

WELL DETAILS: P_BADDING 13-35

WELL @ 5123.00ft (Original Well Elev) 5108.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1276561.68	3210357.98	40° 5' 24.378 N	104° 44' 53.272 W

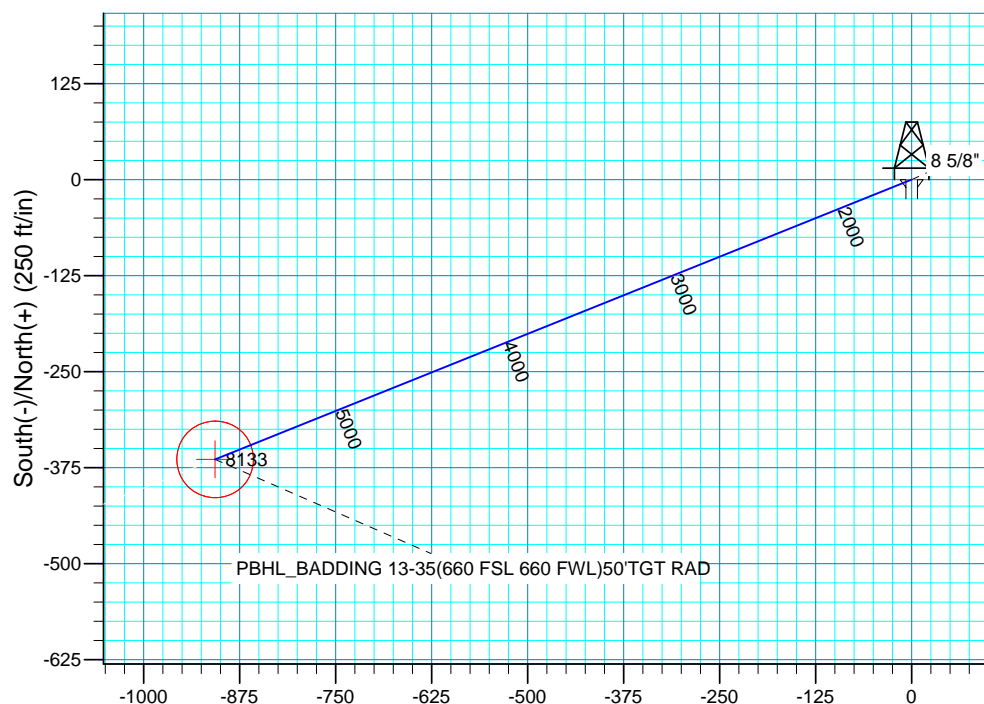
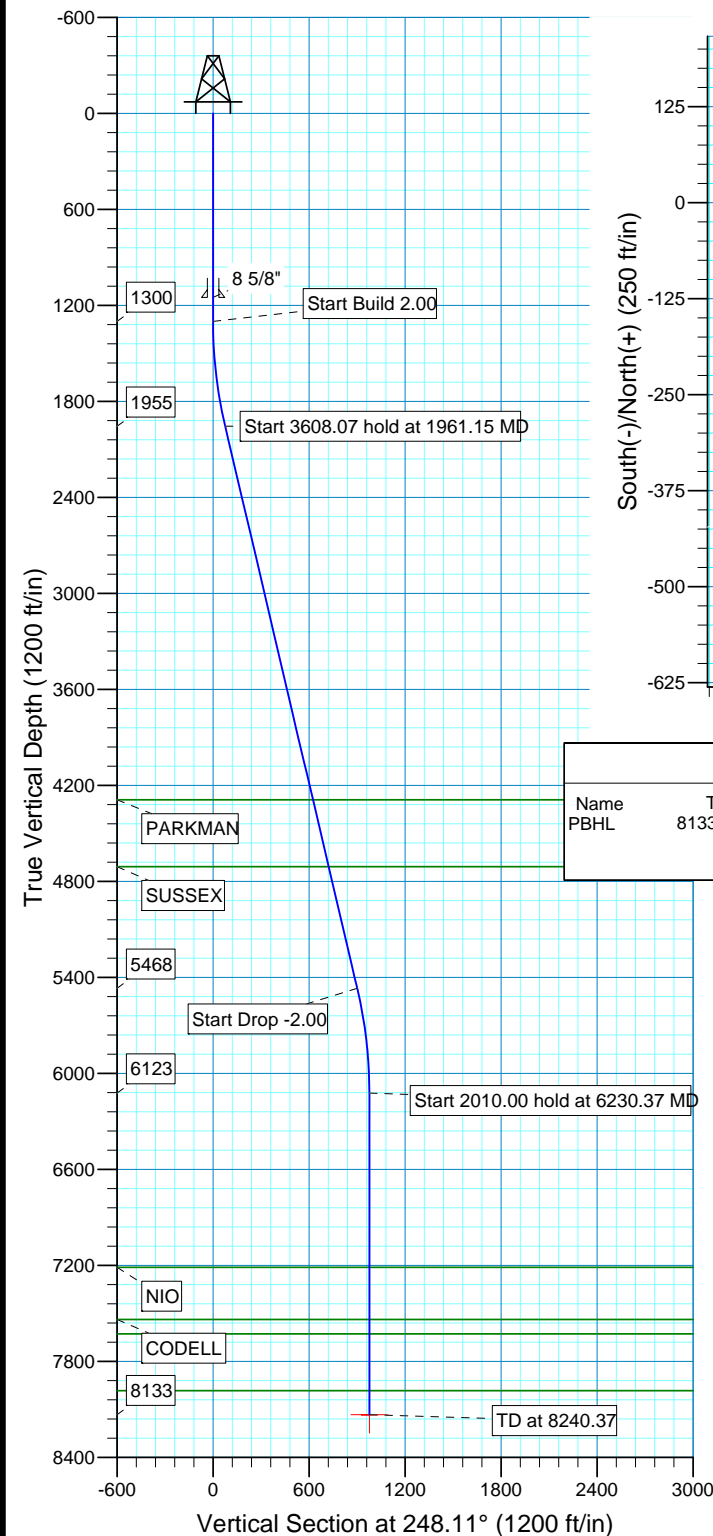
SECTION DETAILS

