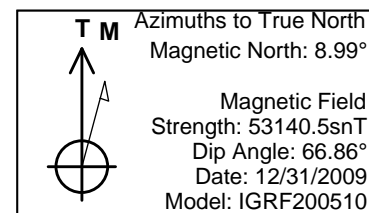
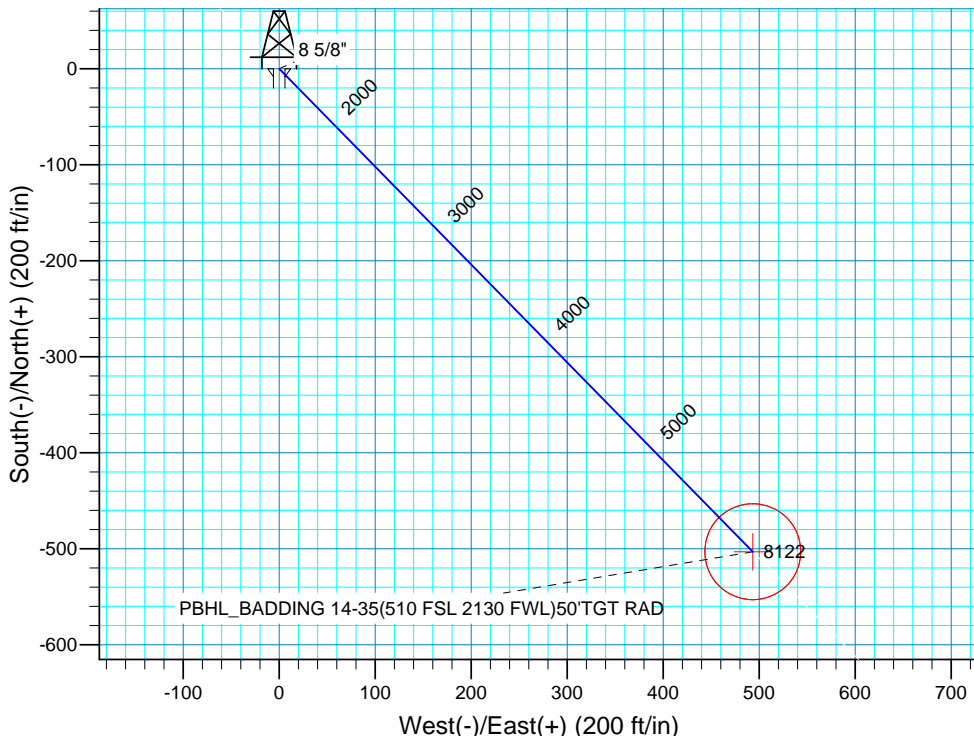
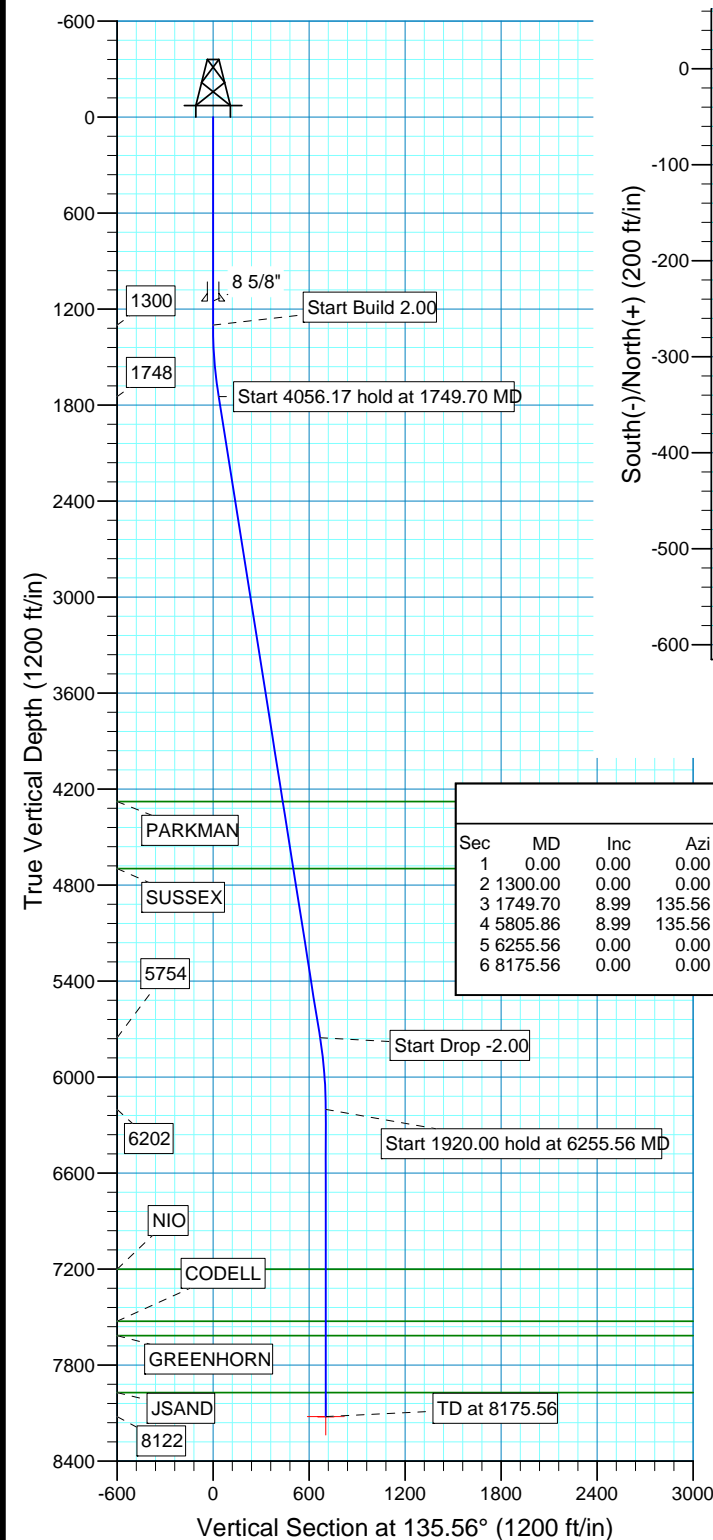


