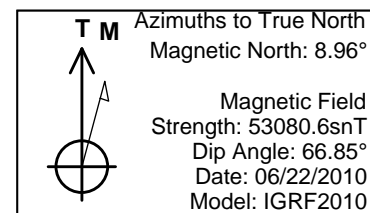
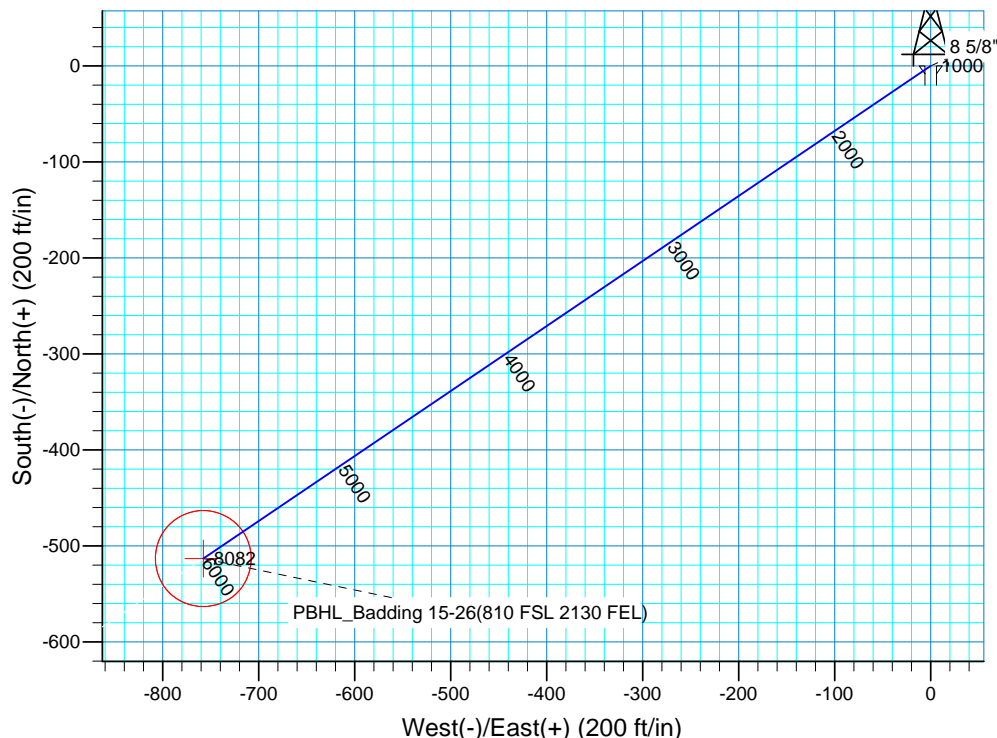
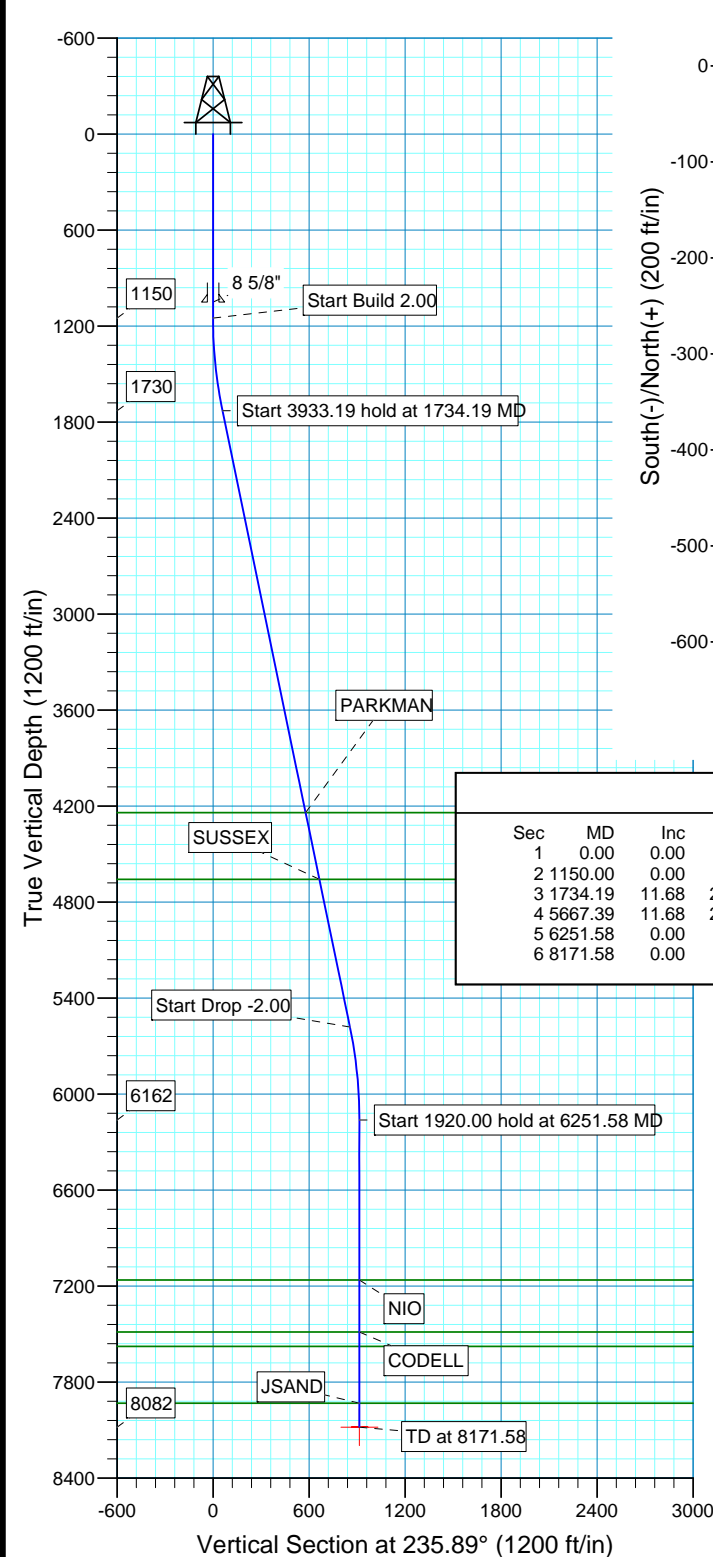


