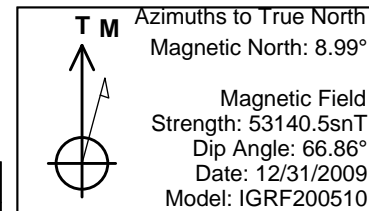
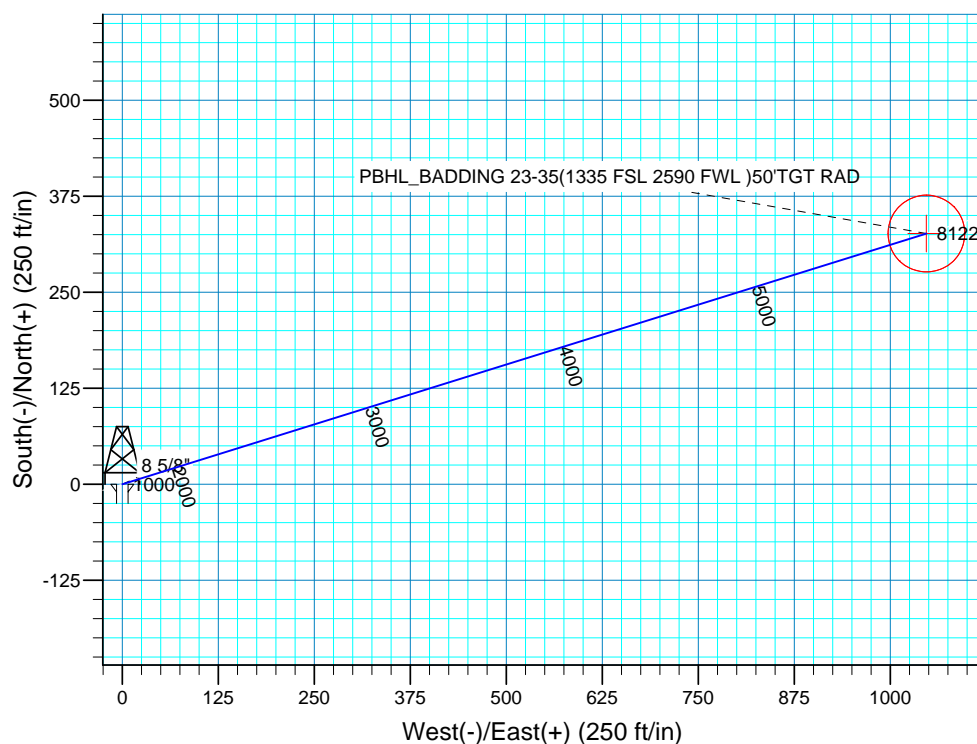
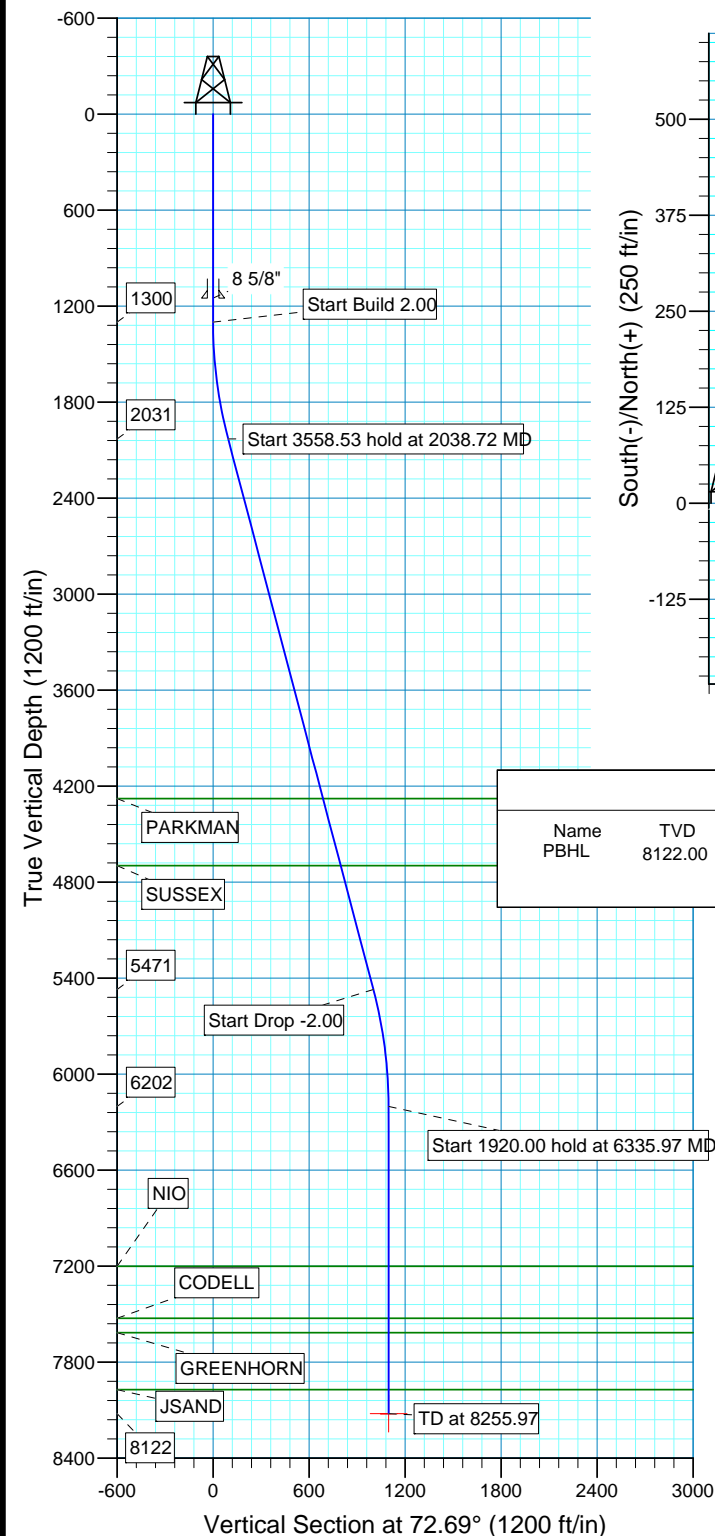


