

TECHNICAL REPORT

This technical report has been developed in support of a long form application for the Auction 62 channel at Clearmont, WY. The application also proposes a one-step minor modification to channel 284C3 at an existing tower site.

Exhibits provided are:

- E1A Allocation spacing study,
- E1B1 Coverage contour plots
- E1B2 Magnified plot of 70 dBu Longley-Rice coverage of Clearmont
- E1B3 Tabulation of Longley-Rice 70 dBu contour at relevant azimuths
- E1B4 Tabulation of FCC 70 and 60 dBu contours
- E1B5 Delta h calculations and tabulations

- E2A Allocation study for 284C3 fully spaced allocation site
- E2B 70 dBu contour from allocation site
- E2C Line of sight to Clearmont from allocation site
- E2D Allocation site map

I. Site:

The proposed facility is to be located on an existing tower at coordinates:

(NAD 27) N 44-37-20 W 107-06-57.

II. Allocation Analysis:

A channel study is included as Exhibit E-1A demonstrating that the NEW 284C3 facility will be fully spaced at the proposed site. A channel study is provided as E2A demonstrating that the 284C3 allocation site **(N 44-39-06 W 106-23-06)** is fully spaced, provides a circular 23.2 km 70 dBu over Clearmont (E2B) and has line of sight to Clearmont (E2). A site map is included as E2D. It is also evident from the channel study

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(E2A) that the 284C3 allocation reference site is mutually exclusive with the Clearmont 287A allocation and short-form application sites. The Commission has permitted the filing of one-step adjacent channel upgrades in the long form process in past FM auctions.

III. Community 70 dBu Coverage Based on Longley-Rice:

The proposed facility will clearly place a 70 dBu contour over the entire community of Clearmont based on the use of Longley-Rice propagation prediction. Use of this methodology is justified based on the Delta h determined on radials 86 to 89 degrees from the site to the farthest boundary of the Longley-Rice predicted contour which is truncated to the maximum FCC 60 dBu contour where applicable. Furthermore, the Longley-Rice predicted 70 dBu contour exceeds the FCC calculated 70 dBu contour by greater than the required 10%. The predicted Longley-Rice contour is also contained within or limited to the extent of the FCC 60 dBu on each of the relevant radials. The results of this analysis are tabulated below and are supported in Exhibits E1B1-4.

The Longley-Rice mean occurrence 70 dBu contour was determined with the V-Soft Communications' Probe 3 software and the V-Soft thirty (30) second terrain database. The Longley-Rice algorithms used in Probe3 are based on the NTIA-ITS software, and have been accepted by the Commission on many occasions in the past. Parameters used in this study are provided in E-B1. The Delta h values and exhibits were developed using the V-Soft CONTOUR program.

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AZ	HAAT-M	DELTA h	60 dBu(1)	70 dBu (1)	70 dBu L-R (2)	% Diff
86	892.8	184.9	60.7	38.66	60.7	157
87	883.6	193.6	60.5	38.46	60.5	157.3
88	873.8	221.9	60.26	38.24	60.26	157.6
89	862.8	233.3	60	37.98	60	158

(1) Contours calculated with V-Soft Contour program using FCC Curves and 30 second terrain data.

(2) Longley-Rice mean occurrence 70 dBu contour calculated using Probe 3 and 30 second terrain data.

Delta h calculated using V-Soft 30- second terrain data and the V-Soft CONTOUR program over the segment of each radial from 10 km to the farthest extent of the Longley-Rice 70 dBu or the FCC 60 dBu contour whichever was less. Terrain intervals were .1 km for all calculations. Delta h = difference in elevation between elevation exceeded for 10% and 90% of the radial respectively in accordance with Section 73.313(f).

It is concluded that the Longley-Rice methodology may be used to establish 70 dBu coverage of Clearmont, WY from the proposed site in view of the fact that the Delta h calculated in accordance with the Commission's rules is greater than 100 meters on each of the relevant azimuths, and that the Longley-Rice 70 dBu calculated exceeds the FCC Curve 70 dBu by more than 10%. Coverage of the entire Clearmont 2000 Census city limits is provided from the proposed facility.

IV. Blanketing:

The 115 dBu blanketing contour is calculated to be .57 km. The calculation was made in accordance with the Commission's formula:

$$115 \text{ dBu (km)} = 1.609 [.245 (P \text{ kw})^{1/2}].$$

The applicant accepts the responsibility for correction of any objectionable interference or blanketing problems in accordance with Commission rules.

V. Antenna System and Environmental Considerations:

The three bay half-wavelength antenna will be mounted on the existing KYTI-KZWW tower. To the applicant's knowledge, no adverse impact will result to any applicable 1.1307 category. Consequently, no environmental statement is provided. Collocation on the existing tower does not appear to require a Section 106 process.

The RF contributions for the NEW 284C3 and the existing KYTI and KZWW analog and digital facilities were evaluated utilizing the Commission's FMMODEL program at a height 2 meters above ground level. The existing site is not accessible to the general public. Access is restricted and RF exposure warnings posted. Consequently, the combined maximum RF exposure permitted is 1,000 microWatts/cm².

Facility	ERP/kW	Antenna	RCAGL-2M	RF uW/cm ²	%
KYTI(FM)	75 H&V	7 bay FullW	36	196.9	19.7
KZWW	75 H&V	7 bay FullW	36	196.9	19.7
KYTI-DIG	.333 H&V	3 bay FullW	18	8.8	.9
KZWW-DIG	.357	3 bay FullW	18	8.8	.9
NEW 284C3	2.1 H&V	3 bay HalfW	10	87.7	8.8

Note: KYTI and KZWW diplexed in a 7 bay full wavelength spaced Shively antenna. KYTI and KZWW diplexed in a three bay Shively full wavelength spaced antenna.

Total = 50% of maximum

The combined maximum radiation was found to be 499.1 microWatts/cm² representing 50% of the 1,000 microwatts/cm² permissible for controlled environments.

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V. Conclusion:

It is concluded that the Clearmont 284C3 long form-one-step upgrade application is in full compliance with Commission rules and policies.



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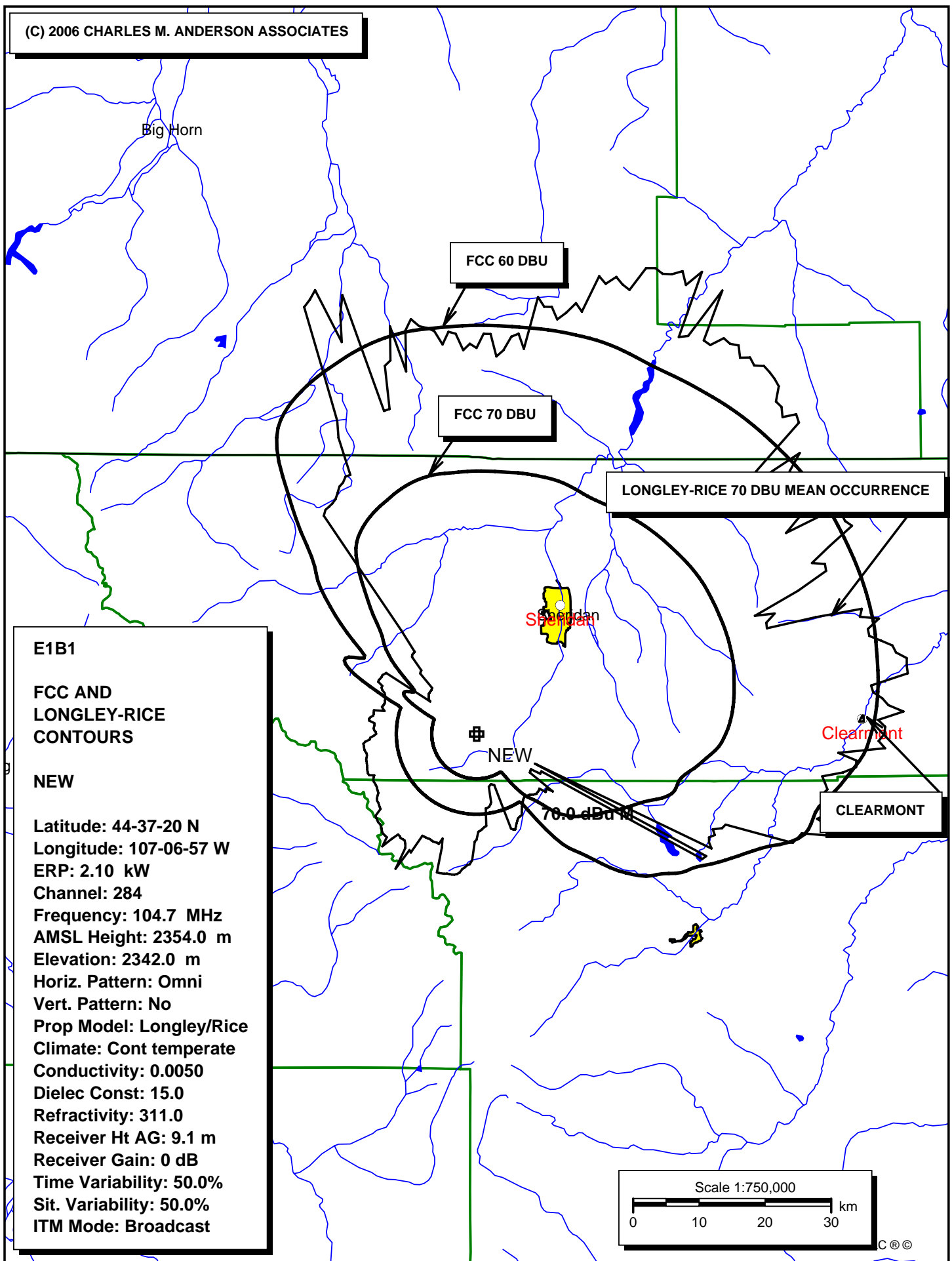
CLEARMONT E1A

REFERENCE		CLASS = C3	DISPLAY DATES
44 37 20 N.		Current	DATA 02-08-06
107 06 57 W.		Spacings	SEARCH 02-08-06
----- Channel 284 - 104.7 MHz -----			

Call	Channel	Location		Azi	Dist	FCC	Margin
AP287	APP	287A	Clearmont	WY	83.7	40.53	41.5 -0.97 (1)

(1) Applicant's Auction 62 application site.

KTRSFM	LIC	284C1	Casper	WY	162.4	218.67	210.5	8.17
KTRSFM	APP	284C1	Casper	WY	162.4	218.68	210.5	8.18
AU062	VAC	287A	Clearmont	WY	88.0	58.41	41.5	16.91
AU062	VAC	286C3	Ten Sleep	WY	202.3	70.48	42.5	27.98
RADD	ADD	283C1	Upton	WY	104.5	198.95	143.5	55.45
KCGL	LIC	281C	Powell	WY	265.7	162.45	95.5	66.95
AU062	VAC	283A	Upton	WY	105.5	206.80	88.5	118.30
RDEL	DEL	283A	Upton	WY	105.5	206.80	88.5	118.30
AU062	VAC	287A	Wright	WY	126.0	163.63	41.5	122.13
KQBL	LIC	286A	Billings	MT	320.9	164.96	41.5	123.46
RADD	ADD	285C	Ellsworth Afb	SD	107.3	306.55	175.5	131.05
KBZM	LIC	284C1	Big Sky	MT	283.6	349.65	210.5	139.15
KRKX	LIC	231C1	Billings	MT	320.9	164.40	23.5	140.90
AU062	VAC	286A	Hudson	WY	212.2	224.26	41.5	182.76
KTAK	LIC	230C1	Riverton	WY	201.7	227.14	23.5	203.64
AU062	VAC	231A	Dubois	WY	240.0	234.35	11.5	222.85
RDEL	DEL	286C1	Custer	SD	107.3	306.55	75.5	231.05
KAWK	LIC	286C1	Custer	SD	107.3	306.55	75.5	231.05
AU062	VAC	282C	Wamsutter	WY	196.2	333.72	95.5	238.22
KIQK	LIC	281C1	Rapid City	SD	100.9	314.80	75.5	239.30
KANT.C	CP	281C2	Guernsey	WY	145.7	303.80	55.5	248.30
RDEL	DEL	283C2	Laramie	WY	158.1	377.01	116.5	260.51
RADD	ADD	283C2	Laramie	WY	161.7	377.96	116.5	261.46
RADD	ADD	283C3	Thayne	WY	243.7	363.47	98.5	264.97
KMK	LIC	230C1	Rapid City	SD	100.4	315.20	23.5	291.70
RADD	ADD	286C1	Thayne	WY	240.4	367.45	75.5	291.95
RADD	ADD	286C3	Thayne	WY	243.7	363.47	42.5	320.97



E1B1

**FCC AND
LONGLEY-RICE
CONTOURS**

NEW

Latitude: 44-37-20 N
Longitude: 107-06-57 W
ERP: 2.10 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 2354.0 m
Elevation: 2342.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 9.1 m
Receiver Gain: 0 dB
Time Variability: 50.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

Scale 1:750,000

0 10 20 30 km

LONGLEY-RICE 70 DBU MEAN OCCURRENCE

CLEARMONT

Clearmont

E1B2

FCC AND
LONGLEY-RICE
CONTOURS

NEW

Latitude: 44-37-20 N
Longitude: 107-06-57 W
ERP: 2.10 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 2354.0 m
Elevation: 2342.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 9.1 m
Receiver Gain: 0 dB
Time Variability: 50.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

FCC 60 DBU

Scale 1:100,000

0 1 2 3 km

E1B3 LONGLEY-RICE 70 DBU TABULATION

Latitude: 44-37-20 N
Longitude: 107-06-57 W
ERP: 2.10 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 2354.0 m
Elevation: 2342.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No

Type of contour: Signal Calculated
of Radials Calculated: 360
Using the mean occurrence method at 70.0 dBu

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
70.0	46.8	990.7
71.0	54.3	987.3
72.0	61.3	983.5
73.0	60.7	980.1
74.0	63.3	976.2
75.0	61.3	971.2
76.0	61.3	964.3
77.0	62.8	956.6
78.0	64.3	948.8
79.0	64.7	942.2
80.0	66.1	936.3
81.0	65.9	930.6
82.0	65.9	924.1
83.0	60.2	917.0
84.0	60.3	909.5
85.0	61.7	901.5
86.0	62.4	892.8
87.0	64.7	883.6
88.0	60.8	873.8
89.0	61.8	862.8
90.0	61.7	850.7

E1B4 60 DBU-70DBU FCC CONTOUR TABULATION

N. Lat. = 44 37 20 W. Lng. = 107 06 57

HAAT and Distance to Contour - FCC Method - 30 Arc Sec.

