

**5D Plan Report****Anadarko Petroleum**

Field Name: *WATTENBERG_ANADARKO_NAD 83*
Site Name: *NRC 3C-4HZ PAD*
Well Name: *NRC 28N-4HZ*
Plan: *WP01 PERMIT*



Plan Data for NRC 28N-4HZ

Field: WATTENBERG_ANADARKO_NAD 83

Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / Colorado North (ftUS)

Slot: NRC 28N-4HZ

Position:

Offset is from Site centre

+N/-S: -0.00USft Northing: 1264994.25USft Latitude: 40.059228°
+E/-W: 89.85USft Easting: 3168529.05USft Longitude: -104.897913°
Elevation Above VRD: 5051.00USft

Plan Point Information:

Dogleg Severity Unit: °/100.00ft		Position offsets from Slot centre							
MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0R
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.0R
1644.76	8.90	124.25	1642.97	-19.39	28.48	-19.50	2.00	124.2R	
6501.26	8.90	124.25	6441.07	-441.97	649.24	-444.57	0.00	0.0R	
6946.02	0.00	0.00	6884.04	-461.36	677.72	-464.08	2.00	180.0R	
7844.78	89.88	359.77	7457.00	110.36	675.47	107.65	10.00	0.2L	
17591.87	89.88	359.77	7478.00	9857.34	637.07	9854.71	0.00	0.0R	

Plan Data for NRC 28N-4HZ

Target Set Information:

Name	TVD (USft)	Lat (°)	Long (°)	Shape
HEEL	7457.00	40.059531	-104.895500	Cuboid
PBHL	7478.00	40.086288	-104.895636	Cuboid

Plan Data for NRC 28N-4HZ

Casing Point Information:

Name	MD (USft)	TVD (USft)
9 5/8 in	677.00	677.00
7 in	7844.78	7457.00

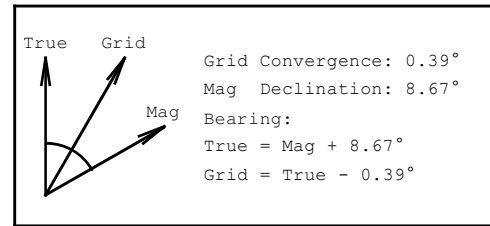
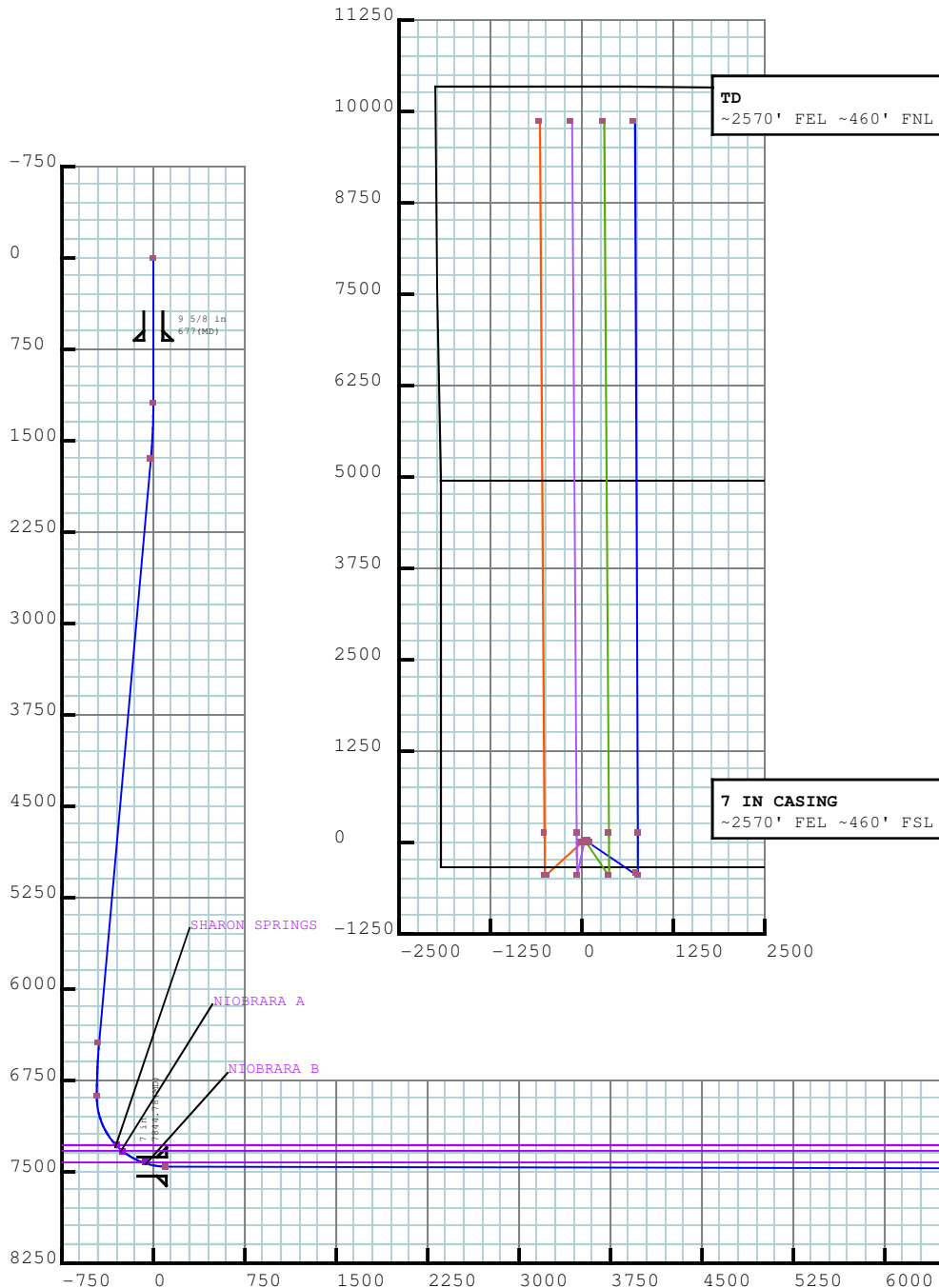
Plan Data for NRC 28N-4HZ

