

WELL DETAILS: P_BADDING 13-35SX

WELL @ 5123.00ft (Original Well Elev) 5108.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1276561.52	3210337.83	40° 5' 24.378 N	104° 44' 53.531 W

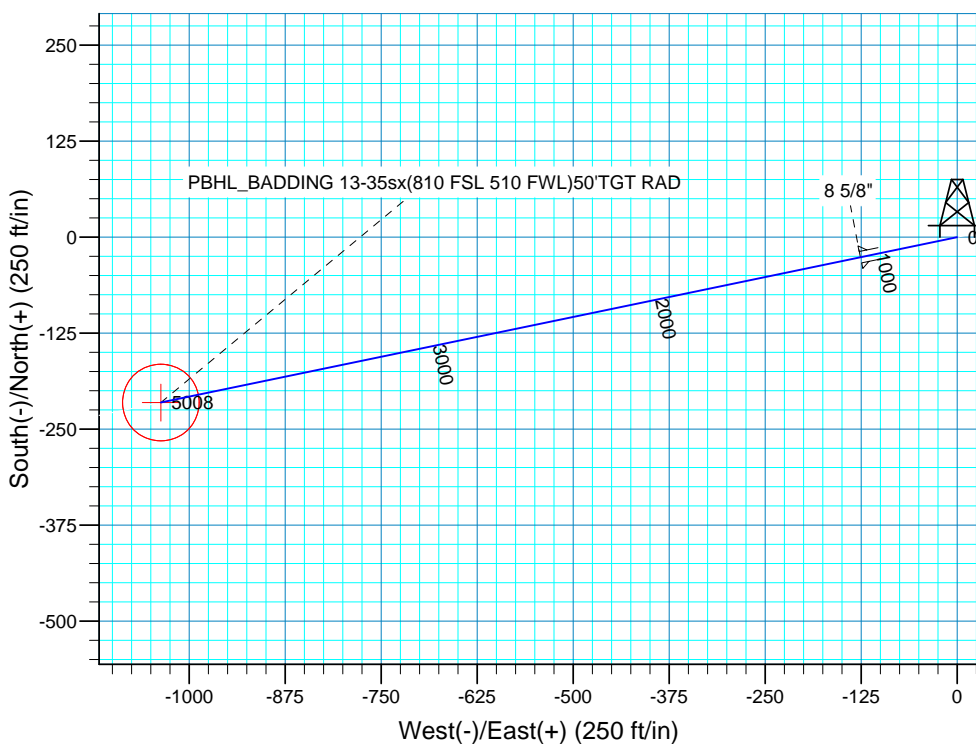
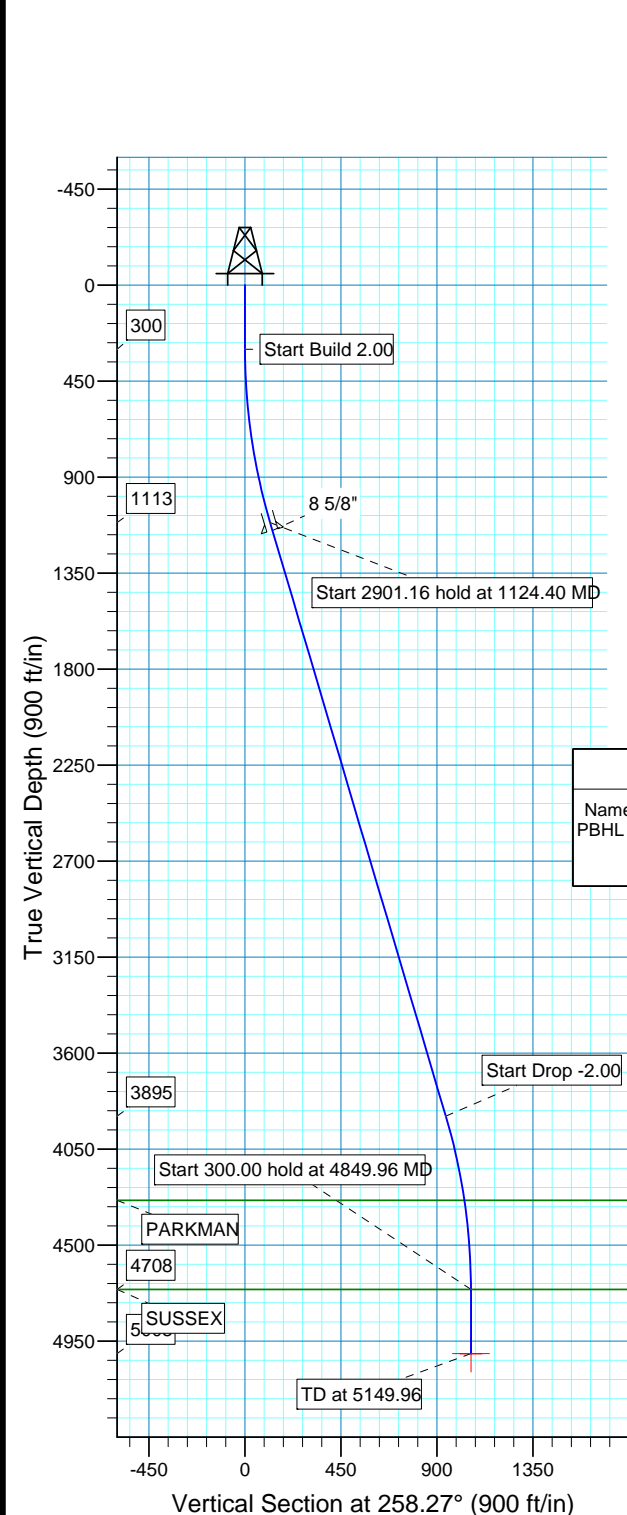
SECTION DETAILS

