

Results of Directional Survey

API number:	30-005-29195		
OGRID:		Operator:	CIMAREX ENERGY CO of COLORADO
		Property:	BOXER 3 FEDERAL COM # 1H

surface	ULSTR:	H	03	T 15S	R 31E
				2135 FNL	170 FEL

BH Loc	ULSTR:	E	03	T 15S	R 31E
13380	MD	8680.8	TVD	2274 FNL	4947 FEL
333 BWL					

Top Perf/OH	ULSTR:	H	03	T 15S	R 31E
9480	MD	8734.1	TVD	2036 FNL	1056 FEL

Bot Perf/OH	ULSTR:	E	03	T 15S	R 31E
13327	MD	8681.9	TVD	2273 FNL	4894 FEL
386					

	MD	N/S	E/W	VD
	9447	101.12	-853.14	8734.96
TOP PERFS/OH	9480	98.59	-886.03	8734.13
	9510	96.29	-915.93	8733.37
	13307	-137.05	-4704.24	8682.33
BOT PERFS/OH	13327	-137.68	-4724.23	8681.88
	13328	-137.71	-4725.23	8681.86

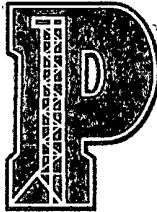
NEXT TO LAST	13328	-137.71	-4725.23	8681.86
LAST READING	13380	-139.34	-4777.19	8680.77
TD	13380	-139.34	-4777.19	8680.77

Surface Location	2135 FN	170 FE
Projected BHL	2274 FN	4947 FE
Location of		
Top Perfs/OH	2036 FN	1056 FE
Bottom Perfs/OH	2273 FN	4894 FE

SUMMARY of Subsurface Locations

Surface Location	H-03-15S-31E	2135 FN	170 FE	Vert. Depth
Top Perfs/OH	H-03-15S-31E	2036 FN	1056 FE	8734.13
Bottom Perfs/OH	E-03-15S-31E	2273 FN	4894 FE	8681.88
Projected TD	E-03-15S-31E	2274 FN	4947 FE	8680.77

MAY 17 2012



HOBBS OCD

MAY 08 2012

OPERATOR: Cimarex Energy Co.
WELL/LEASE: Boxer 3 Federal #1
COUNTY: Chaves Co., New, Mexico
Sec. 3, T15S, R31E

RECEIVED

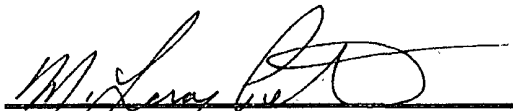
PATRIOT DRILLING, LLC

STATE OF NEW MEXICO
DEVIATION REPORT

Depth	Deviation	Depth	Deviation
135	1	4,996	1
283	1	5,281	1
345	1	5,565	1
584	1	5,850	7
1,391	1	5,945	6
1,675	1	6,032	4 1/2
1,960	1	6,134	3 3/4
2,243	1	3,218	3
2,529	1	6,324	2 1/2
2,814	1	6,419	1 3/4
3,099	1	6,506	1
3,352	1	6,595	1 3/4
3,669	1	6,893	1/2
3,953	1	7,170	1/2
4,082	1	7,455	1
4,427	1	7,739	1
4,712	1	8,023	

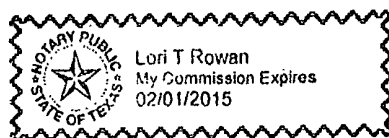
SUR: H-3-15s-31e, 2135/N & 170/E
BHL: E-03-15s-31e, 2274/N & 4947/E
API # 30-005-29195

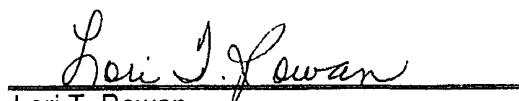
Patriot Drilling, LLC


M. Leroy Peterson, Executive Vice-
President

The foregoing instrument was acknowledged before me on this 13th day of
February, 2012 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling,

My Commission Expires: 02/01/2015




Lori T. Rowan
Notary Public for Ector Co., Texas



Actual Wellpath Report

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Boxer) Sec 3, T15S, R31E	Wellbore	No.1H AWB
Facility	Boxer 3 Fed Com		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect@ 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.99994	Report Generated	2/6/2012 at 7:33:26 AM
Convergence at slot	0.29° East	Database/Source file	WA Midland/No.1H_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	704300.70	744842.30	33°02'47.157"N	103°48'05.399"W
Facility Reference Pt			704300.70	744842.30	33°02'47.157"N	103°48'05.399"W
Field Reference Pt			702479.90	746588.40	33°03'04.524"N	103°48'26.688"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 1H SHL (KB) to GL	4426.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (KB) to Mean Sea Level	4426.00ft
Vertical Reference Pt	Rig on No. 1H SHL (KB)	Rig on No. 1H SHL (KB) to Mud Line at Slot (No. 1H SHL)	4426.00ft
MD Reference Pt	Rig on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	268.02°



Actual Wellpath Report

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
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Area	Chaves County, NM	Well	No. 1H
Field	(Boxer) Sec 3, T15S, R31E	Wellbore	No.1H AWP
Facility	Boxer 3 Fed Com		