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	70-F5
000	1407.0	947.0	2.1000	3.22	1.000	61.83	39.78
001	1406.8	947.2	2.1000	3.22	1.000	61.83	39.79
002	1406.6	947.4	2.1000	3.22	1.000	61.84	39.79
003	1406.0	948.0	2.1000	3.22	1.000	61.85	39.80
004	1405.9	948.1	2.1000	3.22	1.000	61.85	39.81
005	1405.0	949.0	2.1000	3.22	1.000	61.87	39.82
006	1404.2	949.8	2.1000	3.22	1.000	61.89	39.84
007	1402.6	951.4	2.1000	3.22	1.000	61.92	39.87
008	1399.5	954.5	2.1000	3.22	1.000	61.98	39.93
009	1396.3	957.7	2.1000	3.22	1.000	62.05	40.00
010	1394.1	959.9	2.1000	3.22	1.000	62.09	40.04
011	1392.4	961.6	2.1000	3.22	1.000	62.13	40.07
012	1390.7	963.3	2.1000	3.22	1.000	62.16	40.11
013	1389.6	964.4	2.1000	3.22	1.000	62.18	40.13
014	1388.6	965.4	2.1000	3.22	1.000	62.20	40.15
015	1387.2	966.8	2.1000	3.22	1.000	62.23	40.18
016	1385.7	968.3	2.1000	3.22	1.000	62.26	40.21
017	1384.9	969.1	2.1000	3.22	1.000	62.28	40.22
018	1385.5	968.5	2.1000	3.22	1.000	62.27	40.21
019	1387.4	966.6	2.1000	3.22	1.000	62.23	40.17
020	1390.5	963.5	2.1000	3.22	1.000	62.17	40.11
021	1394.5	959.5	2.1000	3.22	1.000	62.08	40.03
022	1399.1	954.9	2.1000	3.22	1.000	61.99	39.94
023	1403.9	950.1	2.1000	3.22	1.000	61.89	39.84
024	1408.3	945.7	2.1000	3.22	1.000	61.80	39.76
025	1411.3	942.7	2.1000	3.22	1.000	61.74	39.70
026	1412.5	941.5	2.1000	3.22	1.000	61.72	39.67
027	1412.0	942.0	2.1000	3.22	1.000	61.73	39.68
028	1409.7	944.3	2.1000	3.22	1.000	61.77	39.73
029	1406.6	947.4	2.1000	3.22	1.000	61.84	39.79
030	1403.5	950.5	2.1000	3.22	1.000	61.90	39.85
031	1400.7	953.3	2.1000	3.22	1.000	61.96	39.91
032	1397.9	956.1	2.1000	3.22	1.000	62.01	39.97
033	1394.7	959.3	2.1000	3.22	1.000	62.08	40.03
034	1391.1	962.9	2.1000	3.22	1.000	62.15	40.10
035	1386.9	967.2	2.1000	3.22	1.000	62.24	40.18
036	1382.4	971.6	2.1000	3.22	1.000	62.33	40.27
037	1378.1	975.9	2.1000	3.22	1.000	62.42	40.35
038	1374.3	979.7	2.1000	3.22	1.000	62.49	40.43
039	1371.0	983.0	2.1000	3.22	1.000	62.56	40.49
040	1368.1	985.9	2.1000	3.22	1.000	62.62	40.55
041	1365.4	988.6	2.1000	3.22	1.000	62.67	40.60
042	1363.0	991.0	2.1000	3.22	1.000	62.72	40.64
043	1360.8	993.2	2.1000	3.22	1.000	62.76	40.69

044	1358.8	995.2	2.1000	3.22	1.000	62.80	40.72
045	1356.9	997.1	2.1000	3.22	1.000	62.84	40.76
046	1354.9	999.1	2.1000	3.22	1.000	62.88	40.80
047	1352.6	1001.4	2.1000	3.22	1.000	62.92	40.84
048	1349.9	1004.1	2.1000	3.22	1.000	62.98	40.89
049	1347.1	1006.9	2.1000	3.22	1.000	63.03	40.95
050	1344.2	1009.8	2.1000	3.22	1.000	63.09	41.00
051	1341.6	1012.4	2.1000	3.22	1.000	63.14	41.05
052	1339.4	1014.6	2.1000	3.22	1.000	63.18	41.09
053	1337.8	1016.2	2.1000	3.22	1.000	63.22	41.12
054	1336.5	1017.5	2.1000	3.22	1.000	63.24	41.14
055	1335.9	1018.1	2.1000	3.22	1.000	63.25	41.16
056	1336.0	1018.0	2.1000	3.22	1.000	63.25	41.15
057	1336.9	1017.1	2.1000	3.22	1.000	63.23	41.14
058	1338.4	1015.6	2.1000	3.22	1.000	63.20	41.11
059	1340.2	1013.8	2.1000	3.22	1.000	63.17	41.08
060	1342.2	1011.8	2.1000	3.22	1.000	63.13	41.04
061	1344.3	1009.7	2.1000	3.22	1.000	63.09	41.00
062	1346.3	1007.7	2.1000	3.22	1.000	63.05	40.96
063	1348.3	1005.7	2.1000	3.22	1.000	63.01	40.92
064	1350.2	1003.8	2.1000	3.22	1.000	62.97	40.89
065	1351.9	1002.1	2.1000	3.22	1.000	62.94	40.86
066	1353.3	1000.7	2.1000	3.22	1.000	62.91	40.83
067	1355.2	998.8	2.1000	3.22	1.000	62.87	40.79
068	1357.5	996.5	2.1000	3.22	1.000	62.83	40.75
069	1360.3	993.7	2.1000	3.22	1.000	62.77	40.70
070	1363.3	990.7	2.1000	3.22	1.000	62.71	40.64
071	1366.7	987.3	2.1000	3.22	1.000	62.64	40.57
072	1370.5	983.5	2.1000	3.22	1.000	62.57	40.50
073	1373.9	980.1	2.1000	3.22	1.000	62.50	40.44
074	1377.8	976.2	2.1000	3.22	1.000	62.42	40.36
075	1382.8	971.2	2.1000	3.22	1.000	62.32	40.26
076	1389.7	964.3	2.1000	3.22	1.000	62.18	40.13
077	1397.4	956.6	2.1000	3.22	1.000	62.02	39.97
078	1405.2	948.8	2.1000	3.22	1.000	61.87	39.82
079	1411.8	942.2	2.1000	3.22	1.000	61.73	39.69
080	1417.7	936.3	2.1000	3.22	1.000	61.61	39.57
081	1423.4	930.6	2.1000	3.22	1.000	61.49	39.45
082	1429.9	924.1	2.1000	3.22	1.000	61.36	39.32
083	1437.0	917.0	2.1000	3.22	1.000	61.21	39.17
084	1444.5	909.5	2.1000	3.22	1.000	61.06	39.02
085	1452.5	901.5	2.1000	3.22	1.000	60.89	38.85
086	1461.2	892.8	2.1000	3.22	1.000	60.69	38.66
087	1470.4	883.6	2.1000	3.22	1.000	60.49	38.46
088	1480.2	873.8	2.1000	3.22	1.000	60.26	38.24
089	1491.2	862.8	2.1000	3.22	1.000	60.00	37.98
090	1503.3	850.7	2.1000	3.22	1.000	59.70	37.69
091	1515.4	838.6	2.1000	3.22	1.000	59.39	37.40
092	1527.5	826.5	2.1000	3.22	1.000	59.08	37.10
093	1542.8	811.2	2.1000	3.22	1.000	58.67	36.71
094	1563.4	790.6	2.1000	3.22	1.000	58.10	36.17

095	1585.4	768.6	2.1000	3.22	1.000	57.46	35.57
096	1607.4	746.6	2.1000	3.22	1.000	56.80	34.97
097	1627.3	726.7	2.1000	3.22	1.000	56.19	34.41
098	1645.8	708.2	2.1000	3.22	1.000	55.60	33.89
099	1665.5	688.5	2.1000	3.22	1.000	54.96	33.33
100	1687.5	666.5	2.1000	3.22	1.000	54.21	32.70
101	1706.5	647.5	2.1000	3.22	1.000	53.55	32.15
102	1722.3	631.7	2.1000	3.22	1.000	52.99	31.70
103	1731.9	622.1	2.1000	3.22	1.000	52.64	31.43
104	1735.5	618.5	2.1000	3.22	1.000	52.51	31.33
105	1737.8	616.2	2.1000	3.22	1.000	52.42	31.27
106	1742.0	612.0	2.1000	3.22	1.000	52.27	31.16
107	1751.7	602.3	2.1000	3.22	1.000	51.90	30.89
108	1770.2	583.8	2.1000	3.22	1.000	51.18	30.39
109	1793.3	560.7	2.1000	3.22	1.000	50.18	29.74
110	1819.1	534.9	2.1000	3.22	1.000	48.87	28.94
111	1845.0	509.0	2.1000	3.22	1.000	47.42	28.09
112	1866.3	487.7	2.1000	3.22	1.000	46.29	27.39
113	1884.5	469.5	2.1000	3.22	1.000	45.36	26.80
114	1902.1	451.9	2.1000	3.22	1.000	44.48	26.26
115	1918.3	435.7	2.1000	3.22	1.000	43.68	25.78
116	1935.1	418.9	2.1000	3.22	1.000	42.88	25.31
117	1951.3	402.7	2.1000	3.22	1.000	42.13	24.85
118	1967.9	386.1	2.1000	3.22	1.000	41.37	24.38
119	1985.1	368.9	2.1000	3.22	1.000	40.59	23.87
120	2001.8	352.2	2.1000	3.22	1.000	39.77	23.36
121	2016.8	337.2	2.1000	3.22	1.000	38.98	22.89
122	2027.5	326.5	2.1000	3.22	1.000	38.41	22.54
123	2035.5	318.5	2.1000	3.22	1.000	37.97	22.28
124	2044.7	309.3	2.1000	3.22	1.000	37.47	21.96
125	2057.7	296.3	2.1000	3.22	1.000	36.77	21.51
126	2072.5	281.5	2.1000	3.22	1.000	35.94	20.98
127	2085.8	268.2	2.1000	3.22	1.000	35.16	20.49
128	2095.4	258.6	2.1000	3.22	1.000	34.58	20.13
129	2103.4	250.6	2.1000	3.22	1.000	34.09	19.83
130	2112.8	241.2	2.1000	3.22	1.000	33.50	19.46
131	2124.5	229.5	2.1000	3.22	1.000	32.69	18.98
132	2136.9	217.1	2.1000	3.22	1.000	31.76	18.46
133	2149.1	204.9	2.1000	3.22	1.000	30.81	17.93
134	2162.7	191.3	2.1000	3.22	1.000	29.78	17.33
135	2178.6	175.4	2.1000	3.22	1.000	28.63	16.60
136	2195.9	158.1	2.1000	3.22	1.000	27.30	15.63
137	2212.7	141.3	2.1000	3.22	1.000	25.98	14.64
138	2227.2	126.8	2.1000	3.22	1.000	24.82	13.82
139	2238.6	115.4	2.1000	3.22	1.000	23.86	13.21
140	2247.3	106.7	2.1000	3.22	1.000	23.03	12.72
141	2255.0	99.0	2.1000	3.22	1.000	22.21	12.28
142	2264.3	89.7	2.1000	3.22	1.000	21.13	11.71
143	2276.2	77.8	2.1000	3.22	1.000	19.65	10.96
144	2289.6	64.4	2.1000	3.22	1.000	17.88	10.06
145	2302.5	51.5	2.1000	3.22	1.000	15.87	9.01

146	2313.5	40.5	2.1000	3.22	1.000	13.92	7.84
147	2322.4	31.6	2.1000	3.22	1.000	12.40	6.94
148	2331.2	22.8	2.1000	3.22	1.000	12.15	6.79
149	2341.5	12.5	2.1000	3.22	1.000	12.15	6.79
150	2353.0	1.0	2.1000	3.22	1.000	12.15	6.79
151	2363.8	-9.8	2.1000	3.22	1.000	12.15	6.79
152	2373.1	-19.1	2.1000	3.22	1.000	12.15	6.79
153	2381.5	-27.5	2.1000	3.22	1.000	12.15	6.79
154	2390.4	-36.4	2.1000	3.22	1.000	12.15	6.79
155	2401.5	-47.5	2.1000	3.22	1.000	12.15	6.79
156	2414.2	-60.2	2.1000	3.22	1.000	12.15	6.79
157	2426.9	-72.9	2.1000	3.22	1.000	12.15	6.79
158	2439.3	-85.3	2.1000	3.22	1.000	12.15	6.79
159	2453.0	-99.0	2.1000	3.22	1.000	12.15	6.79
160	2467.5	-113.5	2.1000	3.22	1.000	12.15	6.79
161	2480.6	-126.6	2.1000	3.22	1.000	12.15	6.79
162	2493.5	-139.5	2.1000	3.22	1.000	12.15	6.79
163	2508.7	-154.7	2.1000	3.22	1.000	12.15	6.79
164	2524.9	-170.9	2.1000	3.22	1.000	12.15	6.79
165	2539.4	-185.4	2.1000	3.22	1.000	12.15	6.79
166	2550.7	-196.7	2.1000	3.22	1.000	12.15	6.79
167	2560.0	-206.0	2.1000	3.22	1.000	12.15	6.79
168	2570.1	-216.1	2.1000	3.22	1.000	12.15	6.79
169	2581.5	-227.5	2.1000	3.22	1.000	12.15	6.79
170	2592.7	-238.7	2.1000	3.22	1.000	12.15	6.79
171	2603.6	-249.6	2.1000	3.22	1.000	12.15	6.79
172	2611.8	-257.8	2.1000	3.22	1.000	12.15	6.79
173	2618.2	-264.2	2.1000	3.22	1.000	12.15	6.79
174	2622.4	-268.4	2.1000	3.22	1.000	12.15	6.79
175	2631.0	-277.0	2.1000	3.22	1.000	12.15	6.79
176	2640.7	-286.7	2.1000	3.22	1.000	12.15	6.79
177	2647.7	-293.7	2.1000	3.22	1.000	12.15	6.79
178	2642.7	-288.7	2.1000	3.22	1.000	12.15	6.79
179	2631.8	-277.8	2.1000	3.22	1.000	12.15	6.79
180	2620.6	-266.6	2.1000	3.22	1.000	12.15	6.79
181	2604.1	-250.1	2.1000	3.22	1.000	12.15	6.79
182	2586.5	-232.5	2.1000	3.22	1.000	12.15	6.79
183	2568.8	-214.8	2.1000	3.22	1.000	12.15	6.79
184	2552.5	-198.5	2.1000	3.22	1.000	12.15	6.79
185	2536.4	-182.4	2.1000	3.22	1.000	12.15	6.79
186	2523.6	-169.6	2.1000	3.22	1.000	12.15	6.79
187	2513.7	-159.7	2.1000	3.22	1.000	12.15	6.79
188	2507.2	-153.2	2.1000	3.22	1.000	12.15	6.79
189	2505.2	-151.2	2.1000	3.22	1.000	12.15	6.79
190	2510.0	-156.0	2.1000	3.22	1.000	12.15	6.79
191	2519.5	-165.5	2.1000	3.22	1.000	12.15	6.79
192	2528.6	-174.6	2.1000	3.22	1.000	12.15	6.79
193	2536.5	-182.5	2.1000	3.22	1.000	12.15	6.79
194	2543.5	-189.5	2.1000	3.22	1.000	12.15	6.79
195	2549.4	-195.4	2.1000	3.22	1.000	12.15	6.79
196	2555.2	-201.2	2.1000	3.22	1.000	12.15	6.79

