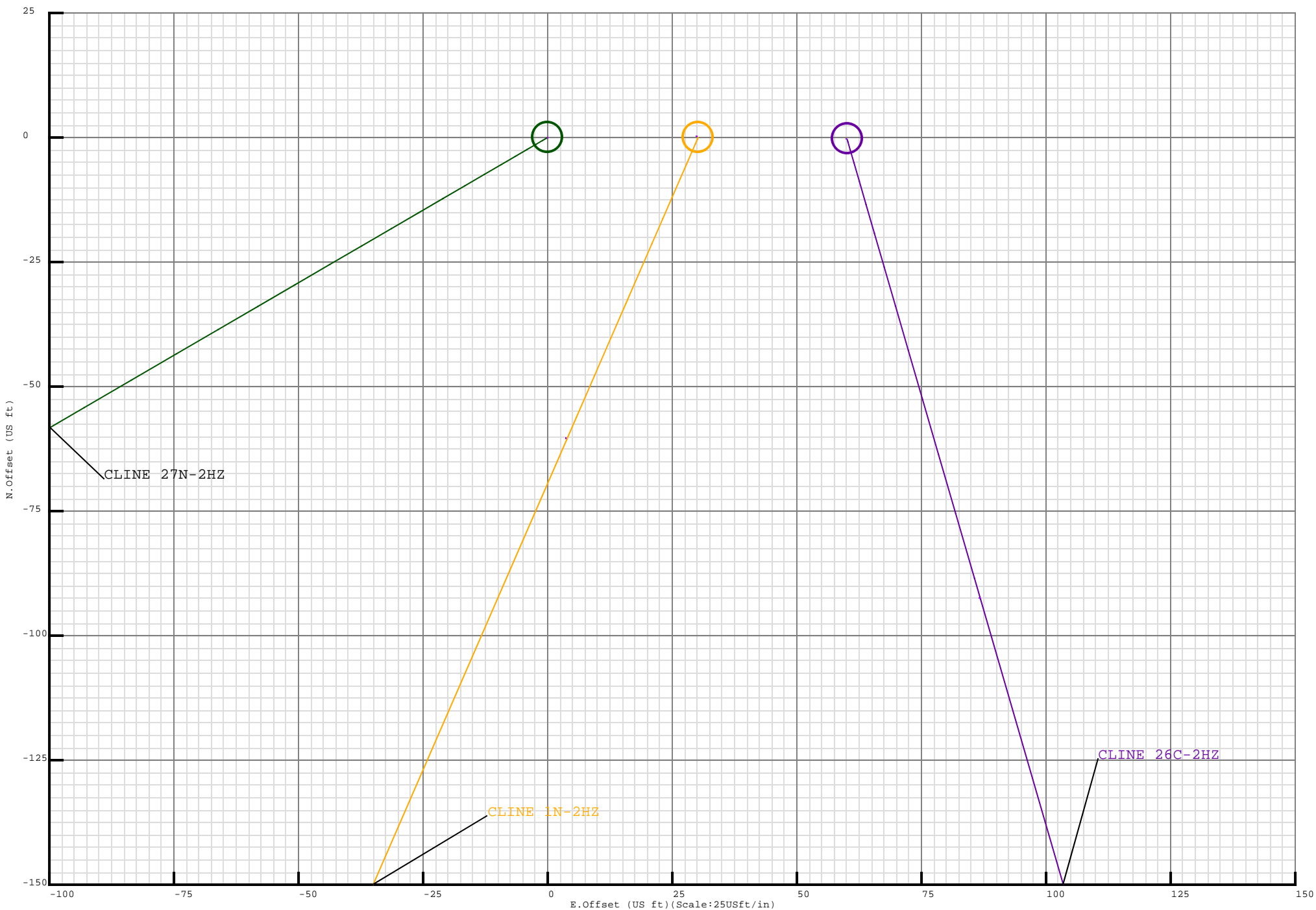


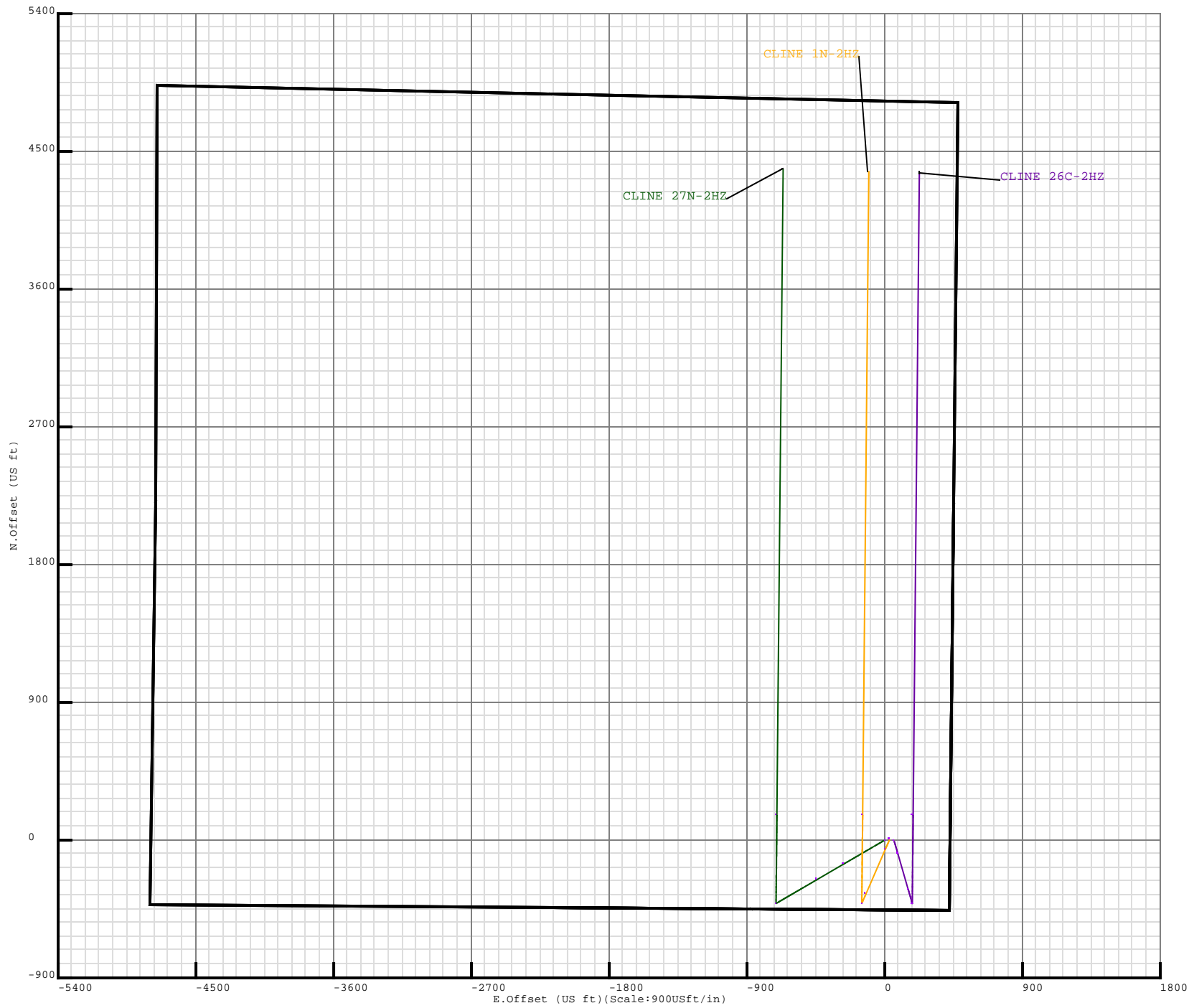
5D Plan Report**ANADARKO**

Field Name: *WATTENBERG_ANADARKO_NAD83*
Site Name: *CLINE PAD*
Well Name: *CLINE 27N-2HZ*
Plan: *WP01 - PERMIT*

04 June 2013







SPIDER PLOT - EXPANDED VIEW
CLINE PAD

CLINE 27N-2HZ

Field Name WATTENBERG_ANADAR KO_NAD83	Map Units : US ft Vertical Reference Datum (VRD) : Mean Sea Level Projected Coordinate System : NAD83 / Colorado North (ftUS) Comment :	Company Name : ANADARKO
Site Name CLINE PAD	Units : US ft North Reference : True Convergence Angle : 0.42 Position Northing : 1302164.62 US ft Easting : 3181675.55 US ft Latitude : 40.161009 Longitude : -104.849974 Elevation above Mean Sea Level: 4853.00 US ft Comment :	
Slot Name CLINE 27N-2HZ	Position (Offsets relative to Site Centre) +N / -S : -0.00 US ft Northing : 1302164.62 US ft Latitude : 40.161009 +E / -W : -0.00 US ft Easting : 3181675.55 US ft Longitude : -104.849974 Slot TVD Reference : Ground Elevation Elevation above Mean Sea Level : 4853.00 US ft Comment :	
Well Name CLINE 27N-2HZ	Type : Main well Rig Height <i>Drill Floor</i> : 17.00 US ft Relative to Mean Sea Level: 4870.00 US ft Closure Distance : 4429.77 US ft Vertical Section (Position of Origin Relative to Slot) +N / -S : 0.00 US ft Magnetic Parameters Model : BGGM Field Strength : 52762.9nT	UWI : Comment : Closure Azimuth : 351.383° +E / -W : 0.00 US ft Az : 0.55° Dec : 8.65° Dip : 66.77° Date : 04/Jun/2013

