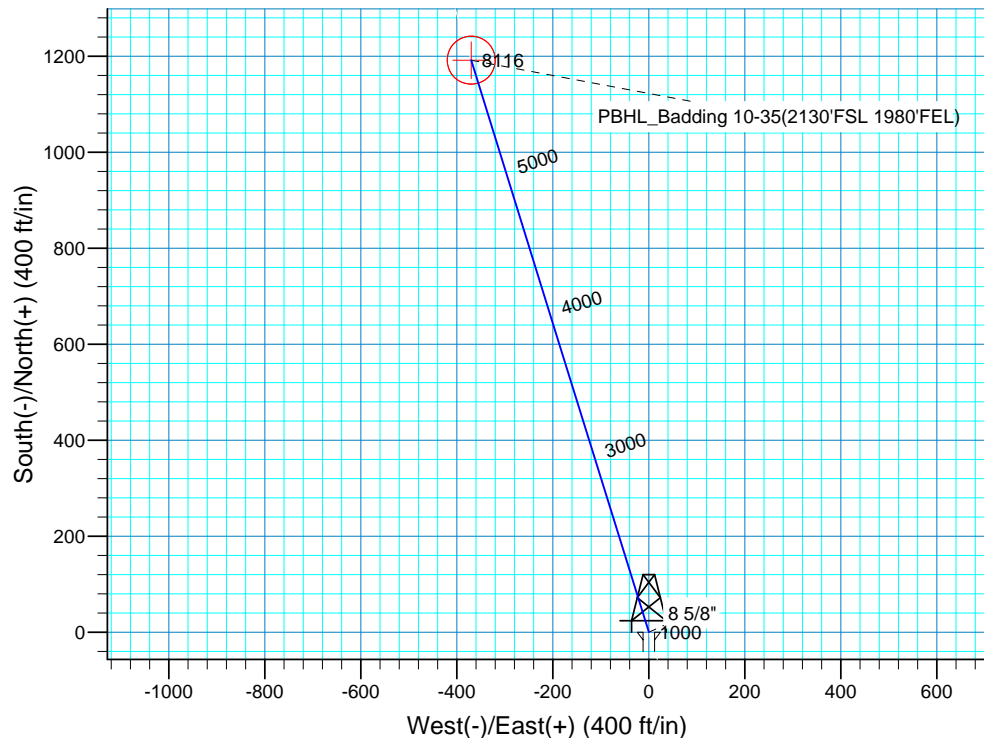
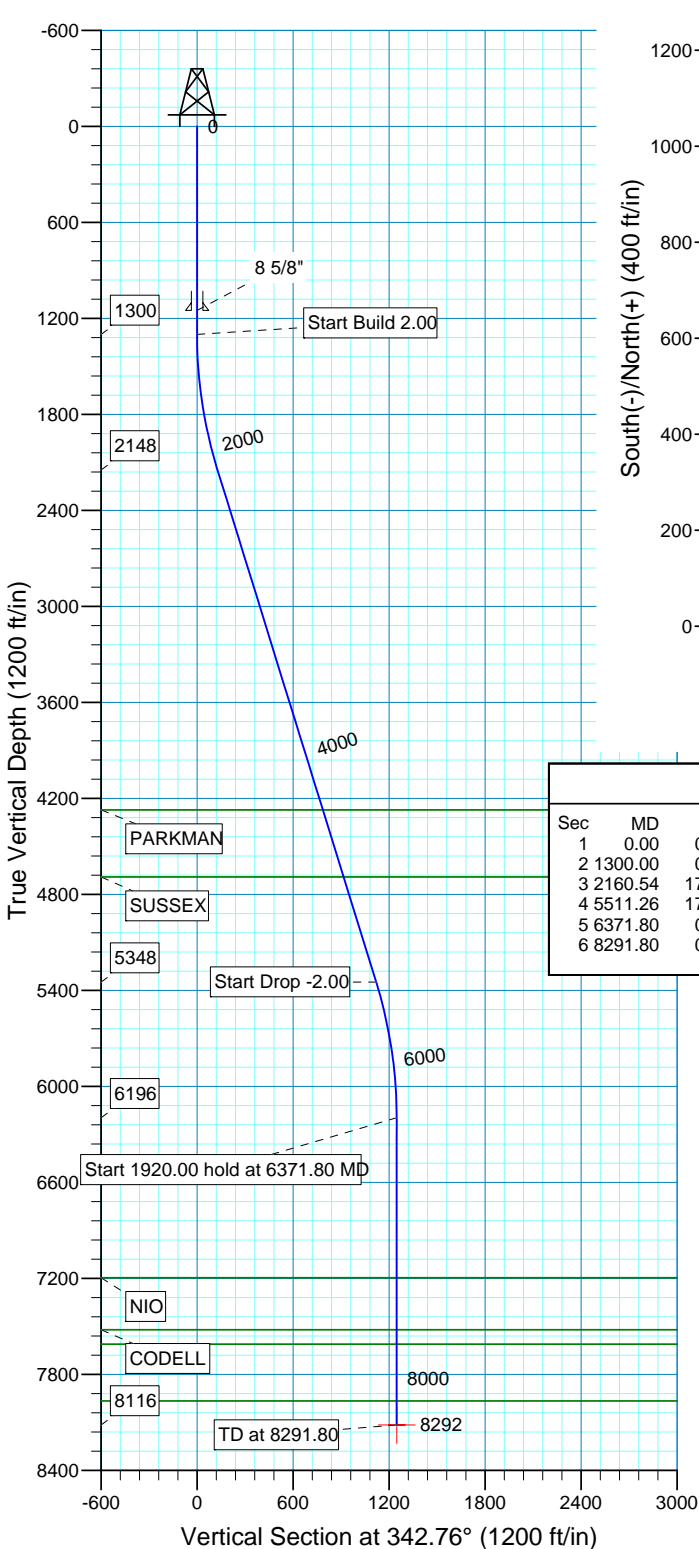


