

WELL DETAILS: P_BADDING 12-35

WELL @ 5123.00ft (Original Well Elev) 5108.00				
+N/-S	+E/-W	Northing	Easting	Latitude
0.00	0.00	1276561.60	3210347.90	40° 5' 24.378 N
Longitude				
104° 44' 53.401 W				

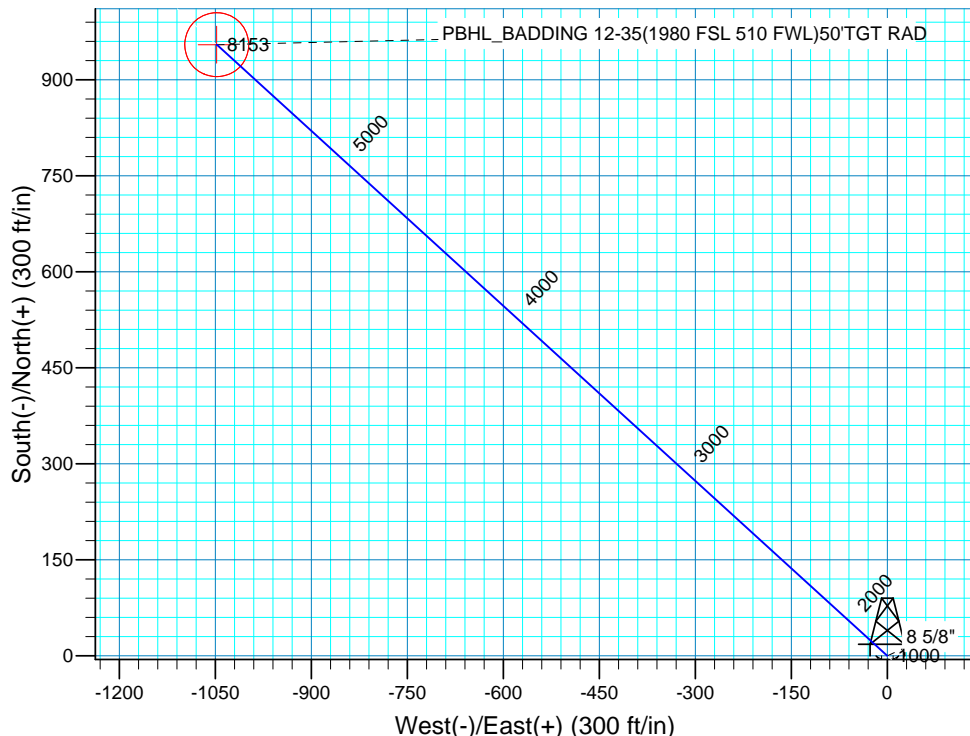
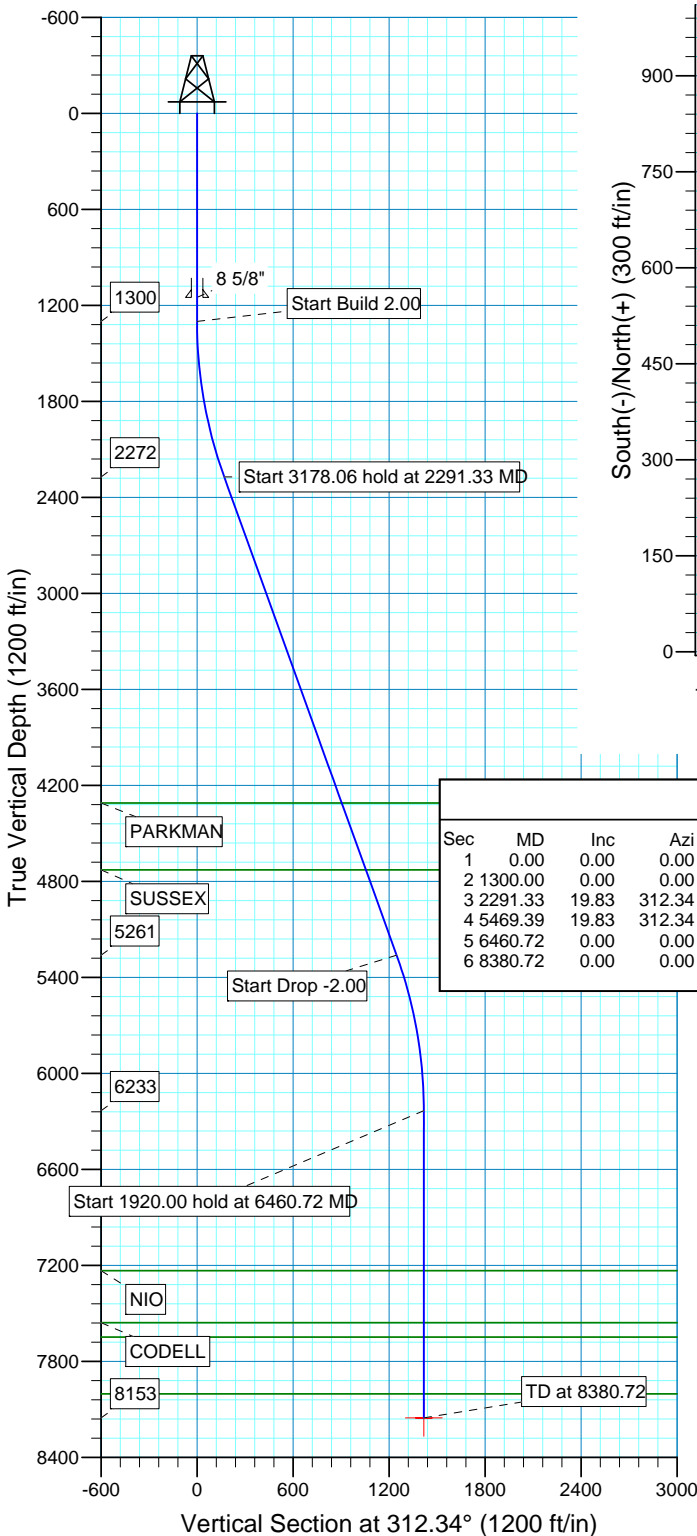


