

WELL DETAILS: P_BADDING 35-35

WELL @ 5123.00ft (Original Well Elev) 5108.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1276562.48	3210407.77	40° 5' 24.382 N	104° 44' 52.631 W

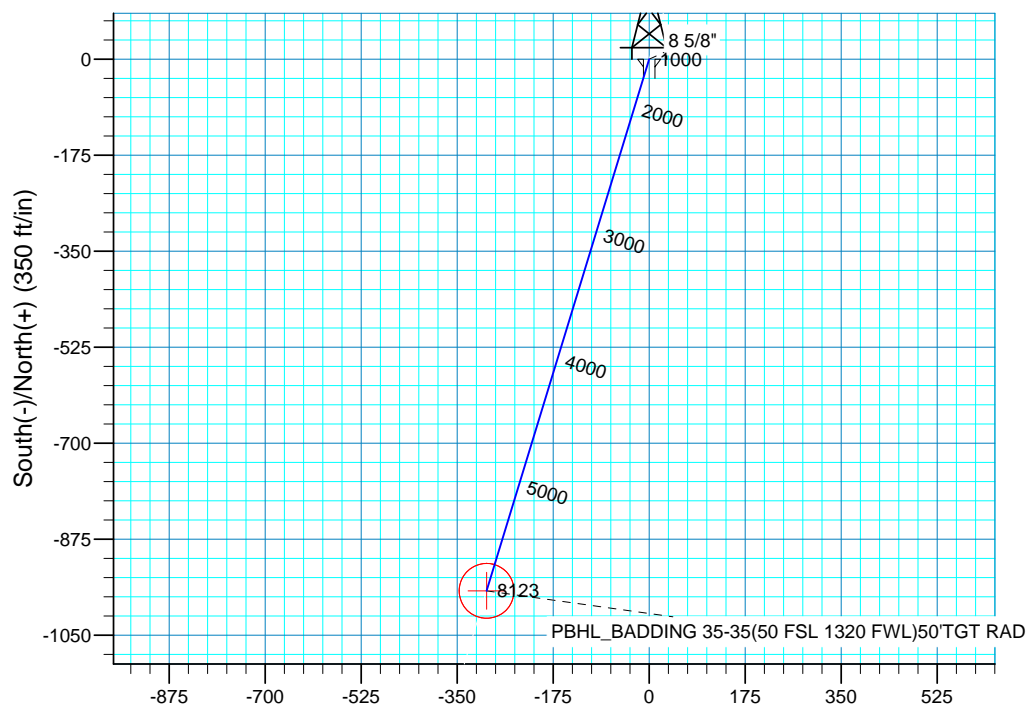
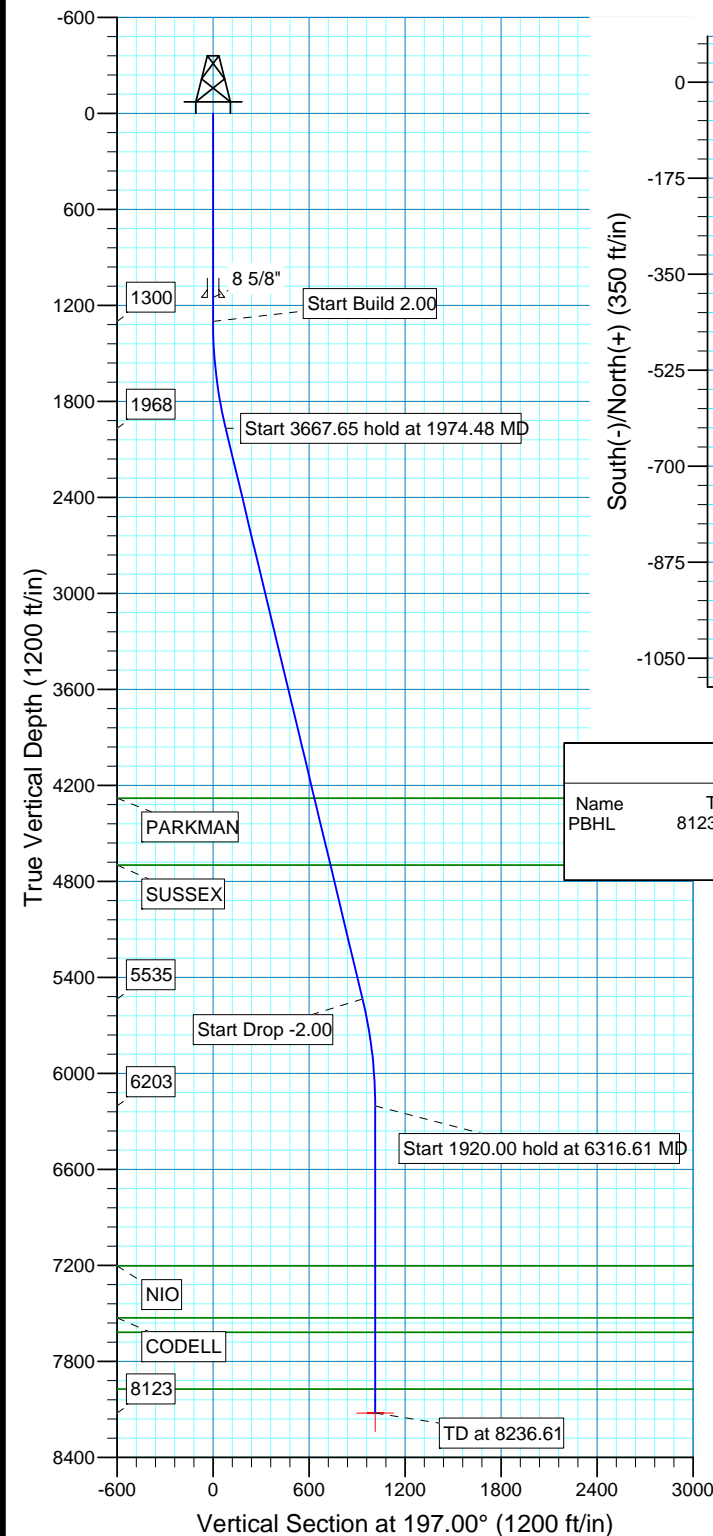
SECTION DETAILS