Plan Archive					
Plan Folder	Date	Comment	Plans		
P1	04/Jun/2013		Plan WP01 - PERMIT	Date 04/Jun/2013	Comment

Target Set

Name : 1 **Number of Targets :** 1

5D Plan Report

Target Set

Comment :

TargetName: PBHL	Position (Relative to Slot centre)		
	+N / -S : 4379.77US ft	Northing : 1306539.40 US ft	Latitude : 40°10'22.915200"
Shape: Cuboid	+E / -W : -663.67 US ft	Easting : 3180979.79US ft	Longitude : -104°51'8.456400"
	TVD (Drill Floor) : 7161.00 US ft		
Orientation	Azimuth : 0.00°	Inclination : 0.00°	
Dimensions	Length : 1.00 US ft	Breadth : 1.00 US ft	Height : 1.00 US ft

Casing Points (Relative to Slot centre, TVD relative to Drill Floor)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)
9 5/8 in	4060.00	0.00	0.00	4060.00	0.00	0.00
7 in	7671.98	90.08	0.55	7167.00	159.74	-704.46

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00
3887.00	0.00	0.00	3887.00	0.00	0.00	0.00
4010.00	0.00	0.00	4010.00	0.00	0.00	0.00
4060.00	0.00	0.00	4060.00	0.00	0.00	0.00
4150.00	0.00	0.00	4150.00	0.00	0.00	0.00
4241.03	2.64	239.75	4241.00	-1.06	-1.81	2.90
5264.66	32.33	239.75	5206.47	-154.23	-264.50	2.90
5656.50	32.33	239.75	5537.57	-259.77	-445.50	0.00
6771.16	0.00	0.00	6594.04	-414.00	-710.01	2.90
7260.47	48.93	0.55	7026.00	-217.47	-708.11	10.00
7413.43	64.23	0.55	7110.00	-90.19	-706.88	10.00
7466.98	69.58	0.55	7131.00	-40.95	-706.40	10.00
7671.98	90.08	0.55	7167.00	159.74	-704.46	10.00
11892.20	90.08	0.55	7161.00	4379.77	-663.67	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	Comment	
0.00	0.00	0.00	0.00	0.00	0.00	0.00		
98.43	0.00	0.00	98.43	0.00	0.00	0.00		
196.85	0.00	0.00	196.85	0.00	0.00	0.00		
295.28	0.00	0.00	295.28	0.00	0.00	0.00		
393.70	0.00	0.00	393.70	0.00	0.00	0.00		
492.13	0.00	0.00	492.13	0.00	0.00	0.00		
590.55	0.00	0.00	590.55	0.00	0.00	0.00		
688.98	0.00	0.00	688.98	0.00	0.00	0.00		
787.40	0.00	0.00	787.40	0.00	0.00	0.00		
885.83	0.00	0.00	885.83	0.00	0.00	0.00		
984.25	0.00	0.00	984.25	0.00	0.00	0.00		
1082.68	0.00	0.00	1082.68	0.00	0.00	0.00		
1181.10	0.00	0.00	1181.10	0.00	0.00	0.00		
1279.53	0.00	0.00	1279.53	0.00	0.00	0.00		
1377.95	0.00	0.00	1377.95	0.00	0.00	0.00		
1476.38	0.00	0.00	1476.38	0.00	0.00	0.00		
1574.80	0.00	0.00	1574.80	0.00	0.00	0.00		
1673.23	0.00	0.00	1673.23	0.00	0.00	0.00		
1771.65	0.00	0.00	1771.65	0.00	0.00	0.00		
1870.08	0.00	0.00	1870.08	0.00	0.00	0.00		
1968.50	0.00	0.00	1968.50	0.00	0.00	0.00		
2066.93	0.00	0.00	2066.93	0.00	0.00	0.00		
2165.35	0.00	0.00	2165.35	0.00	0.00	0.00		
2263.78	0.00	0.00	2263.78	0.00	0.00	0.00		
2362.20	0.00	0.00	2362.20	0.00	0.00	0.00		
2460.63	0.00	0.00	2460.63	0.00	0.00	0.00		
2559.05	0.00	0.00	2559.05	0.00	0.00	0.00		
2657.48	0.00	0.00	2657.48	0.00	0.00	0.00		
2755.90	0.00	0.00	2755.90	0.00	0.00	0.00		
2854.33	0.00	0.00	2854.33	0.00	0.00	0.00		
2952.75	0.00	0.00	2952.75	0.00	0.00	0.00		