WELL DETAILS: P_BADDING 14-35					
WELL @ 5123.00ft (Original Well Elev) 5108.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1276563.01	3210427.91	40° 5' 24.385 N	104° 44' 52.372 W



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8122.00	-503.06	493.27	1276064.16	3210925.43	40° 5' 19.414 N	104° 44' 46.025 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	1749.70	8.99	135.56	1747.85	-25.15	24.66	2.00	135.56	35.22		
4	5805.86	8.99	135.56	5754.15	-477.91	468.61	0.00	0.00	669.32		
5	6255.56	0.00	0.00	6202.00	-503.06	493.27	2.00	180.00	704.54		
6	8175.56	0.00	0.00	8122.00	-503.06	493.27	0.00	0.00	704.54	PBHL_BADDING 14-35(510 FSL 2130 FWL)50'TGT	

FORMATION TOP DETAILS			PROJECT DETAILS: COLORADO NORTHERN ZONE - 83	
TVDPath	MDPath	Formation	Geodetic System: US State Plane 1983	
4279.00	4312.35	PARKMAN	Datum: North American Datum 1983	
4697.00	4735.56	SUSSEX	Ellipsoid: GRS 1980	
7202.00	7255.56	NIO	Zone: Colorado Northern Zone	
7527.00	7580.56	CODELL	Location: SECTION 35 T2N R66W	
7617.00	7670.56	GREENHORN	System Datum: Mean Sea Level	
7972.00	8025.56	JSAND	Local North: True	