Formation Point Information:

Name	TVD (USft)	Elevation (USft)	MD (USft)
FOX HILLS	627.00	4441.00	627.00
SUSSEX	4707.00	361.00	4746.08
SHARON SPRINGS	7294.00	-2226.00	7402.87
NIOBRARA A	7335.00	-2267.00	7465.15
NIOBRARA B	7435.00	-2367.00	7686.74

KOP- 6946.02' MD

LINER TOP- 6846.02' MD





Weatherford®



Plan Surveys for the NRC 28N-4HZ

Site Name NRC 3C-4HZ PAD	Units : US ft	North Reference : True	Convergence Angle : 0.39	
	Position	Northing : 1264993.64 US ft	Latitude : 40.059228	
		Easting : 3168439.20 US ft	Longitude : -104.898234	
	Elevation above: 5051.00 US ft			
	Comment :			
Slot Name NRC 28N-4HZ	Position (Offsets relative to Site Centre)			
	+N / -S : -0.00 US ft	Northing : 1264994.25 US ft	Latitude : 40.059228	
	+E / -W : 89.85 US ft	Easting : 3168529.05 US ft	Longitude : -104.897913	
	Slot TVD Reference : Ground Elevation			
	Elevation above : 5051.00 US ft			
	Comment :			
Well Name NRC 28N-4HZ	Type : Main well	UWI :	Plan : WP01 PERMIT	
	Rig Height <i>Drill Floor</i> : 17.00 US ft	Comment :		
	Relative to : 5068.00 US ft			
	Closure Distance : 9877.91 US ft	Closure Azimuth : 3.69783°		
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 359.77°	
	Magnetic Parameters			
	Model : BGGM	Field Strength : 52684.0nT	Dec : 8.67°	Dip : 66.64°
				Date : 22/May/2013

Target Set

Name : 16

Number of Targets : 2

Comment :

