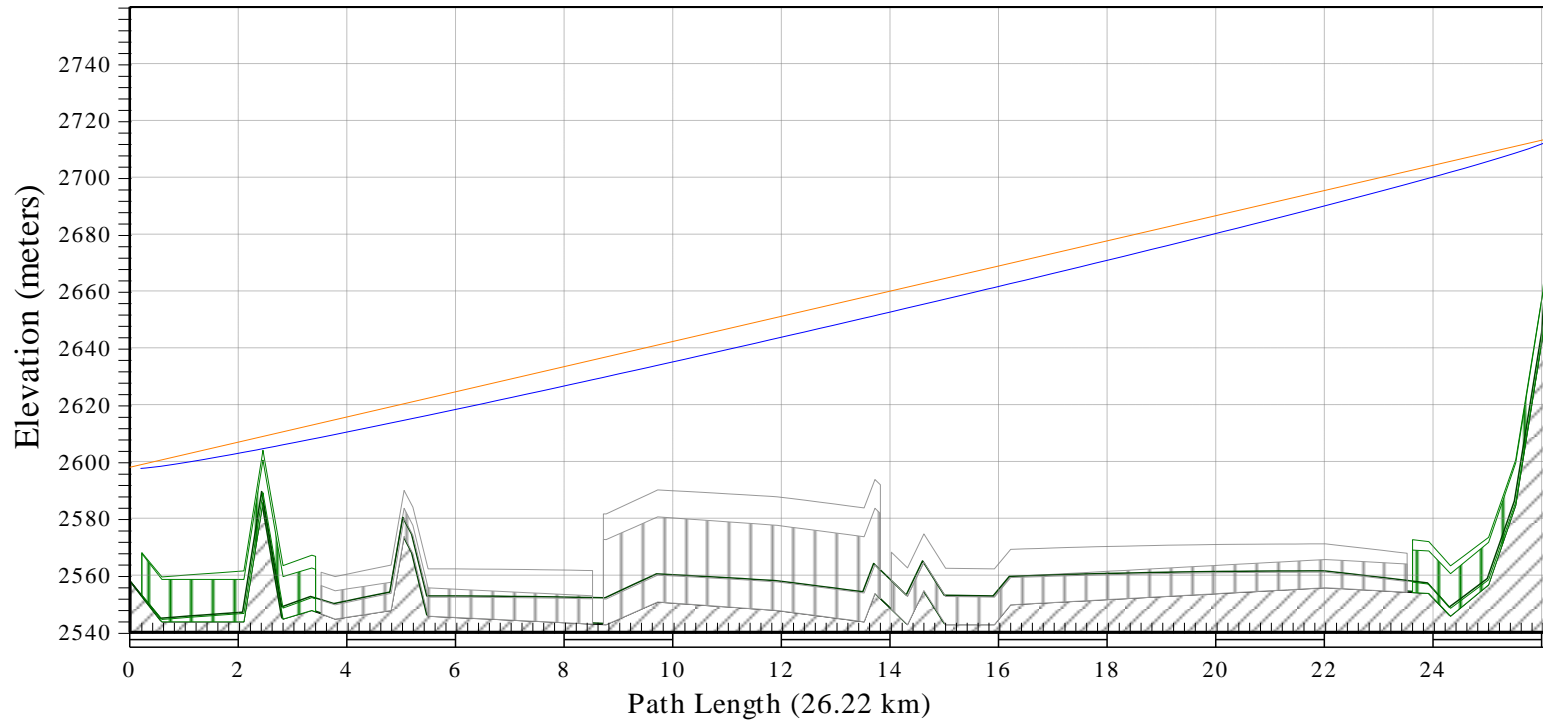
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CDM SMITH - INGESAM

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DOCUMENTO NO.:
INF-PTAR-003

ELABORO:
P.VIVEROS

FECHA:
19/09/2013



PTAR CANOAS Latitude 004 34 23 N Longitude 074 15 38 W Azimuth 49.37 deg Elevation 2558 mASL Antenna CL 39.9 mAGL	Frequency = 13000.0 MHz K = 1.33 %F1 = 60.00	CERRO SUBA Latitude 004 43 39 N Longitude 074 04 52 W Azimuth 229.39 deg Elevation 2704 mASL Antenna CL 10.0 mAGL
VITECH COM SAS.		

