

WELL DETAILS: P_BADDING 11-35SX

WELL @ 5123.00ft (Original Well Elev) 5108.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1276562.92 3210417.84 40° 5' 24.385 N 104° 44' 52.501 W

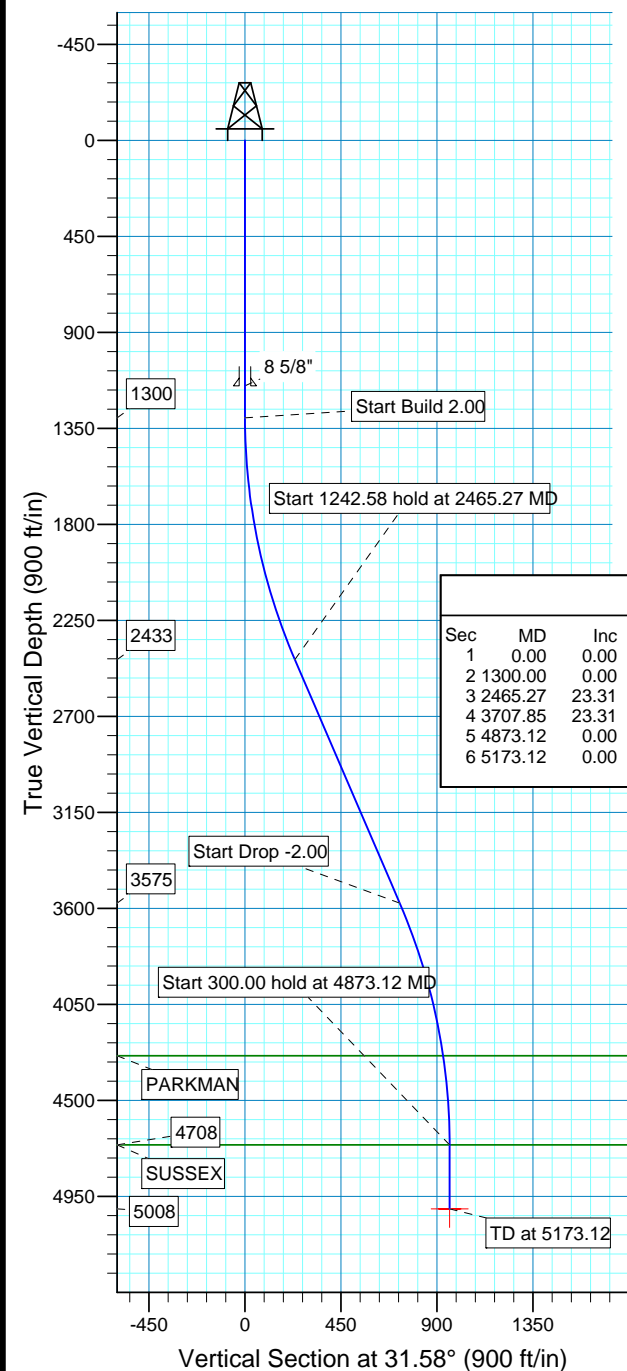
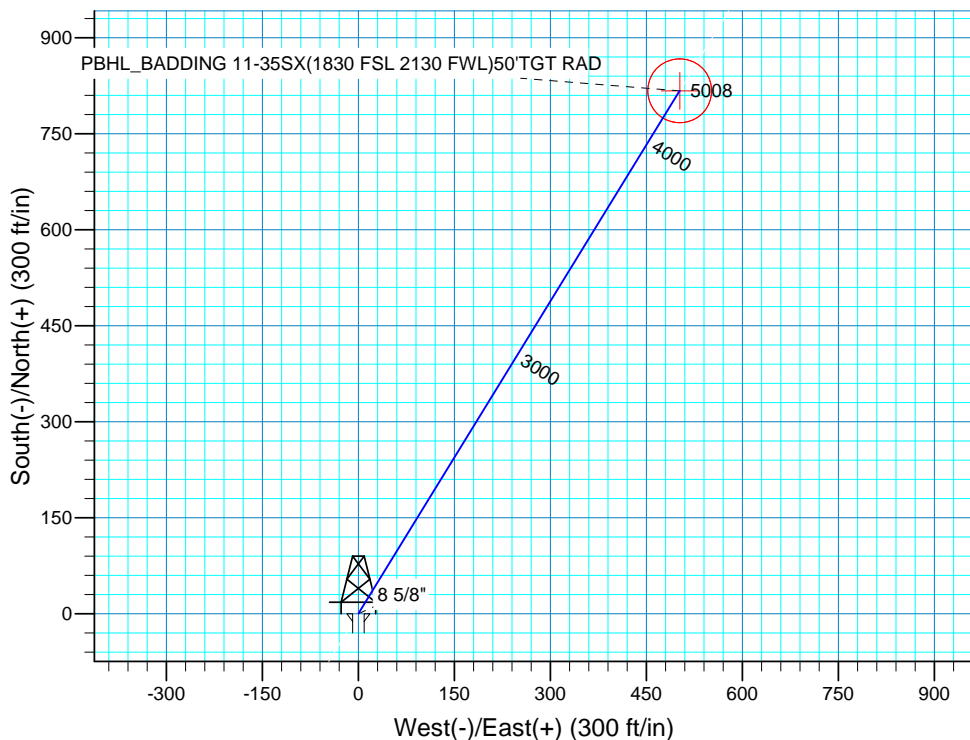