TargetName:	Position (Relative to centre)			
HEEL	+N / -S : 110.39US ft	Northing : 1265109.22 US ft	Latitude : 40°3'34.311600"	
Shape:	+E / -W : 675.42 US ft	Easting : 3169203.71US ft	Longitude : -104°53'43.800000"	
Cuboid	TVD (Drill Floor) : 7457.00 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	
TargetName:	Position (Relative to centre)			
PBHL	+N / -S : 9857.34US ft	Northing : 1274855.69 US ft	Latitude : 40°5'10.636800"	
Shape:	+E / -W : 637.07 US ft	Easting : 3169099.21US ft	Longitude : -104°53'44.289600"	
Cuboid	TVD (Drill Floor) : 7478.00 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 centre, TVD relative to Drill Floor)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (°)	Longitude (°)
9 5/8 in	677.00	0.00	0.00	677.00	0.00	0.00	40.059228	-104.897913
7 in	7844.78	89.88	359.77	7457.00	110.36	675.47	40.059531	-104.895500

Well path created using minimum curvature

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

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	1264994.25	3168529.05	0.00	0.00	0.00	SURFACE
677.00	0.00	0.00	677.00	0.00	0.00	1264994.25	3168529.05	0.00	0.00	0.00	9 5/8 in
1200.00	0.00	0.00	1200.00	0.00	0.00	1264994.25	3168529.05	0.00	0.00	0.00	BEGIN NUDGE
1644.76	8.90	124.25	1642.97	-19.39	28.48	1264975.05	3168557.66	2.00	124.25	-19.50	
6501.26	8.90	124.25	6441.07	-441.97	649.24	1264556.69	3169181.27	0.00	0.00	-444.57	

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Salient Points (Relative to centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
6946.02	0.00	0.00	6884.04	-461.36	677.72	1264537.50	3169209.89	2.00	180.00	-464.08	KOP
7844.78	89.88	359.77	7457.00	110.36	675.47	1265109.19	3169203.75	10.00	359.77	107.65	7 in
17591.87	89.88	359.77	7478.00	9857.34	637.07	1274855.69	3169099.21	0.00	0.00	9854.71	TD

Interpolated Points (Relative to 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)	T.Face (°)	VS (US ft)	Comment		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SURFACE		
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00			
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00			
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00			
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00			
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00			
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00			
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00			
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	BEGIN NUDGE		
1300.00	2.00	124.25	1299.98	-0.98	1.44	2.00	124.25	-0.99			
1400.00	4.00	124.25	1399.84	-3.93	5.77	2.00	0.00	-3.95			
1500.00	6.00	124.25	1499.45	-8.83	12.97	2.00	0.00	-8.88			
1600.00	8.00	124.25	1598.70	-15.69	23.05	2.00	0.00	-15.78			
1644.76	8.90	124.25	1642.97	-19.39	28.48	2.00	0.00	-19.50			
1700.00	8.90	124.25	1697.55	-24.20	35.54	0.00	0.00	-24.34			
1800.00	8.90	124.25	1796.35	-32.90	48.32	0.00	0.00	-33.09			
1900.00	8.90	124.25	1895.15	-41.60	61.11	0.00	0.00	-41.84			
2000.00	8.90	124.25	1993.94	-50.30	73.89	0.00	0.00	-50.60			
2100.00	8.90	124.25	2092.74	-59.00	86.67	0.00	0.00	-59.35			
2200.00	8.90	124.25	2191.54	-67.70	99.45	0.00	0.00	-68.10			
2300.00	8.90	124.25	2290.33	-76.40	112.23	0.00	0.00	-76.85			
2400.00	8.90	124.25	2389.13	-85.11	125.02	0.00	0.00	-85.61			
2500.00	8.90	124.25	2487.93	-93.81	137.80	0.00	0.00	-94.36			
2600.00	8.90	124.25	2586.73	-102.51	150.58	0.00	0.00	-103.11			
2700.00	8.90	124.25	2685.52	-111.21	163.36	0.00	0.00	-111.86			
2800.00	8.90	124.25	2784.32	-119.91	176.14	0.00	0.00	-120.62			
2900.00	8.90	124.25	2883.12	-128.61	188.93	0.00	0.00	-129.37			
3000.00	8.90	124.25	2981.92	-137.31	201.71	0.00	0.00	-138.12			
3100.00	8.90	124.25	3080.71	-146.01	214.49	0.00	0.00	-146.87			
3200.00	8.90	124.25	3179.51	-154.72	227.27	0.00	0.00	-155.63			
3300.00	8.90	124.25	3278.31	-163.42	240.05	0.00	0.00	-164.38			