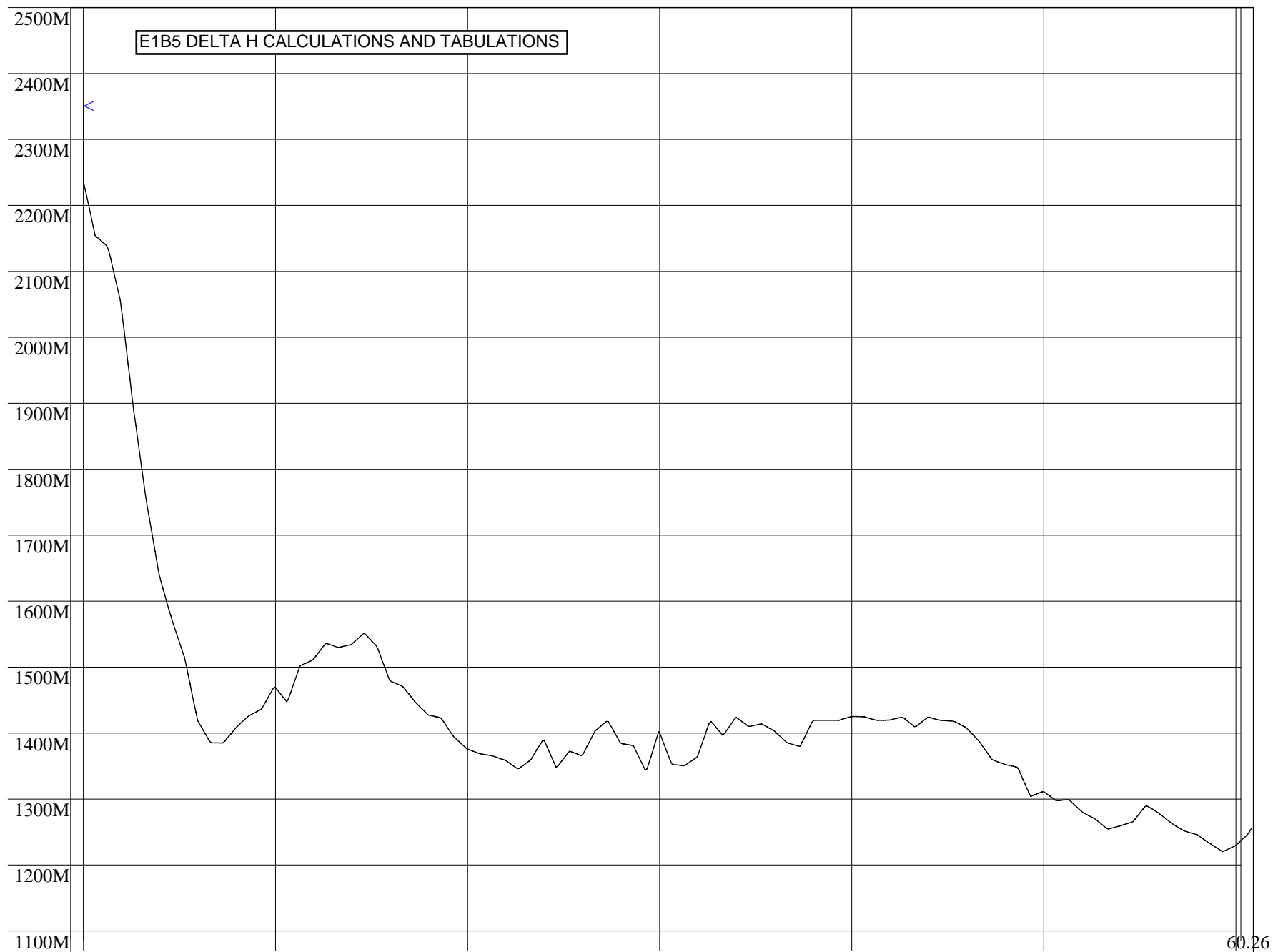
197	2561.4	-207.4	2.1000	3.22	1.000	12.15	6.79
198	2565.7	-211.7	2.1000	3.22	1.000	12.15	6.79
199	2565.2	-211.2	2.1000	3.22	1.000	12.15	6.79
200	2561.4	-207.4	2.1000	3.22	1.000	12.15	6.79
201	2558.3	-204.3	2.1000	3.22	1.000	12.15	6.79
202	2556.2	-202.2	2.1000	3.22	1.000	12.15	6.79
203	2552.7	-198.7	2.1000	3.22	1.000	12.15	6.79
204	2547.4	-193.4	2.1000	3.22	1.000	12.15	6.79
205	2542.2	-188.2	2.1000	3.22	1.000	12.15	6.79
206	2539.8	-185.8	2.1000	3.22	1.000	12.15	6.79
207	2539.3	-185.3	2.1000	3.22	1.000	12.15	6.79
208	2539.0	-185.0	2.1000	3.22	1.000	12.15	6.79
209	2538.9	-184.9	2.1000	3.22	1.000	12.15	6.79
210	2540.0	-186.0	2.1000	3.22	1.000	12.15	6.79
211	2542.3	-188.3	2.1000	3.22	1.000	12.15	6.79
212	2544.2	-190.2	2.1000	3.22	1.000	12.15	6.79
213	2544.9	-190.9	2.1000	3.22	1.000	12.15	6.79
214	2543.3	-189.3	2.1000	3.22	1.000	12.15	6.79
215	2538.9	-184.9	2.1000	3.22	1.000	12.15	6.79
216	2532.5	-178.5	2.1000	3.22	1.000	12.15	6.79
217	2525.4	-171.4	2.1000	3.22	1.000	12.15	6.79
218	2518.9	-164.9	2.1000	3.22	1.000	12.15	6.79
219	2512.9	-158.9	2.1000	3.22	1.000	12.15	6.79
220	2507.7	-153.7	2.1000	3.22	1.000	12.15	6.79
221	2503.0	-149.0	2.1000	3.22	1.000	12.15	6.79
222	2499.1	-145.1	2.1000	3.22	1.000	12.15	6.79
223	2498.4	-144.4	2.1000	3.22	1.000	12.15	6.79
224	2501.2	-147.2	2.1000	3.22	1.000	12.15	6.79
225	2506.3	-152.3	2.1000	3.22	1.000	12.15	6.79
226	2512.7	-158.7	2.1000	3.22	1.000	12.15	6.79
227	2520.5	-166.5	2.1000	3.22	1.000	12.15	6.79
228	2528.5	-174.5	2.1000	3.22	1.000	12.15	6.79
229	2535.3	-181.3	2.1000	3.22	1.000	12.15	6.79
230	2540.5	-186.5	2.1000	3.22	1.000	12.15	6.79
231	2545.0	-191.0	2.1000	3.22	1.000	12.15	6.79
232	2549.2	-195.2	2.1000	3.22	1.000	12.15	6.79
233	2553.1	-199.1	2.1000	3.22	1.000	12.15	6.79
234	2557.1	-203.1	2.1000	3.22	1.000	12.15	6.79
235	2560.4	-206.4	2.1000	3.22	1.000	12.15	6.79
236	2561.6	-207.6	2.1000	3.22	1.000	12.15	6.79
237	2558.1	-204.1	2.1000	3.22	1.000	12.15	6.79
238	2549.5	-195.5	2.1000	3.22	1.000	12.15	6.79
239	2537.7	-183.7	2.1000	3.22	1.000	12.15	6.79
240	2526.5	-172.5	2.1000	3.22	1.000	12.15	6.79
241	2517.5	-163.5	2.1000	3.22	1.000	12.15	6.79
242	2511.5	-157.5	2.1000	3.22	1.000	12.15	6.79
243	2509.0	-155.0	2.1000	3.22	1.000	12.15	6.79
244	2509.2	-155.2	2.1000	3.22	1.000	12.15	6.79
245	2510.7	-156.7	2.1000	3.22	1.000	12.15	6.79
246	2511.9	-157.9	2.1000	3.22	1.000	12.15	6.79
247	2512.0	-158.0	2.1000	3.22	1.000	12.15	6.79

248	2512.0	-158.0	2.1000	3.22	1.000	12.15	6.79
249	2512.4	-158.4	2.1000	3.22	1.000	12.15	6.79
250	2512.4	-158.4	2.1000	3.22	1.000	12.15	6.79
251	2510.8	-156.8	2.1000	3.22	1.000	12.15	6.79
252	2507.3	-153.3	2.1000	3.22	1.000	12.15	6.79
253	2501.2	-147.2	2.1000	3.22	1.000	12.15	6.79
254	2493.1	-139.1	2.1000	3.22	1.000	12.15	6.79
255	2486.2	-132.2	2.1000	3.22	1.000	12.15	6.79
256	2480.9	-126.9	2.1000	3.22	1.000	12.15	6.79
257	2476.0	-122.0	2.1000	3.22	1.000	12.15	6.79
258	2472.7	-118.7	2.1000	3.22	1.000	12.15	6.79
259	2468.9	-114.9	2.1000	3.22	1.000	12.15	6.79
260	2463.5	-109.5	2.1000	3.22	1.000	12.15	6.79
261	2458.2	-104.2	2.1000	3.22	1.000	12.15	6.79
262	2455.5	-101.5	2.1000	3.22	1.000	12.15	6.79
263	2455.5	-101.5	2.1000	3.22	1.000	12.15	6.79
264	2455.6	-101.6	2.1000	3.22	1.000	12.15	6.79
265	2457.5	-103.5	2.1000	3.22	1.000	12.15	6.79
266	2460.1	-106.1	2.1000	3.22	1.000	12.15	6.79
267	2458.3	-104.3	2.1000	3.22	1.000	12.15	6.79
268	2450.1	-96.1	2.1000	3.22	1.000	12.15	6.79
269	2438.2	-84.2	2.1000	3.22	1.000	12.15	6.79
270	2426.2	-72.2	2.1000	3.22	1.000	12.15	6.79
271	2414.1	-60.1	2.1000	3.22	1.000	12.15	6.79
272	2406.4	-52.4	2.1000	3.22	1.000	12.15	6.79
273	2401.1	-47.1	2.1000	3.22	1.000	12.15	6.79
274	2396.1	-42.1	2.1000	3.22	1.000	12.15	6.79
275	2392.0	-38.0	2.1000	3.22	1.000	12.15	6.79
276	2387.9	-33.9	2.1000	3.22	1.000	12.15	6.79
277	2384.2	-30.2	2.1000	3.22	1.000	12.15	6.79
278	2379.6	-25.6	2.1000	3.22	1.000	12.15	6.79
279	2370.7	-16.7	2.1000	3.22	1.000	12.15	6.79
280	2363.3	-9.3	2.1000	3.22	1.000	12.15	6.79
281	2357.5	-3.5	2.1000	3.22	1.000	12.15	6.79
282	2353.2	0.8	2.1000	3.22	1.000	12.15	6.79
283	2351.5	2.5	2.1000	3.22	1.000	12.15	6.79
284	2350.3	3.7	2.1000	3.22	1.000	12.15	6.79
285	2348.0	6.0	2.1000	3.22	1.000	12.15	6.79
286	2344.3	9.7	2.1000	3.22	1.000	12.15	6.79
287	2339.7	14.3	2.1000	3.22	1.000	12.15	6.79
288	2334.3	19.7	2.1000	3.22	1.000	12.15	6.79
289	2328.5	25.5	2.1000	3.22	1.000	12.15	6.79
290	2321.0	33.0	2.1000	3.22	1.000	12.64	7.08
291	2313.6	40.4	2.1000	3.22	1.000	13.90	7.83
292	2307.3	46.7	2.1000	3.22	1.000	14.99	8.51
293	2300.4	53.6	2.1000	3.22	1.000	16.24	9.20
294	2291.4	62.6	2.1000	3.22	1.000	17.63	9.93
295	2280.6	73.4	2.1000	3.22	1.000	19.08	10.67
296	2269.5	84.5	2.1000	3.22	1.000	20.50	11.39
297	2260.0	94.0	2.1000	3.22	1.000	21.64	11.97
298	2252.7	101.3	2.1000	3.22	1.000	22.45	12.40