Azimuths to True North
Magnetic North: 8.91°

Magnetic Field
Strength: 53126.0snT
Dip Angle: 66.84°
Date: 07/19/2010
Model: IGRF200510

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8153.00	954.80	-1047.75	1277507.49	3209292.10	40° 5' 33.814 N	104° 45' 6.883 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	2291.33	19.83	312.34	2271.66	114.38	-125.52	2.00	312.34	169.81	
4	5469.39	19.83	312.34	5261.34	840.42	-922.24	0.00	0.00	1247.73	
5	6460.72	0.00	0.00	6233.00	954.80	-1047.75	2.00	180.00	1417.54	
6	8380.72	0.00	0.00	8153.00	954.80	-1047.75	0.00	0.00	1417.54	PBHL_BADDING 12-35(1980 FSL 510 FWL)50'TGT

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4310.00	4458.10	PARKMAN
4728.00	4902.44	SUSSEX
7233.00	7460.72	NIO
7558.00	7785.72	CODELL
7648.00	7875.72	GREENHORN
8003.00	8230.72	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: SECTION 35 T2N R66W
System Datum: Mean Sea Level
Local North: True

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BADDING 19-35 PAD

P_BADDING 12-35

P_BADDING 12-35

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 12-35
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 12-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 12-35		
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 12-35, 1017 FSL 1557 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,276,561.60 ft	Latitude:	40° 5' 24.378 N
	+E-W	0.00 ft	Easting:	3,210,347.90 ft	Longitude:	104° 44' 53.401 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,108.00 ft

Wellbore	P_BADDING 12-35				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/19/2010	8.91	66.84	53,126