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Interpolated Points (Relative to 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)	T.Face (°)	VS (US ft)	Comment	
3400.00	8.90	124.25	3377.11	-172.12	252.84	0.00	0.00	-173.13		
3500.00	8.90	124.25	3475.90	-180.82	265.62	0.00	0.00	-181.89		
3600.00	8.90	124.25	3574.70	-189.52	278.40	0.00	0.00	-190.64		
3700.00	8.90	124.25	3673.50	-198.22	291.18	0.00	0.00	-199.39		
3800.00	8.90	124.25	3772.29	-206.92	303.96	0.00	0.00	-208.14		
3900.00	8.90	124.25	3871.09	-215.63	316.75	0.00	0.00	-216.90		
4000.00	8.90	124.25	3969.89	-224.33	329.53	0.00	0.00	-225.65		
4100.00	8.90	124.25	4068.69	-233.03	342.31	0.00	0.00	-234.40		
4200.00	8.90	124.25	4167.48	-241.73	355.09	0.00	0.00	-243.15		
4300.00	8.90	124.25	4266.28	-250.43	367.87	0.00	0.00	-251.91		
4400.00	8.90	124.25	4365.08	-259.13	380.66	0.00	0.00	-260.66		
4500.00	8.90	124.25	4463.88	-267.83	393.44	0.00	0.00	-269.41		
4600.00	8.90	124.25	4562.67	-276.54	406.22	0.00	0.00	-278.16		
4700.00	8.90	124.25	4661.47	-285.24	419.00	0.00	0.00	-286.92		
4800.00	8.90	124.25	4760.27	-293.94	431.78	0.00	0.00	-295.67		
4900.00	8.90	124.25	4859.06	-302.64	444.57	0.00	0.00	-304.42		
5000.00	8.90	124.25	4957.86	-311.34	457.35	0.00	0.00	-313.17		
5100.00	8.90	124.25	5056.66	-320.04	470.13	0.00	0.00	-321.93		
5200.00	8.90	124.25	5155.46	-328.74	482.91	0.00	0.00	-330.68		
5300.00	8.90	124.25	5254.25	-337.44	495.69	0.00	0.00	-339.43		
5400.00	8.90	124.25	5353.05	-346.15	508.48	0.00	0.00	-348.18		
5500.00	8.90	124.25	5451.85	-354.85	521.26	0.00	0.00	-356.94		
5600.00	8.90	124.25	5550.65	-363.55	534.04	0.00	0.00	-365.69		
5700.00	8.90	124.25	5649.44	-372.25	546.82	0.00	0.00	-374.44		
5800.00	8.90	124.25	5748.24	-380.95	559.60	0.00	0.00	-383.20		
5900.00	8.90	124.25	5847.04	-389.65	572.39	0.00	0.00	-391.95		
6000.00	8.90	124.25	5945.84	-398.35	585.17	0.00	0.00	-400.70		
6100.00	8.90	124.25	6044.63	-407.06	597.95	0.00	0.00	-409.45		
6200.00	8.90	124.25	6143.43	-415.76	610.73	0.00	0.00	-418.21		
6300.00	8.90	124.25	6242.23	-424.46	623.51	0.00	0.00	-426.96		
6400.00	8.90	124.25	6341.02	-433.16	636.30	0.00	0.00	-435.71		
6500.00	8.90	124.25	6439.82	-441.86	649.08	0.00	0.00	-444.46		
6501.26	8.90	124.25	6441.07	-441.97	649.24	0.00	0.00	-444.57		
6600.00	6.92	124.25	6538.86	-449.62	660.47	2.00	180.00	-452.26		
6700.00	4.92	124.25	6638.32	-455.42	668.99	2.00	180.00	-458.10		
6800.00	2.92	124.25	6738.09	-459.27	674.64	2.00	180.00	-461.97		
6900.00	0.92	124.25	6838.02	-461.15	677.41	2.00	180.00	-463.87		
6946.02	0.00	0.00	6884.04	-461.36	677.72	2.00	180.00	-464.08	KOP	
7000.00	5.40	359.77	6937.94	-458.82	677.71	10.00	359.77	-461.54		
7100.00	15.40	359.77	7036.18	-440.79	677.64	10.00	0.00	-443.51		
7200.00	25.40	359.77	7129.79	-405.98	677.50	10.00	0.00	-408.70		