WELL DETAILS: P_BADDING 23-35					
WELL @ 5123.00ft (Original Well Elev) 5108.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1276563.11	3210438.54	40° 5' 24.385 N	104° 44' 52.235 W



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	2038.72	14.77	72.69	2030.56	28.19	90.43	2.00	72.69	94.72	
4	5597.25	14.77	72.69	5471.44	298.23	956.79	0.00	0.00	1002.19	
5	6335.97	0.00	0.00	6202.00	326.42	1047.22	2.00	180.00	1096.91	
6	8255.97	0.00	0.00	8122.00	326.42	1047.22	0.00	0.00	1096.91	PBHL_BADDING 23-35(1335 FSL 2590 FWL )50'TGT RAD



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	8122.00	326.42	1047.22	1276898.39	3211482.95	40° 5' 27.611 N	104° 44' 38.760 W	Circle (Radius: 50.00)	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4279.00	4364.04	PARKMAN
4697.00	4796.33	SUSSEX
7202.00	7335.97	NIO
7527.00	7660.97	CODELL
7617.00	7750.97	GREENHORN
7972.00	8105.97	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 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 23-35**

**P\_BADDING 23-35**

**Plan: PLAN #1 7-19-10 RHS**

## **Standard Planning Report**

**20 July, 2010**

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_BADDING 23-35
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5123.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5123.00ft (Original Well Elev)
<b>Site:</b>	WELD_BADDING 19-35 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_BADDING 23-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_BADDING 23-35		
<b>Design:</b>	PLAN #1 7-19-10 RHS		

<b>Project</b>	COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		WELD_BADDING 19-35 PAD, SECTION 35 T2N R66W			
Site Position:		Northing:		1,276,562.14 ft	
From:	Lat/Long	Easting:		3,210,367.76 ft	
Position Uncertainty:		0.00 ft		Slot Radius:	
				in	
		Grid Convergence:		0.49 °	

Well	P_BADDING 23-35, 1017 FSL 1647 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,276,563.11 ft	Latitude:	40° 5' 24.385 N
	+E-W	0.00 ft	Easting:	3,210,438.54 ft	Longitude:	104° 44' 52.235 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,108.00 ft

<b>Wellbore</b>	P_BADDING 23-35				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	8.99	66.86	53,141

<b>Design</b>	PLAN #1 7-19-10 RHS			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	72.69

<b>Plan Sections</b>										
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	
2,038.72	14.77	72.69	2,030.56	28.19	90.43	2.00	2.00	0.00	72.69	
5,597.25	14.77	72.69	5,471.44	298.23	956.79	0.00	0.00	0.00	0.00	
6,335.97	0.00	0.00	6,202.00	326.42	1,047.22	2.00	-2.00	0.00	180.00	
8,255.97	0.00	0.00	8,122.00	326.42	1,047.22	0.00	0.00	0.00	0.00	PBHL_BADDING 2