WELLPATH DATA (180 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	288.260	0.00	0.00	0.00	0.00	704300.70	744842.30	33°02'47.157"N	103°48'05.399"W	0.00	
100.00	0.440	288.260	100.00	0.36	0.12	-0.36	704300.34	744842.42	33°02'47.158"N	103°48'05.403"W	0.44	
200.00	0.510	313.410	200.00	1.03	0.55	-1.05	704299.65	744842.85	33°02'47.162"N	103°48'05.411"W	0.22	
300.00	0.440	303.980	299.99	1.66	1.07	-1.69	704299.01	744843.37	33°02'47.167"N	103°48'05.419"W	0.10	
400.00	0.360	312.120	399.99	2.19	1.49	-2.25	704298.45	744843.79	33°02'47.172"N	103°48'05.425"W	0.10	
500.00	0.410	302.920	499.99	2.71	1.90	-2.78	704297.92	744844.20	33°02'47.176"N	103°48'05.432"W	0.08	
600.00	0.480	290.370	599.98	3.39	2.24	-3.47	704297.23	744844.54	33°02'47.179"N	103°48'05.440"W	0.12	
708.80	0.140	272.190	708.78	3.95	2.40	-4.03	704296.67	744844.70	33°02'47.181"N	103°48'05.446"W	0.32	
803.60	0.140	223.810	803.58	4.15	2.32	-4.23	704296.47	744844.62	33°02'47.180"N	103°48'05.449"W	0.12	
898.40	0.090	259.230	898.38	4.30	2.22	-4.38	704296.32	744844.52	33°02'47.179"N	103°48'05.450"W	0.09	
993.30	0.150	216.480	993.28	4.45	2.11	-4.53	704296.17	744844.41	33°02'47.178"N	103°48'05.452"W	0.11	
1088.10	0.250	220.460	1088.08	4.67	1.85	-4.74	704295.96	744844.15	33°02'47.175"N	103°48'05.455"W	0.11	
1183.00	0.370	222.110	1182.98	5.02	1.47	-5.08	704295.62	744843.77	33°02'47.172"N	103°48'05.459"W	0.13	
1277.80	0.520	226.090	1277.78	5.56	0.94	-5.59	704295.11	744843.24	33°02'47.166"N	103°48'05.465"W	0.16	
1372.60	0.540	226.150	1372.57	6.21	0.34	-6.22	704294.48	744842.64	33°02'47.160"N	103°48'05.472"W	0.02	
1467.50	0.550	242.610	1467.47	6.95	-0.18	-6.95	704293.75	744842.12	33°02'47.155"N	103°48'05.481"W	0.16	
1562.30	0.340	242.410	1562.27	7.62	-0.52	-7.60	704293.10	744841.78	33°02'47.152"N	103°48'05.488"W	0.22	
1657.20	0.570	246.160	1657.16	8.31	-0.84	-8.29	704292.42	744841.46	33°02'47.149"N	103°48'05.497"W	0.24	
1752.00	0.560	240.920	1751.96	9.16	-1.26	-9.12	704291.58	744841.04	33°02'47.145"N	103°48'05.506"W	0.06	
1846.80	0.140	234.830	1846.76	9.67	-1.55	-9.62	704291.08	744840.75	33°02'47.142"N	103°48'05.512"W	0.44	
1941.70	0.590	81.940	1941.66	9.28	-1.55	-9.23	704291.47	744840.75	33°02'47.142"N	103°48'05.508"W	0.76	
2036.50	1.230	81.110	2036.44	7.78	-1.32	-7.74	704292.96	744840.98	33°02'47.144"N	103°48'05.490"W	0.68	
2131.30	1.250	80.980	2131.22	5.75	-1.01	-5.72	704294.98	744841.29	33°02'47.147"N	103°48'05.466"W	0.02	
2226.20	1.230	81.390	2226.10	3.71	-0.69	-3.69	704297.01	744841.61	33°02'47.150"N	103°48'05.442"W	0.02	
2321.00	0.960	68.900	2320.88	1.95	0.25	-1.94	704298.76	744842.05	33°02'47.154"N	103°48'05.422"W	0.38	
2415.90	1.070	65.180	2415.77	0.38	0.41	-0.39	704300.31	744842.71	33°02'47.161"N	103°48'05.404"W	0.14	
2510.70	1.040	63.090	2510.55	-1.22	1.17	1.18	704301.88	744843.47	33°02'47.168"N	103°48'05.385"W	0.05	
2605.60	0.880	59.010	2605.44	-2.63	1.93	2.57	704303.27	744844.23	33°02'47.176"N	103°48'05.369"W	0.18	
2700.40	0.810	50.640	2700.23	-3.80	2.73	3.71	704304.41	744845.03	33°02'47.184"N	103°48'05.355"W	0.15	
2795.20	0.840	55.400	2795.02	-4.92	3.55	4.80	704305.50	744845.85	33°02'47.192"N	103°48'05.343"W	0.08	
2890.10	0.830	48.700	2889.91	-6.04	4.40	5.89	704306.59	744846.70	33°02'47.200"N	103°48'05.330"W	0.10	
2984.90	0.760	40.100	2984.70	-6.99	5.33	6.81	704307.51	744847.63	33°02'47.209"N	103°48'05.319"W	0.15	
3079.80	0.800	34.780	3079.59	-7.81	6.36	7.59	704308.29	744848.66	33°02'47.219"N	103°48'05.310"W	0.09	
3174.60	0.830	20.350	3174.38	-8.47	7.55	8.21	704308.91	744849.85	33°02'47.231"N	103°48'05.302"W	0.22	
3269.40	0.820	9.650	3269.17	-8.86	8.86	8.56	704309.26	744851.16	33°02'47.244"N	103°48'05.298"W	0.16	
3364.30	0.910	359.110	3364.06	-9.02	10.28	8.67	704309.36	744852.58	33°02'47.258"N	103°48'05.297"W	0.19	
3459.10	0.970	357.990	3458.85	-9.03	11.84	8.63	704309.32	744854.14	33°02'47.273"N	103°48'05.297"W	0.07	
3553.90	1.150	359.510	3553.63	-9.05	13.59	8.59	704309.29	744855.89	33°02'47.291"N	103°48'05.297"W	0.19	
3648.80	1.170	3.230	3648.51	-9.17	15.51	8.64	704309.33	744857.81	33°02'47.310"N	103°48'05.297"W	0.08	
3743.60	1.270	351.610	3743.29	-9.14	17.52	8.54	704309.24	744859.81	33°02'47.330"N	103°48'05.298"W	0.28	
3838.50	1.250	348.870	3838.17	-8.85	19.57	8.18	704308.88	744861.87	33°02'47.350"N	103°48'05.302"W	0.07	
3933.30	1.130	346.070	3932.95	-8.50	21.49	7.76	704308.46	744863.79	33°02'47.369"N	103°48'05.307"W	0.14	
4028.20	0.920	344.350	4027.83	-8.12	23.14	7.33	704308.03	744865.43	33°02'47.385"N	103°48'05.312"W	0.22	
4123.00	0.780	346.910	4122.62	-7.82	24.50	6.98	704307.68	744866.79	33°02'47.399"N	103°48'05.316"W	0.15	
4217.80	0.670	345.130	4217.41	-7.57	25.66	6.69	704307.39	744867.96	33°02'47.410"N	103°48'05.319"W	0.12	