WELL DETAILS: P_Badding 10-35					
GL 5086' & RKB 15' @ 5101.00ft (ASSUMED) 5086.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1276514.78	3212465.22	40° 5' 23.737 N	104° 44' 26.164 W

T M Azimuths to True North
 Magnetic North: 8.91°
 Magnetic Field
 Strength: 53085.7snT
 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	8116.00	1191.95	-369.86	1277703.52	3212085.17	40° 5' 35.516 N	104° 44' 30.923 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	2160.54	17.21	342.76	2147.66	122.52	-38.02	2.00	342.76	128.28	
4	5511.26	17.21	342.76	5348.34	1069.42	-331.84	0.00	0.00	1119.72	
5	6371.80	0.00	0.00	6196.00	1191.93	-369.86	2.00	180.00	1248.00	
6	8291.80	0.00	0.00	8116.00	1191.93	-369.86	0.00	0.00	1248.00	PBHL_Badding 10-35(2130'FSL 1980'

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4273.00	4385.51	PARKMAN
4691.00	4823.11	SUSSEX
7196.00	7371.80	NIO
7521.00	7696.80	CODELL
7611.00	7786.80	GREENHORN
7966.00	8141.80	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:	SEC 35 T2N R66
System Datum:	Mean Sea Level
Local North:	No north reference data is available



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_Badding 20-35 Pad

P_Badding 10-35

P_Badding 10-35

Plan: Plan #1 7-16-10 RHS

Standard Planning Report

18 July, 2010



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 10-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 10-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 10-35		
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 20-35 Pad, SEC 35 T2N R66				
Site Position:		Northing:	1,276,531.97 ft	Latitude:	40° 5' 23.903 N
From:	Lat/Long	Easting:	3,212,512.08 ft	Longitude:	104° 44' 25.559 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.49 °

Well	P_Badding 10-35, 935' FSL 1612' FEL					
Well Position	+N/-S	0.00 ft	Northing:	1,276,514.78 ft	Latitude:	40° 5' 23.737 N
	+E/-W	0.00 ft	Easting:	3,212,465.22 ft	Longitude:	104° 44' 26.164 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,086.00 ft

Wellbore	P_Badding 10-35				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/16/10	8.91	66.84	53,086

Design	Plan #1 7-16-10 RHS				
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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	342.76	

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	
2,160.54	17.21	342.76	2,147.66	122.52	-38.02	2.00	2.00	0.00	342.76	
5,511.26	17.21	342.76	5,348.34	1,069.42	-331.84	0.00	0.00	0.00	0.00	
6,371.80	0.00	0.00	6,196.00	1,191.93	-369.86	2.00	-2.00	0.00	180.00	
8,291.80	0.00	0.00	8,116.00	1,191.93	-369.86	0.00	0.00	0.00	0.00	PBHL_Badding 10-