5D Plan Report

Interpolated Points (Relative to 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)	T.Face (°)	VS (US ft)	Comment
7300.00	35.40	359.77	7215.93	-355.45	677.30	10.00	0.00	-358.16	
7400.00	45.40	359.77	7291.99	-290.72	677.05	10.00	0.00	-293.44	
7500.00	55.40	359.77	7355.65	-213.77	676.74	10.00	0.00	-216.48	
7600.00	65.40	359.77	7404.99	-126.93	676.40	10.00	0.00	-129.65	
7700.00	75.40	359.77	7438.49	-32.85	676.03	10.00	0.00	-35.56	
7800.00	85.40	359.77	7455.15	65.63	675.64	10.00	0.00	62.91	
7844.78	89.88	359.77	7457.00	110.36	675.47	10.00	0.00	107.65	
7900.00	89.88	359.77	7457.12	165.57	675.25	0.00	0.00	162.86	
8000.00	89.88	359.77	7457.33	265.57	674.86	0.00	0.00	262.86	
8100.00	89.88	359.77	7457.55	365.57	674.46	0.00	0.00	362.86	
8200.00	89.88	359.77	7457.76	465.57	674.07	0.00	0.00	462.86	
8300.00	89.88	359.77	7457.98	565.57	673.67	0.00	0.00	562.86	
8400.00	89.88	359.77	7458.19	665.57	673.28	0.00	0.00	662.86	
8500.00	89.88	359.77	7458.41	765.57	672.89	0.00	0.00	762.86	
8600.00	89.88	359.77	7458.62	865.57	672.49	0.00	0.00	862.86	
8700.00	89.88	359.77	7458.84	965.57	672.10	0.00	0.00	962.86	
8800.00	89.88	359.77	7459.05	1065.57	671.70	0.00	0.00	1062.86	
8900.00	89.88	359.77	7459.27	1165.56	671.31	0.00	0.00	1162.86	
9000.00	89.88	359.77	7459.49	1265.56	670.92	0.00	0.00	1262.86	
9100.00	89.88	359.77	7459.70	1365.56	670.52	0.00	0.00	1362.86	
9200.00	89.88	359.77	7459.92	1465.56	670.13	0.00	0.00	1462.86	
9300.00	89.88	359.77	7460.13	1565.56	669.74	0.00	0.00	1562.86	
9400.00	89.88	359.77	7460.35	1665.56	669.34	0.00	0.00	1662.86	
9500.00	89.88	359.77	7460.56	1765.56	668.95	0.00	0.00	1762.86	
9600.00	89.88	359.77	7460.78	1865.56	668.55	0.00	0.00	1862.86	
9700.00	89.88	359.77	7460.99	1965.56	668.16	0.00	0.00	1962.86	
9800.00	89.88	359.77	7461.21	2065.56	667.77	0.00	0.00	2062.86	
9900.00	89.88	359.77	7461.43	2165.55	667.37	0.00	0.00	2162.86	
10000.00	89.88	359.77	7461.64	2265.55	666.98	0.00	0.00	2262.86	
10100.00	89.88	359.77	7461.86	2365.55	666.58	0.00	0.00	2362.86	
10200.00	89.88	359.77	7462.07	2465.55	666.19	0.00	0.00	2462.86	
10300.00	89.88	359.77	7462.29	2565.55	665.80	0.00	0.00	2562.86	
10400.00	89.88	359.77	7462.50	2665.55	665.40	0.00	0.00	2662.86	
10500.00	89.88	359.77	7462.72	2765.55	665.01	0.00	0.00	2762.86	
10600.00	89.88	359.77	7462.93	2865.55	664.61	0.00	0.00	2862.86	
10700.00	89.88	359.77	7463.15	2965.55	664.22	0.00	0.00	2962.86	
10800.00	89.88	359.77	7463.36	3065.55	663.83	0.00	0.00	3062.86	
10900.00	89.88	359.77	7463.58	3165.54	663.43	0.00	0.00	3162.86	
11000.00	89.88	359.77	7463.80	3265.54	663.04	0.00	0.00	3262.86	
11100.00	89.88	359.77	7464.01	3365.54	662.64	0.00	0.00	3362.86	
11200.00	89.88	359.77	7464.23	3465.54	662.25	0.00	0.00	3462.86	