299	2248.8	105.2	2.1000	3.22	1.000	22.88	12.64
300	2248.4	105.6	2.1000	3.22	1.000	22.91	12.66
301	2251.8	102.2	2.1000	3.22	1.000	22.56	12.46
302	2258.1	95.9	2.1000	3.22	1.000	21.86	12.09
303	2264.7	89.3	2.1000	3.22	1.000	21.08	11.68
304	2269.3	84.7	2.1000	3.22	1.000	20.53	11.40
305	2267.8	86.2	2.1000	3.22	1.000	20.71	11.49
306	2258.9	95.1	2.1000	3.22	1.000	21.77	12.04
307	2244.3	109.7	2.1000	3.22	1.000	23.33	12.90
308	2226.2	127.8	2.1000	3.22	1.000	24.89	13.88
309	2207.3	146.7	2.1000	3.22	1.000	26.41	14.96
310	2188.3	165.7	2.1000	3.22	1.000	27.90	16.08
311	2168.7	185.3	2.1000	3.22	1.000	29.34	17.06
312	2149.3	204.7	2.1000	3.22	1.000	30.79	17.92
313	2130.9	223.1	2.1000	3.22	1.000	32.22	18.71
314	2114.0	240.0	2.1000	3.22	1.000	33.42	19.41
315	2099.3	254.7	2.1000	3.22	1.000	34.34	19.99
316	2083.6	270.4	2.1000	3.22	1.000	35.29	20.58
317	2060.7	293.3	2.1000	3.22	1.000	36.60	21.40
318	2027.5	326.5	2.1000	3.22	1.000	38.41	22.54
319	1986.3	367.7	2.1000	3.22	1.000	40.54	23.83
320	1943.0	411.0	2.1000	3.22	1.000	42.51	25.08
321	1902.1	451.9	2.1000	3.22	1.000	44.48	26.26
322	1862.9	491.1	2.1000	3.22	1.000	46.47	27.50
323	1821.6	532.4	2.1000	3.22	1.000	48.72	28.86
324	1776.3	577.7	2.1000	3.22	1.000	50.93	30.22
325	1730.9	623.1	2.1000	3.22	1.000	52.68	31.46
326	1691.1	662.9	2.1000	3.22	1.000	54.09	32.59
327	1658.8	695.2	2.1000	3.22	1.000	55.18	33.52
328	1634.0	720.0	2.1000	3.22	1.000	55.98	34.22
329	1614.4	739.6	2.1000	3.22	1.000	56.59	34.77
330	1597.7	756.3	2.1000	3.22	1.000	57.09	35.24
331	1582.9	771.1	2.1000	3.22	1.000	57.53	35.64
332	1569.4	784.6	2.1000	3.22	1.000	57.92	36.01
333	1557.0	797.0	2.1000	3.22	1.000	58.28	36.34
334	1545.1	808.9	2.1000	3.22	1.000	58.60	36.65
335	1534.1	819.9	2.1000	3.22	1.000	58.90	36.93
336	1524.1	829.9	2.1000	3.22	1.000	59.17	37.18
337	1514.3	839.7	2.1000	3.22	1.000	59.42	37.43
338	1505.1	848.9	2.1000	3.22	1.000	59.65	37.65
339	1495.9	858.1	2.1000	3.22	1.000	59.88	37.87
340	1485.4	868.6	2.1000	3.22	1.000	60.13	38.12
341	1474.1	879.9	2.1000	3.22	1.000	60.40	38.38
342	1463.6	890.4	2.1000	3.22	1.000	60.64	38.61
343	1453.8	900.2	2.1000	3.22	1.000	60.86	38.82
344	1444.4	909.6	2.1000	3.22	1.000	61.06	39.02
345	1435.8	918.2	2.1000	3.22	1.000	61.24	39.20
346	1428.4	925.6	2.1000	3.22	1.000	61.39	39.35
347	1422.5	931.5	2.1000	3.22	1.000	61.51	39.47
348	1418.1	935.9	2.1000	3.22	1.000	61.60	39.56
349	1414.0	940.0	2.1000	3.22	1.000	61.69	39.64

350	1410.3	943.7	2.1000	3.22	1.000	61.76	39.72
351	1409.0	945.0	2.1000	3.22	1.000	61.79	39.74
352	1409.3	944.7	2.1000	3.22	1.000	61.78	39.74
353	1410.6	943.4	2.1000	3.22	1.000	61.76	39.71
354	1411.3	942.7	2.1000	3.22	1.000	61.74	39.70
355	1411.3	942.7	2.1000	3.22	1.000	61.74	39.70
356	1411.0	943.0	2.1000	3.22	1.000	61.75	39.70
357	1410.0	944.0	2.1000	3.22	1.000	61.77	39.72
358	1408.9	945.1	2.1000	3.22	1.000	61.79	39.75
359	1407.8	946.2	2.1000	3.22	1.000	61.81	39.77

AMSL= 2354 M



Km

N. Lat. 44 37 20

W. Lng. 107 06 57

Azimuth = 88°

Xmit COR 2354 M Mtrs AMSL

44 37 20 N.
107 06 57 W.
Azimuth of radial= 86°
Delta h= 184.9M, Interval=.1, COR AMSL= 2354 M M

Radial length = 60.7 km(Delta h calculation begins at 10 km)

000.0	2230.25	000.1	2217.18	000.2	2203.70	000.3	2189.81	000.4	2175.50	000.5	2160.78
000.6	2146.02	000.7	2143.15	000.8	2140.16	000.9	2137.05	001.0	2133.83	001.1	2130.50
001.2	2127.06	001.3	2119.60	001.4	2106.20	001.5	2092.73	001.6	2079.19	001.7	2065.59
001.8	2051.92	001.9	2038.18	002.0	2015.39	002.1	1989.90	002.2	1964.38	002.3	1938.83
002.4	1913.25	002.5	1887.65	002.6	1862.51	002.7	1840.39	002.8	1818.27	002.9	1796.15
003.0	1774.03	003.1	1751.91	003.2	1729.79	003.3	1709.46	003.4	1690.74	003.5	1671.88
003.6	1652.88	003.7	1633.75	003.8	1614.48	003.9	1595.07	004.0	1585.17	004.1	1576.84
004.2	1568.81	004.3	1561.09	004.4	1553.66	004.5	1546.76	004.6	1539.69	004.7	1531.25
004.8	1522.78	004.9	1514.31	005.0	1505.82	005.1	1497.31	005.2	1488.80	005.3	1477.42
005.4	1464.49	005.5	1451.75	005.6	1439.19	005.7	1426.83	005.8	1414.66	005.9	1402.68
006.0	1397.20	006.1	1391.72	006.2	1386.19	006.3	1380.63	006.4	1375.03	006.5	1369.38
006.6	1365.25	006.7	1363.69	006.8	1361.97	006.9	1360.09	007.0	1358.04	007.1	1355.83
007.2	1353.45	007.3	1354.96	007.4	1357.87	007.5	1360.73	007.6	1363.55	007.7	1366.32
007.8	1369.06	007.9	1371.67	008.0	1373.54	008.1	1375.39	008.2	1377.21	008.3	1379.00
008.4	1380.77	008.5	1382.51	008.6	1384.88	008.7	1388.02	008.8	1391.24	008.9	1394.55
009.0	1397.94	009.1	1401.41	009.2	1404.97	009.3	1408.12	009.4	1411.10	009.5	1413.98
009.6	1416.77	009.7	1419.46	009.8	1422.06	009.9	1423.49	010.0	1421.16	010.1	1418.90
010.2	1416.70	010.3	1414.58	010.4	1412.52	010.5	1410.53	010.6	1413.29	010.7	1419.19
010.8	1425.00	010.9	1430.72	011.0	1436.34	011.1	1441.86	011.2	1447.29	011.3	1450.59
011.4	1453.90	011.5	1457.29	011.6	1460.76	011.7	1464.31	011.8	1467.94	011.9	1471.14
012.0	1473.32	012.1	1475.44	012.2	1477.52	012.3	1479.54	012.4	1481.50	012.5	1483.42
012.6	1483.36	012.7	1482.53	012.8	1481.70	012.9	1480.89	013.0	1480.09	013.1	1479.30
013.2	1478.63	013.3	1479.09	013.4	1479.55	013.5	1480.01	013.6	1480.47	013.7	1480.93
013.8	1481.39	013.9	1481.93	014.0	1482.54	014.1	1483.10	014.2	1483.60	014.3	1484.06
014.4	1484.46	014.5	1484.80	014.6	1483.60	014.7	1482.12	014.8	1480.69	014.9	1479.32
015.0	1477.99	015.1	1476.72	015.2	1474.72	015.3	1469.54	015.4	1464.45	015.5	1459.44
015.6	1454.51	015.7	1449.66	015.8	1444.89	015.9	1441.74	016.0	1439.75	016.1	1437.76
016.2	1435.74	016.3	1433.71	016.4	1431.67	016.5	1429.61	016.6	1425.87	016.7	1422.02
016.8	1418.18	016.9	1414.33	017.0	1410.49	017.1	1406.64	017.2	1403.59	017.3	1402.31
017.4	1401.07	017.5	1399.87	017.6	1398.71	017.7	1397.60	017.8	1396.53	017.9	1396.13
018.0	1396.04	018.1	1395.89	018.2	1395.67	018.3	1395.48	018.4	1395.34	018.5	1395.08
018.6	1392.30	018.7	1389.56	018.8	1386.85	018.9	1384.19	019.0	1381.56	019.1	1378.98
019.2	1375.17	019.3	1369.71	019.4	1364.28	019.5	1358.87	019.6	1353.49	019.7	1348.14
019.8	1342.81	019.9	1341.70	020.0	1341.61	020.1	1341.51	020.2	1341.40	020.3	1341.27
020.4	1341.13	020.5	1341.00	020.6	1341.00	020.7	1341.00	020.8	1341.00	020.9	1341.00
021.0	1341.00	021.1	1341.00	021.2	1340.44	021.3	1339.36	021.4	1338.22	021.5	1337.02
021.6	1335.75	021.7	1334.41	021.8	1333.01	021.9	1330.37	022.0	1327.74	022.1	1325.20
022.2	1322.77	022.3	1320.44	022.4	1318.22	022.5	1317.57	022.6	1320.42	022.7	1323.24
022.8	1326.02	022.9	1328.76	023.0	1331.46	023.1	1334.13	023.2	1333.01	023.3	1329.98
023.4	1326.86	023.5	1323.67	023.6	1320.39	023.7	1317.04	023.8	1313.82	023.9	1315.61
024.0	1317.53	024.1	1319.59	024.2	1321.77	024.3	1324.09	024.4	1326.54	024.5	1329.34
024.6	1332.43	024.7	1335.41	024.8	1338.29	024.9	1341.07	025.0	1343.74	025.1	1346.31
025.2	1349.75	025.3	1353.59	025.4	1357.62	025.5	1361.84	025.6	1366.23	025.7	1370.81
025.8	1375.08	025.9	1376.82	026.0	1378.42	026.1	1379.90	026.2	1381.24	026.3	1382.46
026.4	1383.54	026.5	1382.28	026.6	1378.98	026.7	1375.57	026.8	1372.03	026.9	1368.38
027.0	1364.61	027.1	1360.73	027.2	1360.73	027.3	1361.31	027.4	1362.09	027.5	1363.06
027.6	1364.24	027.7	1365.60	027.8	1367.14	027.9	1368.68	028.0	1370.24	028.1	1371.83
028.2	1373.45	028.3	1375.09	028.4	1376.76	028.5	1377.54	028.6	1377.95	028.7	1378.45
028.8	1379.06	028.9	1379.77	029.0	1380.58	029.1	1381.19	029.2	1372.47	029.3	1363.40
029.4	1353.96	029.5	1344.16	029.6	1333.99	029.7	1323.47	029.8	1316.29	029.9	1314.52
030.0	1312.86	030.1	1311.31	030.2	1309.88	030.3	1308.57	030.4	1307.38	030.5	1311.42
030.6	1317.00	030.7	1322.66	030.8	1328.42	030.9	1334.26	031.0	1340.19	031.1	1345.33
031.2	1345.67	031.3	1345.97	031.4	1346.23	031.5	1346.46	031.6	1346.64	031.7	1346.79
031.8	1346.03	031.9	1344.37	032.0	1342.57	032.1	1340.63	032.2	1338.73	032.3	1336.91
032.4	1335.16	032.5	1342.46	032.6	1350.68	032.7	1358.89	032.8	1367.06	032.9	1375.22
033.0	1383.34	033.1	1389.39	033.2	1390.07	033.3	1390.72	033.4	1391.35	033.5	1391.96
033.6	1392.54	033.7	1393.09	033.8	1392.22	033.9	1390.54	034.0	1388.79	034.1	1386.99
034.2	1385.11	034.3	1383.17	034.4	1381.01	034.5	1373.39	034.6	1365.77	034.7	1358.17
034.8	1350.58	034.9	1343.00	035.0	1335.44	035.1	1331.33	035.2	1332.41	035.3	1333.57
035.4	1334.83	035.5	1336.17	035.6	1337.61	035.7	1339.14	035.8	1340.39	035.9	1341.61

036.0	1342.90	036.1	1344.24	036.2	1345.66	036.3	1347.14	036.4	1348.96	036.5	1352.41
036.6	1355.88	036.7	1359.38	036.8	1362.90	036.9	1366.44	037.0	1370.01	037.1	1372.08
037.2	1372.63	037.3	1372.98	037.4	1373.12	037.5	1373.05	037.6	1372.78	037.7	1372.31
037.8	1375.48	037.9	1379.20	038.0	1383.05	038.1	1387.04	038.2	1391.17	038.3	1395.44
038.4	1398.51	038.5	1398.15	038.6	1397.77	038.7	1397.39	038.8	1396.99	038.9	1396.58
039.0	1396.15	039.1	1396.31	039.2	1396.76	039.3	1397.20	039.4	1397.64	039.5	1398.05
039.6	1398.46	039.7	1398.83	039.8	1398.37	039.9	1397.91	040.0	1397.48	040.1	1397.05
040.2	1396.64	040.3	1396.23	040.4	1396.00	040.5	1396.00	040.6	1396.00	040.7	1396.00
040.8	1396.00	040.9	1396.00	041.0	1396.00	041.1	1396.27	041.2	1396.60	041.3	1396.92
041.4	1397.22	041.5	1397.52	041.6	1397.80	041.7	1397.97	041.8	1397.63	041.9	1397.31
042.0	1396.99	042.1	1396.69	042.2	1396.40	042.3	1396.13	042.4	1394.63	042.5	1392.02
042.6	1389.35	042.7	1386.64	042.8	1383.87	042.9	1381.06	043.0	1378.20	043.1	1374.56
043.2	1370.78	043.3	1366.94	043.4	1363.03	043.5	1359.07	043.6	1355.03	043.7	1352.00
043.8	1351.63	043.9	1351.25	044.0	1350.88	044.1	1350.50	044.2	1350.13	044.3	1349.76
044.4	1349.29	044.5	1348.79	044.6	1348.30	044.7	1347.82	044.8	1347.36	044.9	1346.91
045.0	1346.44	045.1	1345.34	045.2	1344.33	045.3	1343.42	045.4	1342.62	045.5	1341.91
045.6	1341.31	045.7	1340.63	045.8	1339.72	045.9	1338.82	046.0	1337.91	046.1	1337.00
046.2	1336.10	046.3	1335.19	046.4	1335.67	046.5	1336.56	046.6	1337.49	046.7	1338.53
046.8	1339.53	046.9	1340.39	047.0	1340.98	047.1	1340.81	047.2	1340.56	047.3	1340.24
047.4	1339.85	047.5	1339.39	047.6	1338.85	047.7	1337.18	047.8	1334.67	047.9	1332.22
048.0	1329.85	048.1	1327.55	048.2	1325.33	048.3	1323.17	048.4	1317.94	048.5	1312.54
048.6	1307.25	048.7	1302.06	048.8	1296.99	048.9	1292.04	049.0	1290.24	049.1	1295.71
049.2	1301.07	049.3	1306.33	049.4	1311.46	049.5	1316.49	049.6	1321.41	049.7	1323.07
049.8	1323.08	049.9	1322.99	050.0	1322.78	050.1	1322.46	050.2	1322.02	050.3	1321.24
050.4	1315.80	050.5	1310.42	050.6	1305.12	050.7	1299.90	050.8	1294.75	050.9	1289.67
051.0	1285.71	051.1	1283.25	051.2	1280.89	051.3	1278.62	051.4	1276.45	051.5	1274.37
051.6	1272.40	051.7	1275.15	051.8	1279.12	051.9	1283.17	052.0	1287.30	052.1	1291.49
052.2	1295.77	052.3	1299.07	052.4	1297.56	052.5	1295.95	052.6	1294.24	052.7	1292.43
052.8	1290.52	052.9	1288.52	053.0	1287.60	053.1	1287.56	053.2	1287.45	053.3	1287.29
053.4	1287.06	053.5	1286.78	053.6	1286.43	053.7	1285.44	053.8	1284.43	053.9	1283.44
054.0	1282.47	054.1	1281.53	054.2	1280.62	054.3	1278.59	054.4	1274.06	054.5	1269.53
054.6	1265.00	054.7	1260.47	054.8	1255.94	054.9	1251.41	055.0	1250.32	055.1	1250.89
055.2	1251.58	055.3	1252.39	055.4	1253.32	055.5	1254.37	055.6	1255.33	055.7	1253.10
055.8	1250.71	055.9	1248.16	056.0	1245.46	056.1	1242.59	056.2	1239.56	056.3	1237.69
056.4	1237.36	056.5	1236.93	056.6	1236.40	056.7	1235.78	056.8	1235.06	056.9	1234.25
057.0	1231.55	057.1	1228.49	057.2	1225.46	057.3	1222.47	057.4	1219.52	057.5	1216.60
057.6	1214.11	057.7	1213.23	057.8	1212.42	057.9	1211.69	058.0	1211.03	058.1	1210.44
058.2	1209.93	058.3	1208.29	058.4	1205.82	058.5	1203.38	058.6	1200.98	058.7	1198.62
058.8	1196.29	058.9	1194.00	059.0	1191.65	059.1	1189.27	059.2	1186.86	059.3	1184.44
059.4	1181.98	059.5	1179.51	059.6	1179.08	059.7	1182.78	059.8	1186.48	059.9	1190.15
060.0	1193.82	060.1	1197.48	060.2	1201.12	060.3	1203.40	060.4	1205.14	060.5	1206.87
060.6	1208.61	060.7	1210.34								