PROYECTO: PTAR CANOAS - EAAB - CDM SMITH	Date 19/09/2013	By PVE
ALTERNATIVA # 2 - COMUNICACIONES	cansub.p13	



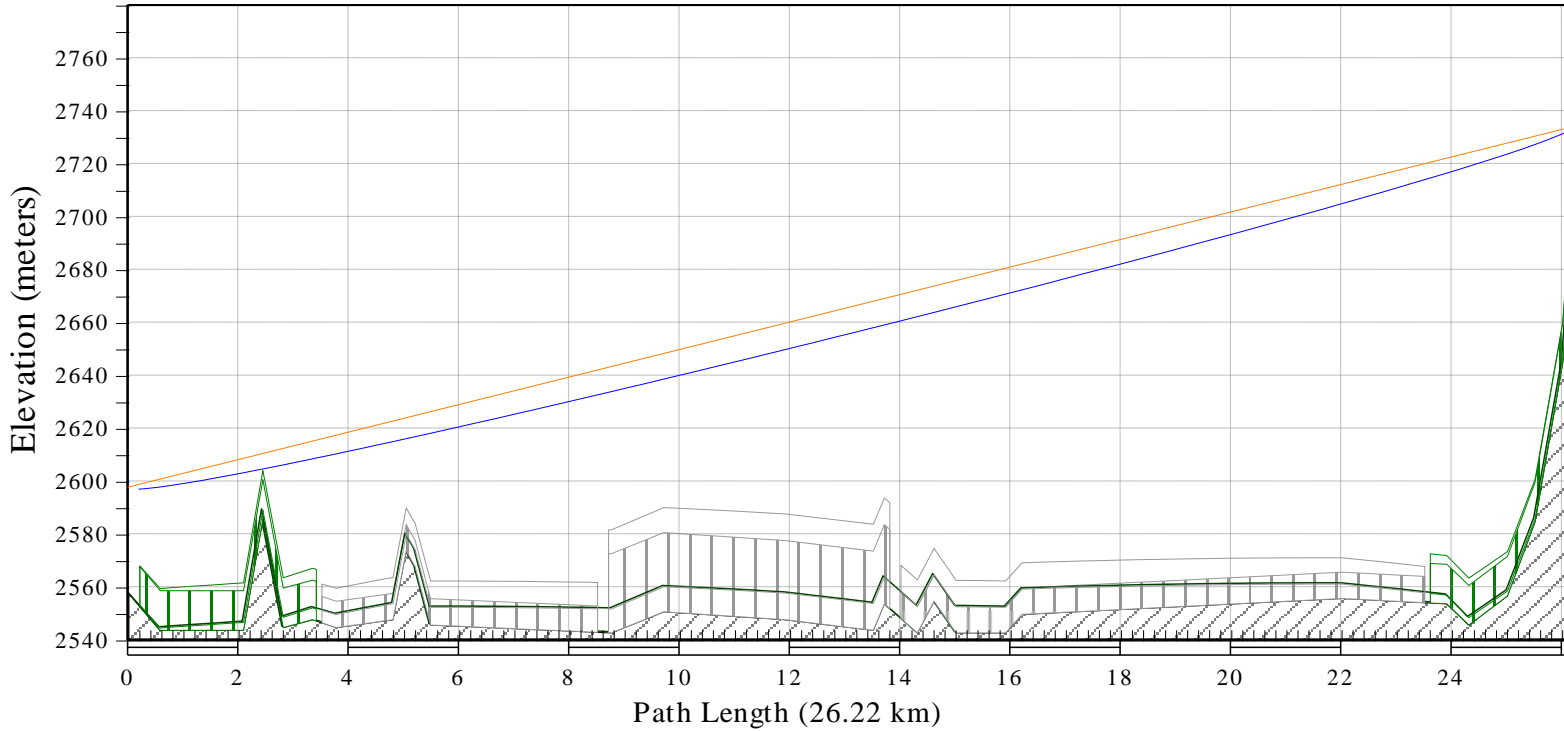
CLIENTE:
CDM SMITH - INGESAM

CONTRATO No.:

DOCUMENTO NO.:
INF-PTAR-003

ELABORO:
P.VIVEROS

FECHA:
19/09/2013




PTAR CANOAS	
Latitude	004 34 23 N
Longitude	074 15 38 W
Azimuth	49.37 deg
Elevation	2558 mASL
Antenna CL	39.6 mAGL

Frequency = 7000.0 MHz
K = 1.33
%F1 = 60.00

CERRO SUBA	
Latitude	004 43 39 N
Longitude	074 04 52 W
Azimuth	229.39 deg
Elevation	2704 mASL
Antenna CL	30.0 mAGL

VITECH COM SAS.