WELL DETAILS: P_Badding 15-26					
WELL @ 5082.00ft (Original Well Elev) 5067.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1282246.65	3212645.79	40° 6' 20.365 N	104° 44' 23.208 W



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	8082.00	-513.24	-757.78	1281726.93	3211892.45	40° 6' 15.293 N	104° 44' 32.960 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	1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00	
3	1734.19	11.68	235.89	1730.15	-33.29	-49.15	2.00	235.89	59.36	
4	5667.39	11.68	235.89	5581.85	-479.96	-708.63	0.00	0.00	855.87	
5	6251.58	0.00	0.00	6162.00	-513.24	-757.78	2.00	180.00	915.23	
6	8171.58	0.00	0.00	8082.00	-513.24	-757.78	0.00	0.00	915.23	PBHL_Badding 15-26(810 FSL 2130 FEL)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4241.00	4298.17	PARKMAN
4659.00	4725.01	SUSSEX
7162.00	7251.58	NIO
7487.00	7576.58	CODELL
7577.00	7666.58	GREENHORN
7932.00	8021.58	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 26 T2N R66W
System Datum:	Mean Sea Level
Local North:	True

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BADDING 20-26 PAD

P_Badding 15-26

P_Badding 15-26

Plan: PLAN #1 7-22-10 RHS

Standard Planning Report

22 July, 2010

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 15-26
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5082.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5082.00ft (Original Well Elev)
Site:	WELD_BADDING 20-26 PAD	North Reference:	True
Well:	P_Badding 15-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-26		
Design:	PLAN #1 7-22-10 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 20-26 PAD, SECTION 26 T2N R66W			
Site Position:		Northing:	1,282,246.75 ft	Latitude:	40° 6' 20.365 N
From:	Lat/Long	Easting:	3,212,655.87 ft	Longitude:	104° 44' 23.078 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.49 °

Well	P_Badding 15-26					
Well Position	+N-S	0.00 ft	Northing:	1,282,246.65 ft	Latitude:	40° 6' 20.365 N
	+E-W	0.00 ft	Easting:	3,212,645.79 ft	Longitude:	104° 44' 23.208 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,067.00 ft

Wellbore	P_Badding 15-26				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/22/2010	8.96	66.85	53,081

Design	PLAN #1 7-22-10 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	235.89

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	
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,734.19	11.68	235.89	1,730.15	-33.29	-49.15	2.00	2.00	0.00	235.89	
5,667.39	11.68	235.89	5,581.85	-479.96	-708.63	0.00	0.00	0.00	0.00	
6,251.58	0.00	0.00	6,162.00	-513.24	-757.78	2.00	-2.00	0.00	180.00	
8,171.58	0.00	0.00	8,082.00	-513.24	-757.78	0.00	0.00	0.00	0.00	PBHL_Badding 15-