Azimuths to True North
Magnetic North: 8.91°

Magnetic Field
Strength: 53126.1snT
Dip Angle: 66.84°
Date: 07/19/2010
Model: IGRF200510

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	5008.00	817.10	502.20	1277384.24	3210913.09	40° 5' 32.460 N	104° 44' 46.039 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	2465.27	23.31	31.58	2433.40	199.14	122.39	2.00	31.58	233.74	
4	3707.85	23.31	31.58	3574.60	617.96	379.81	0.00	0.00	725.34	
5	4873.12	0.00	0.00	4708.00	817.09	502.20	2.00	180.00	959.08	
6	5173.12	0.00	0.00	5008.00	817.09	502.20	0.00	0.00	959.08	PBHL_BADDING 11-35SX(1830 FSL 2130 FWL)50°TGT

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4290.00	4453.62	PARKMAN
4708.00	4873.12	SUSSEX

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 11-35SX

P_BADDING 11-35SX

Plan: PLAN #1 7-19-10 RHS

Standard Planning Report

21 July, 2010

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 11-35SX
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 11-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 11-35SX		
Design:	PLAN #1 7-19-10 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 11-35SX, 1017 FSL 1627 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,276,562.92 ft	Latitude:	40° 5' 24.385 N
	+E-W	0.00 ft	Easting:	3,210,417.84 ft	Longitude:	104° 44' 52.501 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,108.00 ft

Wellbore	P_BADDING 11-35SX				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/19/2010	8.91	66.84	53,126

Design	PLAN #1 7-19-10 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	31.58

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	
2,465.27	23.31	31.58	2,433.40	199.14	122.39	2.00	2.00	0.00	31.58	
3,707.85	23.31	31.58	3,574.60	617.96	379.81	0.00	0.00	0.00	0.00	
4,873.12	0.00	0.00	4,708.00	817.09	502.20	2.00	-2.00	0.00	180.00	
5,173.12	0.00	0.00	5,008.00	817.09	502.20	0.00	0.00	0.00	0.00	PBHL_BADDING 1

