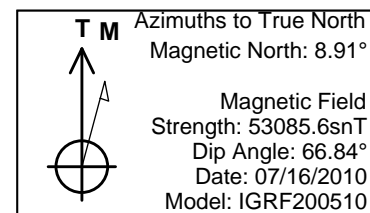
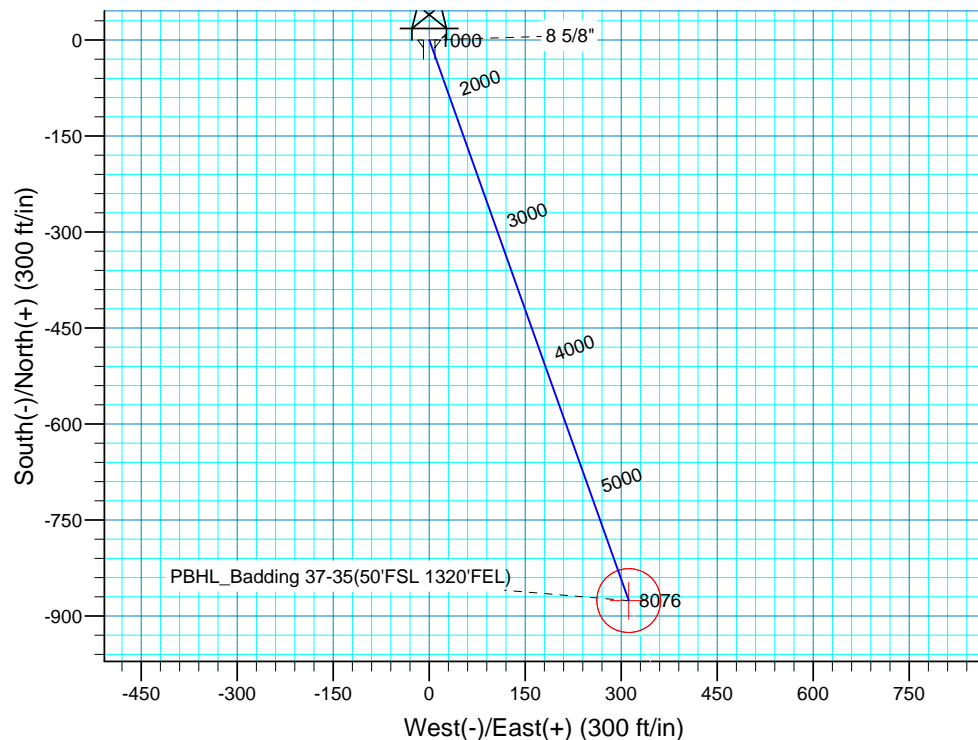
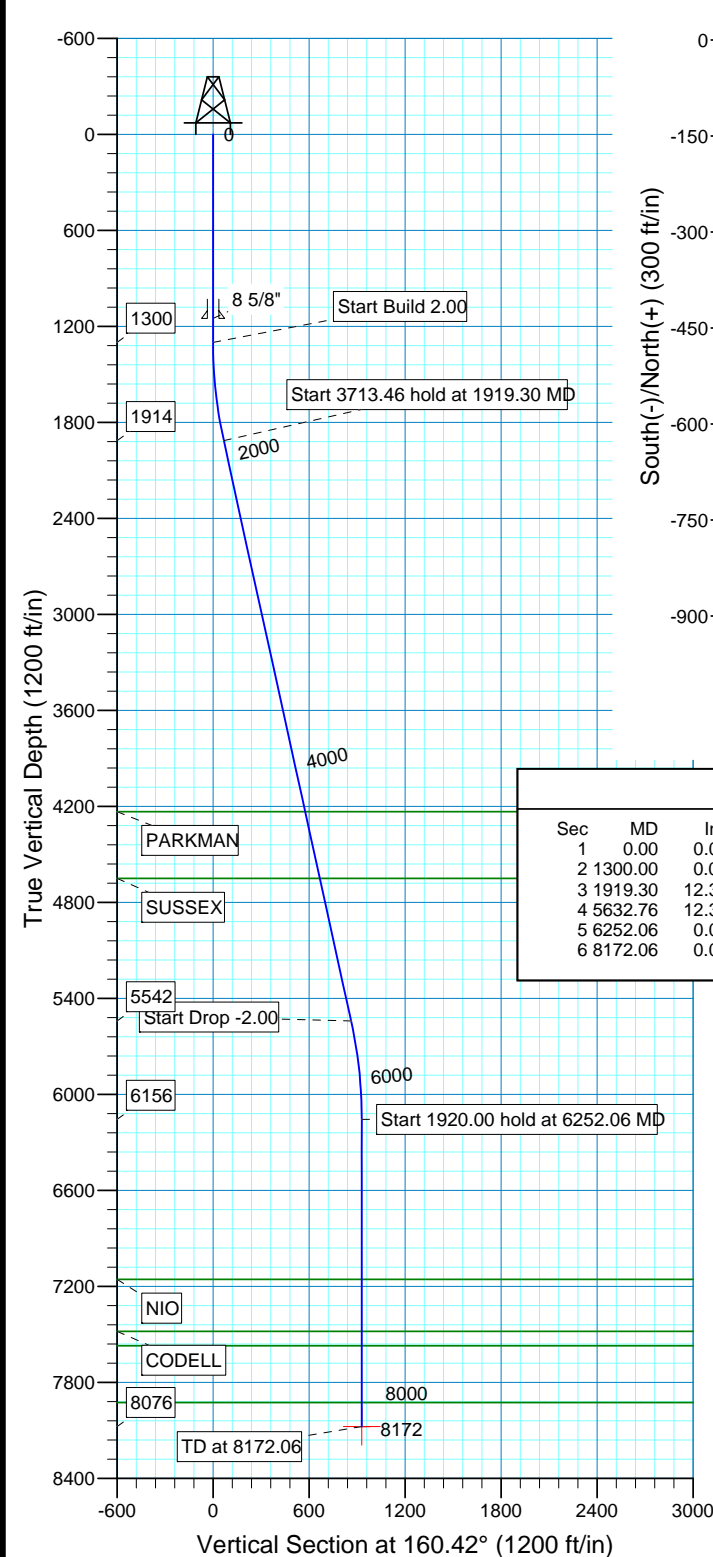


