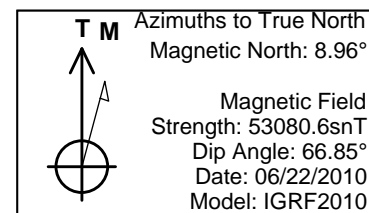
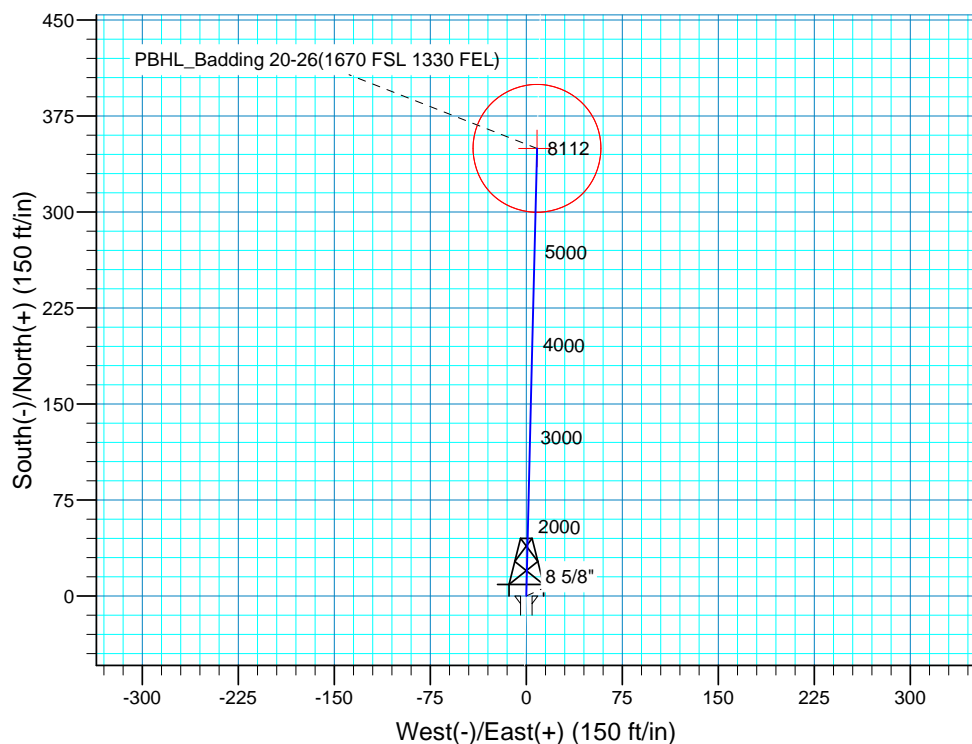
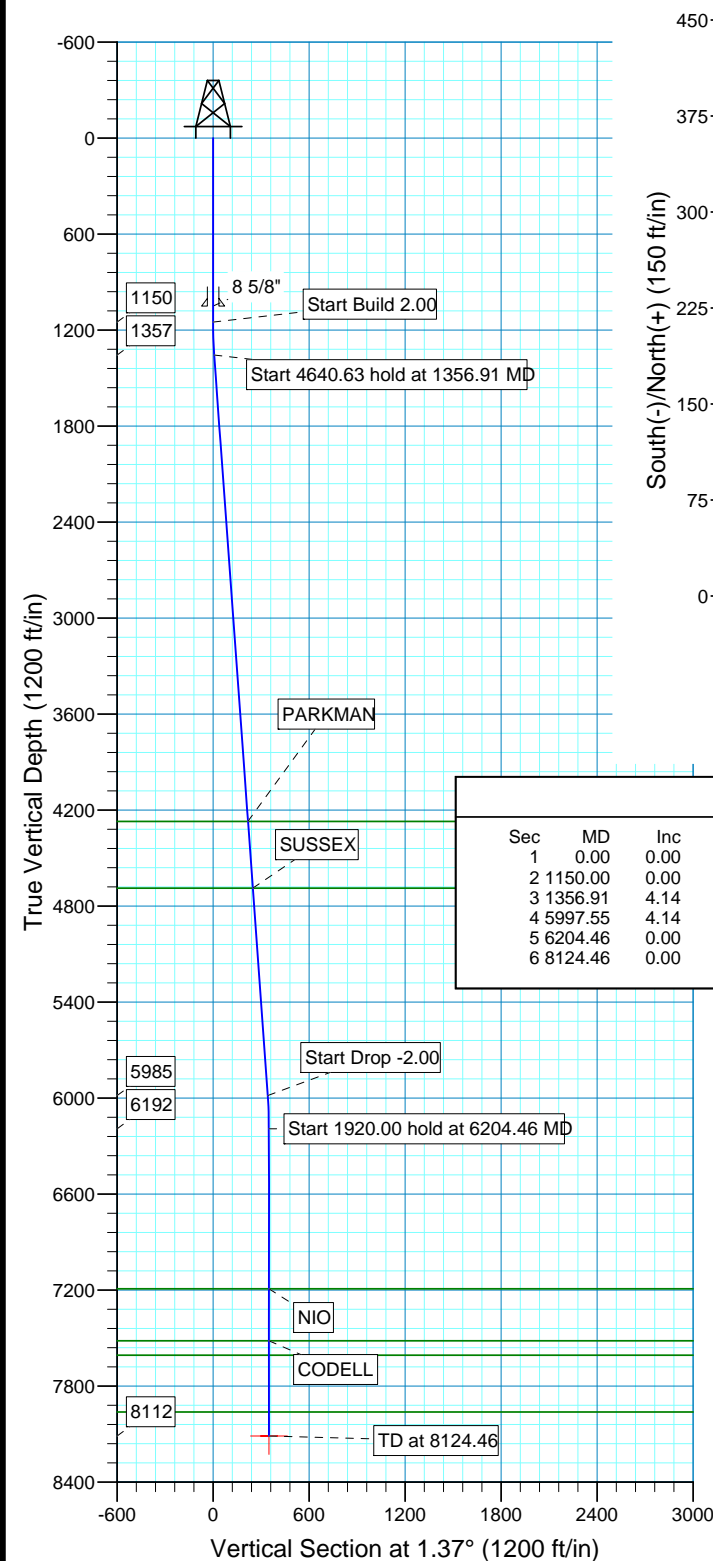