44 37 20 N.
107 06 57 W.
Azimuth of radial= 87°
Delta h= 193.6M, Interval=.1, COR AMSL= 2354 M M

Radial length = 60.5 km(Delta h calculation begins at 10 km)

000.0	2230.25	000.1	2216.99	000.2	2203.42	000.3	2189.54	000.4	2175.35	000.5	2160.85
000.6	2146.49	000.7	2143.78	000.8	2141.00	000.9	2138.13	001.0	2135.17	001.1	2132.13
001.2	2129.00	001.3	2121.72	001.4	2108.60	001.5	2095.43	001.6	2082.21	001.7	2068.94
001.8	2055.62	001.9	2042.25	002.0	2019.52	002.1	1994.30	002.2	1969.06	002.3	1943.80
002.4	1918.52	002.5	1893.22	002.6	1868.48	002.7	1846.59	002.8	1824.70	002.9	1802.81
003.0	1780.92	003.1	1759.03	003.2	1737.14	003.3	1717.47	003.4	1699.58	003.5	1681.59
003.6	1663.49	003.7	1645.29	003.8	1626.99	003.9	1608.58	004.0	1598.14	004.1	1588.58
004.2	1579.24	004.3	1570.14	004.4	1561.25	004.5	1552.60	004.6	1544.00	004.7	1535.11
004.8	1526.26	004.9	1517.45	005.0	1508.68	005.1	1499.95	005.2	1491.26	005.3	1478.87
005.4	1464.78	005.5	1450.74	005.6	1436.77	005.7	1422.86	005.8	1409.01	005.9	1395.69
006.0	1390.26	006.1	1384.98	006.2	1379.66	006.3	1374.31	006.4	1368.93	006.5	1363.53
006.6	1360.38	006.7	1360.13	006.8	1359.76	006.9	1359.27	007.0	1358.66	007.1	1357.92
007.2	1357.06	007.3	1359.64	007.4	1363.01	007.5	1366.34	007.6	1369.65	007.7	1372.92
007.8	1376.16	007.9	1379.19	008.0	1381.43	008.1	1383.65	008.2	1385.85	008.3	1388.03
008.4	1390.19	008.5	1392.33	008.6	1394.55	008.7	1396.89	008.8	1399.30	008.9	1401.77
009.0	1404.29	009.1	1406.88	009.2	1409.54	009.3	1413.70	009.4	1417.89	009.5	1422.00
009.6	1426.04	009.7	1430.01	009.8	1433.91	009.9	1435.49	010.0	1432.41	010.1	1429.37
010.2	1426.39	010.3	1423.45	010.4	1420.57	010.5	1417.74	010.6	1422.07	010.7	1429.36
010.8	1436.57	010.9	1443.72	011.0	1450.80	011.1	1457.80	011.2	1464.36	011.3	1466.59
011.4	1468.88	011.5	1471.23	011.6	1473.64	011.7	1476.10	011.8	1478.63	011.9	1481.45
012.0	1484.53	012.1	1487.57	012.2	1490.57	012.3	1493.54	012.4	1496.46	012.5	1499.34
012.6	1499.02	012.7	1498.09	012.8	1497.17	012.9	1496.26	013.0	1495.36	013.1	1494.47
013.2	1493.90	013.3	1494.48	013.4	1495.05	013.5	1495.63	013.6	1496.20	013.7	1496.78
013.8	1497.35	013.9	1498.60	014.0	1500.28	014.1	1501.93	014.2	1503.53	014.3	1505.09
014.4	1506.62	014.5	1508.10	014.6	1505.84	014.7	1503.52	014.8	1501.23	014.9	1498.98
015.0	1496.77	015.1	1494.60	015.2	1490.86	015.3	1484.18	015.4	1477.57	015.5	1471.03
015.6	1464.54	015.7	1458.11	015.8	1451.74	015.9	1448.85	016.0	1447.23	016.1	1445.60
016.2	1443.96	016.3	1442.30	016.4	1440.64	016.5	1438.73	016.6	1434.94	016.7	1431.15
016.8	1427.36	016.9	1423.56	017.0	1419.77	017.1	1415.98	017.2	1412.98	017.3	1410.82
017.4	1408.69	017.5	1406.60	017.6	1404.54	017.7	1402.50	017.8	1400.50	017.9	1399.91
018.0	1399.54	018.1	1399.17	018.2	1398.82	018.3	1398.48	018.4	1398.15	018.5	1397.02
018.6	1393.43	018.7	1389.86	018.8	1386.33	018.9	1382.82	019.0	1379.35	019.1	1375.90
019.2	1371.95	019.3	1367.65	019.4	1363.30	019.5	1358.91	019.6	1354.46	019.7	1349.97
019.8	1345.44	019.9	1344.91	020.0	1344.39	020.1	1343.90	020.2	1343.42	020.3	1342.97
020.4	1342.53	020.5	1342.19	020.6	1341.97	020.7	1341.76	020.8	1341.57	020.9	1341.38
021.0	1341.21	021.1	1341.04	021.2	1340.76	021.3	1340.47	021.4	1340.19	021.5	1339.93
021.6	1339.69	021.7	1339.48	021.8	1338.76	021.9	1334.90	022.0	1331.00	022.1	1327.04
022.2	1323.04	022.3	1318.99	022.4	1314.89	022.5	1314.61	022.6	1317.88	022.7	1321.18
022.8	1324.51	022.9	1327.86	023.0	1331.25	023.1	1334.66	023.2	1334.90	023.3	1334.67
023.4	1334.32	023.5	1333.84	023.6	1333.24	023.7	1332.51	023.8	1331.18	023.9	1328.66
024.0	1326.25	024.1	1323.95	024.2	1321.75	024.3	1319.66	024.4	1317.67	024.5	1321.22
024.6	1327.61	024.7	1333.93	024.8	1340.18	024.9	1346.35	025.0	1352.44	025.1	1358.12
025.2	1355.77	025.3	1353.55	025.4	1351.47	025.5	1349.52	025.6	1347.70	025.7	1346.02
025.8	1347.70	025.9	1353.80	026.0	1359.81	026.1	1365.72	026.2	1371.54	026.3	1377.26
026.4	1382.88	026.5	1384.75	026.6	1385.60	026.7	1386.37	026.8	1387.05	026.9	1387.64
027.0	1388.15	027.1	1387.30	027.2	1380.70	027.3	1374.25	027.4	1367.93	027.5	1361.76
027.6	1355.74	027.7	1349.86	027.8	1347.60	027.9	1348.12	028.0	1348.66	028.1	1349.22
028.2	1349.80	028.3	1350.39	028.4	1351.01	028.5	1347.61	028.6	1344.02	028.7	1340.50
028.8	1337.06	028.9	1333.70	029.0	1330.41	029.1	1329.92	029.2	1335.08	029.3	1339.98
029.4	1344.62	029.5	1348.99	029.6	1353.10	029.7	1356.94	029.8	1353.57	029.9	1347.26
030.0	1341.04	030.1	1334.90	030.2	1328.85	030.3	1322.88	030.4	1317.61	030.5	1319.51
030.6	1321.47	030.7	1323.50	030.8	1325.59	030.9	1327.75	031.0	1329.97	031.1	1332.08
031.2	1333.96	031.3	1335.82	031.4	1337.65	031.5	1339.46	031.6	1341.23	031.7	1342.98
031.8	1347.03	031.9	1351.43	032.0	1355.73	032.1	1359.92	032.2	1364.01	032.3	1367.99
032.4	1371.12	032.5	1371.63	032.6	1372.27	032.7	1373.04	032.8	1373.94	032.9	1374.97
033.0	1376.14	033.1	1378.77	033.2	1382.27	033.3	1385.72	033.4	1389.13	033.5	1392.49
033.6	1395.81	033.7	1399.08	033.8	1397.30	033.9	1395.44	034.0	1393.60	034.1	1391.78
034.2	1389.98	034.3	1388.19	034.4	1385.86	034.5	1382.48	034.6	1379.02	034.7	1375.47
034.8	1371.84	034.9	1368.12	035.0	1364.32	035.1	1362.54	035.2	1361.49	035.3	1360.46
035.4	1359.44	035.5	1358.44	035.6	1357.47	035.7	1356.45	035.8	1355.07	035.9	1353.72

036.0	1352.40	036.1	1351.10	036.2	1349.84	036.3	1348.60	036.4	1348.62	036.5	1349.88
036.6	1351.17	036.7	1352.50	036.8	1353.86	036.9	1355.26	037.0	1356.70	037.1	1362.13
037.2	1368.06	037.3	1373.98	037.4	1379.89	037.5	1385.79	037.6	1391.68	037.7	1396.00
037.8	1396.00	037.9	1396.00	038.0	1396.00	038.1	1396.00	038.2	1396.00	038.3	1396.00
038.4	1396.00	038.5	1396.00	038.6	1396.00	038.7	1396.00	038.8	1396.00	038.9	1396.00
039.0	1396.03	039.1	1396.93	039.2	1397.84	039.3	1398.75	039.4	1399.65	039.5	1400.56
039.6	1401.47	039.7	1401.71	039.8	1401.00	039.9	1400.28	040.0	1399.55	040.1	1398.81
040.2	1398.06	040.3	1397.30	040.4	1396.98	040.5	1396.79	040.6	1396.61	040.7	1396.44
040.8	1396.28	040.9	1396.12	041.0	1396.13	041.1	1396.90	041.2	1397.68	041.3	1398.47
041.4	1399.27	041.5	1400.07	041.6	1400.89	041.7	1400.89	041.8	1400.22	041.9	1399.53
042.0	1398.83	042.1	1398.10	042.2	1397.36	042.3	1396.60	042.4	1396.30	042.5	1396.06
042.6	1395.85	042.7	1395.66	042.8	1395.50	042.9	1395.37	043.0	1395.37	043.1	1395.56
043.2	1395.73	043.3	1395.88	043.4	1395.99	043.5	1396.08	043.6	1396.14	043.7	1396.12
043.8	1396.08	043.9	1396.05	044.0	1396.02	044.1	1396.01	044.2	1395.88	044.3	1395.54
044.4	1394.37	044.5	1393.22	044.6	1392.07	044.7	1390.93	044.8	1389.80	044.9	1388.68
045.0	1384.70	045.1	1377.41	045.2	1370.20	045.3	1363.06	045.4	1356.00	045.5	1349.00
045.6	1342.08	045.7	1340.24	045.8	1339.33	045.9	1338.42	046.0	1337.52	046.1	1336.61
046.2	1335.70	046.3	1334.48	046.4	1332.16	046.5	1329.88	046.6	1327.63	046.7	1325.42
046.8	1323.24	046.9	1321.10	047.0	1318.37	047.1	1315.26	047.2	1312.20	047.3	1309.16
047.4	1306.17	047.5	1303.21	047.6	1300.29	047.7	1298.54	047.8	1296.80	047.9	1295.05
048.0	1293.29	048.1	1291.52	048.2	1289.75	048.3	1287.95	048.4	1286.08	048.5	1284.16
048.6	1282.18	048.7	1280.16	048.8	1278.07	048.9	1275.93	049.0	1275.53	049.1	1275.78
049.2	1276.11	049.3	1276.52	049.4	1277.01	049.5	1277.58	049.6	1278.16	049.7	1278.28
049.8	1278.43	049.9	1278.61	050.0	1278.81	050.1	1279.04	050.2	1279.29	050.3	1278.94
050.4	1277.96	050.5	1276.91	050.6	1275.79	050.7	1274.59	050.8	1273.33	050.9	1271.99
051.0	1270.62	051.1	1269.22	051.2	1267.77	051.3	1266.28	051.4	1264.74	051.5	1263.16
051.6	1262.67	051.7	1265.06	051.8	1267.44	051.9	1269.81	052.0	1272.17	052.1	1274.52
052.2	1276.86	052.3	1274.90	052.4	1270.81	052.5	1266.81	052.6	1262.88	052.7	1259.03
052.8	1255.27	052.9	1251.87	053.0	1254.52	053.1	1257.16	053.2	1259.79	053.3	1262.41
053.4	1265.02	053.5	1267.62	053.6	1269.26	053.7	1269.59	053.8	1269.89	053.9	1270.15
054.0	1270.38	054.1	1270.57	054.2	1270.73	054.3	1270.15	054.4	1269.33	054.5	1268.45
054.6	1267.50	054.7	1266.48	054.8	1265.40	054.9	1263.37	055.0	1257.68	055.1	1252.01
055.2	1246.35	055.3	1240.71	055.4	1235.09	055.5	1229.49	055.6	1227.85	055.7	1229.19
055.8	1230.60	055.9	1232.07	056.0	1233.62	056.1	1235.23	056.2	1236.92	056.3	1239.67
056.4	1242.51	056.5	1245.39	056.6	1248.32	056.7	1251.28	056.8	1254.29	056.9	1255.45
057.0	1252.93	057.1	1250.37	057.2	1247.76	057.3	1245.11	057.4	1242.42	057.5	1239.68
057.6	1236.60	057.7	1233.37	057.8	1230.10	057.9	1226.80	058.0	1223.46	058.1	1220.09
058.2	1216.62	058.3	1212.70	058.4	1208.76	058.5	1204.80	058.6	1200.83	058.7	1196.83
058.8	1192.83	058.9	1190.45	059.0	1189.77	059.1	1189.09	059.2	1188.39	059.3	1187.69
059.4	1186.98	059.5	1186.27	059.6	1190.08	059.7	1194.56	059.8	1199.04	059.9	1203.52
060.0	1207.99	060.1	1212.47	060.2	1216.43	060.3	1218.83	060.4	1221.22	060.5	1223.57