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Interpolated Points (Relative to 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)	T.Face (°)	VS (US ft)	Comment
11300.00	89.88	359.77	7464.44	3565.54	661.86	0.00	0.00	3562.86	
11400.00	89.88	359.77	7464.66	3665.54	661.46	0.00	0.00	3662.85	
11500.00	89.88	359.77	7464.87	3765.54	661.07	0.00	0.00	3762.85	
11600.00	89.88	359.77	7465.09	3865.54	660.67	0.00	0.00	3862.85	
11700.00	89.88	359.77	7465.30	3965.54	660.28	0.00	0.00	3962.85	
11800.00	89.88	359.77	7465.52	4065.54	659.89	0.00	0.00	4062.85	
11900.00	89.88	359.77	7465.73	4165.53	659.49	0.00	0.00	4162.85	
12000.00	89.88	359.77	7465.95	4265.53	659.10	0.00	0.00	4262.85	
12100.00	89.88	359.77	7466.17	4365.53	658.71	0.00	0.00	4362.85	
12200.00	89.88	359.77	7466.38	4465.53	658.31	0.00	0.00	4462.85	
12300.00	89.88	359.77	7466.60	4565.53	657.92	0.00	0.00	4562.85	
12400.00	89.88	359.77	7466.81	4665.53	657.52	0.00	0.00	4662.85	
12500.00	89.88	359.77	7467.03	4765.53	657.13	0.00	0.00	4762.85	
12600.00	89.88	359.77	7467.24	4865.53	656.74	0.00	0.00	4862.85	
12700.00	89.88	359.77	7467.46	4965.53	656.34	0.00	0.00	4962.85	
12800.00	89.88	359.77	7467.67	5065.53	655.95	0.00	0.00	5062.85	
12900.00	89.88	359.77	7467.89	5165.52	655.55	0.00	0.00	5162.85	
13000.00	89.88	359.77	7468.11	5265.52	655.16	0.00	0.00	5262.85	
13100.00	89.88	359.77	7468.32	5365.52	654.77	0.00	0.00	5362.85	
13200.00	89.88	359.77	7468.54	5465.52	654.37	0.00	0.00	5462.85	
13300.00	89.88	359.77	7468.75	5565.52	653.98	0.00	0.00	5562.85	
13400.00	89.88	359.77	7468.97	5665.52	653.58	0.00	0.00	5662.85	
13500.00	89.88	359.77	7469.18	5765.52	653.19	0.00	0.00	5762.85	
13600.00	89.88	359.77	7469.40	5865.52	652.80	0.00	0.00	5862.85	
13700.00	89.88	359.77	7469.61	5965.52	652.40	0.00	0.00	5962.85	
13800.00	89.88	359.77	7469.83	6065.52	652.01	0.00	0.00	6062.85	
13900.00	89.88	359.77	7470.04	6165.51	651.61	0.00	0.00	6162.85	
14000.00	89.88	359.77	7470.26	6265.51	651.22	0.00	0.00	6262.85	
14100.00	89.88	359.77	7470.48	6365.51	650.83	0.00	0.00	6362.85	
14200.00	89.88	359.77	7470.69	6465.51	650.43	0.00	0.00	6462.85	
14300.00	89.88	359.77	7470.91	6565.51	650.04	0.00	0.00	6562.85	
14400.00	89.88	359.77	7471.12	6665.51	649.64	0.00	0.00	6662.85	
14500.00	89.88	359.77	7471.34	6765.51	649.25	0.00	0.00	6762.85	
14600.00	89.88	359.77	7471.55	6865.51	648.86	0.00	0.00	6862.85	
14700.00	89.88	359.77	7471.77	6965.51	648.46	0.00	0.00	6962.85	
14800.00	89.88	359.77	7471.98	7065.51	648.07	0.00	0.00	7062.85	
14900.00	89.88	359.77	7472.20	7165.50	647.67	0.00	0.00	7162.85	
15000.00	89.88	359.77	7472.41	7265.50	647.28	0.00	0.00	7262.85	
15100.00	89.88	359.77	7472.63	7365.50	646.89	0.00	0.00	7362.85	
15200.00	89.88	359.77	7472.85	7465.50	646.49	0.00	0.00	7462.85	
15300.00	89.88	359.77	7473.06	7565.50	646.10	0.00	0.00	7562.85	