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 11-35SX
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 11-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 11-35SX		
Design:	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
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	31.58	1,399.98	1.49	0.91	1.75	2.00	2.00	0.00
1,500.00	4.00	31.58	1,499.84	5.95	3.65	6.98	2.00	2.00	0.00
1,600.00	6.00	31.58	1,599.45	13.37	8.22	15.69	2.00	2.00	0.00
1,700.00	8.00	31.58	1,698.70	23.75	14.60	27.88	2.00	2.00	0.00
1,800.00	10.00	31.58	1,797.47	37.08	22.79	43.52	2.00	2.00	0.00
1,900.00	12.00	31.58	1,895.62	53.33	32.78	62.60	2.00	2.00	0.00
2,000.00	14.00	31.58	1,993.06	72.50	44.56	85.10	2.00	2.00	0.00
2,100.00	16.00	31.58	2,089.64	94.55	58.11	110.98	2.00	2.00	0.00
2,200.00	18.00	31.58	2,185.27	119.45	73.42	140.21	2.00	2.00	0.00
2,300.00	20.00	31.58	2,279.82	147.19	90.46	172.77	2.00	2.00	0.00
2,400.00	22.00	31.58	2,373.17	177.72	109.23	208.60	2.00	2.00	0.00
2,465.27	23.31	31.58	2,433.40	199.14	122.39	233.74	2.00	2.00	0.00
Start 1242.58 hold at 2465.27 MD									
2,500.00	23.31	31.58	2,465.30	210.84	129.59	247.48	0.00	0.00	0.00
2,600.00	23.31	31.58	2,557.14	244.55	150.30	287.04	0.00	0.00	0.00
2,700.00	23.31	31.58	2,648.98	278.25	171.02	326.61	0.00	0.00	0.00
2,800.00	23.31	31.58	2,740.82	311.96	191.73	366.17	0.00	0.00	0.00
2,900.00	23.31	31.58	2,832.66	345.67	212.45	405.73	0.00	0.00	0.00
3,000.00	23.31	31.58	2,924.50	379.37	233.17	445.30	0.00	0.00	0.00
3,100.00	23.31	31.58	3,016.34	413.08	253.88	484.86	0.00	0.00	0.00
3,200.00	23.31	31.58	3,108.19	446.78	274.60	524.42	0.00	0.00	0.00
3,300.00	23.31	31.58	3,200.03	480.49	295.31	563.99	0.00	0.00	0.00
3,400.00	23.31	31.58	3,291.87	514.19	316.03	603.55	0.00	0.00	0.00
3,500.00	23.31	31.58	3,383.71	547.90	336.75	643.11	0.00	0.00	0.00
3,600.00	23.31	31.58	3,475.55	581.61	357.46	682.68	0.00	0.00	0.00
3,700.00	23.31	31.58	3,567.39	615.31	378.18	722.24	0.00	0.00	0.00
3,707.85	23.31	31.58	3,574.60	617.96	379.81	725.34	0.00	0.00	0.00
Start Drop -2.00									
3,800.00	21.46	31.58	3,659.80	647.85	398.18	760.43	2.00	-2.00	0.00
3,900.00	19.46	31.58	3,753.49	677.64	416.48	795.39	2.00	-2.00	0.00
4,000.00	17.46	31.58	3,848.34	704.61	433.06	827.06	2.00	-2.00	0.00
4,100.00	15.46	31.58	3,944.23	728.76	447.90	855.40	2.00	-2.00	0.00
4,200.00	13.46	31.58	4,041.06	750.03	460.98	880.37	2.00	-2.00	0.00
4,300.00	11.46	31.58	4,138.70	768.42	472.28	901.95	2.00	-2.00	0.00
4,400.00	9.46	31.58	4,237.03	783.89	481.79	920.11	2.00	-2.00	0.00
4,453.62	8.39	31.58	4,290.00	790.97	486.14	928.43	2.00	-2.00	0.00

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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 11-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 11-35SX		
Design:	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)
PARKMAN									
4,500.00	7.46	31.58	4,335.94	796.42	489.49	934.82	2.00	-2.00	0.00
4,600.00	5.46	31.58	4,435.30	806.01	495.38	946.08	2.00	-2.00	0.00
4,700.00	3.46	31.58	4,534.99	812.64	499.46	953.86	2.00	-2.00	0.00
4,800.00	1.46	31.58	4,634.89	816.30	501.71	958.15	2.00	-2.00	0.00
4,873.12	0.00	0.00	4,708.00	817.09	502.20	959.08	2.00	-2.00	-43.18
Start 300.00 hold at 4873.12 MD - SUSSEX									
4,900.00	0.00	0.00	4,734.88	817.09	502.20	959.08	0.00	0.00	0.00
5,000.00	0.00	0.00	4,834.88	817.09	502.20	959.08	0.00	0.00	0.00
5,100.00	0.00	0.00	4,934.88	817.09	502.20	959.08	0.00	0.00	0.00
5,173.12	0.00	0.00	5,008.00	817.09	502.20	959.08	0.00	0.00	0.00
PBHL_BADDING 11-35SX(1830 FSL 2130 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
- Shape									
PBHL_BADDING 11-35SX	0.00	0.49	5,008.00	817.10	502.20	1,277,384.24	3,210,913.09	40° 5' 32.460 N	104° 44' 46.039 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"	8.620	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,873.12	4,708.00	SUSSEX		0.00	
4,453.62	4,290.00	PARKMAN		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,300.00	1,300.00	0.00	0.00	Start Build 2.00
2,465.27	2,433.40	199.14	122.39	Start 1242.58 hold at 2465.27 MD
3,707.85	3,574.60	617.96	379.81	Start Drop -2.00
4,873.12	4,708.00	817.09	502.20	Start 300.00 hold at 4873.12 MD
5,173.12	5,008.00	817.09	502.20	TD at 5173.12