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BADDING 19-35 PAD

P_BADDING 14-35

P_BADDING 14-35

Plan: PLAN #1 7-19-10 RHS

Standard Planning Report

20 July, 2010

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 14-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5123.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5123.00ft (Original Well Elev)
Site:	WELD_BADDING 19-35 PAD	North Reference:	True
Well:	P_BADDING 14-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 14-35		
Design:	PLAN #1 7-19-10 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 19-35 PAD, SECTION 35 T2N R66W				
Site Position:		Northing:	1,276,562.14 ft	Latitude:	40° 5' 24.382 N
From:	Lat/Long	Easting:	3,210,367.76 ft	Longitude:	104° 44' 53.146 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.49 °

Well	P_BADDING 14-35, 1017 FSL 1637 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,276,563.01 ft	Latitude:	40° 5' 24.385 N
	+E-W	0.00 ft	Easting:	3,210,427.91 ft	Longitude:	104° 44' 52.372 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,108.00 ft

Wellbore	P_BADDING 14-35				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.99	66.86	53,140

Design	PLAN #1 7-19-10 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	135.56	

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	
1,749.70	8.99	135.56	1,747.85	-25.15	24.66	2.00	2.00	0.00	135.56	
5,805.86	8.99	135.56	5,754.15	-477.91	468.61	0.00	0.00	0.00	0.00	
6,255.56	0.00	0.00	6,202.00	-503.06	493.27	2.00	-2.00	0.00	180.00	
8,175.56	0.00	0.00	8,122.00	-503.06	493.27	0.00	0.00	0.00	0.00	PBHL_BADDING 1