44 37 20 N.
107 06 57 W.
Azimuth of radial= 88°
Delta h= 221.9M, Interval=.1, COR AMSL= 2354 M M

Radial length = 60.26 km(Delta h calculation begins at 10 km)

000.0	2230.25	000.1	2216.80	000.2	2203.15	000.3	2189.29	000.4	2175.22	000.5	2160.94
000.6	2146.95	000.7	2144.43	000.8	2141.85	000.9	2139.21	001.0	2136.51	001.1	2133.76
001.2	2130.96	001.3	2123.89	001.4	2111.06	001.5	2098.20	001.6	2085.30	001.7	2072.37
001.8	2059.40	001.9	2046.40	002.0	2023.80	002.1	1998.86	002.2	1973.92	002.3	1948.96
002.4	1923.98	002.5	1899.00	002.6	1874.63	002.7	1852.97	002.8	1831.32	002.9	1809.66
003.0	1788.01	003.1	1766.36	003.2	1744.70	003.3	1725.70	003.4	1708.65	003.5	1691.53
003.6	1674.34	003.7	1657.08	003.8	1639.76	003.9	1622.36	004.0	1611.11	004.1	1600.32
004.2	1589.67	004.3	1579.17	004.4	1568.83	004.5	1558.63	004.6	1548.88	004.7	1539.77
004.8	1530.70	004.9	1521.65	005.0	1512.62	005.1	1503.62	005.2	1494.65	005.3	1481.61
005.4	1467.00	005.5	1452.43	005.6	1437.90	005.7	1423.41	005.8	1408.97	005.9	1395.48
006.0	1390.31	006.1	1385.10	006.2	1379.87	006.3	1374.61	006.4	1369.32	006.5	1364.01
006.6	1361.24	006.7	1361.23	006.8	1361.20	006.9	1361.17	007.0	1361.14	007.1	1361.09
007.2	1361.05	007.3	1364.10	007.4	1367.66	007.5	1371.23	007.6	1374.81	007.7	1378.41
007.8	1382.02	007.9	1385.47	008.0	1388.36	008.1	1391.21	008.2	1394.00	008.3	1396.75
008.4	1399.45	008.5	1402.11	008.6	1404.09	008.7	1405.69	008.8	1407.28	008.9	1408.87
009.0	1410.45	009.1	1412.13	009.2	1413.92	009.3	1419.36	009.4	1424.75	009.5	1430.10
009.6	1435.40	009.7	1440.65	009.8	1445.85	009.9	1447.44	010.0	1443.59	010.1	1439.78
010.2	1436.00	010.3	1432.25	010.4	1428.54	010.5	1424.86	010.6	1430.85	010.7	1439.53
010.8	1448.16	010.9	1456.75	011.0	1465.28	011.1	1473.78	011.2	1481.05	011.3	1482.27
011.4	1483.54	011.5	1484.84	011.6	1486.18	011.7	1487.56	011.8	1488.98	011.9	1491.82
012.0	1495.81	012.1	1499.77	012.2	1503.70	012.3	1507.61	012.4	1511.49	012.5	1515.35
012.6	1514.67	012.7	1513.64	012.8	1512.63	012.9	1511.62	013.0	1510.61	013.1	1509.62
013.2	1509.15	013.3	1509.84	013.4	1510.53	013.5	1511.22	013.6	1511.91	013.7	1512.60
013.8	1513.29	013.9	1515.44	014.0	1518.19	014.1	1520.92	014.2	1523.63	014.3	1526.31
014.4	1528.96	014.5	1531.14	014.6	1527.94	014.7	1524.76	014.8	1521.61	014.9	1518.48
015.0	1515.38	015.1	1512.31	015.2	1506.88	015.3	1498.71	015.4	1490.57	015.5	1482.48
015.6	1474.42	015.7	1466.41	015.8	1458.43	015.9	1456.14	016.0	1454.88	016.1	1453.62
016.2	1452.35	016.3	1451.07	016.4	1449.78	016.5	1447.93	016.6	1444.20	016.7	1440.46
016.8	1436.73	016.9	1432.99	017.0	1429.26	017.1	1425.52	017.2	1422.20	017.3	1419.17
017.4	1416.15	017.5	1413.15	017.6	1410.18	017.7	1407.22	017.8	1404.28	017.9	1403.61
018.0	1402.95	018.1	1402.30	018.2	1401.66	018.3	1401.02	018.4	1400.39	018.5	1398.28
018.6	1393.74	018.7	1389.22	018.8	1384.73	018.9	1380.25	019.0	1375.79	019.1	1371.34
019.2	1368.27	019.3	1365.60	019.4	1362.89	019.5	1360.15	019.6	1357.38	019.7	1354.58
019.8	1351.99	019.9	1350.81	020.0	1349.65	020.1	1348.49	020.2	1347.35	020.3	1346.22
020.4	1345.11	020.5	1344.29	020.6	1343.73	020.7	1343.18	020.8	1342.64	020.9	1342.10
021.0	1341.57	021.1	1341.05	021.2	1340.06	021.3	1339.03	021.4	1338.02	021.5	1337.02
021.6	1336.03	021.7	1335.05	021.8	1333.78	021.9	1331.77	022.0	1329.73	022.1	1327.65
022.2	1325.54	022.3	1323.41	022.4	1321.24	022.5	1321.98	022.6	1324.13	022.7	1326.30
022.8	1328.48	022.9	1330.68	023.0	1332.90	023.1	1335.32	023.2	1340.43	023.3	1345.45
023.4	1350.40	023.5	1355.26	023.6	1360.04	023.7	1364.75	023.8	1364.20	023.9	1357.27
024.0	1350.42	024.1	1343.62	024.2	1336.90	024.3	1330.25	024.4	1323.66	024.5	1325.71
024.6	1329.55	024.7	1333.43	024.8	1337.34	024.9	1341.29	025.0	1345.27	025.1	1348.20
025.2	1347.14	025.3	1346.06	025.4	1344.95	025.5	1343.82	025.6	1342.66	025.7	1341.48
025.8	1344.44	025.9	1350.19	026.0	1355.96	026.1	1361.73	026.2	1367.52	026.3	1373.33
026.4	1379.14	026.5	1381.77	026.6	1384.32	026.7	1386.86	026.8	1389.39	026.9	1391.91
027.0	1394.42	027.1	1394.09	027.2	1388.84	027.3	1383.54	027.4	1378.18	027.5	1372.77
027.6	1367.30	027.7	1361.77	027.8	1360.01	027.9	1359.52	028.0	1359.03	028.1	1358.55
028.2	1358.07	028.3	1357.60	028.4	1356.36	028.5	1350.12	028.6	1343.89	028.7	1337.67
028.8	1331.46	028.9	1325.27	029.0	1319.09	029.1	1321.05	029.2	1330.60	029.3	1340.17
029.4	1349.78	029.5	1359.41	029.6	1369.08	029.7	1378.77	029.8	1372.67	029.9	1364.84
030.0	1357.00	030.1	1349.15	030.2	1341.28	030.3	1333.41	030.4	1327.69	030.5	1327.40
030.6	1327.11	030.7	1326.83	030.8	1326.55	030.9	1326.28	031.0	1326.01	031.1	1327.29
031.2	1329.32	031.3	1331.38	031.4	1333.45	031.5	1335.55	031.6	1337.66	031.7	1340.14
031.8	1348.67	031.9	1357.19	032.0	1365.71	032.1	1374.23	032.2	1382.73	032.3	1391.24
032.4	1394.49	032.5	1391.01	032.6	1387.50	032.7	1383.96	032.8	1380.38	032.9	1376.77
033.0	1373.12	033.1	1375.93	033.2	1380.17	033.3	1384.45	033.4	1388.77	033.5	1393.13
033.6	1397.53	033.7	1400.61	033.8	1398.46	033.9	1396.30	034.0	1394.11	034.1	1391.89
034.2	1389.66	034.3	1387.40	034.4	1386.83	034.5	1387.44	034.6	1388.07	034.7	1388.70
034.8	1389.35	034.9	1390.01	035.0	1390.68	035.1	1389.11	035.2	1387.47	035.3	1385.82
035.4	1384.15	035.5	1382.48	035.6	1380.80	035.7	1378.72	035.8	1375.97	035.9	1373.20

036.0	1370.43	036.1	1367.63	036.2	1364.83	036.3	1362.02	036.4	1360.65	036.5	1359.76
036.6	1358.87	036.7	1357.96	036.8	1357.04	036.9	1356.11	037.0	1356.08	037.1	1362.12
037.2	1368.21	037.3	1374.33	037.4	1380.50	037.5	1386.71	037.6	1392.96	037.7	1396.00
037.8	1396.00	037.9	1396.00	038.0	1396.00	038.1	1396.00	038.2	1396.00	038.3	1396.00
038.4	1396.00	038.5	1396.00	038.6	1396.00	038.7	1396.00	038.8	1396.00	038.9	1396.00
039.0	1396.26	039.1	1397.17	039.2	1398.07	039.3	1398.98	039.4	1399.89	039.5	1400.79
039.6	1401.70	039.7	1401.98	039.8	1401.95	039.9	1401.91	040.0	1401.86	040.1	1401.81
040.2	1401.76	040.3	1401.65	040.4	1400.78	040.5	1399.90	040.6	1399.04	040.7	1398.18
040.8	1397.32	040.9	1396.47	041.0	1396.03	041.1	1396.10	041.2	1396.17	041.3	1396.25
041.4	1396.34	041.5	1396.43	041.6	1396.53	041.7	1397.17	041.8	1397.91	041.9	1398.65
042.0	1399.37	042.1	1400.09	042.2	1400.79	042.3	1400.82	042.4	1398.40	042.5	1395.99
042.6	1393.60	042.7	1391.22	042.8	1388.87	042.9	1386.52	043.0	1387.00	043.1	1389.38
043.2	1391.75	043.3	1394.10	043.4	1396.43	043.5	1398.74	043.6	1401.04	043.7	1400.32
043.8	1399.54	043.9	1398.77	044.0	1398.00	044.1	1397.24	044.2	1396.48	044.3	1395.94
044.4	1395.78	044.5	1395.62	044.6	1395.45	044.7	1395.27	044.8	1395.09	044.9	1394.90
045.0	1393.76	045.1	1392.27	045.2	1390.73	045.3	1389.15	045.4	1387.52	045.5	1385.85
045.6	1383.93	045.7	1380.72	045.8	1377.53	045.9	1374.36	046.0	1371.20	046.1	1368.06
046.2	1364.93	046.3	1361.18	046.4	1356.85	046.5	1352.53	046.6	1348.23	046.7	1343.93
046.8	1339.65	046.9	1335.38	047.0	1334.04	047.1	1332.98	047.2	1331.91	047.3	1330.81
047.4	1329.69	047.5	1328.55	047.6	1327.54	047.7	1326.89	047.8	1326.23	047.9	1325.57
048.0	1324.89	048.1	1324.20	048.2	1323.50	048.3	1318.57	048.4	1311.64	048.5	1304.76
048.6	1297.93	048.7	1291.15	048.8	1284.42	048.9	1278.22	049.0	1279.50	049.1	1280.75
049.2	1281.98	049.3	1283.18	049.4	1284.36	049.5	1285.51	049.6	1285.14	049.7	1282.92
049.8	1280.71	049.9	1278.51	050.0	1276.33	050.1	1274.15	050.2	1271.99	050.3	1271.83
050.4	1272.08	050.5	1272.34	050.6	1272.60	050.7	1272.87	050.8	1273.15	050.9	1272.74
051.0	1269.84	051.1	1266.97	051.2	1264.12	051.3	1261.30	051.4	1258.51	051.5	1255.75
051.6	1253.59	051.7	1251.86	051.8	1250.17	051.9	1248.52	052.0	1246.92	052.1	1245.36
052.2	1243.85	052.3	1241.53	052.4	1239.16	052.5	1236.74	052.6	1234.27	052.7	1231.75
052.8	1229.19	052.9	1227.83	053.0	1228.57	053.1	1229.33	053.2	1230.11	053.3	1230.92
053.4	1231.74	053.5	1232.59	053.6	1233.48	053.7	1234.39	053.8	1235.31	053.9	1236.25
054.0	1237.19	054.1	1238.14	054.2	1239.52	054.3	1243.41	054.4	1247.29	054.5	1251.16
054.6	1255.02	054.7	1258.86	054.8	1262.69	054.9	1263.61	055.0	1261.91	055.1	1260.15
055.2	1258.35	055.3	1256.49	055.4	1254.57	055.5	1252.61	055.6	1250.28	055.7	1247.91
055.8	1245.54	055.9	1243.17	056.0	1240.79	056.1	1238.40	056.2	1236.16	056.3	1234.26
056.4	1232.38	056.5	1230.52	056.6	1228.69	056.7	1226.88	056.8	1225.08	056.9	1223.93
057.0	1223.08	057.1	1222.23	057.2	1221.39	057.3	1220.56	057.4	1219.75	057.5	1218.85
057.6	1216.75	057.7	1214.66	057.8	1212.59	057.9	1210.53	058.0	1208.49	058.1	1206.47
058.2	1204.51	058.3	1202.59	058.4	1200.67	058.5	1198.74	058.6	1196.79	058.7	1194.84
058.8	1192.88	058.9	1193.82	059.0	1195.28	059.1	1196.72	059.2	1198.13	059.3	1199.53
059.4	1200.91	059.5	1202.59	059.6	1205.34	059.7	1208.12	059.8	1210.92	059.9	1213.74
060.0	1216.60	060.1	1219.47	060.2	1223.70	060.3	1228.75				

44 37 20 N.
107 06 57 W.
Azimuth of radial= 89°
Delta h= 233.3M, Interval=.1, COR AMSL= 2354 M M

Radial length = 60 km(Delta h calculation begins at 10 km)