Actual Wellpath Report

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Boxer) Sec 3, T15S, R31E	Wellbore	No.1H AWP
Facility	Boxer 3 Fed Com		

WELLPATH DATA (180 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4312.70	0.570	340.240	4312.31	-7.30	26.64	6.39	704307.09	744868.94	33°02'47.420"N	103°48'05.323"W	0.12	
4407.50	0.560	332.430	4407.10	-6.96	27.50	6.01	704306.71	744869.79	33°02'47.428"N	103°48'05.327"W	0.08	
4502.40	0.600	328.660	4502.00	-6.51	28.33	5.54	704306.24	744870.63	33°02'47.437"N	103°48'05.332"W	0.06	
4597.20	0.610	323.990	4596.79	-5.99	29.16	4.98	704305.68	744871.46	33°02'47.445"N	103°48'05.339"W	0.05	
4692.00	0.580	312.130	4691.59	-5.36	29.89	4.33	704305.03	744872.19	33°02'47.452"N	103°48'05.346"W	0.13	
4786.90	0.570	310.340	4786.48	-4.67	30.52	3.62	704304.32	744872.82	33°02'47.459"N	103°48'05.355"W	0.02	
4881.70	0.570	303.580	4881.28	-3.94	31.09	2.86	704303.56	744873.39	33°02'47.464"N	103°48'05.364"W	0.07	
4976.60	1.170	309.630	4976.17	-2.83	31.97	1.72	704302.42	744874.26	33°02'47.473"N	103°48'05.377"W	0.64	
5071.40	1.250	311.540	5070.94	-1.35	33.27	0.20	704300.90	744875.57	33°02'47.486"N	103°48'05.395"W	0.09	
5166.20	1.350	317.290	5165.72	0.12	34.78	-1.33	704299.37	744877.07	33°02'47.501"N	103°48'05.413"W	0.17	
5261.10	1.720	315.710	5260.59	1.81	36.62	-3.08	704297.62	744878.91	33°02'47.519"N	103°48'05.433"W	0.39	
5355.90	2.060	318.120	5355.33	3.86	38.90	-5.21	704295.49	744881.20	33°02'47.542"N	103°48'05.458"W	0.37	
5450.80	2.820	320.320	5450.15	6.38	41.97	-7.84	704292.86	744884.27	33°02'47.572"N	103°48'05.489"W	0.81	
5545.60	4.060	319.980	5544.78	9.88	46.34	-11.49	704289.21	744888.63	33°02'47.616"N	103°48'05.531"W	1.31	
5640.40	4.960	319.540	5639.28	14.50	52.02	-16.30	704284.40	744894.32	33°02'47.672"N	103°48'05.588"W	0.95	
5735.30	5.770	318.750	5733.76	20.07	58.73	-22.11	704278.59	744901.03	33°02'47.739"N	103°48'05.655"W	0.86	
5830.10	6.540	316.600	5828.02	26.66	66.24	-28.96	704271.74	744908.53	33°02'47.814"N	103°48'05.735"W	0.85	
5924.90	5.740	316.750	5922.27	33.36	73.61	-35.92	704264.78	744915.91	33°02'47.887"N	103°48'05.817"W	0.84	
6019.80	4.490	317.260	6016.79	38.91	79.80	-41.69	704259.01	744922.09	33°02'47.948"N	103°48'05.884"W	1.32	
6114.60	3.600	316.190	6111.36	43.32	84.67	-46.27	704254.43	744926.97	33°02'47.997"N	103°48'05.938"W	0.94	
6209.50	2.750	316.120	6206.11	46.83	88.46	-49.91	704250.79	744930.76	33°02'48.034"N	103°48'05.980"W	0.90	
6304.30	2.250	313.230	6300.82	49.66	91.38	-52.85	704247.86	744933.67	33°02'48.063"N	103°48'06.015"W	0.54	
6399.10	1.770	311.970	6395.56	52.02	93.63	-55.29	704245.41	744935.92	33°02'48.086"N	103°48'06.043"W	0.51	
6494.00	1.470	311.430	6490.42	53.96	95.42	-57.29	704243.41	744937.71	33°02'48.104"N	103°48'06.067"W	0.32	
6588.80	1.520	314.230	6585.19	55.72	97.10	-59.11	704241.60	744939.39	33°02'48.120"N	103°48'06.088"W	0.09	
6683.70	1.700	312.440	6680.05	57.59	98.92	-61.05	704239.66	744941.22	33°02'48.139"N	103°48'06.110"W	0.20	
6778.50	1.480	309.410	6774.82	59.51	100.65	-63.03	704237.67	744942.94	33°02'48.156"N	103°48'06.134"W	0.25	
6873.40	1.310	308.040	6869.69	61.26	102.10	-64.83	704235.87	744944.39	33°02'48.170"N	103°48'06.155"W	0.18	
6968.20	1.050	310.730	6964.47	62.73	103.33	-66.34	704234.36	744945.63	33°02'48.182"N	103°48'06.172"W	0.28	
7063.00	0.880	303.510	7059.25	63.96	104.30	-67.61	704233.10	744946.59	33°02'48.192"N	103°48'06.187"W	0.22	
7157.90	0.660	291.100	7154.15	65.06	104.90	-68.73	704231.98	744947.19	33°02'48.198"N	103°48'06.200"W	0.29	
7252.70	0.520	284.800	7248.94	65.97	105.21	-69.65	704231.05	744947.50	33°02'48.201"N	103°48'06.211"W	0.16	
7347.60	0.340	285.350	7343.84	66.65	105.39	-70.34	704230.37	744947.68	33°02'48.203"N	103°48'06.219"W	0.19	
7442.40	0.140	109.950	7438.64	66.82	105.43	-70.50	704230.20	744947.72	33°02'48.203"N	103°48'06.221"W	0.51	
7537.20	0.370	117.530	7533.44	66.44	105.24	-70.12	704230.58	744947.54	33°02'48.202"N	103°48'06.217"W	0.24	
7632.10	0.680	104.680	7628.33	65.64	104.96	-69.30	704231.40	744947.25	33°02'48.199"N	103°48'06.207"W	0.35	
7726.90	0.870	110.230	7723.12	64.43	104.57	-68.08	704232.62	744946.86	33°02'48.195"N	103°48'06.193"W	0.22	
7821.80	0.770	113.860	7818.01	63.19	104.06	-66.83	704233.88	744946.36	33°02'48.190"N	103°48'06.178"W	0.12	
7916.60	0.740	110.550	7912.81	62.05	103.59	-65.67	704235.03	744945.88	33°02'48.185"N	103°48'06.164"W	0.06	
8011.40	0.780	109.200	8007.60	60.88	103.16	-64.49	704236.22	744945.46	33°02'48.181"N	103°48'06.151"W	0.05	
8106.30	0.690	110.260	8102.49	59.75	102.75	-63.34	704237.36	744945.05	33°02'48.176"N	103°48'06.137"W	0.10	
8201.10	0.760	102.850	8197.28	58.62	102.41	-62.19	704238.51	744944.71	33°02'48.173"N	103°48'06.124"W	0.12	
8296.00	1.030	94.040	8292.17	57.16	102.21	-60.73	704239.98	744944.51	33°02'48.171"N	103°48'06.106"W	0.32	
8465.00	2.900	86.900	8461.06	51.37	102.34	-54.94	704245.76	744944.63	33°02'48.172"N	103°48'06.039"W	1.11	
8496.00	1.500	44.100	8492.04	50.30	102.67	-53.88	704246.83	744944.97	33°02'48.175"N	103°48'06.026"W	6.67	