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_BADDING 23-35
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5123.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5123.00ft (Original Well Elev)
<b>Site:</b>	WELD_BADDING 19-35 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_BADDING 23-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_BADDING 23-35		
<b>Design:</b>	PLAN #1 7-19-10 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
<b>8 5/8"</b>									
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
<b>Start Build 2.00</b>									
1,400.00	2.00	72.69	1,399.98	0.52	1.67	1.75	2.00	2.00	0.00
1,500.00	4.00	72.69	1,499.84	2.08	6.66	6.98	2.00	2.00	0.00
1,600.00	6.00	72.69	1,599.45	4.67	14.98	15.69	2.00	2.00	0.00
1,700.00	8.00	72.69	1,698.70	8.30	26.62	27.88	2.00	2.00	0.00
1,800.00	10.00	72.69	1,797.47	12.95	41.55	43.52	2.00	2.00	0.00
1,900.00	12.00	72.69	1,895.62	18.63	59.77	62.60	2.00	2.00	0.00
2,000.00	14.00	72.69	1,993.06	25.32	81.24	85.10	2.00	2.00	0.00
2,038.72	14.77	72.69	2,030.56	28.19	90.43	94.72	2.00	2.00	0.00
<b>Start 3558.53 hold at 2038.72 MD</b>									
2,100.00	14.77	72.69	2,089.81	32.84	105.35	110.34	0.00	0.00	0.00
2,200.00	14.77	72.69	2,186.51	40.43	129.69	135.85	0.00	0.00	0.00
2,300.00	14.77	72.69	2,283.20	48.01	154.04	161.35	0.00	0.00	0.00
2,400.00	14.77	72.69	2,379.90	55.60	178.38	186.85	0.00	0.00	0.00
2,500.00	14.77	72.69	2,476.59	63.19	202.73	212.35	0.00	0.00	0.00
2,600.00	14.77	72.69	2,573.28	70.78	227.08	237.85	0.00	0.00	0.00
2,700.00	14.77	72.69	2,669.98	78.37	251.42	263.35	0.00	0.00	0.00
2,800.00	14.77	72.69	2,766.67	85.96	275.77	288.85	0.00	0.00	0.00
2,900.00	14.77	72.69	2,863.36	93.55	300.11	314.36	0.00	0.00	0.00
3,000.00	14.77	72.69	2,960.06	101.13	324.46	339.86	0.00	0.00	0.00
3,100.00	14.77	72.69	3,056.75	108.72	348.81	365.36	0.00	0.00	0.00
3,200.00	14.77	72.69	3,153.45	116.31	373.15	390.86	0.00	0.00	0.00
3,300.00	14.77	72.69	3,250.14	123.90	397.50	416.36	0.00	0.00	0.00
3,400.00	14.77	72.69	3,346.83	131.49	421.85	441.86	0.00	0.00	0.00
3,500.00	14.77	72.69	3,443.53	139.08	446.19	467.36	0.00	0.00	0.00
3,600.00	14.77	72.69	3,540.22	146.67	470.54	492.87	0.00	0.00	0.00
3,700.00	14.77	72.69	3,636.91	154.26	494.88	518.37	0.00	0.00	0.00
3,800.00	14.77	72.69	3,733.61	161.84	519.23	543.87	0.00	0.00	0.00
3,900.00	14.77	72.69	3,830.30	169.43	543.58	569.37	0.00	0.00	0.00
4,000.00	14.77	72.69	3,927.00	177.02	567.92	594.87	0.00	0.00	0.00
4,100.00	14.77	72.69	4,023.69	184.61	592.27	620.37	0.00	0.00	0.00
4,200.00	14.77	72.69	4,120.38	192.20	616.61	645.87	0.00	0.00	0.00
4,300.00	14.77	72.69	4,217.08	199.79	640.96	671.38	0.00	0.00	0.00
4,364.04	14.77	72.69	4,279.00	204.65	656.55	687.71	0.00	0.00	0.00
<b>PARKMAN</b>									
4,400.00	14.77	72.69	4,313.77	207.38	665.31	696.88	0.00	0.00	0.00
4,500.00	14.77	72.69	4,410.46	214.97	689.65	722.38	0.00	0.00	0.00