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	1961.15	13.22	248.11	1955.29	-28.31	-70.48	2.00	248.11	75.95	
4	5569.22	13.22	248.11	5467.71	-335.95	-836.31	0.00	0.00	901.27	
5	6230.37	0.00	0.00	6123.00	-364.26	-906.79	2.00	180.00	977.22	
6	8240.37	0.00	0.00	8133.00	-364.26	-906.79	0.00	0.00	977.22	PBHL_BADDING 13-35(660 FSL 660 FWL)50'TGT RAD



Azimuths to True North
Magnetic North: 8.91°

Magnetic Field
Strength: 53084.8snT
Dip Angle: 66.84°
Date: 07/16/2010
Model: IGRF200510



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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8133.00	-364.25	-906.79	1276189.76	3209454.30	40° 5' 20.778 N	104° 45' 4.939 W	Circle (Radius: 50.00)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4290.00	4359.44	PARKMAN
4708.00	4788.82	SUSSEX
7213.00	7320.37	NIO
7538.00	7645.37	CODELL
7628.00	7735.37	GREENHORN
7983.00	8090.37	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 13-35

P_BADDING 13-35

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 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 13-35		
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 13-35, 1017 FSL 1567 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,276,561.68 ft	Latitude:	40° 5' 24.378 N
	+E-W	0.00 ft	Easting:	3,210,357.98 ft	Longitude:	104° 44' 53.272 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,108.00 ft

Wellbore	P_BADDING 13-35				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/16/2010	8.91	66.84	53,085