PROYECTO: PTAR CANOAS - EAAB - CDM SMITH	Date 19/09/2013	By PVE
	ALTERNATIVA # 2 - COMUNICACIONES	
		cansub.p13

	CLIENTE: CDM SMITH - INGESAM		CONTRATO No.:	
	DOCUMENTO NO.: INF-PTAR-003		ELABORO: P.VIVEROS	FECHA: 19/09/2013

PTAR CANOAS CERRO SUBA

Latitude	004 34 23 N	004 43 39 N
Longitude	074 15 38 W	074 04 52 W
Azimuth	49.37	229.39
Distance (km)	26.22	
Datum	NAD27 - Clarke 1866	
UTM Zone	18	18
Easting (km)	582.037	601.915
Northing (km)	505.487	522.578
Elevation (m)	2558.0	2704.0
Antenna Height (m)	39.9	10.0
Frequency (MHz)	13000.00	
Polarization	Vertical	

Dist (km)	Elev (m)	Strut (m)	Gnd	Dist (km)	Elev (m)	Strut (m)	Gnd
0.00	2558.0		AG	13.50	2544.0		AG
0.20	2553.1	15 T (sr)	AG	13.70	2554.0		AG
0.30	2550.6		AG	13.80	2552.2	B (er)	AG
0.57	2544.0		AG	14.00	2548.5	10 B (sr)	AG
2.08	2544.0		AG	14.30	2543.0		AG
2.43	2586.0		AG	14.60	2555.0		AG
2.80	2545.0		AG	15.00	2543.0		AG
3.33	2548.0		AG	15.90	2543.0		AG
3.40	2547.5	T (er)	AG	16.20	2550.0		AG
3.50	2546.8	10 B (sr)	AG	22.00	2556.0		AG
3.76	2545.0		AG	23.50	2554.4	B (er)	AG
4.79	2548.0		AG	23.60	2554.3	15 T (sr)	AG
5.03	2574.0		AG	23.90	2554.0		AG
5.19	2568.0		AG	24.30	2546.0		AG
5.47	2546.0		AG	25.00	2557.0		AG
8.50	2543.2	B (er)	AG	25.50	2585.0		AG
8.70	2543.0	30 B (sr)	AG	26.00	2645.0		AG
8.75	2543.0		AG	26.10	2671.8	T (er)	AG
9.70	2551.0		AG	26.22	2704.0		AG
11.90	2548.0		AG				