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 14-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5123.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5123.00ft (Original Well Elev)
Site:	WELD_BADDING 19-35 PAD	North Reference:	True
Well:	P_BADDING 14-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 14-35		
Design:	PLAN #1 7-19-10 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	135.56	1,399.98	-1.25	1.22	1.75	2.00	2.00	0.00
1,500.00	4.00	135.56	1,499.84	-4.98	4.89	6.98	2.00	2.00	0.00
1,600.00	6.00	135.56	1,599.45	-11.21	10.99	15.69	2.00	2.00	0.00
1,700.00	8.00	135.56	1,698.70	-19.91	19.52	27.88	2.00	2.00	0.00
1,749.70	8.99	135.56	1,747.85	-25.15	24.66	35.22	2.00	2.00	0.00
Start 4056.17 hold at 1749.70 MD									
1,800.00	8.99	135.56	1,797.54	-30.76	30.17	43.09	0.00	0.00	0.00
1,900.00	8.99	135.56	1,896.31	-41.93	41.11	58.72	0.00	0.00	0.00
2,000.00	8.99	135.56	1,995.08	-53.09	52.06	74.35	0.00	0.00	0.00
2,100.00	8.99	135.56	2,093.85	-64.25	63.00	89.99	0.00	0.00	0.00
2,200.00	8.99	135.56	2,192.62	-75.41	73.95	105.62	0.00	0.00	0.00
2,300.00	8.99	135.56	2,291.39	-86.58	84.89	121.25	0.00	0.00	0.00
2,400.00	8.99	135.56	2,390.16	-97.74	95.84	136.88	0.00	0.00	0.00
2,500.00	8.99	135.56	2,488.93	-108.90	106.78	152.52	0.00	0.00	0.00
2,600.00	8.99	135.56	2,587.70	-120.06	117.73	168.15	0.00	0.00	0.00
2,700.00	8.99	135.56	2,686.47	-131.23	128.67	183.78	0.00	0.00	0.00
2,800.00	8.99	135.56	2,785.24	-142.39	139.62	199.42	0.00	0.00	0.00
2,900.00	8.99	135.56	2,884.01	-153.55	150.56	215.05	0.00	0.00	0.00
3,000.00	8.99	135.56	2,982.78	-164.71	161.51	230.68	0.00	0.00	0.00
3,100.00	8.99	135.56	3,081.55	-175.87	172.45	246.32	0.00	0.00	0.00
3,200.00	8.99	135.56	3,180.32	-187.04	183.40	261.95	0.00	0.00	0.00
3,300.00	8.99	135.56	3,279.09	-198.20	194.34	277.58	0.00	0.00	0.00
3,400.00	8.99	135.56	3,377.86	-209.36	205.29	293.21	0.00	0.00	0.00
3,500.00	8.99	135.56	3,476.64	-220.52	216.23	308.85	0.00	0.00	0.00
3,600.00	8.99	135.56	3,575.41	-231.69	227.18	324.48	0.00	0.00	0.00
3,700.00	8.99	135.56	3,674.18	-242.85	238.12	340.11	0.00	0.00	0.00
3,800.00	8.99	135.56	3,772.95	-254.01	249.07	355.75	0.00	0.00	0.00
3,900.00	8.99	135.56	3,871.72	-265.17	260.01	371.38	0.00	0.00	0.00
4,000.00	8.99	135.56	3,970.49	-276.33	270.96	387.01	0.00	0.00	0.00
4,100.00	8.99	135.56	4,069.26	-287.50	281.90	402.64	0.00	0.00	0.00
4,200.00	8.99	135.56	4,168.03	-298.66	292.85	418.28	0.00	0.00	0.00
4,300.00	8.99	135.56	4,266.80	-309.82	303.79	433.91	0.00	0.00	0.00
4,312.35	8.99	135.56	4,279.00	-311.20	305.14	435.84	0.00	0.00	0.00
PARKMAN									
4,400.00	8.99	135.56	4,365.57	-320.98	314.74	449.54	0.00	0.00	0.00
4,500.00	8.99	135.56	4,464.34	-332.15	325.68	465.18	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 14-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5123.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5123.00ft (Original Well Elev)
Site:	WELD_BADDING 19-35 PAD	North Reference:	True
Well:	P_BADDING 14-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 14-35		
Design:	PLAN #1 7-19-10 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	8.99	135.56	4,563.11	-343.31	336.63	480.81	0.00	0.00	0.00
4,700.00	8.99	135.56	4,661.88	-354.47	347.57	496.44	0.00	0.00	0.00
4,735.56	8.99	135.56	4,697.00	-358.44	351.46	502.00	0.00	0.00	0.00
SUSSEX									
4,800.00	8.99	135.56	4,760.65	-365.63	358.52	512.08	0.00	0.00	0.00
4,900.00	8.99	135.56	4,859.42	-376.79	369.46	527.71	0.00	0.00	0.00
5,000.00	8.99	135.56	4,958.19	-387.96	380.41	543.34	0.00	0.00	0.00
5,100.00	8.99	135.56	5,056.96	-399.12	391.35	558.97	0.00	0.00	0.00
5,200.00	8.99	135.56	5,155.73	-410.28	402.30	574.61	0.00	0.00	0.00
5,300.00	8.99	135.56	5,254.50	-421.44	413.24	590.24	0.00	0.00	0.00