5D Plan Report

Interpolated Points (Relative to 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)	T.Face (°)	VS (US ft)	Comment	
15400.00	89.88	359.77	7473.28	7665.50	645.71	0.00	0.00	7662.85		
15500.00	89.88	359.77	7473.49	7765.50	645.31	0.00	0.00	7762.85		
15600.00	89.88	359.77	7473.71	7865.50	644.92	0.00	0.00	7862.85		
15700.00	89.88	359.77	7473.92	7965.50	644.52	0.00	0.00	7962.84		
15800.00	89.88	359.77	7474.14	8065.50	644.13	0.00	0.00	8062.84		
15900.00	89.88	359.77	7474.35	8165.49	643.74	0.00	0.00	8162.84		
16000.00	89.88	359.77	7474.57	8265.49	643.34	0.00	0.00	8262.84		
16100.00	89.88	359.77	7474.79	8365.49	642.95	0.00	0.00	8362.84		
16200.00	89.88	359.77	7475.00	8465.49	642.55	0.00	0.00	8462.84		
16300.00	89.88	359.77	7475.22	8565.49	642.16	0.00	0.00	8562.84		
16400.00	89.88	359.77	7475.43	8665.49	641.77	0.00	0.00	8662.84		
16500.00	89.88	359.77	7475.65	8765.49	641.37	0.00	0.00	8762.84		
16600.00	89.88	359.77	7475.86	8865.49	640.98	0.00	0.00	8862.84		
16700.00	89.88	359.77	7476.08	8965.49	640.58	0.00	0.00	8962.84		
16800.00	89.88	359.77	7476.29	9065.49	640.19	0.00	0.00	9062.84		
16900.00	89.88	359.77	7476.51	9165.48	639.80	0.00	0.00	9162.84		
17000.00	89.88	359.77	7476.72	9265.48	639.40	0.00	0.00	9262.84		
17100.00	89.88	359.77	7476.94	9365.48	639.01	0.00	0.00	9362.84		
17200.00	89.88	359.77	7477.16	9465.48	638.61	0.00	0.00	9462.84		
17300.00	89.88	359.77	7477.37	9565.48	638.22	0.00	0.00	9562.84		
17400.00	89.88	359.77	7477.59	9665.48	637.83	0.00	0.00	9662.84		
17500.00	89.88	359.77	7477.80	9765.48	637.43	0.00	0.00	9762.84		
17591.87	89.88	359.77	7478.00	9857.34	637.07	0.00	0.00	9854.71	TD	

Formation Points (Relative to centre, TVD relative to Drill Floor)			
Name	MD (US ft)	TVD (US ft)	
FOX HILLS	627.00	627.00	
SUSSEX	4746.08	4707.00	
SHARON SPRINGS	7402.87	7294.00	
NIOBRARA A	7465.15	7335.00	
NIOBRARA B	7686.74	7435.00	