Actual Wellpath Report

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Boxer) Sec 3, T15S, R31E	Wellbore	No.1H AWP
Facility	Boxer 3 Fed Com		

WELLPATH DATA (180 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8528.00	6.700	308.000	8523.97	51.43	104.12	-55.06	704245.64	744946.42	33°02'48.190"N	103°48'06.040"W	21.93	
8560.00	14.100	291.900	8555.42	56.43	106.73	-60.15	704240.55	744949.02	33°02'48.216"N	103°48'06.099"W	24.63	
8592.00	21.200	292.000	8585.90	65.29	110.36	-69.15	704231.56	744952.65	33°02'48.252"N	103°48'06.205"W	22.19	
8623.00	28.600	286.100	8614.00	77.49	114.52	-81.49	704219.21	744956.81	33°02'48.294"N	103°48'06.350"W	25.15	
8655.00	35.200	279.200	8641.16	93.84	118.12	-97.98	704202.73	744960.42	33°02'48.330"N	103°48'06.543"W	23.53	
8687.00	41.800	273.300	8666.20	113.53	120.22	-117.76	704182.95	744962.51	33°02'48.352"N	103°48'06.775"W	23.58	
8718.00	49.800	270.500	8687.80	135.69	120.92	-139.95	704160.76	744963.21	33°02'48.360"N	103°48'07.036"W	26.60	
8750.00	55.000	272.300	8707.32	160.99	121.55	-165.28	704135.43	744963.84	33°02'48.368"N	103°48'07.334"W	16.85	
8782.00	62.700	270.200	8723.86	188.31	122.13	-192.64	704108.07	744964.42	33°02'48.375"N	103°48'07.655"W	24.71	
8814.00	72.500	269.200	8736.04	217.84	121.96	-222.19	704078.52	744964.25	33°02'48.375"N	103°48'08.002"W	30.76	
8845.00	81.700	270.000	8742.95	248.02	121.75	-252.37	704048.34	744964.05	33°02'48.374"N	103°48'08.357"W	29.78	
8877.00	86.200	270.900	8746.32	279.80	122.01	-284.19	704016.53	744964.30	33°02'48.378"N	103°48'08.730"W	14.34	
8908.00	86.100	271.000	8748.41	310.69	122.52	-315.11	703985.61	744964.81	33°02'48.385"N	103°48'09.094"W	0.46	
8940.00	87.800	270.400	8750.11	342.61	122.91	-347.06	703953.66	744965.20	33°02'48.390"N	103°48'09.469"W	5.63	
8972.00	89.000	269.100	8751.00	374.58	122.77	-379.05	703921.67	744965.06	33°02'48.390"N	103°48'09.845"W	5.53	
9003.00	89.200	269.000	8751.49	405.57	122.25	-410.04	703890.68	744964.55	33°02'48.387"N	103°48'10.209"W	0.72	
9035.00	90.400	269.000	8751.60	437.57	121.70	-442.04	703858.69	744963.99	33°02'48.383"N	103°48'10.585"W	3.75	
9067.00	92.800	268.200	8750.71	469.55	120.92	-474.01	703826.72	744963.21	33°02'48.377"N	103°48'10.960"W	7.91	
9098.00	92.600	267.600	8749.25	500.51	119.78	-504.96	703795.78	744962.07	33°02'48.367"N	103°48'11.324"W	2.04	
9130.00	92.300	267.400	8747.88	532.48	118.39	-536.90	703763.84	744960.68	33°02'48.355"N	103°48'11.699"W	1.13	
9162.00	92.400	267.600	8746.57	564.46	116.99	-568.84	703731.90	744959.28	33°02'48.343"N	103°48'12.075"W	0.70	
9194.00	92.500	267.600	8745.20	596.43	115.65	-600.78	703699.96	744957.95	33°02'48.331"N	103°48'12.450"W	0.31	