000.0	2230.25	000.1	2216.62	000.2	2202.88	000.3	2189.04	000.4	2175.10	000.5	2161.06
000.6	2147.43	000.7	2145.08	000.8	2142.70	000.9	2140.30	001.0	2137.87	001.1	2135.41
001.2	2132.93	001.3	2126.12	001.4	2113.58	001.5	2101.02	001.6	2088.45	001.7	2075.86
001.8	2063.25	001.9	2050.63	002.0	2028.23	002.1	2003.59	002.2	1978.94	002.3	1954.29
002.4	1929.63	002.5	1904.97	002.6	1880.94	002.7	1859.53	002.8	1838.12	002.9	1816.71
003.0	1795.30	003.1	1773.89	003.2	1752.48	003.3	1734.13	003.4	1717.92	003.5	1701.68
003.6	1685.40	003.7	1669.09	003.8	1652.75	003.9	1636.38	004.0	1624.14	004.1	1612.11
004.2	1600.15	004.3	1588.27	004.4	1576.45	004.5	1564.71	004.6	1553.87	004.7	1544.56
004.8	1535.25	004.9	1525.96	005.0	1516.68	005.1	1507.42	005.2	1498.17	005.3	1484.55
005.4	1469.43	005.5	1454.32	005.6	1439.24	005.7	1424.17	005.8	1409.13	005.9	1395.40
006.0	1390.65	006.1	1385.89	006.2	1381.11	006.3	1376.32	006.4	1371.51	006.5	1366.69
006.6	1364.41	006.7	1364.56	006.8	1364.70	006.9	1364.84	007.0	1364.98	007.1	1365.11
007.2	1365.24	007.3	1368.24	007.4	1371.58	007.5	1374.92	007.6	1378.28	007.7	1381.64
007.8	1385.00	007.9	1388.53	008.0	1392.44	008.1	1396.32	008.2	1400.18	008.3	1404.02
008.4	1407.84	008.5	1411.63	008.6	1414.14	008.7	1416.00	008.8	1417.87	008.9	1419.73
009.0	1421.58	009.1	1423.44	009.2	1425.44	009.3	1430.15	009.4	1434.87	009.5	1439.60
009.6	1444.36	009.7	1449.12	009.8	1453.91	009.9	1455.74	010.0	1453.74	010.1	1451.70
010.2	1449.62	010.3	1447.49	010.4	1445.33	010.5	1443.13	010.6	1449.09	010.7	1456.82
010.8	1464.59	010.9	1472.39	011.0	1480.22	011.1	1488.08	011.2	1494.67	011.3	1496.34
011.4	1498.00	011.5	1499.64	011.6	1501.26	011.7	1502.86	011.8	1504.45	011.9	1508.03
012.0	1512.97	012.1	1517.89	012.2	1522.79	012.3	1527.68	012.4	1532.55	012.5	1537.41
012.6	1535.81	012.7	1534.11	012.8	1532.43	012.9	1530.76	013.0	1529.12	013.1	1527.49
013.2	1526.72	013.3	1527.39	013.4	1528.08	013.5	1528.76	013.6	1529.45	013.7	1530.14
013.8	1530.83	013.9	1533.28	014.0	1536.32	014.1	1539.37	014.2	1542.45	014.3	1545.54
014.4	1548.65	014.5	1550.86	014.6	1547.37	014.7	1543.87	014.8	1540.35	014.9	1536.83
015.0	1533.31	015.1	1529.77	015.2	1523.20	015.3	1513.88	015.4	1504.55	015.5	1495.23
015.6	1485.91	015.7	1476.59	015.8	1467.27	015.9	1465.56	016.0	1464.60	016.1	1463.63
016.2	1462.67	016.3	1461.70	016.4	1460.73	016.5	1458.87	016.6	1454.89	016.7	1450.93
016.8	1446.99	016.9	1443.07	017.0	1439.17	017.1	1435.28	017.2	1431.53	017.3	1427.82
017.4	1424.09	017.5	1420.36	017.6	1416.61	017.7	1412.85	017.8	1409.26	017.9	1408.10
018.0	1406.96	018.1	1405.85	018.2	1404.76	018.3	1403.69	018.4	1402.64	018.5	1399.64
018.6	1394.24	018.7	1388.82	018.8	1383.39	018.9	1377.94	019.0	1372.48	019.1	1367.01
019.2	1365.19	019.3	1364.08	019.4	1363.00	019.5	1361.92	019.6	1360.84	019.7	1359.74
019.8	1358.47	019.9	1356.64	020.0	1354.82	020.1	1353.01	020.2	1351.20	020.3	1349.39
020.4	1347.60	020.5	1346.35	020.6	1345.45	020.7	1344.56	020.8	1343.66	020.9	1342.77
021.0	1341.89	021.1	1341.00	021.2	1339.25	021.3	1337.49	021.4	1335.74	021.5	1333.99
021.6	1332.25	021.7	1330.52	021.8	1329.39	021.9	1329.23	022.0	1329.05	022.1	1328.86
022.2	1328.65	022.3	1328.44	022.4	1328.20	022.5	1328.92	022.6	1329.94	022.7	1330.97
022.8	1332.01	022.9	1333.05	023.0	1334.10	023.1	1336.59	023.2	1346.92	023.3	1357.21
023.4	1367.47	023.5	1377.69	023.6	1387.88	023.7	1398.03	023.8	1396.55	023.9	1385.20
024.0	1373.88	024.1	1362.59	024.2	1351.33	024.3	1340.10	024.4	1328.91	024.5	1329.29
024.6	1330.63	024.7	1331.97	024.8	1333.34	024.9	1334.72	025.0	1336.11	025.1	1337.28
025.2	1337.90	025.3	1338.51	025.4	1339.10	025.5	1339.69	025.6	1340.27	025.7	1340.83
025.8	1344.39	025.9	1349.26	026.0	1354.14	026.1	1359.02	026.2	1363.90	026.3	1368.79
026.4	1373.56	026.5	1377.01	026.6	1380.46	026.7	1383.90	026.8	1387.33	026.9	1390.76
027.0	1394.19	027.1	1395.55	027.2	1394.56	027.3	1393.55	027.4	1392.52	027.5	1391.47
027.6	1390.39	027.7	1389.29	027.8	1388.38	027.9	1387.51	028.0	1386.64	028.1	1385.78
028.2	1384.92	028.3	1384.06	028.4	1381.67	028.5	1374.46	028.6	1367.26	028.7	1360.06
028.8	1352.87	028.9	1345.68	029.0	1338.50	029.1	1340.29	029.2	1347.41	029.3	1354.54
029.4	1361.68	029.5	1368.84	029.6	1376.01	029.7	1382.99	029.8	1376.20	029.9	1369.40
030.0	1362.60	030.1	1355.80	030.2	1348.99	030.3	1342.17	030.4	1337.77	030.5	1336.99
030.6	1336.21	030.7	1335.43	030.8	1334.65	030.9	1333.88	031.0	1333.11	031.1	1333.30
031.2	1333.76	031.3	1334.23	031.4	1334.70	031.5	1335.18	031.6	1335.67	031.7	1337.65
031.8	1346.71	031.9	1355.78	032.0	1364.84	032.1	1373.90	032.2	1382.95	032.3	1392.01
032.4	1395.93	032.5	1395.79	032.6	1395.64	032.7	1395.47	032.8	1395.29	032.9	1395.10
033.0	1394.89	033.1	1395.17	033.2	1395.49	033.3	1395.84	033.4	1396.20	033.5	1396.57
033.6	1396.97	033.7	1397.30	033.8	1397.45	033.9	1397.60	034.0	1397.74	034.1	1397.87
034.2	1397.98	034.3	1398.09	034.4	1397.74	034.5	1397.20	034.6	1396.67	034.7	1396.15
034.8	1395.63	034.9	1395.11	035.0	1394.61	035.1	1394.20	035.2	1393.77	035.3	1393.35
035.4	1392.92	035.5	1392.48	035.6	1392.04	035.7	1391.13	035.8	1389.74	035.9	1388.34

036.0	1386.94	036.1	1385.53	036.2	1384.12	036.3	1382.70	036.4	1382.90	036.5	1383.32
036.6	1383.74	036.7	1384.16	036.8	1384.57	036.9	1384.97	037.0	1385.68	037.1	1387.26
037.2	1388.86	037.3	1390.47	037.4	1392.10	037.5	1393.75	037.6	1395.41	037.7	1396.00
037.8	1396.00	037.9	1396.00	038.0	1396.00	038.1	1396.00	038.2	1396.00	038.3	1396.00
038.4	1396.00	038.5	1396.00	038.6	1396.00	038.7	1396.00	038.8	1396.00	038.9	1396.00
039.0	1396.11	039.1	1396.36	039.2	1396.61	039.3	1396.87	039.4	1397.12	039.5	1397.38
039.6	1397.65	039.7	1398.23	039.8	1398.88	039.9	1399.54	040.0	1400.19	040.1	1400.83
040.2	1401.48	040.3	1401.82	040.4	1400.92	040.5	1400.01	040.6	1399.10	040.7	1398.19
040.8	1397.29	040.9	1396.38	041.0	1394.89	041.1	1392.99	041.2	1391.09	041.3	1389.21
041.4	1387.32	041.5	1385.45	041.6	1383.58	041.7	1386.24	041.8	1389.05	041.9	1391.85
042.0	1394.64	042.1	1397.43	042.2	1400.21	042.3	1401.48	042.4	1400.00	042.5	1398.51
042.6	1397.02	042.7	1395.53	042.8	1394.03	042.9	1392.53	043.0	1390.96	043.1	1389.38
043.2	1387.81	043.3	1386.26	043.4	1384.73	043.5	1383.21	043.6	1382.25	043.7	1385.01
043.8	1387.77	043.9	1390.51	044.0	1393.24	044.1	1395.96	044.2	1398.66	044.3	1398.74
044.4	1396.34	044.5	1393.94	044.6	1391.56	044.7	1389.18	044.8	1386.81	044.9	1384.45
045.0	1385.30	045.1	1386.50	045.2	1387.70	045.3	1388.89	045.4	1390.08	045.5	1391.27
045.6	1391.92	045.7	1391.23	045.8	1390.52	045.9	1389.81	046.0	1389.09	046.1	1388.35
046.2	1387.61	046.3	1385.04	046.4	1381.58	046.5	1378.11	046.6	1374.64	046.7	1371.17
046.8	1367.69	046.9	1364.48	047.0	1365.59	047.1	1366.69	047.2	1367.79	047.3	1368.88
047.4	1369.97	047.5	1371.05	047.6	1371.88	047.7	1372.40	047.8	1372.91	047.9	1373.41
048.0	1373.92	048.1	1374.43	048.2	1374.93	048.3	1367.75	048.4	1359.02	048.5	1350.30
048.6	1341.57	048.7	1332.84	048.8	1324.11	048.9	1318.26	049.0	1322.67	049.1	1327.07
049.2	1331.46	049.3	1335.86	049.4	1340.24	049.5	1344.62	049.6	1342.26	049.7	1335.54
049.8	1328.84	049.9	1322.14	050.0	1315.47	050.1	1308.80	050.2	1302.15	050.3	1299.82
050.4	1297.54	050.5	1295.26	050.6	1292.99	050.7	1290.73	050.8	1288.48	050.9	1285.97
051.0	1283.02	051.1	1280.07	051.2	1277.11	051.3	1274.15	051.4	1271.18	051.5	1268.21
051.6	1265.99	051.7	1263.99	051.8	1261.99	051.9	1259.97	052.0	1257.95	052.1	1255.92
052.2	1254.24	052.3	1254.56	052.4	1254.89	052.5	1255.21	052.6	1255.54	052.7	1255.87
052.8	1256.21	052.9	1253.84	053.0	1249.19	053.1	1244.54	053.2	1239.91	053.3	1235.30
053.4	1230.69	053.5	1226.10	053.6	1224.81	053.7	1223.78	053.8	1222.75	053.9	1221.73
054.0	1220.71	054.1	1219.70	054.2	1219.65	054.3	1221.73	054.4	1223.83	054.5	1225.93
054.6	1228.04	054.7	1230.16	054.8	1232.29	054.9	1233.81	055.0	1235.07	055.1	1236.33
055.2	1237.60	055.3	1238.88	055.4	1240.16	055.5	1241.27	055.6	1240.48	055.7	1239.70
055.8	1238.91	055.9	1238.12	056.0	1237.32	056.1	1236.52	056.2	1235.06	056.3	1232.85
056.4	1230.64	056.5	1228.42	056.6	1226.20	056.7	1223.98	056.8	1221.74	056.9	1219.47
057.0	1217.19	057.1	1214.92	057.2	1212.64	057.3	1210.37	057.4	1208.10	057.5	1206.09
057.6	1204.86	057.7	1203.62	057.8	1202.37	057.9	1201.12	058.0	1199.86	058.1	1198.59
058.2	1198.73	058.3	1199.70	058.4	1200.65	058.5	1201.61	058.6	1202.55	058.7	1203.49
058.8	1204.40	058.9	1204.28	059.0	1204.18	059.1	1204.09	059.2	1204.01	059.3	1203.94
059.4	1203.89	059.5	1205.18	059.6	1208.41	059.7	1211.63	059.8	1214.84	059.9	1218.03
060.0	1221.21										

E1C EIGHT RADIAL HAAT TABULATION

N. Lat. = 44 37 20 W. Lng. = 107 06 57

HAAT and Distance to Contour - FCC Method - 30 Arc Sec.

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	70-F5
000	1407.0	947.0	2.1000	3.22	1.000	61.83	39.78
045	1356.9	997.1	2.1000	3.22	1.000	62.84	40.76
090	1503.3	850.7	2.1000	3.22	1.000	59.70	37.69
135	2178.6	175.4	2.1000	3.22	1.000	28.63	16.60
180	2620.6	-266.6	2.1000	3.22	1.000	12.15	6.79
225	2506.3	-152.3	2.1000	3.22	1.000	12.15	6.79
270	2426.2	-72.2	2.1000	3.22	1.000	12.15	6.79
315	2099.3	254.7	2.1000	3.22	1.000	34.34	19.99

Ave El= 2012.27 M HAAT= 341.73 M AMSL= 2354 M

E2A CLEARMONT

REFERENCE

44 39 06 N.
106 23 06 W.

CLASS = C3

Current Spacings

DISPLAY DATES

DATA 02-08-06
SEARCH 02-09-06

----- Channel 284 - 104.7 MHz -----

Call	Channel	Location		Azi	Dist	FCC	Margin
AU062	VAC	287A	Clearmont	WY	165.0	1.53	42.0 -40.47 (1)

(1) Note that the 284C3 fully=spaced allocation point is mutually exclusive
With the channel 287A Clearmont allocation and the applicant's Auction 62
application site.