WELL DETAILS: P_Badding 37-35					
+N/-S	+E/-W	GL 5086' & KB 15' @ 5101.00ft (ASSUMED)		5086.00	
0.00	0.00	Northing	Easting	Latitude	Longitude
		1276507.73	3212446.54	40° 5' 23.669 N	104° 44' 26.405 W



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8076.00	-876.08	311.69	1275634.35	3212765.72	40° 5' 15.011 N	104° 44' 22.394 W	Circle (Radius: 50.00)



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	
3	1919.30	12.39	160.42	1914.48	-62.82	22.35	2.00	160.42	66.68	
4	5632.76	12.39	160.42	5541.52	-813.26	289.34	0.00	0.00	863.20	
5	6252.06	0.00	0.00	6156.00	-876.08	311.69	2.00	180.00	929.88	
6	8172.06	0.00	0.00	8076.00	-876.08	311.69	0.00	0.00	929.88	PBHL_Badding 37-35(50'FSL 1320'FEL)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4233.00	4293.06	PARKMAN
4651.00	4721.02	SUSSEX
7156.00	7252.06	NIO
7481.00	7577.06	CODELL
7571.00	7667.06	GREENHORN
7926.00	8022.06	JSAND

PROJECT DETAILS: COLORADO NORTHERN ZONE - 83

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
Location: SEC 35 T2N R66
System Datum: Mean Sea Level
Local North: No north reference data is available

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_Badding 20-35 Pad

P_Badding 37-35

P_Badding 37-35

Plan: Plan #1 7-16-10 RHS

Standard Planning Report

18 July, 2010

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 37-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & KB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & KB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 37-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 37-35		
Design:	Plan #1 7-16-10 RHS		

Project	COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		WELD_Badding 20-35 Pad, SEC 35 T2N R66			
Site Position:		Northing:		1,276,531.97 ft	
From:		Easting:		3,212,512.08 ft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Lat/Long				40° 5' 23.903 N	
0.00 ft				104° 44' 25.559 W	
		in		0.49 °	

Well	P_Badding 37-35, 929' FSL 1631' FEL					
Well Position	+N-S	0.00 ft	Northing:	1,276,507.73 ft	Latitude:	40° 5' 23.669 N
	+E-W	0.00 ft	Easting:	3,212,446.54 ft	Longitude:	104° 44' 26.405 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,086.00 ft

Wellbore	P_Badding 37-35				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/16/10	8.91	66.84	53,086

Design	Plan #1 7-16-10 RHS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	160.42

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,919.30	12.39	160.42	1,914.48	-62.82	22.35	2.00	2.00	0.00	160.42	
5,632.76	12.39	160.42	5,541.52	-813.26	289.34	0.00	0.00	0.00	0.00	
6,252.06	0.00	0.00	6,156.00	-876.08	311.69	2.00	-2.00	0.00	180.00	
8,172.06	0.00	0.00	8,076.00	-876.08	311.69	0.00	0.00	0.00	0.00	PBHL_Badding 37-