9225.00	92.500	267.800	8743.85	627.40	114.41	-631.73	703669.01	744956.70	33°02'48.320"N	103°48'12.814"W	0.64	
9257.00	92.200	267.100	8742.53	659.37	112.99	-663.67	703637.07	744955.28	33°02'48.308"N	103°48'13.189"W	2.38	
9320.00	92.500	267.000	8739.95	722.31	109.75	-726.53	703574.21	744952.04	33°02'48.279"N	103°48'13.928"W	0.50	
9384.00	92.200	265.900	8737.33	786.23	105.79	-790.35	703510.40	744948.08	33°02'48.243"N	103°48'14.678"W	1.78	
9447.00	92.100	265.600	8734.96	849.13	101.12	-853.14	703447.62	744943.42	33°02'48.200"N	103°48'15.415"W	0.50	
9510.00	90.800	265.600	8733.37	912.05	96.29	-915.93	703384.83	744938.58	33°02'48.155"N	103°48'16.153"W	2.06	
9574.00	90.600	265.000	8732.59	975.98	91.05	-979.71	703321.05	744933.34	33°02'48.106"N	103°48'16.903"W	0.99	
9637.00	90.600	264.800	8731.93	1038.88	85.45	-1042.46	703258.31	744927.74	33°02'48.054"N	103°48'17.640"W	0.32	
9700.00	90.300	264.500	8731.43	1101.77	79.57	-1105.18	703195.59	744921.87	33°02'47.999"N	103°48'18.378"W	0.67	
9763.00	90.400	264.200	8731.05	1164.64	73.37	-1167.87	703132.90	744915.67	33°02'47.941"N	103°48'19.114"W	0.50	
9827.00	90.200	263.800	8730.71	1228.48	66.68	-1231.52	703069.26	744908.98	33°02'47.878"N	103°48'19.862"W	0.70	
9890.00	90.000	263.900	8730.60	1291.31	59.93	-1294.16	703006.62	744902.23	33°02'47.814"N	103°48'20.599"W	0.35	
9953.00	91.000	263.800	8730.05	1354.14	53.18	-1356.79	702943.99	744895.48	33°02'47.751"N	103°48'21.335"W	1.60	
10017.00	91.500	264.100	8728.66	1417.97	46.44	-1420.42	702880.37	744888.74	33°02'47.687"N	103°48'22.083"W	0.91	
10080.00	90.700	265.000	8727.45	1480.84	40.46	-1483.12	702817.67	744882.75	33°02'47.631"N	103°48'22.820"W	1.91	
10143.00	90.900	265.300	8726.57	1543.75	35.13	-1545.89	702754.91	744877.43	33°02'47.581"N	103°48'23.557"W	0.57	
10206.00	90.800	265.700	8725.63	1606.69	30.19	-1608.69	702692.11	744872.49	33°02'47.536"N	103°48'24.295"W	0.65	
10269.00	90.700	265.500	8724.81	1669.62	25.36	-1671.50	702629.31	744867.65	33°02'47.491"N	103°48'25.034"W	0.35	
10333.00	90.700	265.400	8724.03	1733.55	20.28	-1735.29	702565.52	744862.58	33°02'47.444"N	103°48'25.783"W	0.16	
10396.00	90.600	265.400	8723.31	1796.48	15.23	-1798.08	702502.73	744857.53	33°02'47.397"N	103°48'26.521"W	0.16	
10459.00	90.400	265.200	8722.76	1859.41	10.06	-1860.87	702439.95	744852.36	33°02'47.349"N	103°48'27.259"W	0.45	
10522.00	90.400	265.200	8722.32	1922.33	4.79	-1923.65	702377.17	744847.09	33°02'47.300"N	103°48'27.997"W	0.00	
10586.00	90.400	265.200	8721.88	1986.25	0.56	-1987.42	702313.40	744841.74	33°02'47.250"N	103°48'28.746"W	0.00	



Actual Wellpath Report

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Boxer) Sec 3, T15S, R31E	Wellbore	No.1H AWP
Facility	Boxer 3 Fed Com		