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 15-26
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5082.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5082.00ft (Original Well Elev)
Site:	WELD_BADDING 20-26 PAD	North Reference:	True
Well:	P_Badding 15-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-26		
Design:	PLAN #1 7-22-10 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
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8"									
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
Start Build 2.00									
1,200.00	1.00	235.89	1,200.00	-0.24	-0.36	0.44	2.00	2.00	0.00
1,300.00	3.00	235.89	1,299.93	-2.20	-3.25	3.93	2.00	2.00	0.00
1,400.00	5.00	235.89	1,399.68	-6.11	-9.03	10.90	2.00	2.00	0.00
1,500.00	7.00	235.89	1,499.13	-11.97	-17.68	21.35	2.00	2.00	0.00
1,600.00	9.00	235.89	1,598.15	-19.78	-29.20	35.27	2.00	2.00	0.00
1,700.00	11.00	235.89	1,696.63	-29.52	-43.58	52.63	2.00	2.00	0.00
1,734.19	11.68	235.89	1,730.15	-33.29	-49.15	59.36	2.00	2.00	0.00
Start 3933.19 hold at 1734.19 MD									
1,800.00	11.68	235.89	1,794.60	-40.76	-60.18	72.69	0.00	0.00	0.00
1,900.00	11.68	235.89	1,892.52	-52.12	-76.95	92.94	0.00	0.00	0.00
2,000.00	11.68	235.89	1,990.45	-63.47	-93.72	113.19	0.00	0.00	0.00
2,100.00	11.68	235.89	2,088.38	-74.83	-110.48	133.44	0.00	0.00	0.00
2,200.00	11.68	235.89	2,186.31	-86.19	-127.25	153.69	0.00	0.00	0.00
2,300.00	11.68	235.89	2,284.24	-97.54	-144.02	173.94	0.00	0.00	0.00
2,400.00	11.68	235.89	2,382.16	-108.90	-160.78	194.19	0.00	0.00	0.00
2,500.00	11.68	235.89	2,480.09	-120.26	-177.55	214.44	0.00	0.00	0.00
2,600.00	11.68	235.89	2,578.02	-131.61	-194.32	234.69	0.00	0.00	0.00
2,700.00	11.68	235.89	2,675.95	-142.97	-211.09	254.94	0.00	0.00	0.00
2,800.00	11.68	235.89	2,773.88	-154.32	-227.85	275.20	0.00	0.00	0.00
2,900.00	11.68	235.89	2,871.80	-165.68	-244.62	295.45	0.00	0.00	0.00
3,000.00	11.68	235.89	2,969.73	-177.04	-261.39	315.70	0.00	0.00	0.00
3,100.00	11.68	235.89	3,067.66	-188.39	-278.15	335.95	0.00	0.00	0.00
3,200.00	11.68	235.89	3,165.59	-199.75	-294.92	356.20	0.00	0.00	0.00
3,300.00	11.68	235.89	3,263.52	-211.11	-311.69	376.45	0.00	0.00	0.00
3,400.00	11.68	235.89	3,361.44	-222.46	-328.46	396.70	0.00	0.00	0.00
3,500.00	11.68	235.89	3,459.37	-233.82	-345.22	416.95	0.00	0.00	0.00
3,600.00	11.68	235.89	3,557.30	-245.18	-361.99	437.20	0.00	0.00	0.00
3,700.00	11.68	235.89	3,655.23	-256.53	-378.76	457.46	0.00	0.00	0.00
3,800.00	11.68	235.89	3,753.16	-267.89	-395.52	477.71	0.00	0.00	0.00
3,900.00	11.68	235.89	3,851.08	-279.25	-412.29	497.96	0.00	0.00	0.00
4,000.00	11.68	235.89	3,949.01	-290.60	-429.06	518.21	0.00	0.00	0.00