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	312.34	

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	
2,291.33	19.83	312.34	2,271.66	114.38	-125.52	2.00	2.00	0.00	312.34	
5,469.39	19.83	312.34	5,261.34	840.42	-922.24	0.00	0.00	0.00	0.00	
6,460.72	0.00	0.00	6,233.00	954.80	-1,047.75	2.00	-2.00	0.00	180.00	
8,380.72	0.00	0.00	8,153.00	954.80	-1,047.75	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 12-35
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 12-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 12-35		
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	312.34	1,399.98	1.18	-1.29	1.75	2.00	2.00	0.00
1,500.00	4.00	312.34	1,499.84	4.70	-5.16	6.98	2.00	2.00	0.00
1,600.00	6.00	312.34	1,599.45	10.57	-11.60	15.69	2.00	2.00	0.00
1,700.00	8.00	312.34	1,698.70	18.78	-20.61	27.88	2.00	2.00	0.00
1,800.00	10.00	312.34	1,797.47	29.32	-32.17	43.52	2.00	2.00	0.00
1,900.00	12.00	312.34	1,895.62	42.17	-46.27	62.60	2.00	2.00	0.00
2,000.00	14.00	312.34	1,993.06	57.32	-62.90	85.10	2.00	2.00	0.00
2,100.00	16.00	312.34	2,089.64	74.75	-82.03	110.98	2.00	2.00	0.00
2,200.00	18.00	312.34	2,185.27	94.44	-103.64	140.21	2.00	2.00	0.00
2,291.33	19.83	312.34	2,271.66	114.38	-125.52	169.81	2.00	2.00	0.00
Start 3178.06 hold at 2291.33 MD									
2,300.00	19.83	312.34	2,279.82	116.36	-127.69	172.76	0.00	0.00	0.00
2,400.00	19.83	312.34	2,373.89	139.21	-152.76	206.67	0.00	0.00	0.00
2,500.00	19.83	312.34	2,467.96	162.05	-177.83	240.59	0.00	0.00	0.00
2,600.00	19.83	312.34	2,562.04	184.90	-202.90	274.51	0.00	0.00	0.00
2,700.00	19.83	312.34	2,656.11	207.74	-227.97	308.43	0.00	0.00	0.00
2,800.00	19.83	312.34	2,750.18	230.59	-253.04	342.34	0.00	0.00	0.00
2,900.00	19.83	312.34	2,844.25	253.43	-278.11	376.26	0.00	0.00	0.00
3,000.00	19.83	312.34	2,938.33	276.28	-303.17	410.18	0.00	0.00	0.00
3,100.00	19.83	312.34	3,032.40	299.13	-328.24	444.09	0.00	0.00	0.00
3,200.00	19.83	312.34	3,126.47	321.97	-353.31	478.01	0.00	0.00	0.00
3,300.00	19.83	312.34	3,220.54	344.82	-378.38	511.93	0.00	0.00	0.00
3,400.00	19.83	312.34	3,314.62	367.66	-403.45	545.85	0.00	0.00	0.00
3,500.00	19.83	312.34	3,408.69	390.51	-428.52	579.76	0.00	0.00	0.00
3,600.00	19.83	312.34	3,502.76	413.35	-453.59	613.68	0.00	0.00	0.00
3,700.00	19.83	312.34	3,596.83	436.20	-478.66	647.60	0.00	0.00	0.00
3,800.00	19.83	312.34	3,690.91	459.04	-503.73	681.52	0.00	0.00	0.00
3,900.00	19.83	312.34	3,784.98	481.89	-528.80	715.43	0.00	0.00	0.00
4,000.00	19.83	312.34	3,879.05	504.73	-553.87	749.35	0.00	0.00	0.00
4,100.00	19.83	312.34	3,973.12	527.58	-578.94	783.27	0.00	0.00	0.00
4,200.00	19.83	312.34	4,067.19	550.43	-604.01	817.19	0.00	0.00	0.00
4,300.00	19.83	312.34	4,161.27	573.27	-629.08	851.10	0.00	0.00	0.00
4,400.00	19.83	312.34	4,255.34	596.12	-654.15	885.02	0.00	0.00	0.00
4,458.10	19.83	312.34	4,310.00	609.39	-668.71	904.73	0.00	0.00	0.00
PARKMAN									
4,500.00	19.83	312.34	4,349.41	618.96	-679.22	918.94	0.00	0.00	0.00