Ground Elevations - AMSL, Structure & Antenna Heights - AGL

Ground Type

PG - Poor, AG - Average, GG - Good, FW - Fresh Water, SW - Salt Water

Structure Type

T - Tree, B - Building, WT - Water Tower



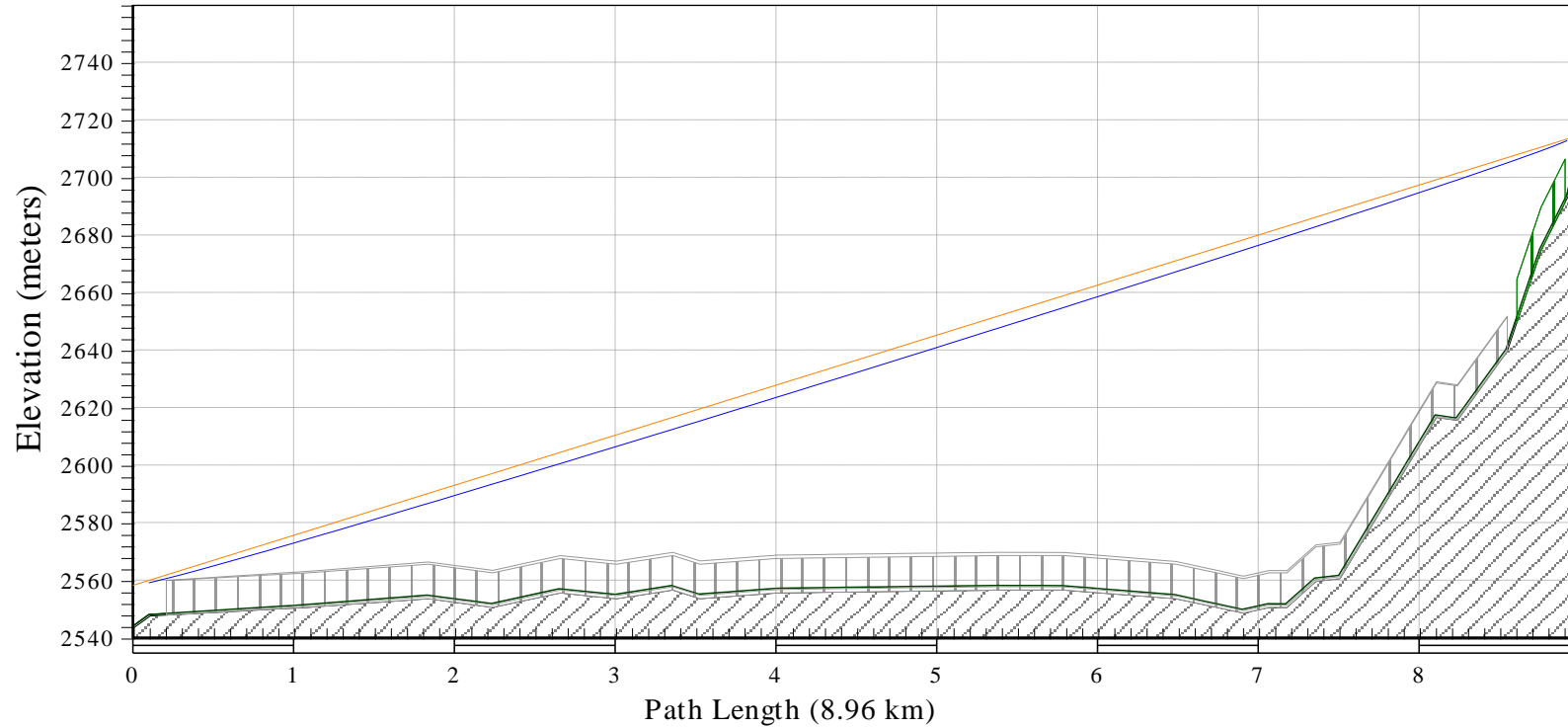
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P.VIVEROS