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	1974.48	13.49	197.00	1968.27	-75.58	-23.10	2.00	197.00	79.03	
4	5642.13	13.49	197.00	5534.73	-893.76	-273.20	0.00	0.00	934.58	
5	6316.61	0.00	0.00	6203.00	-969.34	-296.30	2.00	180.00	1013.61	
6	8236.61	0.00	0.00	8123.00	-969.34	-296.30	0.00	0.00	1013.61	PBHL_BADDING 35-35(50 FSL 1320 FWL)50'TGT RAD



Azimuths to True North
Magnetic North: 8.99°

Magnetic Field
Strength: 53140.5nT
Dip Angle: 66.86°
Date: 12/31/2009
Model: IGRF200510



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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8123.00	-969.34	-296.30	1275590.67	3210119.70	40° 5' 14.802 N	104° 44' 56.443 W	Circle (Radius: 50.00)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4280.00	4351.80	PARKMAN
4698.00	4781.66	SUSSEX
7203.00	7316.61	NIO
7528.00	7641.61	CODELL
7618.00	7731.61	GREENHORN
7973.00	8086.61	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 35-35

P_BADDING 35-35

Plan: PLAN #1 7-16-10 RHS

Standard Planning Report

20 July, 2010

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 35-35		
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 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 35-35, 1017 FSL 1617 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,276,562.48 ft	Latitude:	40° 5' 24.382 N
	+E-W	0.00 ft	Easting:	3,210,407.77 ft	Longitude:	104° 44' 52.631 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,108.00 ft

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

Design	PLAN #1 7-16-10 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	197.00

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	
1,974.48	13.49	197.00	1,968.27	-75.58	-23.10	2.00	2.00	0.00	197.00	
5,642.13	13.49	197.00	5,534.73	-893.76	-273.20	0.00	0.00	0.00	0.00	
6,316.61	0.00	0.00	6,203.00	-969.34	-296.30	2.00	-2.00	0.00	180.00	
8,236.61	0.00	0.00	8,123.00	-969.34	-296.30	0.00	0.00	0.00	0.00	PBHL_BADDING 3

