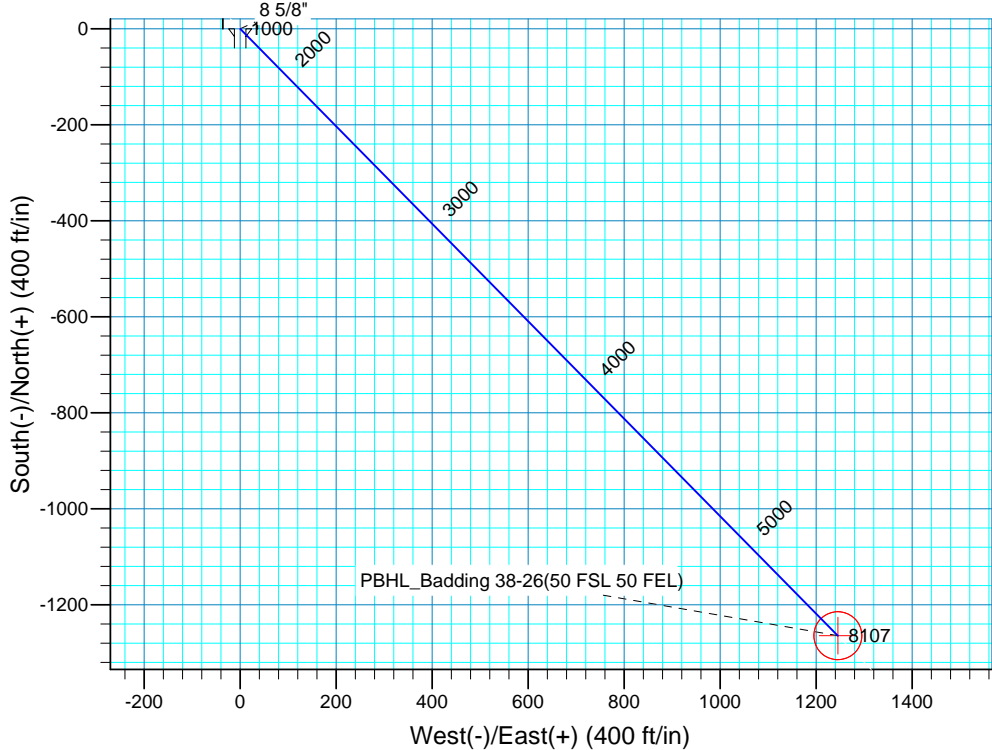
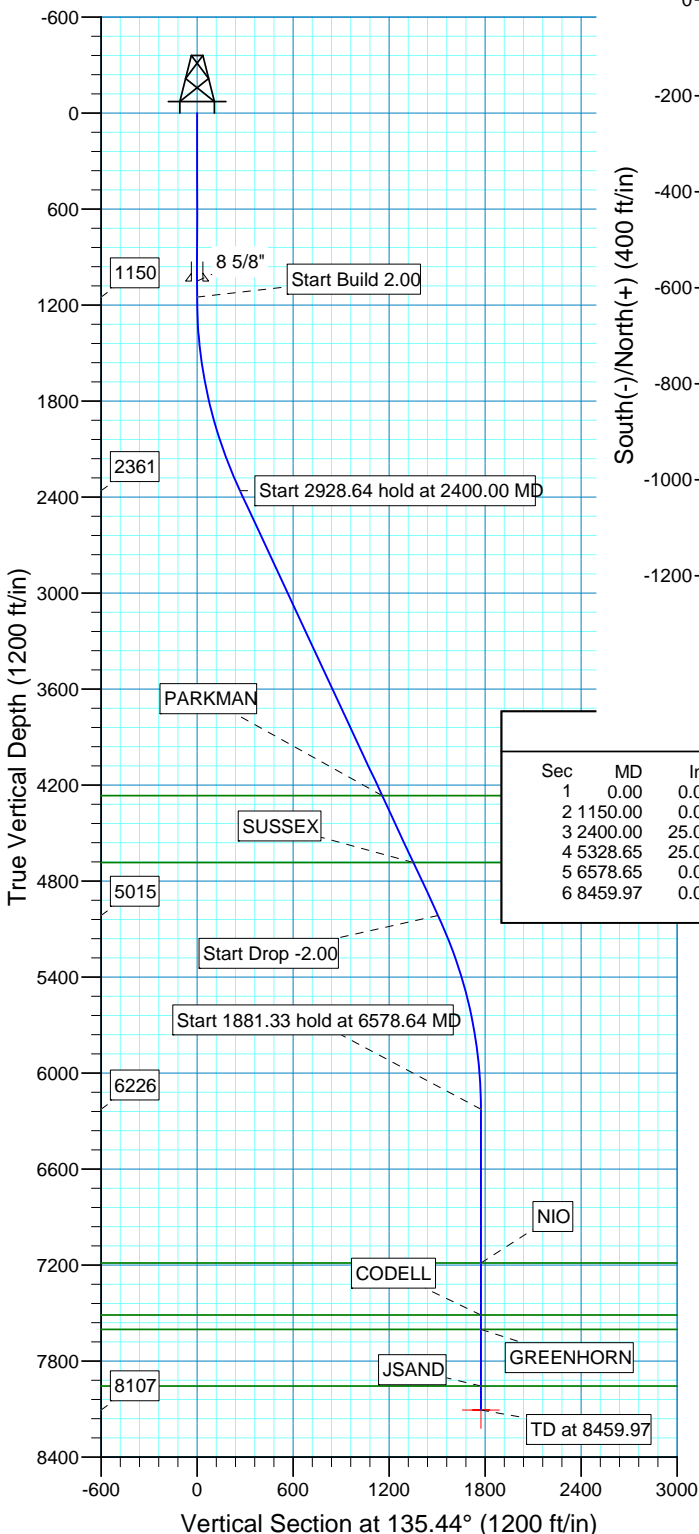