5,400.00	8.99	135.56	5,353.27	-432.61	424.19	605.87	0.00	0.00	0.00
5,500.00	8.99	135.56	5,452.05	-443.77	435.13	621.51	0.00	0.00	0.00
5,600.00	8.99	135.56	5,550.82	-454.93	446.08	637.14	0.00	0.00	0.00
5,700.00	8.99	135.56	5,649.59	-466.09	457.02	652.77	0.00	0.00	0.00
5,800.00	8.99	135.56	5,748.36	-477.25	467.97	668.41	0.00	0.00	0.00
5,805.86	8.99	135.56	5,754.15	-477.91	468.61	669.32	0.00	0.00	0.00
Start Drop -2.00									
5,900.00	7.11	135.56	5,847.35	-487.32	477.84	682.51	2.00	-2.00	0.00
6,000.00	5.11	135.56	5,946.78	-494.93	485.29	693.15	2.00	-2.00	0.00
6,100.00	3.11	135.56	6,046.52	-500.04	490.31	700.32	2.00	-2.00	0.00
6,200.00	1.11	135.56	6,146.44	-502.67	492.89	704.01	2.00	-2.00	0.00
6,255.56	0.00	0.00	6,202.00	-503.06	493.27	704.54	2.00	-2.00	0.00
Start 1920.00 hold at 6255.56 MD									
6,300.00	0.00	0.00	6,246.44	-503.06	493.27	704.54	0.00	0.00	0.00
6,400.00	0.00	0.00	6,346.44	-503.06	493.27	704.54	0.00	0.00	0.00
6,500.00	0.00	0.00	6,446.44	-503.06	493.27	704.54	0.00	0.00	0.00
6,600.00	0.00	0.00	6,546.44	-503.06	493.27	704.54	0.00	0.00	0.00
6,700.00	0.00	0.00	6,646.44	-503.06	493.27	704.54	0.00	0.00	0.00
6,800.00	0.00	0.00	6,746.44	-503.06	493.27	704.54	0.00	0.00	0.00
6,900.00	0.00	0.00	6,846.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,000.00	0.00	0.00	6,946.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,100.00	0.00	0.00	7,046.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,200.00	0.00	0.00	7,146.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,255.56	0.00	0.00	7,202.00	-503.06	493.27	704.54	0.00	0.00	0.00
NIO									
7,300.00	0.00	0.00	7,246.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,400.00	0.00	0.00	7,346.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,500.00	0.00	0.00	7,446.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,580.56	0.00	0.00	7,527.00	-503.06	493.27	704.54	0.00	0.00	0.00
CODELL									
7,600.00	0.00	0.00	7,546.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,670.56	0.00	0.00	7,617.00	-503.06	493.27	704.54	0.00	0.00	0.00
GREENHORN									
7,700.00	0.00	0.00	7,646.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,800.00	0.00	0.00	7,746.44	-503.06	493.27	704.54	0.00	0.00	0.00
7,900.00	0.00	0.00	7,846.44	-503.06	493.27	704.54	0.00	0.00	0.00
8,000.00	0.00	0.00	7,946.44	-503.06	493.27	704.54	0.00	0.00	0.00
8,025.56	0.00	0.00	7,972.00	-503.06	493.27	704.54	0.00	0.00	0.00
JSAND									
8,100.00	0.00	0.00	8,046.44	-503.06	493.27	704.54	0.00	0.00	0.00
8,175.56	0.00	0.00	8,122.00	-503.06	493.27	704.54	0.00	0.00	0.00
Formation 8 - PBHL_BADDING 14-35(510 FSL 2130 FWL)50'TGT RAD									

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 14-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5123.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5123.00ft (Original Well Elev)
Site:	WELD_BADDING 19-35 PAD	North Reference:	True
Well:	P_BADDING 14-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 14-35		
Design:	PLAN #1 7-19-10 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 14-35	0.00	0.49	8,122.00	-503.06	493.27	1,276,064.16	3,210,925.43	40° 5' 19.414 N	104° 44' 46.025 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"	8.620	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,025.56	7,972.00	JSAND			
7,580.56	7,527.00	CODELL			
7,670.56	7,617.00	GREENHORN			
4,312.35	4,279.00	PARKMAN			
8,175.56	8,122.00	Formation 8			
7,255.56	7,202.00	NIO			
4,735.56	4,697.00	SUSSEX			

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
1,749.70	1,747.85	-25.15	24.66	Start 4056.17 hold at 1749.70 MD
5,805.86	5,754.15	-477.91	468.61	Start Drop -2.00
6,255.56	6,202.00	-503.06	493.27	Start 1920.00 hold at 6255.56 MD
8,175.56	8,122.00	-503.06	493.27	TD at 8175.56