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 35-35		
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	197.00	1,399.98	-1.67	-0.51	1.75	2.00	2.00	0.00
1,500.00	4.00	197.00	1,499.84	-6.67	-2.04	6.98	2.00	2.00	0.00
1,600.00	6.00	197.00	1,599.45	-15.01	-4.59	15.69	2.00	2.00	0.00
1,700.00	8.00	197.00	1,698.70	-26.66	-8.15	27.88	2.00	2.00	0.00
1,800.00	10.00	197.00	1,797.47	-41.62	-12.72	43.52	2.00	2.00	0.00
1,900.00	12.00	197.00	1,895.62	-59.87	-18.30	62.60	2.00	2.00	0.00
1,974.48	13.49	197.00	1,968.27	-75.58	-23.10	79.03	2.00	2.00	0.00
Start 3667.65 hold at 1974.48 MD									
2,000.00	13.49	197.00	1,993.08	-81.27	-24.84	84.99	0.00	0.00	0.00
2,100.00	13.49	197.00	2,090.32	-103.58	-31.66	108.31	0.00	0.00	0.00
2,200.00	13.49	197.00	2,187.56	-125.89	-38.48	131.64	0.00	0.00	0.00
2,300.00	13.49	197.00	2,284.81	-148.20	-45.30	154.97	0.00	0.00	0.00
2,400.00	13.49	197.00	2,382.05	-170.51	-52.12	178.29	0.00	0.00	0.00
2,500.00	13.49	197.00	2,479.29	-192.81	-58.94	201.62	0.00	0.00	0.00
2,600.00	13.49	197.00	2,576.53	-215.12	-65.76	224.95	0.00	0.00	0.00
2,700.00	13.49	197.00	2,673.77	-237.43	-72.58	248.27	0.00	0.00	0.00
2,800.00	13.49	197.00	2,771.01	-259.74	-79.40	271.60	0.00	0.00	0.00
2,900.00	13.49	197.00	2,868.25	-282.05	-86.21	294.93	0.00	0.00	0.00
3,000.00	13.49	197.00	2,965.49	-304.35	-93.03	318.25	0.00	0.00	0.00
3,100.00	13.49	197.00	3,062.74	-326.66	-99.85	341.58	0.00	0.00	0.00
3,200.00	13.49	197.00	3,159.98	-348.97	-106.67	364.91	0.00	0.00	0.00
3,300.00	13.49	197.00	3,257.22	-371.28	-113.49	388.24	0.00	0.00	0.00
3,400.00	13.49	197.00	3,354.46	-393.58	-120.31	411.56	0.00	0.00	0.00
3,500.00	13.49	197.00	3,451.70	-415.89	-127.13	434.89	0.00	0.00	0.00
3,600.00	13.49	197.00	3,548.94	-438.20	-133.95	458.22	0.00	0.00	0.00
3,700.00	13.49	197.00	3,646.18	-460.51	-140.77	481.54	0.00	0.00	0.00
3,800.00	13.49	197.00	3,743.42	-482.82	-147.59	504.87	0.00	0.00	0.00
3,900.00	13.49	197.00	3,840.67	-505.12	-154.40	528.20	0.00	0.00	0.00
4,000.00	13.49	197.00	3,937.91	-527.43	-161.22	551.52	0.00	0.00	0.00
4,100.00	13.49	197.00	4,035.15	-549.74	-168.04	574.85	0.00	0.00	0.00
4,200.00	13.49	197.00	4,132.39	-572.05	-174.86	598.18	0.00	0.00	0.00
4,300.00	13.49	197.00	4,229.63	-594.36	-181.68	621.50	0.00	0.00	0.00
4,351.80	13.49	197.00	4,280.00	-605.91	-185.21	633.59	0.00	0.00	0.00
PARKMAN									
4,400.00	13.49	197.00	4,326.87	-616.66	-188.50	644.83	0.00	0.00	0.00
4,500.00	13.49	197.00	4,424.11	-638.97	-195.32	668.16	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 35-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 35-35		
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	13.49	197.00	4,521.35	-661.28	-202.14	691.48	0.00	0.00	0.00
4,700.00	13.49	197.00	4,618.60	-683.59	-208.96	714.81	0.00	0.00	0.00
4,781.66	13.49	197.00	4,698.00	-701.80	-214.52	733.86	0.00	0.00	0.00
SUSSEX									
4,800.00	13.49	197.00	4,715.84	-705.90	-215.77	738.14	0.00	0.00	0.00
4,900.00	13.49	197.00	4,813.08	-728.20	-222.59	761.46	0.00	0.00	0.00
5,000.00	13.49	197.00	4,910.32	-750.51	-229.41	784.79	0.00	0.00	0.00
5,100.00	13.49	197.00	5,007.56	-772.82	-236.23	808.12	0.00	0.00	0.00
5,200.00	13.49	197.00	5,104.80	-795.13	-243.05	831.45	0.00	0.00	0.00
5,300.00	13.49	197.00	5,202.04	-817.44	-249.87	854.77	0.00	0.00	0.00
5,400.00	13.49	197.00	5,299.28	-839.74	-256.69	878.10	0.00	0.00	0.00
5,500.00	13.49	197.00	5,396.53	-862.05	-263.51	901.43	0.00	0.00	0.00
5,600.00	13.49	197.00	5,493.77	-884.36	-270.33	924.75	0.00	0.00	0.00
5,642.13	13.49	197.00	5,534.73	-893.76	-273.20	934.58	0.00	0.00	0.00