WELL DETAILS: P_Badding 38-26					
WELL @ 5082.00ft (Original Well Elev) 5067.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1282247.71	3212725.79	40° 6' 20.369 N	104° 44' 22.178 W

T M Azimuths to True North
 Magnetic North: 8.96°
 Magnetic Field
 Strength: 53080.6snT
 Dip Angle: 66.85°
 Date: 06/22/2010
 Model: IGRF2010

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8107.00	-1264.38	1245.10	1280994.06	3213981.68	40° 6' 7.873 N	104° 44' 6.155 W	Circle (Radius: 50.00)



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	2400.00	25.00	135.44	2360.71	-191.25	188.33	2.00	135.44	268.41	
4	5328.65	25.00	135.44	5014.97	-1073.13	1056.77	0.00	0.00	1506.11	
5	6578.65	0.00	0.00	6225.68	-1264.38	1245.10	2.00	180.00	1774.52	
6	8459.97	0.00	0.00	8107.00	-1264.38	1245.10	0.00	0.00	1774.52	PBHL_Badding 38-26(50 FSL 50 FEL)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4266.00	4502.25	PARKMAN
4684.00	4963.46	SUSSEX
7187.00	7539.97	NIO
7512.00	7864.97	CODELL
7602.00	7954.97	GREENHORN
7957.00	8309.97	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



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BADDING 20-26 PAD

P_Badding 38-26

P_Badding 38-26

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 38-26
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 38-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 38-26		
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 38-26					
Well Position	+N/-S	0.00 ft	Northing:	1,282,247.71 ft	Latitude:	40° 6' 20.369 N
	+E/-W	0.00 ft	Easting:	3,212,725.79 ft	Longitude:	104° 44' 22.178 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,067.00 ft

Wellbore	P_Badding 38-26				
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	135.44	

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	
2,400.00	25.00	135.44	2,360.71	-191.25	188.33	2.00	2.00	0.00	135.44	
5,328.65	25.00	135.44	5,014.97	-1,073.13	1,056.77	0.00	0.00	0.00	0.00	
6,578.65	0.00	0.00	6,225.68	-1,264.38	1,245.10	2.00	-2.00	0.00	180.00	
8,459.97	0.00	0.00	8,107.00	-1,264.38	1,245.10	0.00	0.00	0.00	0.00	PBHL_Badding 38-