3051.18	0.00	0.00	3051.18	0.00	0.00	0.00		
3149.60	0.00	0.00	3149.60	0.00	0.00	0.00		
3248.03	0.00	0.00	3248.03	0.00	0.00	0.00		
3346.45	0.00	0.00	3346.45	0.00	0.00	0.00		
3444.88	0.00	0.00	3444.88	0.00	0.00	0.00		
3543.30	0.00	0.00	3543.30	0.00	0.00	0.00		
3641.73	0.00	0.00	3641.73	0.00	0.00	0.00		
3740.15	0.00	0.00	3740.15	0.00	0.00	0.00		
3838.58	0.00	0.00	3838.58	0.00	0.00	0.00		
3937.00	0.00	0.00	3937.00	0.00	0.00	0.00		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	Comment	
4035.43	0.00	0.00	4035.43	0.00	0.00	0.00		
4133.85	0.00	0.00	4133.85	0.00	0.00	0.00		
4150.00	0.00	0.00	4150.00	0.00	0.00	0.00		
4232.28	2.39	239.75	4232.25	-0.86	-1.48	2.90		
4330.70	5.24	239.75	4330.45	-4.16	-7.13	2.90		
4429.13	8.09	239.75	4428.20	-9.92	-17.00	2.90		
4527.55	10.95	239.75	4525.26	-18.12	-31.07	2.90		
4625.98	13.80	239.75	4621.38	-28.74	-49.29	2.90		
4724.40	16.66	239.75	4716.34	-41.76	-71.62	2.90		
4822.83	19.51	239.75	4809.90	-57.15	-98.02	2.90		
4921.25	22.37	239.75	4901.81	-74.87	-128.40	2.90		
5019.68	25.22	239.75	4991.86	-94.87	-162.70	2.90		
5118.10	28.07	239.75	5079.82	-117.10	-200.83	2.90		
5216.53	30.93	239.75	5165.48	-141.52	-242.70	2.90		
5264.66	32.33	239.75	5206.47	-154.23	-264.50	2.90		
5314.95	32.33	239.75	5248.96	-167.78	-287.73	0.00		
5413.38	32.33	239.75	5332.13	-194.29	-333.20	0.00		
5511.80	32.33	239.75	5415.30	-220.80	-378.66	0.00		
5610.23	32.33	239.75	5498.47	-247.31	-424.13	0.00		
5656.50	32.33	239.75	5537.57	-259.77	-445.50	0.00		
5708.65	30.81	239.75	5582.01	-273.52	-469.09	2.90		
5807.08	27.96	239.75	5667.76	-297.85	-510.81	2.90		
5905.50	25.10	239.75	5755.81	-319.99	-548.78	2.90		
6003.93	22.25	239.75	5845.94	-339.90	-582.92	2.90		
6102.35	19.40	239.75	5937.93	-357.52	-613.14	2.90		
6200.78	16.54	239.75	6031.54	-372.82	-639.37	2.90		
6299.20	13.69	239.75	6126.55	-385.74	-661.54	2.90		
6397.63	10.83	239.75	6222.72	-396.27	-679.59	2.90		
6496.05	7.98	239.75	6319.82	-404.37	-693.49	2.90		
6594.48	5.12	239.75	6417.59	-410.03	-703.19	2.90		
6692.90	2.27	239.75	6515.80	-413.22	-708.67	2.90		
6771.16	0.00	0.00	6594.04	-414.00	-710.01	2.90	KOP	
6791.33	2.02	0.55	6614.20	-413.65	-710.00	10.00		
6889.75	11.86	0.55	6711.78	-401.78	-709.89	10.00		
6988.18	21.70	0.55	6805.90	-373.40	-709.61	10.00		
7086.60	31.54	0.55	6893.78	-329.35	-709.19	10.00		
7185.03	41.39	0.55	6972.84	-270.93	-708.62	10.00		
7283.45	51.23	0.55	7040.75	-199.85	-707.94	10.00		
7381.88	61.07	0.55	7095.51	-118.21	-707.15	10.00		
7480.30	70.91	0.55	7135.50	-28.42	-706.28	10.00		
7578.73	80.76	0.55	7159.56	66.89	-705.36	10.00		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	Comment	
7671.98	90.08	0.55	7167.00	159.74	-704.46	10.00	LAND BUILD SECTION	
7677.15	90.08	0.55	7166.99	164.91	-704.41	0.00		
7775.58	90.08	0.55	7166.85	263.34	-703.46	0.00		