FECHA:
19/09/2013



<p>CONTROL MODELIA</p> <p>Latitude 004 39 39 N Longitude 074 07 38 W Azimuth 34.79 deg Elevation 2544 mASL Antenna CL 14.2 mAGL</p>	<p>Frequency = 13000.0 MHz K = 1.33 %F1 = 60.00</p> <p>VITECH COM SAS.</p>	<p>CERRO SUBA</p> <p>Latitude 004 43 39 N Longitude 074 04 52 W Azimuth 214.79 deg Elevation 2704 mASL Antenna CL 10.0 mAGL</p>
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<p>PROYECTO: PTAR CANOAS - EAAB - CDM SMITH</p> <p>ALTERNATIVA # 2 - COMUNICACIONES</p>	<p>Date 19/09/2013</p>	<p>By PVE</p> <p>ccmsub.p13</p>
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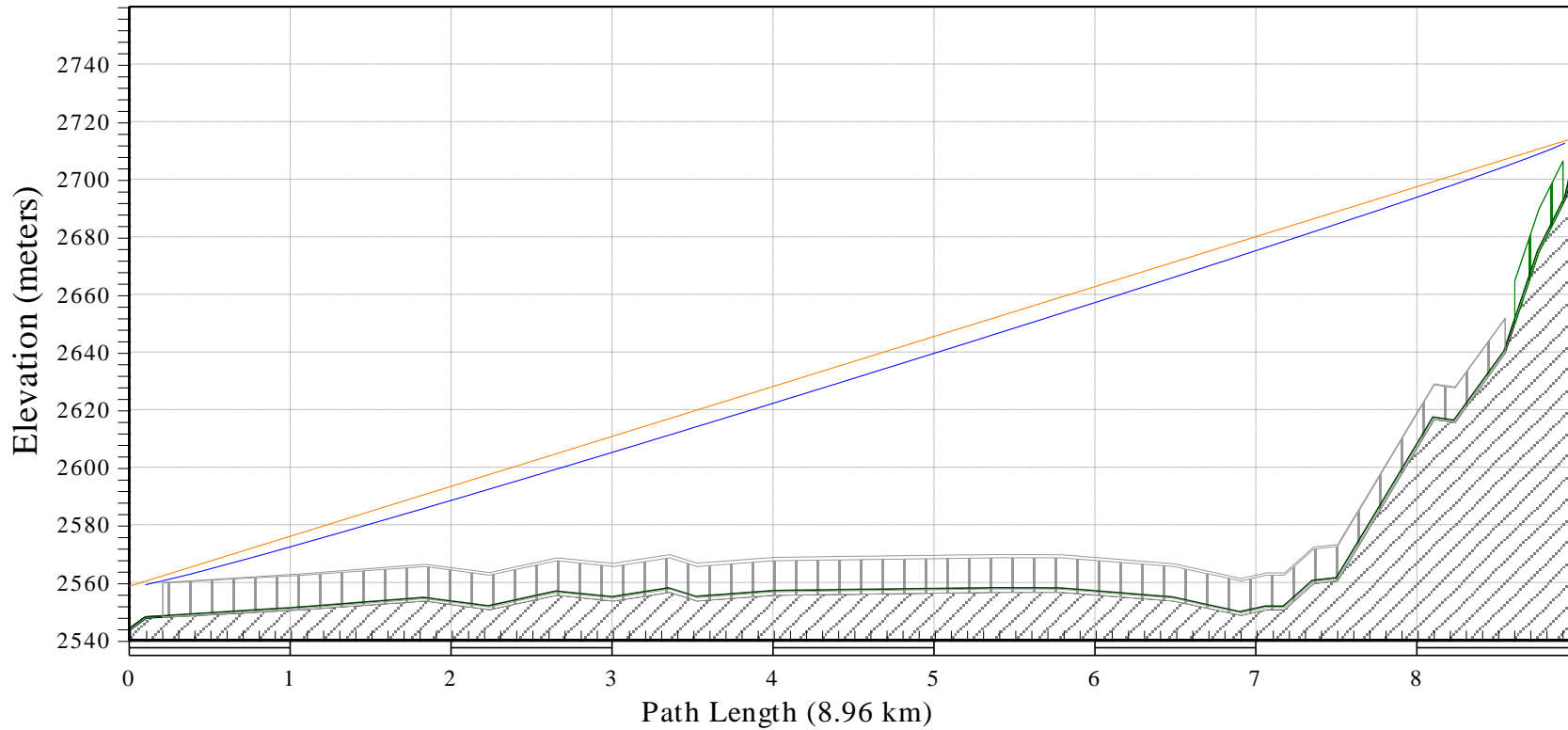
CLIENTE:
CDM SMITH - INGESAM

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DOCUMENTO NO.:
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ELABORO:
P.VIVEROS

FECHA:
19/09/2013



<p>CONTROL MODELIA</p> <p>Latitude 004 39 39 N Longitude 074 07 38 W Azimuth 34.79 deg Elevation 2544 mASL Antenna CL 14.7 mAGL</p>	<p>Frequency = 7000.0 MHz K = 1.33 %F1 = 60.00</p> <p>VITECH COM SAS.</p>	<p>CERRO SUBA</p> <p>Latitude 004 43 39 N Longitude 074 04 52 W Azimuth 214.79 deg Elevation 2704 mASL Antenna CL 10.0 mAGL</p>
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<p>PROYECTO: PTAR CANOAS - EAAB - CDM SMITH</p>	<p>Date 19/09/2013</p>	<p>By PVE</p>
<p>ALTERNATIVA # 2 - COMUNICACIONES</p>	<p>ccmsub.pl3</p>	

	CLIENTE: CDM SMITH - INGESAM		CONTRATO No.:	
	DOCUMENTO NO.: INF-PTAR-003		ELABORO: P.VIVEROS	FECHA: 19/09/2013

CONTROL MODELIA

CERRO SUBA

Latitude	004 39 39 N	004 43 39 N
Longitude	074 07 38 W	074 04 52 W
Azimuth	34.79	214.79
Distance (km)		8.96
Datum	NAD27 - Clarke 1866	
UTM Zone	18	18
Easting (km)	596.812	601.915
Northing (km)	515.212	522.578
Elevation (m)	2544.0	2704.0
Antenna Height (m)	14.2	10.0
Frequency (MHz)	13000.00	
Polarization	Vertical	