WELL DETAILS: P_Badding 20-26					
WELL @ 5082.00ft (Original Well Elev) 5067.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1282247.27	3212676.00	40° 6' 20.369 N	104° 44' 22.819 W



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	8112.00	349.72	8.39	1282597.05	3212681.39	40° 6' 23.825 N	104° 44' 22.711 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	1356.91	4.14	1.37	1356.73	7.47	0.18	2.00	1.37	7.47	
4	5997.55	4.14	1.37	5985.27	342.25	8.21	0.00	0.00	342.35	
5	6204.46	0.00	0.00	6192.00	349.72	8.39	2.00	180.00	349.82	
6	8124.46	0.00	0.00	8112.00	349.72	8.39	0.00	0.00	349.82	PBHL_Badding 20-26(1670 FSL 1330 FEL)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4271.00	4278.80	PARKMAN
4689.00	4697.89	SUSSEX
7192.00	7204.46	NIO
7517.00	7529.46	CODELL
7607.00	7619.46	GREENHORN
7962.00	7974.46	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 20-26

P_Badding 20-26

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 20-26
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 20-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 20-26		
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 20-26					
Well Position	+N-S	0.00 ft	Northing:	1,282,247.27 ft	Latitude:	40° 6' 20.369 N
	+E-W	0.00 ft	Easting:	3,212,676.00 ft	Longitude:	104° 44' 22.819 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,067.00 ft

Wellbore	P_Badding 20-26				
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	1.37	

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	
1,356.91	4.14	1.37	1,356.73	7.47	0.18	2.00	2.00	0.00	1.37	
5,997.55	4.14	1.37	5,985.27	342.25	8.21	0.00	0.00	0.00	0.00	
6,204.46	0.00	0.00	6,192.00	349.72	8.39	2.00	-2.00	0.00	180.00	
8,124.46	0.00	0.00	8,112.00	349.72	8.39	0.00	0.00	0.00	0.00	PBHL_Badding 20-