7874.00	90.08	0.55	7166.71	361.76	-702.51	0.00		
7972.43	90.08	0.55	7166.57	460.18	-701.56	0.00		
8070.85	90.08	0.55	7166.43	558.60	-700.61	0.00		
8169.28	90.08	0.55	7166.29	657.02	-699.65	0.00		
8267.70	90.08	0.55	7166.15	755.44	-698.70	0.00		
8366.13	90.08	0.55	7166.01	853.86	-697.75	0.00		
8464.55	90.08	0.55	7165.87	952.28	-696.80	0.00		
8562.98	90.08	0.55	7165.73	1050.70	-695.85	0.00		
8661.40	90.08	0.55	7165.59	1149.12	-694.90	0.00		
8759.83	90.08	0.55	7165.45	1247.54	-693.95	0.00		
8858.25	90.08	0.55	7165.31	1345.96	-693.00	0.00		
8956.68	90.08	0.55	7165.17	1444.38	-692.04	0.00		
9055.10	90.08	0.55	7165.03	1542.80	-691.09	0.00		
9153.53	90.08	0.55	7164.89	1641.22	-690.14	0.00		
9251.95	90.08	0.55	7164.75	1739.64	-689.19	0.00		
9350.38	90.08	0.55	7164.61	1838.06	-688.24	0.00		
9448.80	90.08	0.55	7164.47	1936.48	-687.29	0.00		
9547.23	90.08	0.55	7164.33	2034.90	-686.34	0.00		
9645.65	90.08	0.55	7164.19	2133.32	-685.39	0.00		
9744.08	90.08	0.55	7164.05	2231.74	-684.43	0.00		
9842.50	90.08	0.55	7163.91	2330.16	-683.48	0.00		
9940.93	90.08	0.55	7163.77	2428.58	-682.53	0.00		
10039.35	90.08	0.55	7163.63	2527.00	-681.58	0.00		
10137.78	90.08	0.55	7163.49	2625.42	-680.63	0.00		
10236.20	90.08	0.55	7163.35	2723.84	-679.68	0.00		
10334.63	90.08	0.55	7163.21	2822.26	-678.73	0.00		
10433.05	90.08	0.55	7163.07	2920.68	-677.78	0.00		
10531.48	90.08	0.55	7162.93	3019.10	-676.82	0.00		
10629.90	90.08	0.55	7162.79	3117.52	-675.87	0.00		
10728.33	90.08	0.55	7162.65	3215.94	-674.92	0.00		
10826.75	90.08	0.55	7162.51	3314.36	-673.97	0.00		
10925.18	90.08	0.55	7162.37	3412.78	-673.02	0.00		
11023.60	90.08	0.55	7162.23	3511.21	-672.07	0.00		
11122.03	90.08	0.55	7162.09	3609.63	-671.12	0.00		
11220.45	90.08	0.55	7161.95	3708.05	-670.17	0.00		
11318.88	90.08	0.55	7161.81	3806.47	-669.22	0.00		
11417.30	90.08	0.55	7161.67	3904.89	-668.26	0.00		
11515.73	90.08	0.55	7161.54	4003.31	-667.31	0.00		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)							
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	Comment
11614.15	90.08	0.55	7161.40	4101.73	-666.36	0.00	
11712.58	90.08	0.55	7161.26	4200.15	-665.41	0.00	
11811.00	90.08	0.55	7161.12	4298.57	-664.46	0.00	
11892.20	90.08	0.55	7161.00	4379.77	-663.67	0.00	TD

Formation Points (Relative to Slot centre, TVD relative to Drill Floor)									
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	F.Dip (°)	F.Dir (°)	
NIOBRARA C	N/A	N/A	N/A	7217.00	N/A	N/A	0	0	
FORT HAYS	N/A	N/A	N/A	7350.00	N/A	N/A	0	0	
PARKMAN	3887.00	0.00	0.00	3887.00	0.00	0.00	0	0	
FOX HILLS BASE	4010.00	0.00	0.00	4010.00	0.00	0.00	0	0	
SUSSEX	4241.03	2.64	239.75	4241.00	-1.06	-1.81	0	0	
SHARON SPRINGS	7260.47	48.93	0.55	7026.00	-217.47	-708.11	0	0	
NIOBRARA A	7413.43	64.23	0.55	7110.00	-90.19	-706.88	0	0	
NIOBRARA B	7466.98	69.58	0.55	7131.00	-40.95	-706.40	0	0	