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_BADDING 23-35
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5123.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5123.00ft (Original Well Elev)
<b>Site:</b>	WELD_BADDING 19-35 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_BADDING 23-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_BADDING 23-35		
<b>Design:</b>	PLAN #1 7-19-10 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	14.77	72.69	4,507.16	222.55	714.00	747.88	0.00	0.00	0.00
4,700.00	14.77	72.69	4,603.85	230.14	738.34	773.38	0.00	0.00	0.00
4,796.33	14.77	72.69	4,697.00	237.45	761.80	797.95	0.00	0.00	0.00
<b>SUSSEX</b>									
4,800.00	14.77	72.69	4,700.55	237.73	762.69	798.88	0.00	0.00	0.00
4,900.00	14.77	72.69	4,797.24	245.32	787.04	824.38	0.00	0.00	0.00
5,000.00	14.77	72.69	4,893.93	252.91	811.38	849.89	0.00	0.00	0.00
5,100.00	14.77	72.69	4,990.63	260.50	835.73	875.39	0.00	0.00	0.00
5,200.00	14.77	72.69	5,087.32	268.09	860.08	900.89	0.00	0.00	0.00
5,300.00	14.77	72.69	5,184.01	275.68	884.42	926.39	0.00	0.00	0.00
5,400.00	14.77	72.69	5,280.71	283.26	908.77	951.89	0.00	0.00	0.00
5,500.00	14.77	72.69	5,377.40	290.85	933.11	977.39	0.00	0.00	0.00
5,597.25	14.77	72.69	5,471.44	298.23	956.79	1,002.19	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
5,600.00	14.72	72.69	5,474.10	298.44	957.46	1,002.89	2.00	-2.00	0.00
5,700.00	12.72	72.69	5,571.24	305.50	980.10	1,026.61	2.00	-2.00	0.00
5,800.00	10.72	72.69	5,669.15	311.54	999.49	1,046.92	2.00	-2.00	0.00
5,900.00	8.72	72.69	5,767.71	316.57	1,015.61	1,063.80	2.00	-2.00	0.00
6,000.00	6.72	72.69	5,866.80	320.56	1,028.43	1,077.23	2.00	-2.00	0.00
6,100.00	4.72	72.69	5,966.29	323.53	1,037.94	1,087.20	2.00	-2.00	0.00
6,200.00	2.72	72.69	6,066.08	325.46	1,044.14	1,093.69	2.00	-2.00	0.00
6,300.00	0.72	72.69	6,166.03	326.35	1,047.00	1,096.69	2.00	-2.00	0.00
6,335.97	0.00	0.00	6,202.00	326.42	1,047.22	1,096.91	2.00	-2.00	0.00
<b>Start 1920.00 hold at 6335.97 MD</b>									
6,400.00	0.00	0.00	6,266.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
6,500.00	0.00	0.00	6,366.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
6,600.00	0.00	0.00	6,466.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
6,700.00	0.00	0.00	6,566.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
6,800.00	0.00	0.00	6,666.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
6,900.00	0.00	0.00	6,766.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,000.00	0.00	0.00	6,866.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,100.00	0.00	0.00	6,966.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,200.00	0.00	0.00	7,066.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,300.00	0.00	0.00	7,166.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,335.97	0.00	0.00	7,202.00	326.42	1,047.22	1,096.91	0.00	0.00	0.00
<b>NIO</b>									
7,400.00	0.00	0.00	7,266.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,500.00	0.00	0.00	7,366.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,600.00	0.00	0.00	7,466.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,660.97	0.00	0.00	7,527.00	326.42	1,047.22	1,096.91	0.00	0.00	0.00
<b>CODELL</b>									
7,700.00	0.00	0.00	7,566.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,750.97	0.00	0.00	7,617.00	326.42	1,047.22	1,096.91	0.00	0.00	0.00
<b>GREENHORN</b>									
7,800.00	0.00	0.00	7,666.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
7,900.00	0.00	0.00	7,766.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
8,000.00	0.00	0.00	7,866.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
8,100.00	0.00	0.00	7,966.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
8,105.97	0.00	0.00	7,972.00	326.42	1,047.22	1,096.91	0.00	0.00	0.00
<b>JSAND</b>									
8,200.00	0.00	0.00	8,066.03	326.42	1,047.22	1,096.91	0.00	0.00	0.00
8,255.97	0.00	0.00	8,122.00	326.42	1,047.22	1,096.91	0.00	0.00	0.00

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_BADDING 23-35
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5123.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5123.00ft (Original Well Elev)
<b>Site:</b>	WELD_BADDING 19-35 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_BADDING 23-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_BADDING 23-35		
<b>Design:</b>	PLAN #1 7-19-10 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 23-35(1335 FSL 2590 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)	
- Shape									Latitude Longitude
PBHL_BADDING 23-35	- plan hits target center	0.00	0.49	8,122.00	326.42	1,047.22	1,276,898.39	3,211,482.95	40° 5' 27.611 N 104° 44' 38.760 W
	- 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"	8.620	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,660.97	7,527.00	CODELL				
7,335.97	7,202.00	NIO				
8,105.97	7,972.00	JSAND				
7,750.97	7,617.00	GREENHORN				
4,364.04	4,279.00	PARKMAN				
4,796.33	4,697.00	SUSSEX				

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	
2,038.72	2,030.56	28.19	90.43	Start 3558.53 hold at 2038.72 MD	
5,597.25	5,471.44	298.23	956.79	Start Drop -2.00	
6,335.97	6,202.00	326.42	1,047.22	Start 1920.00 hold at 6335.97 MD	
8,255.97	8,122.00	326.42	1,047.22	TD at 8255.97	