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 10-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 10-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 10-35		
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	342.76	1,399.98	1.67	-0.52	1.75	2.00	2.00	0.00
1,500.00	4.00	342.76	1,499.84	6.66	-2.07	6.98	2.00	2.00	0.00
1,600.00	6.00	342.76	1,599.45	14.99	-4.65	15.69	2.00	2.00	0.00
1,700.00	8.00	342.76	1,698.70	26.63	-8.26	27.88	2.00	2.00	0.00
1,800.00	10.00	342.76	1,797.47	41.57	-12.90	43.52	2.00	2.00	0.00
1,900.00	12.00	342.76	1,895.62	59.79	-18.55	62.60	2.00	2.00	0.00
2,000.00	14.00	342.76	1,993.06	81.27	-25.22	85.10	2.00	2.00	0.00
2,100.00	16.00	342.76	2,089.64	105.99	-32.89	110.98	2.00	2.00	0.00
2,160.54	17.21	342.76	2,147.66	122.52	-38.02	128.28	2.00	2.00	0.00
Start 3350.72 hold at 2160.54 MD									
2,200.00	17.21	342.76	2,185.35	133.67	-41.48	139.95	0.00	0.00	0.00
2,300.00	17.21	342.76	2,280.87	161.93	-50.25	169.54	0.00	0.00	0.00
2,400.00	17.21	342.76	2,376.39	190.19	-59.01	199.13	0.00	0.00	0.00
2,500.00	17.21	342.76	2,471.92	218.45	-67.78	228.72	0.00	0.00	0.00
2,600.00	17.21	342.76	2,567.44	246.71	-76.55	258.31	0.00	0.00	0.00
2,700.00	17.21	342.76	2,662.96	274.96	-85.32	287.90	0.00	0.00	0.00
2,800.00	17.21	342.76	2,758.48	303.22	-94.09	317.49	0.00	0.00	0.00
2,900.00	17.21	342.76	2,854.01	331.48	-102.86	347.08	0.00	0.00	0.00
3,000.00	17.21	342.76	2,949.53	359.74	-111.63	376.67	0.00	0.00	0.00
3,100.00	17.21	342.76	3,045.05	388.00	-120.40	406.25	0.00	0.00	0.00
3,200.00	17.21	342.76	3,140.57	416.26	-129.17	435.84	0.00	0.00	0.00
3,300.00	17.21	342.76	3,236.09	444.52	-137.94	465.43	0.00	0.00	0.00
3,400.00	17.21	342.76	3,331.62	472.78	-146.70	495.02	0.00	0.00	0.00
3,500.00	17.21	342.76	3,427.14	501.04	-155.47	524.61	0.00	0.00	0.00
3,600.00	17.21	342.76	3,522.66	529.30	-164.24	554.20	0.00	0.00	0.00
3,700.00	17.21	342.76	3,618.18	557.56	-173.01	583.79	0.00	0.00	0.00
3,800.00	17.21	342.76	3,713.71	585.82	-181.78	613.38	0.00	0.00	0.00
3,900.00	17.21	342.76	3,809.23	614.08	-190.55	642.97	0.00	0.00	0.00
4,000.00	17.21	342.76	3,904.75	642.34	-199.32	672.55	0.00	0.00	0.00
4,100.00	17.21	342.76	4,000.27	670.60	-208.09	702.14	0.00	0.00	0.00
4,200.00	17.21	342.76	4,095.79	698.86	-216.86	731.73	0.00	0.00	0.00
4,300.00	17.21	342.76	4,191.32	727.12	-225.63	761.32	0.00	0.00	0.00
4,385.51	17.21	342.76	4,273.00	751.29	-233.12	786.62	0.00	0.00	0.00
PARKMAN									
4,400.00	17.21	342.76	4,286.84	755.38	-234.39	790.91	0.00	0.00	0.00
4,500.00	17.21	342.76	4,382.36	783.64	-243.16	820.50	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 10-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 10-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 10-35		
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	17.21	342.76	4,477.88	811.90	-251.93	850.09	0.00	0.00	0.00
4,700.00	17.21	342.76	4,573.41	840.16	-260.70	879.68	0.00	0.00	0.00
4,800.00	17.21	342.76	4,668.93	868.42	-269.47	909.27	0.00	0.00	0.00
4,823.11	17.21	342.76	4,691.00	874.95	-271.50	916.10	0.00	0.00	0.00
SUSSEX									
4,900.00	17.21	342.76	4,764.45	896.68	-278.24	938.85	0.00	0.00	0.00
5,000.00	17.21	342.76	4,859.97	924.94	-287.01	968.44	0.00	0.00	0.00
5,100.00	17.21	342.76	4,955.49	953.20	-295.78	998.03	0.00	0.00	0.00
5,200.00	17.21	342.76	5,051.02	981.46	-304.55	1,027.62	0.00	0.00	0.00
5,300.00	17.21	342.76	5,146.54	1,009.72	-313.32	1,057.21	0.00	0.00	0.00
5,400.00	17.21	342.76	5,242.06	1,037.98	-322.08	1,086.80	0.00	0.00	0.00
5,500.00	17.21	342.76	5,337.58	1,066.24	-330.85	1,116.39	0.00	0.00	0.00
5,511.26	17.21	342.76	5,348.34	1,069.42	-331.84	1,119.72	0.00	0.00	0.00