WELLPATH DATA (180 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DI.S [°/100ft]	Comments
10648.00	90.600	265.200	8721.33	2048.18	-5.75	-2049.20	702251.63	744836.55	33°02'47.202"N	103°48'29.472"W	0.32	
10712.00	90.400	265.000	8720.78	2112.09	-11.22	-2112.97	702187.87	744831.08	33°02'47.151"N	103°48'30.222"W	0.44	
10773.00	91.100	265.800	8719.98	2173.02	-16.11	-2173.76	702127.07	744826.19	33°02'47.105"N	103°48'30.936"W	1.74	
10836.00	90.700	265.500	8718.99	2235.96	-20.89	-2236.57	702064.27	744821.42	33°02'47.061"N	103°48'31.675"W	0.79	
10899.00	90.600	265.500	8718.27	2298.89	-25.83	-2299.38	702001.47	744816.47	33°02'47.016"N	103°48'32.413"W	0.16	
10963.00	90.900	266.900	8717.44	2362.86	-30.07	-2363.23	701937.62	744812.23	33°02'46.977"N	103°48'33.163"W	2.24	
11026.00	91.100	267.200	8716.34	2425.84	-33.31	-2426.13	701874.72	744808.99	33°02'46.948"N	103°48'33.902"W	0.57	
11089.00	90.800	266.900	8715.29	2488.82	-36.55	-2489.04	701811.81	744805.75	33°02'46.919"N	103°48'34.641"W	0.67	
11152.00	90.300	267.000	8714.69	2551.80	-39.91	-2551.95	701748.91	744802.40	33°02'46.889"N	103°48'35.381"W	0.81	
11216.00	90.600	266.700	8714.18	2615.79	-43.42	-2615.85	701685.01	744798.88	33°02'46.857"N	103°48'36.131"W	0.66	
11279.00	90.900	266.100	8713.36	2678.76	-47.38	-2678.72	701622.15	744794.93	33°02'46.821"N	103°48'36.870"W	1.06	
11342.00	91.100	266.300	8712.26	2741.72	-51.55	-2741.57	701559.30	744790.75	33°02'46.783"N	103°48'37.609"W	0.45	
11405.00	91.300	266.800	8710.94	2804.68	-55.34	-2804.44	701496.43	744786.96	33°02'46.748"N	103°48'38.348"W	0.85	
11468.00	91.100	266.800	8709.62	2867.65	-58.86	-2867.33	701433.55	744783.45	33°02'46.717"N	103°48'39.087"W	0.32	
11531.00	90.000	266.200	8709.02	2930.63	-62.70	-2930.21	701370.67	744779.60	33°02'46.682"N	103°48'39.825"W	1.99	
11594.00	89.500	266.100	8709.29	2993.59	-66.93	-2993.07	701307.82	744775.37	33°02'46.643"N	103°48'40.564"W	0.81	
11658.00	89.300	265.900	8709.96	3057.55	-71.40	-3056.91	701243.98	744770.91	33°02'46.602"N	103°48'41.314"W	0.44	
11721.00	90.000	266.400	8710.35	3120.51	-75.63	-3119.76	701181.13	744766.68	33°02'46.563"N	103°48'42.053"W	1.37	
11784.00	90.600	267.000	8710.02	3183.50	-79.25	-3182.66	701118.24	744763.05	33°02'46.530"N	103°48'42.792"W	1.35	
11848.00	90.000	267.400	8709.68	3247.49	-82.38	-3246.58	701054.32	744759.92	33°02'46.503"N	103°48'43.543"W	1.13	
11911.00	91.300	267.600	8708.97	3310.48	-85.13	-3309.52	700991.39	744757.18	33°02'46.479"N	103°48'44.283"W	2.09	
11975.00	91.400	267.600	8707.46	3374.46	-87.81	-3373.44	700927.47	744754.50	33°02'46.455"N	103°48'45.034"W	0.16	
12038.00	91.300	267.700	8705.97	3437.44	-90.39	-3436.37	700864.54	744751.92	33°02'46.433"N	103°48'45.773"W	0.22	
12101.00	91.300	267.600	8704.55	3500.42	-92.97	-3499.30	700801.62	744749.33	33°02'46.410"N	103°48'46.513"W	0.16	
12165.00	91.400	267.600	8703.04	3564.41	-95.65	-3563.23	700737.69	744746.65	33°02'46.387"N	103°48'47.264"W	0.16	
12228.00	91.100	267.400	8701.66	3627.39	-98.40	-3626.15	700674.77	744743.91	33°02'46.363"N	103°48'48.003"W	0.57	
12292.00	90.800	267.400	8700.60	3691.38	-101.30	-3690.08	700610.85	744741.00	33°02'46.337"N	103°48'48.754"W	0.47	
12355.00	91.400	267.900	8699.39	3754.36	-103.89	-3753.01	700547.92	744738.42	33°02'46.315"N	103°48'49.494"W	1.24	
12419.00	91.100	267.400	8698.00	3818.34	-106.51	-3816.94	700483.99	744735.80	33°02'46.292"N	103°48'50.245"W	0.91	
12482.00	91.200	267.700	8696.73	3881.33	-109.20	-3879.87	700421.07	744733.11	33°02'46.268"N	103°48'50.984"W	0.50	
12545.00	91.100	267.700	8695.47	3944.32	-111.73	-3942.81	700358.14	744730.58	33°02'46.246"N	103°48'51.724"W	0.16	
12609.00	91.100	267.400	8694.24	4008.30	-114.46	-4006.74	700294.21	744727.84	33°02'46.222"N	103°48'52.475"W	0.47	
12673.00	91.000	267.700	8693.07	4072.29	-117.20	-4070.67	700230.28	744725.11	33°02'46.199"N	103°48'53.226"W	0.49	
12736.00	90.900	267.700	8692.02	4135.28	-119.73	-4133.61	700167.35	744722.58	33°02'46.177"N	103°48'53.966"W	0.16	
12799.00	90.500	267.300	8691.25	4198.27	-122.48	-4196.55	700104.42	744719.83	33°02'46.152"N	103°48'54.705"W	0.90	
12863.00	91.000	268.200	8690.41	4262.27	-124.99	-4260.49	700040.48	744717.32	33°02'46.131"N	103°48'55.457"W	1.61	
12926.00	90.900	268.600	8689.37	4325.25	-126.75	-4323.46	699977.51	744715.56	33°02'46.116"N	103°48'56.196"W	0.65	
12990.00	90.700	268.500	8688.48	4389.25	-128.37	-4387.43	699913.54	744713.94	33°02'46.103"N	103°48'56.948"W	0.35	
13053.00	90.300	268.300	8687.93	4452.24	-130.13	-4450.40	699850.57	744712.18	33°02'46.089"N	103°48'57.688"W	0.71	
13117.00	91.400	268.600	8686.98	4516.23	-131.86	-4514.37	699786.61	744710.45	33°02'46.075"N	103°48'58.439"W	1.78	
13180.00	91.300	268.500	8685.49	4579.21	-133.45	-4577.33	699723.65	744708.86	33°02'46.062"N	103°48'59.179"W	0.22	
13244.00	91.500	268.400	8683.93	4643.19	-135.18	-4641.29	699659.70	744707.13	33°02'46.048"N	103°48'59.931"W	0.35	
13307.00	91.400	268.200	8682.33	4706.17	-137.05	-4704.24	699596.75	744705.26	33°02'46.033"N	103°49'00.670"W	0.35	
13328.00	91.200	268.200	8681.86	4727.16	-137.71	-4725.23	699575.77	744704.60	33°02'46.027"N	103°49'00.917"W	0.95	
13380.00	91.200	268.200	8680.77	4779.15	-139.34	-4777.19	699523.81	744702.97	33°02'46.014"N	103°49'01.527"W	0.00	Proj to Bit