Dist (km)	Elev (m)	Strut (m)	Gnd	Dist (km)	Elev (m)	Strut (m)	Gnd
0.00	2544.0		AG	6.90	2549.0		AG
0.10	2548.0		AG	7.06	2551.0		AG
0.20	2548.3	12 B (sr)	AG	7.17	2551.0		AG
1.08	2551.0		AG	7.35	2560.0		AG
1.83	2554.0		AG	7.50	2561.0		AG
2.23	2551.0		AG	8.10	2617.0		AG
2.65	2556.0		AG	8.23	2616.0		AG
3.00	2554.0		AG	8.54	2640.0	B (er)	AG
3.35	2557.0		AG	8.60	2650.0	15 T (sr)	AG
3.52	2554.0		AG	8.75	2675.0		AG
4.00	2556.0		AG	8.90	2691.8	T (er)	AG
5.38	2557.0		AG	8.92	2694.0		AG
5.78	2557.0		AG	8.96	2704.0		AG
6.48	2554.0		AG				

Ground Elevations - AMSL, Structure & Antenna Heights - AGL

Ground Type

PG - Poor, AG - Average, GG - Good, FW - Fresh Water, SW - Salt Water

Structure Type

T - Tree, B - Building, WT - Water Tower

sr - start range, er - end range, op - off path



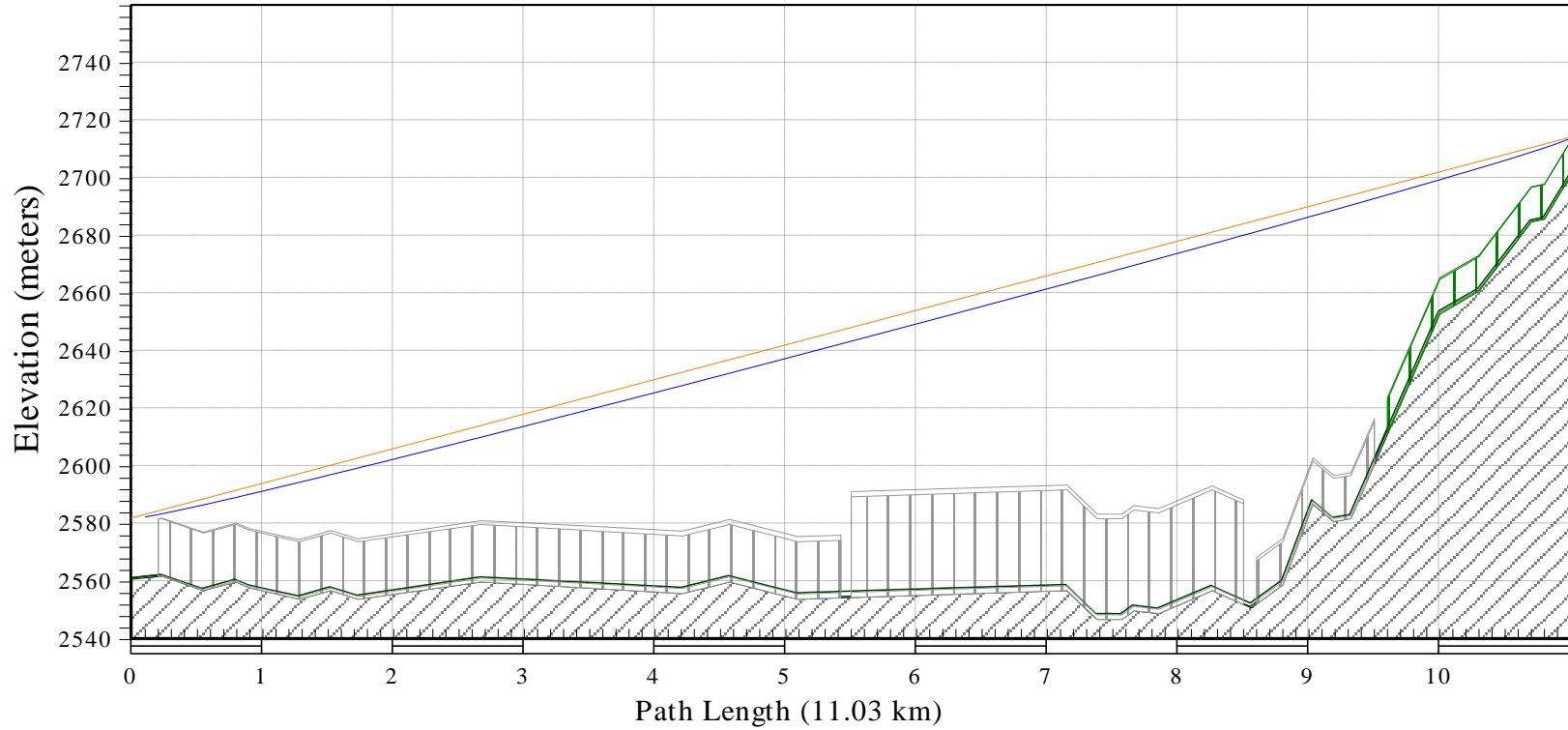
CLIENTE:
CDM SMITH - INGESAM

CONTRATO No.:

DOCUMENTO NO.:
INF-PTAR-003

ELABORO:
P.VIVEROS

FECHA:
19/09/2013



CENTRO NARIÑO	
Latitude	004 37 42 N
Longitude	074 05 30 W
Azimuth	6.16 deg
Elevation	2561 mASL
Antenna CL	20.7 mAGL

Frequency = 13000.0 MHz
K = 1.33
%F1 = 60.00

CERRO SUBA	
Latitude	004 43 39 N
Longitude	074 04 52 W
Azimuth	186.16 deg
Elevation	2704 mASL
Antenna CL	10.2 mAGL

VITECH COM SAS.

PROYECTO: PTAR CANOAS - EAAB -CDM SMITH ALTERNATIVA # 2 - COMUNICACIONES	Date 19/09/2013	By PVE
	cnrsub.pl3	



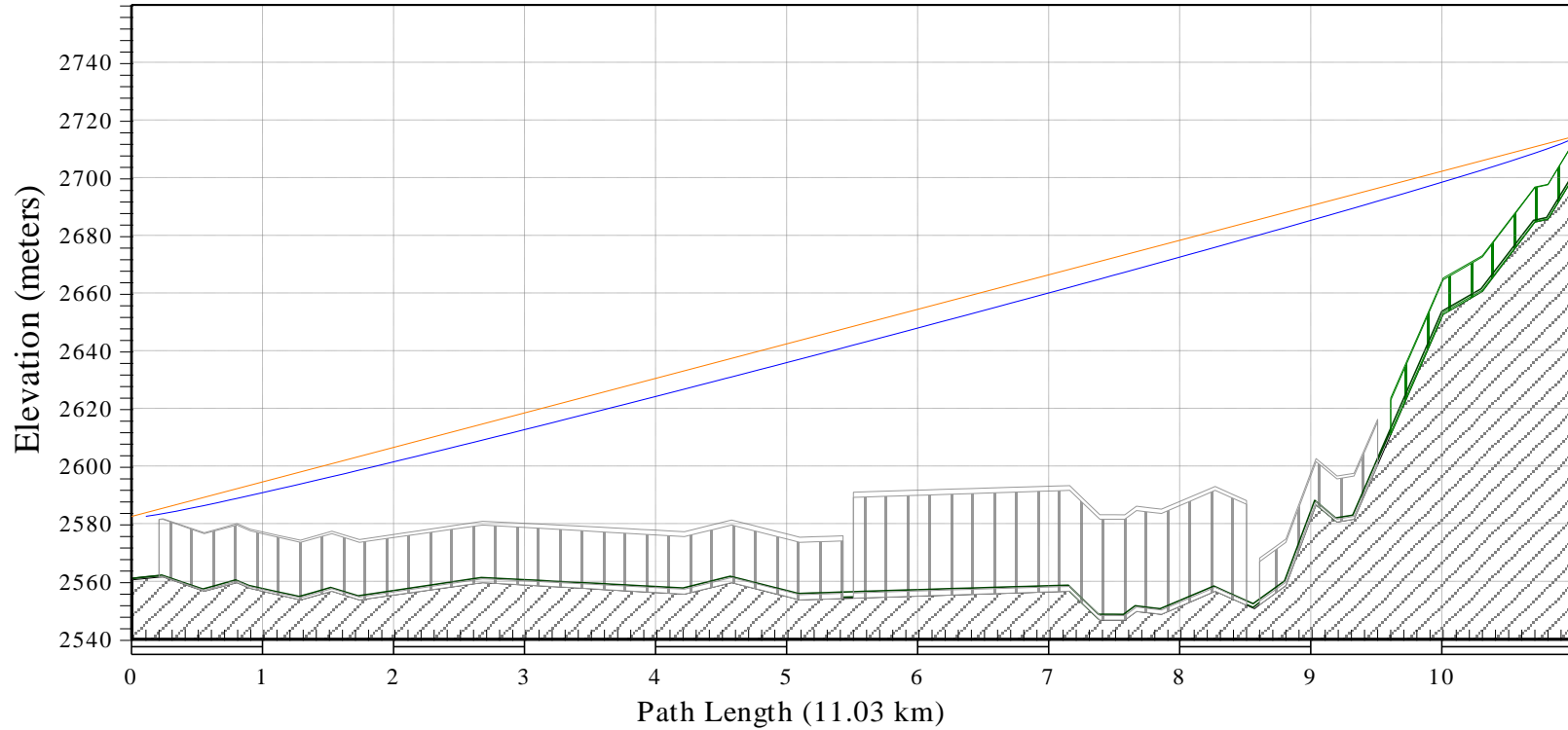
CLIENTE:
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CONTRATO No.:

DOCUMENTO NO.:
INF-PTAR-003

ELABORO:
P.VIVEROS

FECHA:
19/09/2013




CENTRO NARIÑO	
Latitude	004 37 42 N
Longitude	074 05 30 W
Azimuth	6.16 deg
Elevation	2561 mASL
Antenna CL	21.5 mAGL

Frequency = 7000.0 MHz
K = 1.33
%F1 = 60.00

CERRO SUBA	
Latitude	004 43 39 N
Longitude	074 04 52 W
Azimuth	186.16 deg
Elevation	2704 mASL
Antenna CL	10.5 mAGL

VITECH COM SAS.

PROYECTO: PTAR CANOAS - EAAB -CDM SMITH	Date 19/09/2013	By PVE
	ALTERNATIVA # 2 - COMUNICACIONES	
cnrsub.p13		

	CLIENTE: CDM SMITH - INGESAM		CONTRATO No.:	
	DOCUMENTO NO.: INF-PTAR-003		ELABORO: P.VIVEROS	FECHA: 19/09/2013

CENTRO NARIÑO

CERRO SUBA

Latitude	004 37 42 N	004 43 39 N
Longitude	074 05 30 W	074 04 52 W
Azimuth	6.16	186.16
Distance (km)		11.03
Datum	NAD27 - Clarke 1866	
UTM Zone	18	18
Easting (km)	600.747	601.915
Northing (km)	511.617	522.578
Elevation (m)	2561.0	2704.0
Antenna Height (m)	20.7	10.2
Frequency (MHz)	13000.00	
Polarization	Vertical	

Dist (km)	Elev (m)	Strut (m)	Gnd	Dist (km)	Elev (m)	Strut (m)	Gnd
0.00	2561.0		AG	7.66	2550.0		AG
0.20	2561.9	20 B (sr)	AG	7.85	2549.0		AG
0.23	2562.0		AG	8.26	2557.0		AG
0.55	2557.0		AG	8.50	2552.2	B (er)	AG
0.80	2560.0		AG	8.56	2551.0		AG
0.90	2558.0		AG	8.60	2552.3	15 B (sr)	AG
1.28	2554.0		AG	8.80	2559.0		AG
1.52	2557.0		AG	9.03	2587.0		AG
1.73	2554.0		AG	9.19	2581.0		AG
2.67	2560.0		AG	9.32	2582.0		AG
4.21	2556.0		AG	9.50	2600.8	B (er)	AG
4.57	2560.0		AG	9.60	2611.2	12 T (sr)	AG
5.09	2554.0		AG	10.00	2653.0		AG
5.42	2554.5	B (er)	AG	10.30	2661.0		AG
5.50	2554.6	35 B (sr)	AG	10.70	2685.0		AG
7.15	2557.0		AG	10.80	2686.0		AG
7.38	2547.0		AG	11.00	2701.0	T (er)	AG
7.57	2547.0		AG	11.03	2704.0		AG

Ground Elevations - AMSL, Structure & Antenna Heights - AGL

Ground Type

PG - Poor, AG - Average, GG - Good, FW - Fresh Water, SW - Salt Water

Structure Type

T - Tree, B - Building, WT - Water Tower

sr - start range, er - end range, op - off path