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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 12-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 12-35		
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	19.83	312.34	4,443.48	641.81	-704.29	952.86	0.00	0.00	0.00
4,700.00	19.83	312.34	4,537.56	664.65	-729.35	986.77	0.00	0.00	0.00
4,800.00	19.83	312.34	4,631.63	687.50	-754.42	1,020.69	0.00	0.00	0.00
4,900.00	19.83	312.34	4,725.70	710.34	-779.49	1,054.61	0.00	0.00	0.00
4,902.44	19.83	312.34	4,728.00	710.90	-780.11	1,055.44	0.00	0.00	0.00
SUSSEX									
5,000.00	19.83	312.34	4,819.77	733.19	-804.56	1,088.53	0.00	0.00	0.00
5,100.00	19.83	312.34	4,913.85	756.04	-829.63	1,122.44	0.00	0.00	0.00
5,200.00	19.83	312.34	5,007.92	778.88	-854.70	1,156.36	0.00	0.00	0.00
5,300.00	19.83	312.34	5,101.99	801.73	-879.77	1,190.28	0.00	0.00	0.00
5,400.00	19.83	312.34	5,196.06	824.57	-904.84	1,224.20	0.00	0.00	0.00
5,469.39	19.83	312.34	5,261.34	840.42	-922.24	1,247.73	0.00	0.00	0.00
Start Drop -2.00									
5,500.00	19.21	312.34	5,290.19	847.31	-929.80	1,257.96	2.00	-2.00	0.00
5,600.00	17.21	312.34	5,385.17	868.37	-952.90	1,289.21	2.00	-2.00	0.00
5,700.00	15.21	312.34	5,481.19	887.17	-973.54	1,317.14	2.00	-2.00	0.00
5,800.00	13.21	312.34	5,578.13	903.71	-991.68	1,341.69	2.00	-2.00	0.00
5,900.00	11.21	312.34	5,675.86	917.96	-1,007.32	1,362.85	2.00	-2.00	0.00
6,000.00	9.21	312.34	5,774.27	929.90	-1,020.43	1,380.58	2.00	-2.00	0.00
6,100.00	7.21	312.34	5,873.24	939.53	-1,030.99	1,394.86	2.00	-2.00	0.00
6,200.00	5.21	312.34	5,972.64	946.82	-1,038.99	1,405.69	2.00	-2.00	0.00
6,300.00	3.21	312.34	6,072.37	951.77	-1,044.42	1,413.04	2.00	-2.00	0.00
6,400.00	1.21	312.34	6,172.29	954.37	-1,047.28	1,416.90	2.00	-2.00	0.00
6,460.72	0.00	0.00	6,233.00	954.80	-1,047.75	1,417.54	2.00	-2.00	0.00
Start 1920.00 hold at 6460.72 MD									
6,500.00	0.00	0.00	6,272.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
6,600.00	0.00	0.00	6,372.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
6,700.00	0.00	0.00	6,472.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
6,800.00	0.00	0.00	6,572.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
6,900.00	0.00	0.00	6,672.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,000.00	0.00	0.00	6,772.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,100.00	0.00	0.00	6,872.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,200.00	0.00	0.00	6,972.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,300.00	0.00	0.00	7,072.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,400.00	0.00	0.00	7,172.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,460.72	0.00	0.00	7,233.00	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
NIO									
7,500.00	0.00	0.00	7,272.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,600.00	0.00	0.00	7,372.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,700.00	0.00	0.00	7,472.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,785.72	0.00	0.00	7,558.00	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
CODELL									
7,800.00	0.00	0.00	7,572.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
7,875.72	0.00	0.00	7,648.00	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
GREENHORN									
7,900.00	0.00	0.00	7,672.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
8,000.00	0.00	0.00	7,772.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
8,100.00	0.00	0.00	7,872.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
8,200.00	0.00	0.00	7,972.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
8,230.72	0.00	0.00	8,003.00	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
JSAND									
8,300.00	0.00	0.00	8,072.28	954.80	-1,047.75	1,417.54	0.00	0.00	0.00
8,380.72	0.00	0.00	8,153.00	954.80	-1,047.75	1,417.54	0.00	0.00	0.00

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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 12-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 12-35		
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)
PBHL_BADDING 12-35(1980 FSL 510 FWL)50'TGT RAD									

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	
	- Shape								Latitude Longitude
PBHL_BADDING 12-35	- plan hits target center	0.00	0.48	8,153.00	954.80	-1,047.75	1,277,507.49	3,209,292.10	40° 5' 33.814 N 104° 45' 6.883 W
	- 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 (°)	
8,230.72	8,003.00	JSAND				
7,460.72	7,233.00	NIO				
4,902.44	4,728.00	SUSSEX				
7,785.72	7,558.00	CODELL				
4,458.10	4,310.00	PARKMAN				
7,875.72	7,648.00	GREENHORN				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,300.00	1,300.00	0.00	0.00	Start Build 2.00	
2,291.33	2,271.66	114.38	-125.52	Start 3178.06 hold at 2291.33 MD	
5,469.39	5,261.34	840.42	-922.24	Start Drop -2.00	
6,460.72	6,233.00	954.80	-1,047.75	Start 1920.00 hold at 6460.72 MD	
8,380.72	8,153.00	954.80	-1,047.75	TD at 8380.72	