AP287	APP	287A	Clearmont	WY	273.4	17.69	42.0 -24.31 (1)
RADD	ADD	283C1	Upton	WY	112.2	144.80	144.0 0.80
KTRSFM	APP	284C1	Casper	WY	178.3	212.08	211.0 1.08
KTRSFM	LIC	284C1	Casper	WY	178.3	212.08	211.0 1.08
AU062	VAC	283A	Upton	WY	113.1	153.03	89.0 64.03
RDEL	DEL	283A	Upton	WY	113.1	153.03	89.0 64.03
AU062	VAC	286C3	Ten Sleep	WY	231.4	109.12	43.0 66.12
RADD	ADD	285C	Ellsworth Afb	SD	112.5	253.07	176.0 77.07
AU062	VAC	287A	Wright	WY	143.7	124.32	42.0 82.32
KCGL	LIC	281C	Powell	WY	266.4	220.53	96.0 124.53
KQBL	LIC	286A	Billings	MT	308.1	204.37	42.0 162.37
KAWK	LIC	286C1	Custer	SD	112.5	253.07	76.0 177.07
RDEL	DEL	286C1	Custer	SD	112.5	253.07	76.0 177.07
KRKX	LIC	231C1	Billings	MT	308.0	203.87	24.0 179.87
KIQK	LIC	281C1	Rapid City	SD	104.6	258.93	76.0 182.93
AU062	VAC	286A	Hudson	WY	223.1	262.50	42.0 220.50
KANT.C	CP	281C2	Guernsey	WY	156.5	278.41	56.0 222.41
KTAK	LIC	230C1	Riverton	WY	214.0	257.38	24.0 233.38
KMK	LIC	230C1	Rapid City	SD	104.0	259.16	24.0 235.16
RDEL	DEL	283C2	Laramie	WY	167.3	362.74	117.0 245.74
RADD	ADD	283C2	Laramie	WY	171.0	367.39	117.0 250.39
AU062	VAC	282C	Wamsutter	WY	205.5	357.59	96.0 261.59
KRQU	LIC	283C2	Laramie	WY	168.1	378.83	117.0 261.83
AU062	VAC	231A	Dubois	WY	245.7	287.55	12.0 275.55
NEW .C	CP	230C1	Belfield	ND	42.5	344.09	24.0 320.09

E2B FULLY SPACED REFERENCE POINT
70 DBU COVERAGE OF CLEARMONT

70 DBU = 23.2 KM

284C3

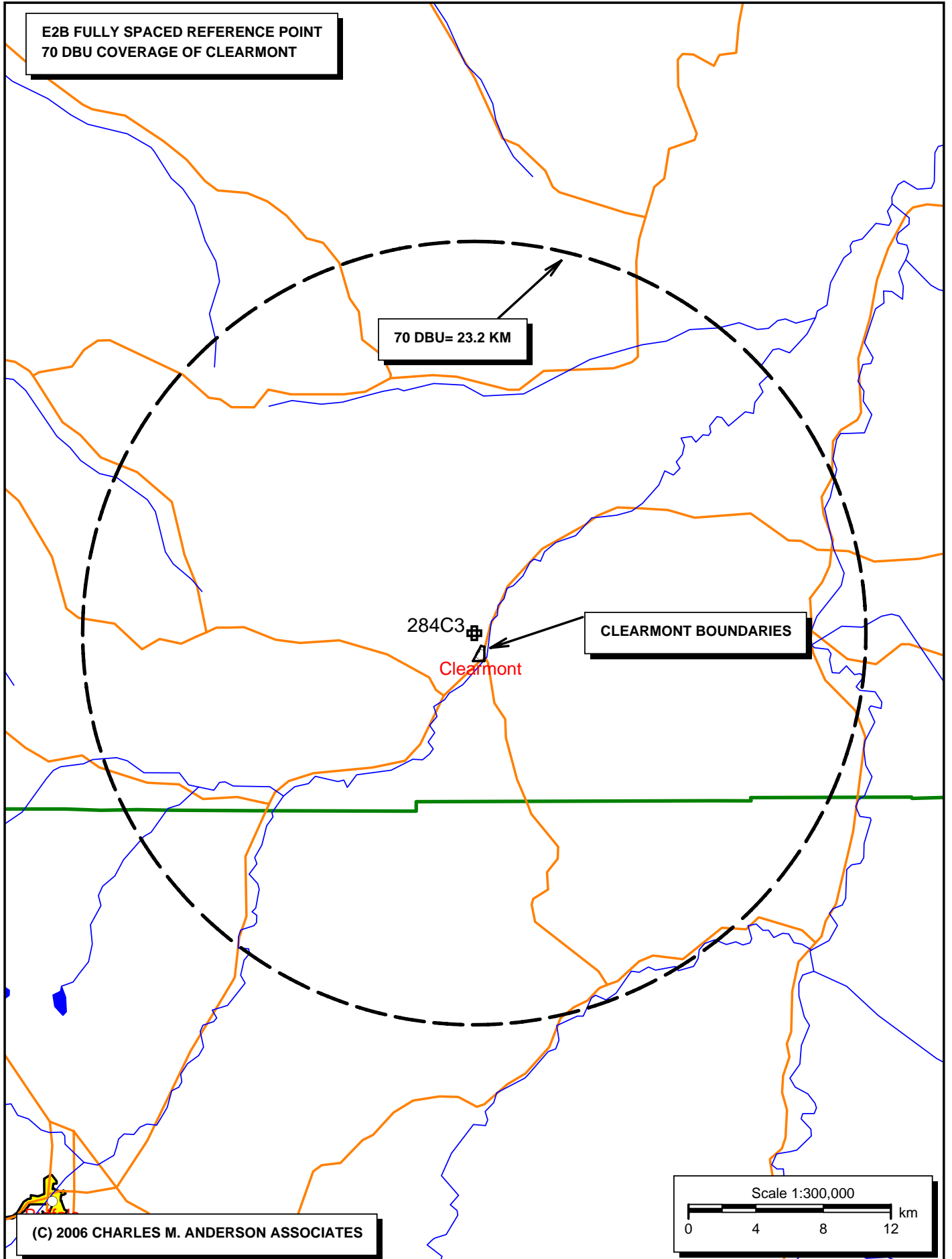
Clearmont

CLEARMONT BOUNDARIES

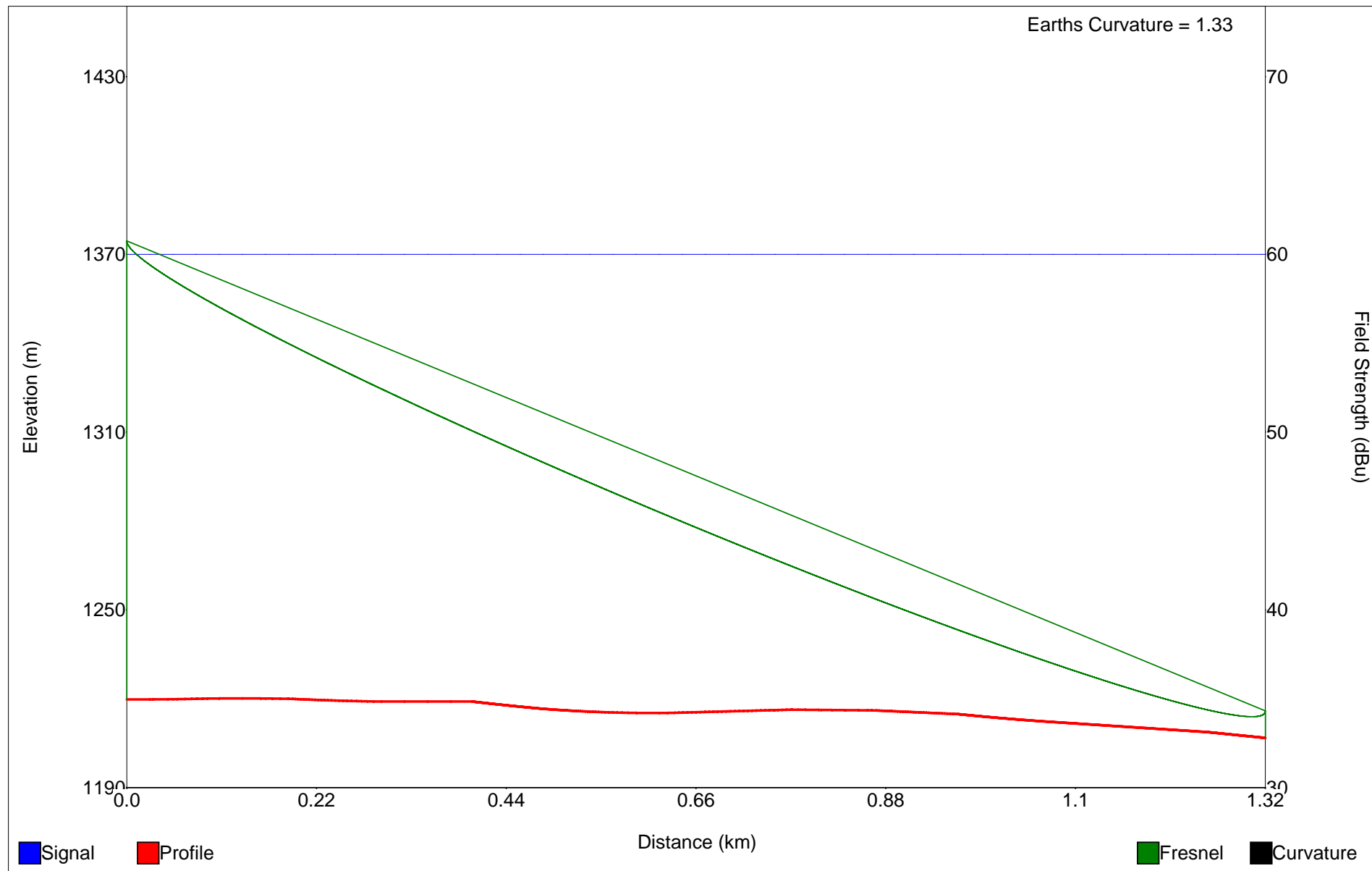
Scale 1:300,000

0 4 8 12 km

(C) 2006 CHARLES M. ANDERSON ASSOCIATES



E2C 284C3 FULLY SPACED REFERENCE POINT LINE OF SIGHT TO CLEARMONT REFERENCE POINT



Starting Latitude: 44-39-06 N
Starting Longitude: 106-23-06 W

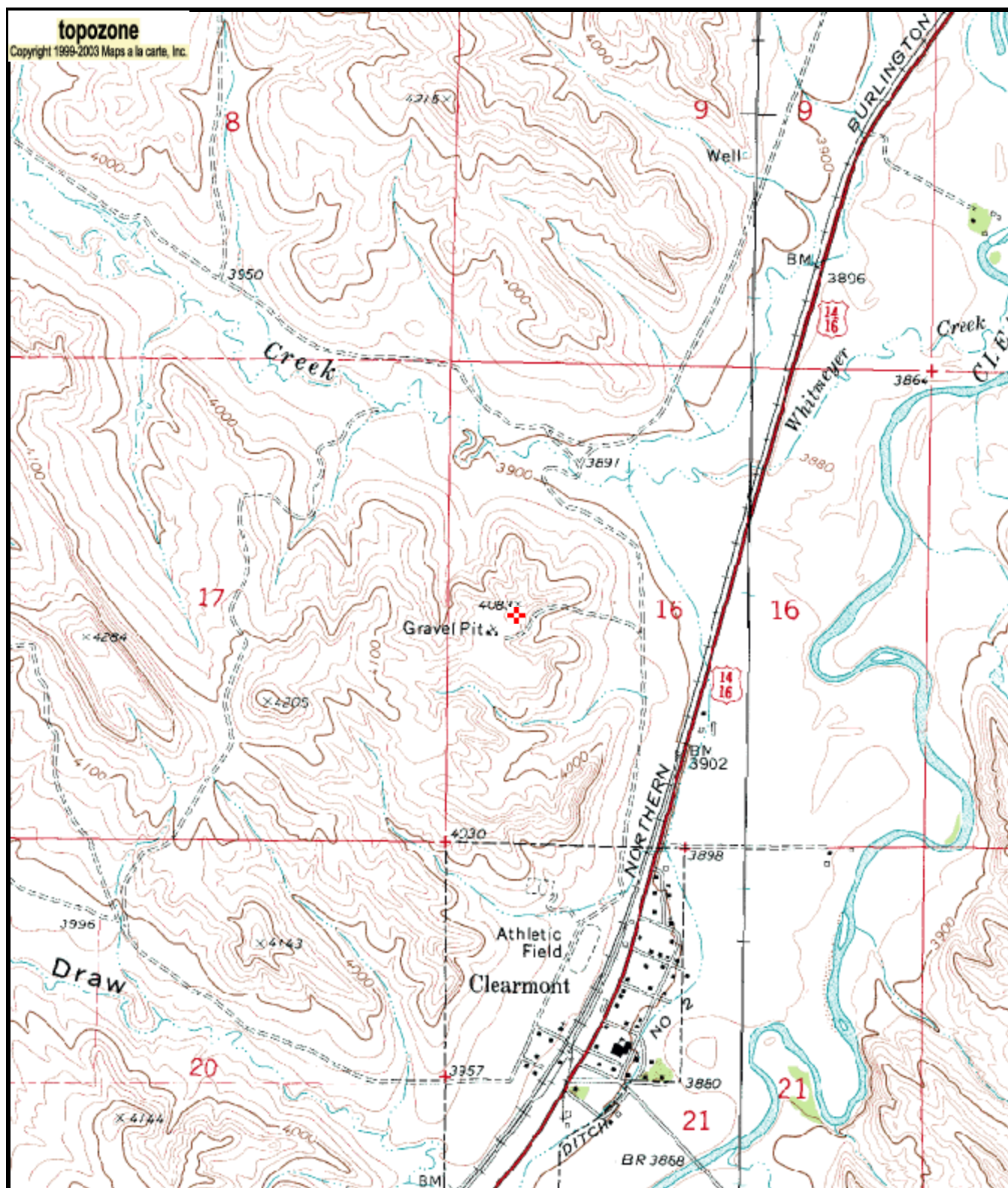
End Latitude: 44-38-25 N
End Longitude: 106-22-49 W

Distance: 1.319861243 km
Bearing: 163.509 deg

Transmitter Height (AG) = 150 m
Receiver Height (AG) = 9.1 m

Transmitter Elevation = 1219.7 m
Receiver Elevation = 1206.7 m

Frequency = 105.3 MHz
Fresnel Zone: 0.6



Map center is 44° 39' 06"N, 106° 23' 06"W (NAD27)

Clearmont quadrangle - Elevation 4,077.3 ft / 1,242.7 m (USGS NED)

Projection is UTM Zone 13 NAD83 Datum

M=11.418
G=-0.974