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	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	1124.40	16.49	258.27	1113.07	-23.95	-115.34	2.00	258.27	117.80	
4	4025.56	16.49	258.27	3894.93	-191.32	-921.55	0.00	0.00	941.19	
5	4849.96	0.00	0.00	4708.00	-215.26	-1036.89	2.00	180.00	1059.00	
6	5149.96	0.00	0.00	5008.00	-215.26	-1036.89	0.00	0.00	1059.00	PBHL_BADDING 13-35sx(810 FSL 510 FWL)50'TGT RAD



Azimuths to True North
Magnetic North: 8.99°

Magnetic Field
Strength: 53140.5nT
Dip Angle: 66.86°
Date: 12/31/2009
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	-215.26	-1036.89	1276337.48	3209302.81	40° 5' 22.250 N	104° 45' 6.872 W	Circle (Radius: 50.00)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4290.00	4430.46	PARKMAN
4708.00	4849.96	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 13-35SX

P_BADDING 13-35SX

Plan: PLAN #1 7-19-10 RHS

Standard Planning Report

20 July, 2010

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 13-35SX
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 13-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 13-35SX		
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	
From:	Lat/Long	Easting:		3,210,367.76 ft	
Position Uncertainty:		Slot Radius:		in	
0.00 ft				Grid Convergence:	
				40° 5' 24.382 N	
				104° 44' 53.146 W	
				0.49 °	

Well	P_BADDING 13-35SX, 1017 FSL 1547 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,276,561.52 ft	Latitude:	40° 5' 24.378 N
	+E-W	0.00 ft	Easting:	3,210,337.83 ft	Longitude:	104° 44' 53.531 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,108.00 ft

Wellbore	P_BADDING 13-35SX				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.99	66.86	53,140