4,100.00	11.68	235.89	4,046.94	-301.96	-445.83	538.46	0.00	0.00	0.00
4,200.00	11.68	235.89	4,144.87	-313.32	-462.59	558.71	0.00	0.00	0.00
4,298.17	11.68	235.89	4,241.00	-324.46	-479.05	578.59	0.00	0.00	0.00
PARKMAN									
4,300.00	11.68	235.89	4,242.80	-324.67	-479.36	578.96	0.00	0.00	0.00
4,400.00	11.68	235.89	4,340.72	-336.03	-496.13	599.21	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 15-26
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5082.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5082.00ft (Original Well Elev)
Site:	WELD_BADDING 20-26 PAD	North Reference:	True
Well:	P_Badding 15-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-26		
Design:	PLAN #1 7-22-10 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)
4,500.00	11.68	235.89	4,438.65	-347.38	-512.89	619.46	0.00	0.00	0.00
4,600.00	11.68	235.89	4,536.58	-358.74	-529.66	639.72	0.00	0.00	0.00
4,700.00	11.68	235.89	4,634.51	-370.10	-546.43	659.97	0.00	0.00	0.00
4,725.01	11.68	235.89	4,659.00	-372.94	-550.62	665.03	0.00	0.00	0.00
SUSSEX									
4,800.00	11.68	235.89	4,732.44	-381.45	-563.20	680.22	0.00	0.00	0.00
4,900.00	11.68	235.89	4,830.36	-392.81	-579.96	700.47	0.00	0.00	0.00
5,000.00	11.68	235.89	4,928.29	-404.17	-596.73	720.72	0.00	0.00	0.00
5,100.00	11.68	235.89	5,026.22	-415.52	-613.50	740.97	0.00	0.00	0.00
5,200.00	11.68	235.89	5,124.15	-426.88	-630.26	761.22	0.00	0.00	0.00
5,300.00	11.68	235.89	5,222.08	-438.24	-647.03	781.47	0.00	0.00	0.00
5,400.00	11.68	235.89	5,320.00	-449.59	-663.80	801.72	0.00	0.00	0.00
5,500.00	11.68	235.89	5,417.93	-460.95	-680.57	821.97	0.00	0.00	0.00
5,600.00	11.68	235.89	5,515.86	-472.31	-697.33	842.23	0.00	0.00	0.00
5,667.39	11.68	235.89	5,581.85	-479.96	-708.63	855.87	0.00	0.00	0.00
Start Drop -2.00									
5,700.00	11.03	235.89	5,613.83	-483.56	-713.95	862.30	2.00	-2.00	0.00
5,800.00	9.03	235.89	5,712.29	-493.33	-728.37	879.71	2.00	-2.00	0.00
5,900.00	7.03	235.89	5,811.31	-501.16	-739.94	893.68	2.00	-2.00	0.00
6,000.00	5.03	235.89	5,910.75	-507.05	-748.64	904.19	2.00	-2.00	0.00
6,100.00	3.03	235.89	6,010.49	-511.00	-754.46	911.22	2.00	-2.00	0.00
6,200.00	1.03	235.89	6,110.43	-512.98	-757.39	914.77	2.00	-2.00	0.00
6,251.58	0.00	0.00	6,162.00	-513.24	-757.78	915.23	2.00	-2.00	0.00
Start 1920.00 hold at 6251.58 MD									
6,300.00	0.00	0.00	6,210.42	-513.24	-757.78	915.23	0.00	0.00	0.00
6,400.00	0.00	0.00	6,310.42	-513.24	-757.78	915.23	0.00	0.00	0.00
6,500.00	0.00	0.00	6,410.42	-513.24	-757.78	915.23	0.00	0.00	0.00
6,600.00	0.00	0.00	6,510.42	-513.24	-757.78	915.23	0.00	0.00	0.00
6,700.00	0.00	0.00	6,610.42	-513.24	-757.78	915.23	0.00	0.00	0.00