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	248.11	

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	
1,961.15	13.22	248.11	1,955.29	-28.31	-70.48	2.00	2.00	0.00	248.11	
5,569.22	13.22	248.11	5,467.71	-335.95	-836.31	0.00	0.00	0.00	0.00	
6,230.37	0.00	0.00	6,123.00	-364.26	-906.79	2.00	-2.00	0.00	180.00	
8,240.37	0.00	0.00	8,133.00	-364.26	-906.79	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 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 13-35		
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	248.11	1,399.98	-0.65	-1.62	1.75	2.00	2.00	0.00
1,500.00	4.00	248.11	1,499.84	-2.60	-6.48	6.98	2.00	2.00	0.00
1,600.00	6.00	248.11	1,599.45	-5.85	-14.56	15.69	2.00	2.00	0.00
1,700.00	8.00	248.11	1,698.70	-10.39	-25.87	27.88	2.00	2.00	0.00
1,800.00	10.00	248.11	1,797.47	-16.22	-40.39	43.52	2.00	2.00	0.00
1,900.00	12.00	248.11	1,895.62	-23.34	-58.09	62.60	2.00	2.00	0.00
1,961.15	13.22	248.11	1,955.29	-28.31	-70.48	75.95	2.00	2.00	0.00
Start 3608.07 hold at 1961.15 MD									
2,000.00	13.22	248.11	1,993.12	-31.62	-78.73	84.84	0.00	0.00	0.00
2,100.00	13.22	248.11	2,090.47	-40.15	-99.95	107.71	0.00	0.00	0.00
2,200.00	13.22	248.11	2,187.81	-48.68	-121.18	130.59	0.00	0.00	0.00
2,300.00	13.22	248.11	2,285.16	-57.20	-142.40	153.46	0.00	0.00	0.00
2,400.00	13.22	248.11	2,382.51	-65.73	-163.63	176.34	0.00	0.00	0.00
2,500.00	13.22	248.11	2,479.86	-74.26	-184.85	199.21	0.00	0.00	0.00
2,600.00	13.22	248.11	2,577.21	-82.78	-206.08	222.08	0.00	0.00	0.00
2,700.00	13.22	248.11	2,674.56	-91.31	-227.31	244.96	0.00	0.00	0.00
2,800.00	13.22	248.11	2,771.91	-99.83	-248.53	267.83	0.00	0.00	0.00
2,900.00	13.22	248.11	2,869.26	-108.36	-269.76	290.71	0.00	0.00	0.00
3,000.00	13.22	248.11	2,966.60	-116.89	-290.98	313.58	0.00	0.00	0.00
3,100.00	13.22	248.11	3,063.95	-125.41	-312.21	336.46	0.00	0.00	0.00
3,200.00	13.22	248.11	3,161.30	-133.94	-333.43	359.33	0.00	0.00	0.00
3,300.00	13.22	248.11	3,258.65	-142.47	-354.66	382.20	0.00	0.00	0.00
3,400.00	13.22	248.11	3,356.00	-150.99	-375.88	405.08	0.00	0.00	0.00
3,500.00	13.22	248.11	3,453.35	-159.52	-397.11	427.95	0.00	0.00	0.00
3,600.00	13.22	248.11	3,550.70	-168.04	-418.34	450.83	0.00	0.00	0.00
3,700.00	13.22	248.11	3,648.05	-176.57	-439.56	473.70	0.00	0.00	0.00
3,800.00	13.22	248.11	3,745.39	-185.10	-460.79	496.57	0.00	0.00	0.00
3,900.00	13.22	248.11	3,842.74	-193.62	-482.01	519.45	0.00	0.00	0.00
4,000.00	13.22	248.11	3,940.09	-202.15	-503.24	542.32	0.00	0.00	0.00
4,100.00	13.22	248.11	4,037.44	-210.68	-524.46	565.20	0.00	0.00	0.00
4,200.00	13.22	248.11	4,134.79	-219.20	-545.69	588.07	0.00	0.00	0.00
4,300.00	13.22	248.11	4,232.14	-227.73	-566.91	610.94	0.00	0.00	0.00
4,359.44	13.22	248.11	4,290.00	-232.80	-579.53	624.54	0.00	0.00	0.00
PARKMAN									
4,400.00	13.22	248.11	4,329.49	-236.26	-588.14	633.82	0.00	0.00	0.00
4,500.00	13.22	248.11	4,426.84	-244.78	-609.37	656.69	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 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 13-35		
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	13.22	248.11	4,524.18	-253.31	-630.59	679.57	0.00	0.00	0.00
4,700.00	13.22	248.11	4,621.53	-261.83	-651.82	702.44	0.00	0.00	0.00
4,788.82	13.22	248.11	4,708.00	-269.41	-670.67	722.76	0.00	0.00	0.00
SUSSEX									
4,800.00	13.22	248.11	4,718.88	-270.36	-673.04	725.31	0.00	0.00	0.00
4,900.00	13.22	248.11	4,816.23	-278.89	-694.27	748.19	0.00	0.00	0.00
5,000.00	13.22	248.11	4,913.58	-287.41	-715.49	771.06	0.00	0.00	0.00
5,100.00	13.22	248.11	5,010.93	-295.94	-736.72	793.94	0.00	0.00	0.00
5,200.00	13.22	248.11	5,108.28	-304.47	-757.95	816.81	0.00	0.00	0.00