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	258.27

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,124.40	16.49	258.27	1,113.07	-23.95	-115.34	2.00	2.00	0.00	258.27	
4,025.56	16.49	258.27	3,894.93	-191.32	-921.55	0.00	0.00	0.00	0.00	
4,849.96	0.00	0.00	4,708.00	-215.26	-1,036.89	2.00	-2.00	0.00	180.00	
5,149.96	0.00	0.00	5,008.00	-215.26	-1,036.89	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 13-35SX
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 13-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 13-35SX		
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
Start Build 2.00									
400.00	2.00	258.27	399.98	-0.35	-1.71	1.75	2.00	2.00	0.00
500.00	4.00	258.27	499.84	-1.42	-6.83	6.98	2.00	2.00	0.00
600.00	6.00	258.27	599.45	-3.19	-15.37	15.69	2.00	2.00	0.00
700.00	8.00	258.27	698.70	-5.67	-27.30	27.88	2.00	2.00	0.00
800.00	10.00	258.27	797.47	-8.85	-42.61	43.52	2.00	2.00	0.00
900.00	12.00	258.27	895.62	-12.73	-61.30	62.60	2.00	2.00	0.00
1,000.00	14.00	258.27	993.06	-17.30	-83.32	85.10	2.00	2.00	0.00
1,100.00	16.00	258.27	1,089.64	-22.56	-108.66	110.98	2.00	2.00	0.00
1,124.40	16.49	258.27	1,113.07	-23.95	-115.34	117.80	2.00	2.00	0.00
Start 2901.16 hold at 1124.40 MD									
1,162.92	16.49	258.27	1,150.00	-26.17	-126.05	128.73	0.00	0.00	0.00
8 5/8"									
1,200.00	16.49	258.27	1,185.56	-28.31	-136.35	139.26	0.00	0.00	0.00
1,300.00	16.49	258.27	1,281.45	-34.08	-164.14	167.64	0.00	0.00	0.00
1,400.00	16.49	258.27	1,377.34	-39.85	-191.93	196.02	0.00	0.00	0.00
1,500.00	16.49	258.27	1,473.22	-45.61	-219.72	224.40	0.00	0.00	0.00
1,600.00	16.49	258.27	1,569.11	-51.38	-247.51	252.78	0.00	0.00	0.00
1,700.00	16.49	258.27	1,665.00	-57.15	-275.30	281.17	0.00	0.00	0.00
1,800.00	16.49	258.27	1,760.89	-62.92	-303.09	309.55	0.00	0.00	0.00
1,900.00	16.49	258.27	1,856.78	-68.69	-330.87	337.93	0.00	0.00	0.00
2,000.00	16.49	258.27	1,952.66	-74.46	-358.66	366.31	0.00	0.00	0.00
2,100.00	16.49	258.27	2,048.55	-80.23	-386.45	394.69	0.00	0.00	0.00
2,200.00	16.49	258.27	2,144.44	-86.00	-414.24	423.07	0.00	0.00	0.00
2,300.00	16.49	258.27	2,240.33	-91.77	-442.03	451.46	0.00	0.00	0.00
2,400.00	16.49	258.27	2,336.21	-97.54	-469.82	479.84	0.00	0.00	0.00
2,500.00	16.49	258.27	2,432.10	-103.31	-497.61	508.22	0.00	0.00	0.00
2,600.00	16.49	258.27	2,527.99	-109.07	-525.40	536.60	0.00	0.00	0.00
2,700.00	16.49	258.27	2,623.88	-114.84	-553.19	564.98	0.00	0.00	0.00
2,800.00	16.49	258.27	2,719.77	-120.61	-580.97	593.36	0.00	0.00	0.00
2,900.00	16.49	258.27	2,815.65	-126.38	-608.76	621.74	0.00	0.00	0.00
3,000.00	16.49	258.27	2,911.54	-132.15	-636.55	650.13	0.00	0.00	0.00
3,100.00	16.49	258.27	3,007.43	-137.92	-664.34	678.51	0.00	0.00	0.00
3,200.00	16.49	258.27	3,103.32	-143.69	-692.13	706.89	0.00	0.00	0.00
3,300.00	16.49	258.27	3,199.21	-149.46	-719.92	735.27	0.00	0.00	0.00
3,400.00	16.49	258.27	3,295.09	-155.23	-747.71	763.65	0.00	0.00	0.00
3,500.00	16.49	258.27	3,390.98	-161.00	-775.50	792.03	0.00	0.00	0.00
3,600.00	16.49	258.27	3,486.87	-166.77	-803.29	820.41	0.00	0.00	0.00
3,700.00	16.49	258.27	3,582.76	-172.53	-831.08	848.80	0.00	0.00	0.00
3,800.00	16.49	258.27	3,678.65	-178.30	-858.86	877.18	0.00	0.00	0.00
3,900.00	16.49	258.27	3,774.53	-184.07	-886.65	905.56	0.00	0.00	0.00
4,000.00	16.49	258.27	3,870.42	-189.84	-914.44	933.94	0.00	0.00	0.00
4,025.56	16.49	258.27	3,894.93	-191.32	-921.55	941.19	0.00	0.00	0.00
Start Drop -2.00									
4,100.00	15.00	258.27	3,966.58	-195.42	-941.32	961.39	2.00	-2.00	0.00
4,200.00	13.00	258.27	4,063.60	-200.34	-965.01	985.58	2.00	-2.00	0.00
4,300.00	11.00	258.27	4,161.41	-204.57	-985.36	1,006.37	2.00	-2.00	0.00
4,400.00	9.00	258.27	4,259.89	-208.09	-1,002.36	1,023.73	2.00	-2.00	0.00
4,430.46	8.39	258.27	4,290.00	-209.03	-1,006.87	1,028.34	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 13-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 13-35SX		
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	7.00	258.27	4,358.91	-210.92	-1,015.99	1,037.65	2.00	-2.00	0.00
4,600.00	5.00	258.27	4,458.36	-213.05	-1,026.22	1,048.10	2.00	-2.00	0.00
4,700.00	3.00	258.27	4,558.11	-214.46	-1,033.05	1,055.07	2.00	-2.00	0.00
4,800.00	1.00	258.27	4,658.04	-215.17	-1,036.46	1,058.56	2.00	-2.00	0.00
4,849.96	0.00	0.00	4,708.00	-215.26	-1,036.89	1,059.00	2.00	-2.00	0.00
Start 300.00 hold at 4849.96 MD - SUSSEX									
4,900.00	0.00	0.00	4,758.04	-215.26	-1,036.89	1,059.00	0.00	0.00	0.00
5,000.00	0.00	0.00	4,858.04	-215.26	-1,036.89	1,059.00	0.00	0.00	0.00
5,100.00	0.00	0.00	4,958.04	-215.26	-1,036.89	1,059.00	0.00	0.00	0.00
5,149.96	0.00	0.00	5,008.00	-215.26	-1,036.89	1,059.00	0.00	0.00	0.00
PBHL_BADDING 13-35sx(810 FSL 510 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 13-35sx(810 FSL 510 FWL)50°TGT RAD	0.00	0.48	5,008.00	-215.26	-1,036.89	1,276,337.48	3,209,302.81	40° 5' 22.250 N	104° 45' 6.872 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,162.92	1,150.00	8 5/8"	8.620	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,849.96	4,708.00	SUSSEX			
4,430.46	4,290.00	PARKMAN			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,124.40	1,113.07	-23.95	-115.34	Start 2901.16 hold at 1124.40 MD
4,025.56	3,894.93	-191.32	-921.55	Start Drop -2.00
4,849.96	4,708.00	-215.26	-1,036.89	Start 300.00 hold at 4849.96 MD
5,149.96	5,008.00	-215.26	-1,036.89	TD at 5149.96