6,800.00	0.00	0.00	6,710.42	-513.24	-757.78	915.23	0.00	0.00	0.00
6,900.00	0.00	0.00	6,810.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,000.00	0.00	0.00	6,910.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,100.00	0.00	0.00	7,010.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,200.00	0.00	0.00	7,110.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,251.58	0.00	0.00	7,162.00	-513.24	-757.78	915.23	0.00	0.00	0.00
NIO									
7,300.00	0.00	0.00	7,210.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,400.00	0.00	0.00	7,310.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,500.00	0.00	0.00	7,410.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,576.58	0.00	0.00	7,487.00	-513.24	-757.78	915.23	0.00	0.00	0.00
CODELL									
7,600.00	0.00	0.00	7,510.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,666.58	0.00	0.00	7,577.00	-513.24	-757.78	915.23	0.00	0.00	0.00
GREENHORN									
7,700.00	0.00	0.00	7,610.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,800.00	0.00	0.00	7,710.42	-513.24	-757.78	915.23	0.00	0.00	0.00
7,900.00	0.00	0.00	7,810.42	-513.24	-757.78	915.23	0.00	0.00	0.00
8,000.00	0.00	0.00	7,910.42	-513.24	-757.78	915.23	0.00	0.00	0.00
8,021.58	0.00	0.00	7,932.00	-513.24	-757.78	915.23	0.00	0.00	0.00
JSAND									
8,100.00	0.00	0.00	8,010.42	-513.24	-757.78	915.23	0.00	0.00	0.00
8,171.58	0.00	0.00	8,082.00	-513.24	-757.78	915.23	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 15-26
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5082.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5082.00ft (Original Well Elev)
Site:	WELD_BADDING 20-26 PAD	North Reference:	True
Well:	P_Badding 15-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-26		
Design:	PLAN #1 7-22-10 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 15-26(810 FSL 2130 FEL)									

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 15-26		0.00	0.00	8,082.00	-513.24	-757.78	1,281,726.93	3,211,892.45	40° 6' 15.293 N 104° 44' 32.960 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,050.00	1,050.00	8 5/8"	8.620	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,666.58	7,577.00	GREENHORN				
4,725.01	4,659.00	SUSSEX				
7,576.58	7,487.00	CODELL				
8,021.58	7,932.00	JSAND				
4,298.17	4,241.00	PARKMAN				
7,251.58	7,162.00	NIO				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,150.00	1,150.00	0.00	0.00	Start Build 2.00	
1,734.19	1,730.15	-33.29	-49.15	Start 3933.19 hold at 1734.19 MD	
5,667.39	5,581.85	-479.96	-708.63	Start Drop -2.00	
6,251.58	6,162.00	-513.24	-757.78	Start 1920.00 hold at 6251.58 MD	
8,171.58	8,082.00	-513.24	-757.78	TD at 8171.58	