Start Drop -2.00									
5,600.00	15.44	342.76	5,433.50	1,093.24	-339.23	1,144.66	2.00	-2.00	0.00
5,700.00	13.44	342.76	5,530.34	1,117.05	-346.62	1,169.59	2.00	-2.00	0.00
5,800.00	11.44	342.76	5,627.99	1,137.61	-353.00	1,191.12	2.00	-2.00	0.00
5,900.00	9.44	342.76	5,726.33	1,154.91	-358.37	1,209.24	2.00	-2.00	0.00
6,000.00	7.44	342.76	5,825.24	1,168.92	-362.72	1,223.91	2.00	-2.00	0.00
6,100.00	5.44	342.76	5,924.60	1,179.63	-366.04	1,235.11	2.00	-2.00	0.00
6,200.00	3.44	342.76	6,024.30	1,187.02	-368.33	1,242.85	2.00	-2.00	0.00
6,300.00	1.44	342.76	6,124.20	1,191.07	-369.59	1,247.10	2.00	-2.00	0.00
6,371.80	0.00	0.00	6,196.00	1,191.93	-369.86	1,248.00	2.00	-2.00	0.00
Start 1920.00 hold at 6371.80 MD									
6,400.00	0.00	0.00	6,224.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,324.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,424.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,524.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,624.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,724.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,000.00	0.00	0.00	6,824.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,100.00	0.00	0.00	6,924.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,024.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,124.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,371.80	0.00	0.00	7,196.00	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
NIO									
7,400.00	0.00	0.00	7,224.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,324.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,424.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,696.80	0.00	0.00	7,521.00	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
CODELL									
7,700.00	0.00	0.00	7,524.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,786.80	0.00	0.00	7,611.00	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
GREENHORN									
7,800.00	0.00	0.00	7,624.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,724.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
8,000.00	0.00	0.00	7,824.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
8,100.00	0.00	0.00	7,924.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
8,141.80	0.00	0.00	7,966.00	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
JSAND									
8,200.00	0.00	0.00	8,024.20	1,191.93	-369.86	1,248.00	0.00	0.00	0.00
8,291.80	0.00	0.00	8,116.00	1,191.93	-369.86	1,248.00	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 10-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 10-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 10-35		
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 10-35(2130°FSL 1980°FEL)									

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 10-35		0.00	0.00	8,116.00	1,191.95	-369.86	1,277,703.52	3,212,085.17	40° 5' 35.516 N	104° 44' 30.923 W
- plan hits target center										
- Circle (radius 50.00)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,150.00	1,150.00	8 5/8"	8.62	11.00	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,385.51	4,273.00	PARKMAN				
7,696.80	7,521.00	CODELL				
7,371.80	7,196.00	NIO				
8,141.80	7,966.00	JSAND				
7,786.80	7,611.00	GREENHORN				
4,823.11	4,691.00	SUSSEX				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
1,300.00	1,300.00	0.00	0.00	Start Build 2.00	
2,160.54	2,147.66	122.52	-38.02	Start 3350.72 hold at 2160.54 MD	
5,511.26	5,348.34	1,069.42	-331.84	Start Drop -2.00	
6,371.80	6,196.00	1,191.93	-369.86	Start 1920.00 hold at 6371.80 MD	
8,291.80	8,116.00	1,191.93	-369.86	TD at 8291.80	