5,300.00	13.22	248.11	5,205.62	-312.99	-779.17	839.68	0.00	0.00	0.00
5,400.00	13.22	248.11	5,302.97	-321.52	-800.40	862.56	0.00	0.00	0.00
5,500.00	13.22	248.11	5,400.32	-330.04	-821.62	885.43	0.00	0.00	0.00
5,569.22	13.22	248.11	5,467.71	-335.95	-836.31	901.27	0.00	0.00	0.00
Start Drop -2.00									
5,600.00	12.61	248.11	5,497.71	-338.51	-842.70	908.15	2.00	-2.00	0.00
5,700.00	10.61	248.11	5,595.66	-346.01	-861.37	928.27	2.00	-2.00	0.00
5,800.00	8.61	248.11	5,694.25	-352.23	-876.85	944.95	2.00	-2.00	0.00
5,900.00	6.61	248.11	5,793.37	-357.16	-889.14	958.19	2.00	-2.00	0.00
6,000.00	4.61	248.11	5,892.88	-360.81	-898.20	967.96	2.00	-2.00	0.00
6,100.00	2.61	248.11	5,992.68	-363.15	-904.04	974.25	2.00	-2.00	0.00
6,200.00	0.61	248.11	6,092.63	-364.20	-906.64	977.06	2.00	-2.00	0.00
6,230.37	0.00	0.00	6,123.00	-364.26	-906.79	977.22	2.00	-2.00	368.45
Start 2010.00 hold at 6230.37 MD									
6,300.00	0.00	0.00	6,192.63	-364.26	-906.79	977.22	0.00	0.00	0.00
6,400.00	0.00	0.00	6,292.63	-364.26	-906.79	977.22	0.00	0.00	0.00
6,500.00	0.00	0.00	6,392.63	-364.26	-906.79	977.22	0.00	0.00	0.00
6,600.00	0.00	0.00	6,492.63	-364.26	-906.79	977.22	0.00	0.00	0.00
6,700.00	0.00	0.00	6,592.63	-364.26	-906.79	977.22	0.00	0.00	0.00
6,800.00	0.00	0.00	6,692.63	-364.26	-906.79	977.22	0.00	0.00	0.00
6,900.00	0.00	0.00	6,792.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,000.00	0.00	0.00	6,892.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,100.00	0.00	0.00	6,992.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,200.00	0.00	0.00	7,092.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,300.00	0.00	0.00	7,192.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,320.37	0.00	0.00	7,213.00	-364.26	-906.79	977.22	0.00	0.00	0.00
NIO									
7,400.00	0.00	0.00	7,292.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,500.00	0.00	0.00	7,392.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,600.00	0.00	0.00	7,492.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,645.37	0.00	0.00	7,538.00	-364.26	-906.79	977.22	0.00	0.00	0.00
CODELL									
7,700.00	0.00	0.00	7,592.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,735.37	0.00	0.00	7,628.00	-364.26	-906.79	977.22	0.00	0.00	0.00
GREENHORN									
7,800.00	0.00	0.00	7,692.63	-364.26	-906.79	977.22	0.00	0.00	0.00
7,900.00	0.00	0.00	7,792.63	-364.26	-906.79	977.22	0.00	0.00	0.00
8,000.00	0.00	0.00	7,892.63	-364.26	-906.79	977.22	0.00	0.00	0.00
8,090.37	0.00	0.00	7,983.00	-364.26	-906.79	977.22	0.00	0.00	0.00
JSAND									
8,100.00	0.00	0.00	7,992.63	-364.26	-906.79	977.22	0.00	0.00	0.00
8,200.00	0.00	0.00	8,092.63	-364.26	-906.79	977.22	0.00	0.00	0.00
8,240.37	0.00	0.00	8,133.00	-364.26	-906.79	977.22	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 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 13-35		
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 13-35(660 FSL 660 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)	
PBHL_BADDING 13-35	- plan hits target center	0.00	0.48	8,133.00	-364.25	-906.79	1,276,189.76	3,209,454.30	40° 5' 20.778 N 104° 45' 4.939 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 (°)	
4,359.44	4,290.00	PARKMAN				
7,320.37	7,213.00	NIO				
4,788.82	4,708.00	SUSSEX				
8,090.37	7,983.00	JSAND				
7,735.37	7,628.00	GREENHORN				
7,645.37	7,538.00	CODELL				

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	
1,961.15	1,955.29	-28.31	-70.48	Start 3608.07 hold at 1961.15 MD	
5,569.22	5,467.71	-335.95	-836.31	Start Drop -2.00	
6,230.37	6,123.00	-364.26	-906.79	Start 2010.00 hold at 6230.37 MD	
8,240.37	8,133.00	-364.26	-906.79	TD at 8240.37	