Start Drop -2.00									
5,700.00	12.33	197.00	5,591.14	-906.12	-276.98	947.51	2.00	-2.00	0.00
5,800.00	10.33	197.00	5,689.19	-924.91	-282.72	967.16	2.00	-2.00	0.00
5,900.00	8.33	197.00	5,787.86	-940.42	-287.46	983.37	2.00	-2.00	0.00
6,000.00	6.33	197.00	5,887.03	-952.62	-291.19	996.14	2.00	-2.00	0.00
6,100.00	4.33	197.00	5,986.60	-961.51	-293.91	1,005.43	2.00	-2.00	0.00
6,200.00	2.33	197.00	6,086.42	-967.07	-295.61	1,011.24	2.00	-2.00	0.00
6,300.00	0.33	197.00	6,186.39	-969.29	-296.29	1,013.57	2.00	-2.00	0.00
6,316.61	0.00	0.00	6,203.00	-969.34	-296.30	1,013.61	2.00	-2.00	981.37
Start 1920.00 hold at 6316.61 MD									
6,400.00	0.00	0.00	6,286.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
6,500.00	0.00	0.00	6,386.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
6,600.00	0.00	0.00	6,486.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
6,700.00	0.00	0.00	6,586.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
6,800.00	0.00	0.00	6,686.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
6,900.00	0.00	0.00	6,786.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,000.00	0.00	0.00	6,886.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,100.00	0.00	0.00	6,986.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,200.00	0.00	0.00	7,086.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,300.00	0.00	0.00	7,186.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,316.61	0.00	0.00	7,203.00	-969.34	-296.30	1,013.61	0.00	0.00	0.00
NIO									
7,400.00	0.00	0.00	7,286.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,500.00	0.00	0.00	7,386.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,600.00	0.00	0.00	7,486.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,641.61	0.00	0.00	7,528.00	-969.34	-296.30	1,013.61	0.00	0.00	0.00
CODELL									
7,700.00	0.00	0.00	7,586.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,731.61	0.00	0.00	7,618.00	-969.34	-296.30	1,013.61	0.00	0.00	0.00
GREENHORN									
7,800.00	0.00	0.00	7,686.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
7,900.00	0.00	0.00	7,786.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
8,000.00	0.00	0.00	7,886.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
8,086.61	0.00	0.00	7,973.00	-969.34	-296.30	1,013.61	0.00	0.00	0.00
JSAND									
8,100.00	0.00	0.00	7,986.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
8,200.00	0.00	0.00	8,086.39	-969.34	-296.30	1,013.61	0.00	0.00	0.00
8,236.61	0.00	0.00	8,123.00	-969.34	-296.30	1,013.61	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 35-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 35-35		
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)
PBHL_BADDING 35-35(50 FSL 1320 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)	Latitude Longitude
PBHL_BADDING 35-35	- plan hits target center - Circle (radius 50.00)	0.00	0.49	8,123.00	-969.34	-296.30	1,275,590.67	3,210,119.70	40° 5' 14.802 N 104° 44' 56.443 W

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 (°)	
4,781.66	4,698.00	SUSSEX				
7,316.61	7,203.00	NIO				
7,641.61	7,528.00	CODELL				
7,731.61	7,618.00	GREENHORN				
8,086.61	7,973.00	JSAND				
4,351.80	4,280.00	PARKMAN				

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	
1,974.48	1,968.27	-75.58	-23.10	Start 3667.65 hold at 1974.48 MD	
5,642.13	5,534.73	-893.76	-273.20	Start Drop -2.00	
6,316.61	6,203.00	-969.34	-296.30	Start 1920.00 hold at 6316.61 MD	
8,236.61	8,123.00	-969.34	-296.30	TD at 8236.61	