Actual Wellpath Report

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Boxer) Sec 3, T15S, R31E	Wellbore	No.1H AWB
Facility	Boxer 3 Fed Com		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 1H PBHL		8679.00	-165.61	-4789.90	699511.10	744676.70	33°02'45.755"N	103°49'01.678"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.1H:AWB - Ref Wellpath: No.1H AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8296.00	Generic gyro - northseeking (Standard)	GyroData Gyro <100-8296>	No.1H AWB
8296.00	13380.00	NaviTrak (Standard)	MWD NaviTrak <8465-XXXX>	No.1H AWB

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

CIMAREX ENERGY

Lease: BOXER 3 FED COM Well: 1H, 4 1/2" DRILLPIPE
Location: PATRIOT #4, CHAVES COUNTY, NEW MEXICO

Job Number: MD0112GDM155

Run Date: 25 Jan 2012

Surveyor: Jason Solomon

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Well Plan/Plot
Survey Latitude: 33.046433 deg. N Longitude: 103.801500 deg. W

Azimuth Correction:

Gyro: -0.29000 deg to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Local Horizontal Reference

A Gyrodata Directional Survey

CIMAREX ENERGY
 Lease: BOXER 3 FED COM Well: 1H, 4 1/2" DRILLPIPE
 Location: PATRIOT #4, CHAVES COUNTY, NEW MEXICO
 Job Number: MD0112GDM155

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 TO 8295 FT RATE GYROSCOPIC MULTISHOT DROP RUN INSIDE 4 1/2" DRILLPIPE						
ALL MEASURED DEPTHS AND COORDINATES REFRENCED TO PATRIOT #4 RKB 21 FT						

100.00	0.44	288.26	0.44	100.00	0.4 288.3	0.12 N 0.36 W
200.00	0.51	313.41	0.22	200.00	1.2 297.4	0.55 N 1.05 W
300.00	0.44	303.98	0.10	299.99	2.0 302.2	1.07 N 1.69 W
400.00	0.36	312.12	0.10	399.99	2.7 303.6	1.49 N 2.25 W
500.00	0.41	302.92	0.08	499.99	3.4 304.3	1.90 N 2.78 W
600.00	0.48	290.37	0.12	599.98	4.1 302.8	2.24 N 3.47 W
708.80	0.14	272.19	0.32	708.78	4.7 300.8	2.40 N 4.03 W
803.60	0.14	223.81	0.12	803.58	4.8 298.8	2.32 N 4.23 W
898.40	0.09	259.23	0.09	898.38	4.9 296.9	2.22 N 4.38 W
993.30	0.15	216.48	0.11	993.28	5.0 295.0	2.11 N 4.53 W
1088.10	0.25	220.46	0.11	1088.08	5.1 291.4	1.85 N 4.74 W
1183.00	0.37	222.11	0.13	1182.98	5.3 286.1	1.47 N 5.08 W
1277.80	0.52	226.09	0.16	1277.78	5.7 279.6	0.94 N 5.59 W
1372.60	0.54	226.15	0.02	1372.57	6.2 273.1	0.34 N 6.22 W
1467.50	0.55	242.61	0.16	1467.47	7.0 268.5	0.18 S 6.95 W
1562.30	0.34	242.41	0.22	1562.27	7.6 266.1	0.52 S 7.60 W
1657.20	0.57	246.16	0.24	1657.16	8.3 264.2	0.84 S 8.29 W
1752.00	0.56	240.92	0.06	1751.96	9.2 262.1	1.26 S 9.12 W
1846.80	0.14	234.83	0.44	1846.76	9.7 260.8	1.55 S 9.62 W
1941.70	0.59	81.94	0.76	1941.66	9.4 260.5	1.55 S 9.23 W

A Gyrodata Directional Survey

CIMAREX ENERGY
Lease: BOXER 3 FED COM Well: 1H, 4 1/2" DRILLPIPE
Location: PATRIOT #4, CHAVES COUNTY, NEW MEXICO
Job Number: MD0112GDM155

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2036.50	1.23	81.11	0.68	2036.44	7.9 260.3	1.32 S 7.74 W
2131.30	1.25	80.98	0.02	2131.22	5.8 260.0	1.01 S 5.72 W
2226.20	1.23	81.39	0.02	2226.10	3.8 259.4	0.69 S 3.69 W
2321.00	0.96	68.90	0.38	2320.88	2.0 262.6	0.25 S 1.94 W
2415.90	1.07	65.18	0.14	2415.77	0.6 315.8	0.41 N 0.39 W
2510.70	1.04	63.09	0.05	2510.55	1.7 45.2	1.17 N 1.18 E
2605.60	0.88	59.01	0.18	2605.44	3.2 53.1	1.93 N 2.57 E
2700.40	0.81	50.64	0.15	2700.23	4.6 53.6	2.73 N 3.71 E
2795.20	0.84	55.40	0.08	2795.02	6.0 53.5	3.55 N 4.80 E
2890.10	0.83	48.70	0.10	2889.91	7.4 53.2	4.40 N 5.89 E
2984.90	0.76	40.10	0.15	2984.70	8.7 51.9	5.33 N 6.81 E
3079.80	0.80	34.78	0.09	3079.59	9.9 50.1	6.36 N 7.59 E
3174.60	0.83	20.35	0.22	3174.38	11.2 47.4	7.55 N 8.21 E
3269.40	0.82	9.65	0.16	3269.17	12.3 44.0	8.86 N 8.56 E
3364.30	0.91	359.11	0.19	3364.06	13.4 40.1	10.28 N 8.67 E
3459.10	0.97	357.99	0.07	3458.85	14.6 36.1	11.84 N 8.63 E
3553.90	1.15	359.51	0.19	3553.63	16.1 32.3	13.59 N 8.59 E
3648.80	1.17	323	0.08	3648.51	17.8 29.1	15.51 N 8.64 E
3743.60	1.27	351.61	0.28	3743.29	19.5 26.0	17.52 N 8.54 E
3838.50	1.25	348.87	0.07	3838.17	21.2 22.7	19.57 N 8.18 E
3933.30	1.13	346.07	0.14	3932.95	22.9 19.8	21.49 N 7.76 E
4028.20	0.92	344.35	0.22	4027.83	24.3 17.6	23.14 N 7.33 E
4123.00	0.78	346.91	0.15	4122.62	25.5 15.9	24.50 N 6.98 E
4217.80	0.67	345.13	0.12	4217.41	26.5 14.6	25.66 N 6.69 E
4312.70	0.57	340.24	0.12	4312.31	27.4 13.5	26.64 N 6.39 E