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 20-26
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 20-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 20-26		
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	1.37	1,200.00	0.44	0.01	0.44	2.00	2.00	0.00
1,300.00	3.00	1.37	1,299.93	3.92	0.09	3.93	2.00	2.00	0.00
1,356.91	4.14	1.37	1,356.73	7.47	0.18	7.47	2.00	2.00	0.00
Start 4640.63 hold at 1356.91 MD									
1,400.00	4.14	1.37	1,399.71	10.58	0.25	10.58	0.00	0.00	0.00
1,500.00	4.14	1.37	1,499.45	17.79	0.43	17.79	0.00	0.00	0.00
1,600.00	4.14	1.37	1,599.19	25.00	0.60	25.01	0.00	0.00	0.00
1,700.00	4.14	1.37	1,698.93	32.22	0.77	32.23	0.00	0.00	0.00
1,800.00	4.14	1.37	1,798.66	39.43	0.95	39.44	0.00	0.00	0.00
1,900.00	4.14	1.37	1,898.40	46.65	1.12	46.66	0.00	0.00	0.00
2,000.00	4.14	1.37	1,998.14	53.86	1.29	53.88	0.00	0.00	0.00
2,100.00	4.14	1.37	2,097.88	61.07	1.47	61.09	0.00	0.00	0.00
2,200.00	4.14	1.37	2,197.62	68.29	1.64	68.31	0.00	0.00	0.00
2,300.00	4.14	1.37	2,297.36	75.50	1.81	75.53	0.00	0.00	0.00
2,400.00	4.14	1.37	2,397.10	82.72	1.98	82.74	0.00	0.00	0.00
2,500.00	4.14	1.37	2,496.84	89.93	2.16	89.96	0.00	0.00	0.00
2,600.00	4.14	1.37	2,596.58	97.15	2.33	97.17	0.00	0.00	0.00
2,700.00	4.14	1.37	2,696.32	104.36	2.50	104.39	0.00	0.00	0.00
2,800.00	4.14	1.37	2,796.06	111.57	2.68	111.61	0.00	0.00	0.00
2,900.00	4.14	1.37	2,895.80	118.79	2.85	118.82	0.00	0.00	0.00
3,000.00	4.14	1.37	2,995.54	126.00	3.02	126.04	0.00	0.00	0.00
3,100.00	4.14	1.37	3,095.28	133.22	3.20	133.26	0.00	0.00	0.00
3,200.00	4.14	1.37	3,195.01	140.43	3.37	140.47	0.00	0.00	0.00
3,300.00	4.14	1.37	3,294.75	147.65	3.54	147.69	0.00	0.00	0.00
3,400.00	4.14	1.37	3,394.49	154.86	3.72	154.90	0.00	0.00	0.00
3,500.00	4.14	1.37	3,494.23	162.07	3.89	162.12	0.00	0.00	0.00
3,600.00	4.14	1.37	3,593.97	169.29	4.06	169.34	0.00	0.00	0.00
3,700.00	4.14	1.37	3,693.71	176.50	4.24	176.55	0.00	0.00	0.00
3,800.00	4.14	1.37	3,793.45	183.72	4.41	183.77	0.00	0.00	0.00
3,900.00	4.14	1.37	3,893.19	190.93	4.58	190.99	0.00	0.00	0.00
4,000.00	4.14	1.37	3,992.93	198.15	4.75	198.20	0.00	0.00	0.00
4,100.00	4.14	1.37	4,092.67	205.36	4.93	205.42	0.00	0.00	0.00
4,200.00	4.14	1.37	4,192.41	212.57	5.10	212.64	0.00	0.00	0.00
4,278.80	4.14	1.37	4,271.00	218.26	5.24	218.32	0.00	0.00	0.00
PARKMAN									
4,300.00	4.14	1.37	4,292.15	219.79	5.27	219.85	0.00	0.00	0.00
4,400.00	4.14	1.37	4,391.89	227.00	5.45	227.07	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 20-26
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 20-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 20-26		
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	4.14	1.37	4,491.63	234.22	5.62	234.28	0.00	0.00	0.00
4,600.00	4.14	1.37	4,591.36	241.43	5.79	241.50	0.00	0.00	0.00
4,697.89	4.14	1.37	4,689.00	248.49	5.96	248.56	0.00	0.00	0.00
SUSSEX									
4,700.00	4.14	1.37	4,691.10	248.65	5.97	248.72	0.00	0.00	0.00
4,800.00	4.14	1.37	4,790.84	255.86	6.14	255.93	0.00	0.00	0.00
4,900.00	4.14	1.37	4,890.58	263.07	6.31	263.15	0.00	0.00	0.00
5,000.00	4.14	1.37	4,990.32	270.29	6.49	270.37	0.00	0.00	0.00
5,100.00	4.14	1.37	5,090.06	277.50	6.66	277.58	0.00	0.00	0.00
5,200.00	4.14	1.37	5,189.80	284.72	6.83	284.80	0.00	0.00	0.00
5,300.00	4.14	1.37	5,289.54	291.93	7.00	292.01	0.00	0.00	0.00