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 38-26
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 38-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 38-26		
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	135.44	1,200.00	-0.31	0.31	0.44	2.00	2.00	0.00
1,300.00	3.00	135.44	1,299.93	-2.80	2.75	3.93	2.00	2.00	0.00
1,400.00	5.00	135.44	1,399.68	-7.77	7.65	10.90	2.00	2.00	0.00
1,500.00	7.00	135.44	1,499.13	-15.21	14.98	21.35	2.00	2.00	0.00
1,600.00	9.00	135.44	1,598.15	-25.13	24.75	35.27	2.00	2.00	0.00
1,700.00	11.00	135.44	1,696.63	-37.50	36.93	52.63	2.00	2.00	0.00
1,800.00	13.00	135.44	1,794.44	-52.32	51.52	73.42	2.00	2.00	0.00
1,900.00	15.00	135.44	1,891.46	-69.55	68.49	97.62	2.00	2.00	0.00
2,000.00	17.00	135.44	1,987.58	-89.19	87.83	125.18	2.00	2.00	0.00
2,100.00	19.00	135.44	2,082.68	-111.21	109.51	156.08	2.00	2.00	0.00
2,200.00	21.00	135.44	2,176.65	-135.58	133.51	190.28	2.00	2.00	0.00
2,300.00	23.00	135.44	2,269.36	-162.27	159.79	227.74	2.00	2.00	0.00
2,400.00	25.00	135.44	2,360.71	-191.25	188.33	268.41	2.00	2.00	0.00
Start 2928.64 hold at 2400.00 MD									
2,500.00	25.00	135.44	2,451.34	-221.36	217.98	310.67	0.00	0.00	0.00
2,600.00	25.00	135.44	2,541.97	-251.47	247.64	352.93	0.00	0.00	0.00
2,700.00	25.00	135.44	2,632.60	-281.58	277.29	395.19	0.00	0.00	0.00
2,800.00	25.00	135.44	2,723.24	-311.70	306.94	437.46	0.00	0.00	0.00
2,900.00	25.00	135.44	2,813.87	-341.81	336.60	479.72	0.00	0.00	0.00
3,000.00	25.00	135.44	2,904.50	-371.92	366.25	521.98	0.00	0.00	0.00
3,100.00	25.00	135.44	2,995.13	-402.03	395.90	564.24	0.00	0.00	0.00
3,200.00	25.00	135.44	3,085.76	-432.14	425.56	606.50	0.00	0.00	0.00
3,300.00	25.00	135.44	3,176.39	-462.26	455.21	648.76	0.00	0.00	0.00
3,400.00	25.00	135.44	3,267.02	-492.37	484.86	691.03	0.00	0.00	0.00
3,500.00	25.00	135.44	3,357.65	-522.48	514.51	733.29	0.00	0.00	0.00
3,600.00	25.00	135.44	3,448.28	-552.59	544.17	775.55	0.00	0.00	0.00
3,700.00	25.00	135.44	3,538.91	-582.71	573.82	817.81	0.00	0.00	0.00
3,800.00	25.00	135.44	3,629.54	-612.82	603.47	860.07	0.00	0.00	0.00
3,900.00	25.00	135.44	3,720.17	-642.93	633.13	902.34	0.00	0.00	0.00
4,000.00	25.00	135.44	3,810.80	-673.04	662.78	944.60	0.00	0.00	0.00
4,100.00	25.00	135.44	3,901.44	-703.16	692.43	986.86	0.00	0.00	0.00
4,200.00	25.00	135.44	3,992.07	-733.27	722.09	1,029.12	0.00	0.00	0.00
4,300.00	25.00	135.44	4,082.70	-763.38	751.74	1,071.38	0.00	0.00	0.00
4,400.00	25.00	135.44	4,173.33	-793.49	781.39	1,113.64	0.00	0.00	0.00
4,500.00	25.00	135.44	4,263.96	-823.60	811.05	1,155.91	0.00	0.00	0.00
4,502.25	25.00	135.44	4,266.00	-824.28	811.71	1,156.86	0.00	0.00	0.00
PARKMAN									