A Gyrodata Directional Survey

CIMAREX ENERGY

Lease: BOXER 3 FED COM Well: 1H, 4 1/2" DRILLPIPE

Location: PATRIOT #4, CHAVES COUNTY, NEW MEXICO

Job Number: MD0112GDM155

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4407.50	0.56	332.43	0.08	4407.10	28.1 12.3	27.50 N 6.01 E
4502.40	0.60	328.66	0.06	4502.00	28.9 11.1	28.33 N 5.54 E
4597.20	0.61	323.99	0.05	4596.79	29.6 9.7	29.16 N 4.98 E
4692.00	0.58	312.13	0.13	4691.59	30.2 8.2	29.89 N 4.33 E
4786.90	0.57	310.34	0.02	4786.48	30.7 6.8	30.52 N 3.62 E
4881.70	0.57	303.58	0.07	4881.28	31.2 5.3	31.09 N 2.86 E
4976.60	1.17	309.63	0.64	4976.17	32.0 3.1	31.97 N 1.72 E
5071.40	1.25	311.54	0.09	5070.94	33.3 0.4	33.27 N 0.20 E
5166.20	1.35	317.29	0.17	5165.72	34.8 357.8	34.78 N 1.33 W
5261.10	1.72	315.71	0.39	5260.59	36.7 355.2	36.62 N 3.08 W
5355.90	2.06	318.12	0.37	5355.33	39.3 352.4	38.90 N 5.21 W
5450.80	2.82	320.32	0.81	5450.15	42.7 349.4	41.97 N 7.84 W
5545.60	4.06	319.98	1.31	5544.77	47.7 346.1	46.34 N 11.49 W
5640.40	4.96	319.54	0.95	5639.28	54.5 342.6	52.02 N 16.30 W
5735.30	5.77	318.75	0.86	5733.76	62.8 339.4	58.73 N 22.11 W
5830.10	6.54	316.60	0.85	5828.02	72.3 336.4	66.24 N 28.96 W
5924.90	5.74	316.75	0.84	5922.27	81.9 334.0	73.61 N 35.92 W
6019.80	4.49	317.26	1.32	6016.79	90.0 332.4	79.80 N 41.69 W
6114.60	3.60	316.19	0.94	6111.36	96.5 331.3	84.67 N 46.27 W
6209.50	2.75	316.12	0.90	6206.11	101.6 330.6	88.46 N 49.91 W
6304.30	2.25	313.23	0.54	6300.82	105.6 330.0	91.38 N 52.85 W
6399.10	1.77	311.97	0.51	6395.56	108.7 329.4	93.63 N 55.29 W
6494.00	1.47	311.43	0.32	6490.42	111.3 329.0	95.42 N 57.29 W
6588.80	1.52	314.23	0.09	6585.19	113.7 328.7	97.10 N 59.11 W
6683.70	1.70	312.44	0.20	6680.05	116.2 328.3	98.92 N 61.05 W

A Gyrodata Directional Survey

CIMAREX ENERGY

Lease: BOXER 3 FED COM Well: 1H, 4 1/2" DRILLPIPE

Location: PATRIOT #4, CHAVES COUNTY, NEW MEXICO

Job Number: MD0112GDM155

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
6778.50	1.48	309.41	0.25	6774.82	118.8 327.9	100.65 N 63.03 W
6873.40	1.31	308.04	0.18	6869.69	120.9 327.6	102.10 N 64.83 W
6968.20	1.05	310.73	0.28	6964.47	122.8 327.3	103.33 N 66.34 W
7063.00	0.88	303.51	0.22	7059.25	124.3 327.0	104.30 N 67.61 W
7157.90	0.66	291.10	0.29	7154.15	125.4 326.8	104.90 N 68.73 W
7252.70	0.52	284.80	0.16	7248.94	126.2 326.5	105.21 N 69.65 W
7347.60	0.34	285.35	0.19	7343.84	126.7 326.3	105.39 N 70.34 W
7442.40	0.14	109.95	0.51	7438.64	126.8 326.2	105.43 N 70.50 W
7537.20	0.37	117.53	0.24	7533.44	126.5 326.3	105.24 N 70.12 W
7632.10	0.68	104.68	0.35	7628.33	125.8 326.6	104.96 N 69.30 W
7726.90	0.87	110.23	0.22	7723.12	124.8 326.9	104.57 N 68.08 W
7821.80	0.77	113.86	0.12	7818.01	123.7 327.3	104.06 N 66.83 W
7916.60	0.74	110.55	0.06	7912.81	122.7 327.6	103.59 N 65.67 W
8011.40	0.78	109.20	0.05	8007.60	121.7 328.0	103.16 N 64.49 W
8106.30	0.69	110.26	0.10	8102.49	120.7 328.3	102.75 N 63.34 W
8201.10	0.76	102.85	0.12	8197.28	119.8 328.7	102.41 N 62.19 W
8296.00	1.03	94.04	0.32	8292.17	118.9 329.3	102.21 N 60.73 W

Final Station Closure: Distance: 118.89 ft Az: 329.28 deg.