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 37-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & KB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & KB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 37-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 37-35		
Design:	Plan #1 7-16-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	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	0.00
500.00	0.00	0.00	500.00	0.00	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	0.00
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8"									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,400.00	2.00	160.42	1,399.98	-1.64	0.58	1.75	2.00	2.00	0.00
1,500.00	4.00	160.42	1,499.84	-6.57	2.34	6.98	2.00	2.00	0.00
1,600.00	6.00	160.42	1,599.45	-14.79	5.26	15.69	2.00	2.00	0.00
1,700.00	8.00	160.42	1,698.70	-26.27	9.35	27.88	2.00	2.00	0.00
1,800.00	10.00	160.42	1,797.47	-41.00	14.59	43.52	2.00	2.00	0.00
1,900.00	12.00	160.42	1,895.62	-58.98	20.98	62.60	2.00	2.00	0.00
1,919.30	12.39	160.42	1,914.48	-62.82	22.35	66.68	2.00	2.00	0.00
Start 3713.46 hold at 1919.30 MD									
2,000.00	12.39	160.42	1,993.31	-79.13	28.15	83.99	0.00	0.00	0.00
2,100.00	12.39	160.42	2,090.98	-99.34	35.34	105.44	0.00	0.00	0.00
2,200.00	12.39	160.42	2,188.65	-119.55	42.53	126.89	0.00	0.00	0.00
2,300.00	12.39	160.42	2,286.33	-139.76	49.72	148.34	0.00	0.00	0.00
2,400.00	12.39	160.42	2,384.00	-159.96	56.91	169.79	0.00	0.00	0.00
2,500.00	12.39	160.42	2,481.67	-180.17	64.10	191.24	0.00	0.00	0.00
2,600.00	12.39	160.42	2,579.34	-200.38	71.29	212.69	0.00	0.00	0.00
2,700.00	12.39	160.42	2,677.02	-220.59	78.48	234.14	0.00	0.00	0.00
2,800.00	12.39	160.42	2,774.69	-240.80	85.67	255.59	0.00	0.00	0.00
2,900.00	12.39	160.42	2,872.36	-261.01	92.86	277.03	0.00	0.00	0.00
3,000.00	12.39	160.42	2,970.03	-281.22	100.05	298.48	0.00	0.00	0.00
3,100.00	12.39	160.42	3,067.71	-301.43	107.24	319.93	0.00	0.00	0.00
3,200.00	12.39	160.42	3,165.38	-321.63	114.43	341.38	0.00	0.00	0.00
3,300.00	12.39	160.42	3,263.05	-341.84	121.62	362.83	0.00	0.00	0.00
3,400.00	12.39	160.42	3,360.72	-362.05	128.81	384.28	0.00	0.00	0.00
3,500.00	12.39	160.42	3,458.40	-382.26	136.00	405.73	0.00	0.00	0.00
3,600.00	12.39	160.42	3,556.07	-402.47	143.19	427.18	0.00	0.00	0.00
3,700.00	12.39	160.42	3,653.74	-422.68	150.38	448.63	0.00	0.00	0.00
3,800.00	12.39	160.42	3,751.41	-442.89	157.57	470.08	0.00	0.00	0.00
3,900.00	12.39	160.42	3,849.09	-463.09	164.76	491.53	0.00	0.00	0.00
4,000.00	12.39	160.42	3,946.76	-483.30	171.95	512.98	0.00	0.00	0.00
4,100.00	12.39	160.42	4,044.43	-503.51	179.14	534.43	0.00	0.00	0.00
4,200.00	12.39	160.42	4,142.10	-523.72	186.33	555.88	0.00	0.00	0.00
4,293.06	12.39	160.42	4,233.00	-542.53	193.02	575.84	0.00	0.00	0.00
PARKMAN									
4,300.00	12.39	160.42	4,239.78	-543.93	193.52	577.33	0.00	0.00	0.00
4,400.00	12.39	160.42	4,337.45	-564.14	200.71	598.78	0.00	0.00	0.00
4,500.00	12.39	160.42	4,435.12	-584.35	207.90	620.23	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 37-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & KB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & KB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 37-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 37-35		
Design:	Plan #1 7-16-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,600.00	12.39	160.42	4,532.79	-604.56	215.09	641.68	0.00	0.00	0.00
4,700.00	12.39	160.42	4,630.47	-624.76	222.28	663.13	0.00	0.00	0.00
4,721.02	12.39	160.42	4,651.00	-629.01	223.79	667.64	0.00	0.00	0.00
SUSSEX									
4,800.00	12.39	160.42	4,728.14	-644.97	229.47	684.58	0.00	0.00	0.00
4,900.00	12.39	160.42	4,825.81	-665.18	236.66	706.03	0.00	0.00	0.00
5,000.00	12.39	160.42	4,923.48	-685.39	243.85	727.48	0.00	0.00	0.00
5,100.00	12.39	160.42	5,021.16	-705.60	251.04	748.93	0.00	0.00	0.00