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 38-26
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 38-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 38-26		
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)
4,600.00	25.00	135.44	4,354.59	-853.72	840.70	1,198.17	0.00	0.00	0.00
4,700.00	25.00	135.44	4,445.22	-883.83	870.35	1,240.43	0.00	0.00	0.00
4,800.00	25.00	135.44	4,535.85	-913.94	900.01	1,282.69	0.00	0.00	0.00
4,900.00	25.00	135.44	4,626.48	-944.05	929.66	1,324.95	0.00	0.00	0.00
4,963.46	25.00	135.44	4,684.00	-963.16	948.48	1,351.78	0.00	0.00	0.00
SUSSEX									
5,000.00	25.00	135.44	4,717.11	-974.17	959.31	1,367.22	0.00	0.00	0.00
5,100.00	25.00	135.44	4,807.74	-1,004.28	988.97	1,409.48	0.00	0.00	0.00
5,200.00	25.00	135.44	4,898.37	-1,034.39	1,018.62	1,451.74	0.00	0.00	0.00
5,300.00	25.00	135.44	4,989.00	-1,064.50	1,048.27	1,494.00	0.00	0.00	0.00
5,328.64	25.00	135.44	5,014.96	-1,073.13	1,056.76	1,506.10	0.00	0.00	0.00
Start Drop -2.00									
5,328.65	25.00	135.44	5,014.97	-1,073.13	1,056.77	1,506.11	0.00	0.00	0.00
5,400.00	23.57	135.44	5,080.00	-1,094.04	1,077.36	1,535.45	2.00	-2.00	0.00
5,500.00	21.57	135.44	5,172.34	-1,121.39	1,104.29	1,573.84	2.00	-2.00	0.00
5,600.00	19.57	135.44	5,265.96	-1,146.43	1,128.95	1,608.98	2.00	-2.00	0.00
5,700.00	17.57	135.44	5,360.74	-1,169.12	1,151.29	1,640.83	2.00	-2.00	0.00
5,800.00	15.57	135.44	5,456.58	-1,189.44	1,171.31	1,669.35	2.00	-2.00	0.00
5,900.00	13.57	135.44	5,553.36	-1,207.37	1,188.96	1,694.51	2.00	-2.00	0.00
6,000.00	11.57	135.44	5,650.96	-1,222.88	1,204.23	1,716.28	2.00	-2.00	0.00
6,100.00	9.57	135.44	5,749.26	-1,235.95	1,217.11	1,734.62	2.00	-2.00	0.00
6,200.00	7.57	135.44	5,848.13	-1,246.57	1,227.56	1,749.53	2.00	-2.00	0.00
6,300.00	5.57	135.44	5,947.47	-1,254.73	1,235.60	1,760.98	2.00	-2.00	0.00
6,400.00	3.57	135.44	6,047.15	-1,260.41	1,241.19	1,768.95	2.00	-2.00	0.00
6,500.00	1.57	135.44	6,147.04	-1,263.61	1,244.34	1,773.44	2.00	-2.00	0.00
6,578.64	0.00	135.44	6,225.67	-1,264.38	1,245.10	1,774.52	2.00	-2.00	0.00
Start 1881.33 hold at 6578.64 MD									
6,578.65	0.00	0.00	6,225.68	-1,264.38	1,245.10	1,774.52	2.00	-2.00	0.00
6,600.00	0.00	0.00	6,247.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
6,700.00	0.00	0.00	6,347.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
6,800.00	0.00	0.00	6,447.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
6,900.00	0.00	0.00	6,547.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,000.00	0.00	0.00	6,647.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,100.00	0.00	0.00	6,747.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,200.00	0.00	0.00	6,847.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,300.00	0.00	0.00	6,947.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,400.00	0.00	0.00	7,047.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,500.00	0.00	0.00	7,147.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,539.97	0.00	0.00	7,187.00	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
NIO									
7,600.00	0.00	0.00	7,247.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,700.00	0.00	0.00	7,347.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,800.00	0.00	0.00	7,447.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,864.97	0.00	0.00	7,512.00	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
CODELL									
7,900.00	0.00	0.00	7,547.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
7,954.97	0.00	0.00	7,602.00	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
GREENHORN									
8,000.00	0.00	0.00	7,647.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
8,100.00	0.00	0.00	7,747.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
8,200.00	0.00	0.00	7,847.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
8,300.00	0.00	0.00	7,947.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 38-26
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 38-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 38-26		
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)
8,309.97	0.00	0.00	7,957.00	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
JSAND									
8,400.00	0.00	0.00	8,047.03	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
8,459.97	0.00	0.00	8,107.00	-1,264.38	1,245.10	1,774.52	0.00	0.00	0.00
TD at 8459.97 - PBHL_Badding 38-26(50 FSL 50 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 38-26		0.00	0.00	8,107.00	-1,264.38	1,245.10	1,280,994.06	3,213,981.68	40° 6' 7.873 N	104° 44' 6.155 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 (°)
4,502.25	4,266.00	PARKMAN			
7,864.97	7,512.00	CODELL			
4,963.46	4,684.00	SUSSEX			
8,309.97	7,957.00	JSAND			
7,539.97	7,187.00	NIO			
7,954.97	7,602.00	GREENHORN			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,150.00	1,150.00	0.00	0.00	Start Build 2.00
2,400.00	2,360.71	-191.25	188.33	Start 2928.64 hold at 2400.00 MD
5,328.64	5,014.96	-1,073.13	1,056.76	Start Drop -2.00
6,578.64	6,225.67	-1,264.38	1,245.10	Start 1881.33 hold at 6578.64 MD
8,459.97	8,107.00	-1,264.38	1,245.10	TD at 8459.97