5,400.00	4.14	1.37	5,389.28	299.15	7.18	299.23	0.00	0.00	0.00
5,500.00	4.14	1.37	5,489.02	306.36	7.35	306.45	0.00	0.00	0.00
5,600.00	4.14	1.37	5,588.76	313.57	7.52	313.66	0.00	0.00	0.00
5,700.00	4.14	1.37	5,688.50	320.79	7.70	320.88	0.00	0.00	0.00
5,800.00	4.14	1.37	5,788.24	328.00	7.87	328.10	0.00	0.00	0.00
5,900.00	4.14	1.37	5,887.98	335.22	8.04	335.31	0.00	0.00	0.00
5,997.55	4.14	1.37	5,985.27	342.25	8.21	342.35	0.00	0.00	0.00
Start Drop -2.00									
6,000.00	4.09	1.37	5,987.71	342.43	8.22	342.53	2.00	-2.00	0.00
6,100.00	2.09	1.37	6,087.56	347.82	8.35	347.92	2.00	-2.00	0.00
6,200.00	0.09	1.37	6,187.54	349.72	8.39	349.82	2.00	-2.00	0.00
6,204.46	0.00	0.00	6,192.00	349.72	8.39	349.82	2.00	-2.00	0.00
Start 1920.00 hold at 6204.46 MD									
6,300.00	0.00	0.00	6,287.54	349.72	8.39	349.82	0.00	0.00	0.00
6,400.00	0.00	0.00	6,387.54	349.72	8.39	349.82	0.00	0.00	0.00
6,500.00	0.00	0.00	6,487.54	349.72	8.39	349.82	0.00	0.00	0.00
6,600.00	0.00	0.00	6,587.54	349.72	8.39	349.82	0.00	0.00	0.00
6,700.00	0.00	0.00	6,687.54	349.72	8.39	349.82	0.00	0.00	0.00
6,800.00	0.00	0.00	6,787.54	349.72	8.39	349.82	0.00	0.00	0.00
6,900.00	0.00	0.00	6,887.54	349.72	8.39	349.82	0.00	0.00	0.00
7,000.00	0.00	0.00	6,987.54	349.72	8.39	349.82	0.00	0.00	0.00
7,100.00	0.00	0.00	7,087.54	349.72	8.39	349.82	0.00	0.00	0.00
7,200.00	0.00	0.00	7,187.54	349.72	8.39	349.82	0.00	0.00	0.00
7,204.46	0.00	0.00	7,192.00	349.72	8.39	349.82	0.00	0.00	0.00
NIO									
7,300.00	0.00	0.00	7,287.54	349.72	8.39	349.82	0.00	0.00	0.00
7,400.00	0.00	0.00	7,387.54	349.72	8.39	349.82	0.00	0.00	0.00
7,500.00	0.00	0.00	7,487.54	349.72	8.39	349.82	0.00	0.00	0.00
7,529.46	0.00	0.00	7,517.00	349.72	8.39	349.82	0.00	0.00	0.00
CODELL									
7,600.00	0.00	0.00	7,587.54	349.72	8.39	349.82	0.00	0.00	0.00
7,619.46	0.00	0.00	7,607.00	349.72	8.39	349.82	0.00	0.00	0.00
GREENHORN									
7,700.00	0.00	0.00	7,687.54	349.72	8.39	349.82	0.00	0.00	0.00
7,800.00	0.00	0.00	7,787.54	349.72	8.39	349.82	0.00	0.00	0.00
7,900.00	0.00	0.00	7,887.54	349.72	8.39	349.82	0.00	0.00	0.00
7,974.46	0.00	0.00	7,962.00	349.72	8.39	349.82	0.00	0.00	0.00
JSAND									
8,000.00	0.00	0.00	7,987.54	349.72	8.39	349.82	0.00	0.00	0.00
8,100.00	0.00	0.00	8,087.54	349.72	8.39	349.82	0.00	0.00	0.00
8,124.46	0.00	0.00	8,112.00	349.72	8.39	349.82	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 20-26
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 20-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 20-26		
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 20-26(1670 FSL 1330 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 20-26	- plan hits target center	0.00	0.00	8,112.00	349.72	8.39	1,282,597.05	3,212,681.39	40° 6' 23.825 N 104° 44' 22.711 W
	- 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 (°)
4,278.80	4,271.00	PARKMAN			
7,529.46	7,517.00	CODELL			
7,619.46	7,607.00	GREENHORN			
4,697.89	4,689.00	SUSSEX			
7,974.46	7,962.00	JSAND			
7,204.46	7,192.00	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
1,356.91	1,356.73	7.47	0.18	Start 4640.63 hold at 1356.91 MD
5,997.55	5,985.27	342.25	8.21	Start Drop -2.00
6,204.46	6,192.00	349.72	8.39	Start 1920.00 hold at 6204.46 MD
8,124.46	8,112.00	349.72	8.39	TD at 8124.46