5,200.00	12.39	160.42	5,118.83	-725.81	258.23	770.37	0.00	0.00	0.00
5,300.00	12.39	160.42	5,216.50	-746.02	265.42	791.82	0.00	0.00	0.00
5,400.00	12.39	160.42	5,314.17	-766.22	272.61	813.27	0.00	0.00	0.00
5,500.00	12.39	160.42	5,411.85	-786.43	279.80	834.72	0.00	0.00	0.00
5,600.00	12.39	160.42	5,509.52	-806.64	286.99	856.17	0.00	0.00	0.00
5,632.76	12.39	160.42	5,541.52	-813.26	289.34	863.20	0.00	0.00	0.00
Start Drop -2.00									
5,700.00	11.04	160.42	5,607.35	-826.12	293.92	876.85	2.00	-2.00	0.00
5,800.00	9.04	160.42	5,705.82	-842.55	299.76	894.29	2.00	-2.00	0.00
5,900.00	7.04	160.42	5,804.83	-855.73	304.45	908.27	2.00	-2.00	0.00
6,000.00	5.04	160.42	5,904.27	-865.64	307.98	918.80	2.00	-2.00	0.00
6,100.00	3.04	160.42	6,004.02	-872.28	310.34	925.84	2.00	-2.00	0.00
6,200.00	1.04	160.42	6,103.95	-875.64	311.53	929.40	2.00	-2.00	0.00
6,252.06	0.00	0.00	6,156.00	-876.08	311.69	929.88	2.00	-2.00	-308.16
Start 1920.00 hold at 6252.06 MD									
6,300.00	0.00	0.00	6,203.94	-876.08	311.69	929.88	0.00	0.00	0.00
6,400.00	0.00	0.00	6,303.94	-876.08	311.69	929.88	0.00	0.00	0.00
6,500.00	0.00	0.00	6,403.94	-876.08	311.69	929.88	0.00	0.00	0.00
6,600.00	0.00	0.00	6,503.94	-876.08	311.69	929.88	0.00	0.00	0.00
6,700.00	0.00	0.00	6,603.94	-876.08	311.69	929.88	0.00	0.00	0.00
6,800.00	0.00	0.00	6,703.94	-876.08	311.69	929.88	0.00	0.00	0.00
6,900.00	0.00	0.00	6,803.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,000.00	0.00	0.00	6,903.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,100.00	0.00	0.00	7,003.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,200.00	0.00	0.00	7,103.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,252.06	0.00	0.00	7,156.00	-876.08	311.69	929.88	0.00	0.00	0.00
NIO									
7,300.00	0.00	0.00	7,203.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,400.00	0.00	0.00	7,303.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,500.00	0.00	0.00	7,403.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,577.06	0.00	0.00	7,481.00	-876.08	311.69	929.88	0.00	0.00	0.00
CODELL									
7,600.00	0.00	0.00	7,503.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,667.06	0.00	0.00	7,571.00	-876.08	311.69	929.88	0.00	0.00	0.00
GREENHORN									
7,700.00	0.00	0.00	7,603.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,800.00	0.00	0.00	7,703.94	-876.08	311.69	929.88	0.00	0.00	0.00
7,900.00	0.00	0.00	7,803.94	-876.08	311.69	929.88	0.00	0.00	0.00
8,000.00	0.00	0.00	7,903.94	-876.08	311.69	929.88	0.00	0.00	0.00
8,022.06	0.00	0.00	7,926.00	-876.08	311.69	929.88	0.00	0.00	0.00
JSAND									
8,100.00	0.00	0.00	8,003.94	-876.08	311.69	929.88	0.00	0.00	0.00
8,172.06	0.00	0.00	8,076.00	-876.08	311.69	929.88	0.00	0.00	0.00
PBHL_Badding 37-35(50'FSL 1320'FEL)									

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 37-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & KB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & KB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 37-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 37-35		
Design:	Plan #1 7-16-10 RHS		

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL_Badding 37-35	0.00	0.00	8,076.00	-876.08	311.69	1,275,634.35	3,212,765.72	40° 5' 15.011 N	104° 44' 22.394 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,150.00	1,150.00	8 5/8"	8.62	11.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,577.06	7,481.00	CODELL			
4,293.06	4,233.00	PARKMAN			
7,252.06	7,156.00	NIO			
4,721.02	4,651.00	SUSSEX			
7,667.06	7,571.00	GREENHORN			
8,022.06	7,926.00	JSAND			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,300.00	1,300.00	0.00	0.00	Start Build 2.00
1,919.30	1,914.48	-62.82	22.35	Start 3713.46 hold at 1919.30 MD
5,632.76	5,541.52	-813.26	289.34	Start Drop -2.00
6,252.06	6,156.00	-876.08	311.69	Start 1920.00 hold at 6252.06 MD
8,172.06	8,076.00	-876.08	311.69	TD at 8172.06