

WELL DETAILS: P_BADDING 12-35SX

WELL @ 5123.00ft (Original Well Elev) 5108.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1276562.14 3210367.76 40° 5' 24.382 N 104° 44' 53.146 W

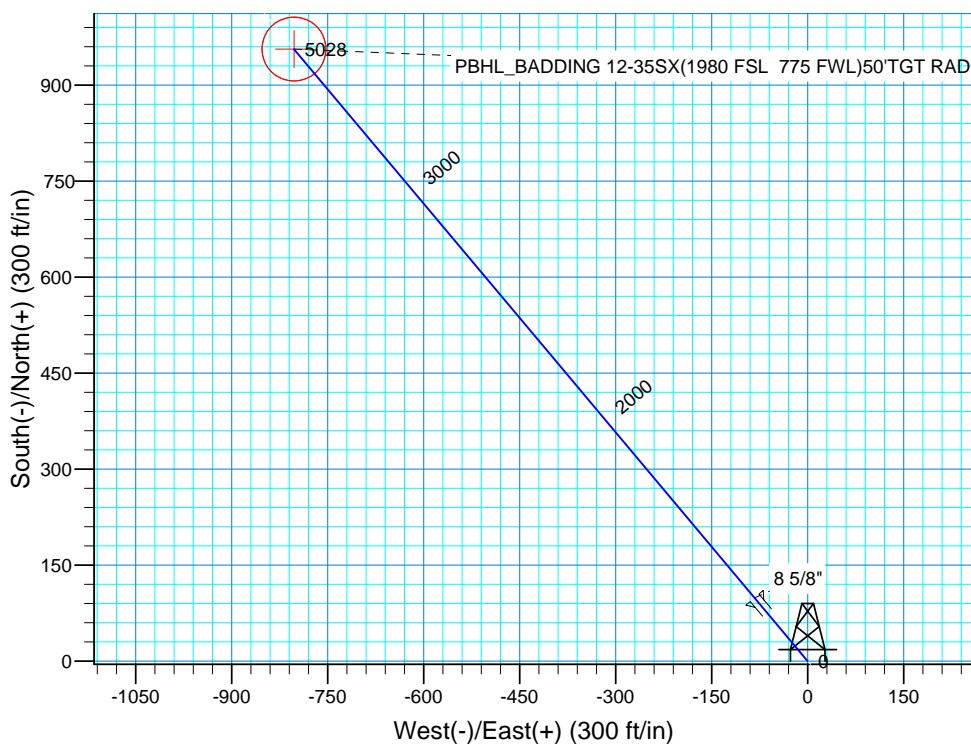
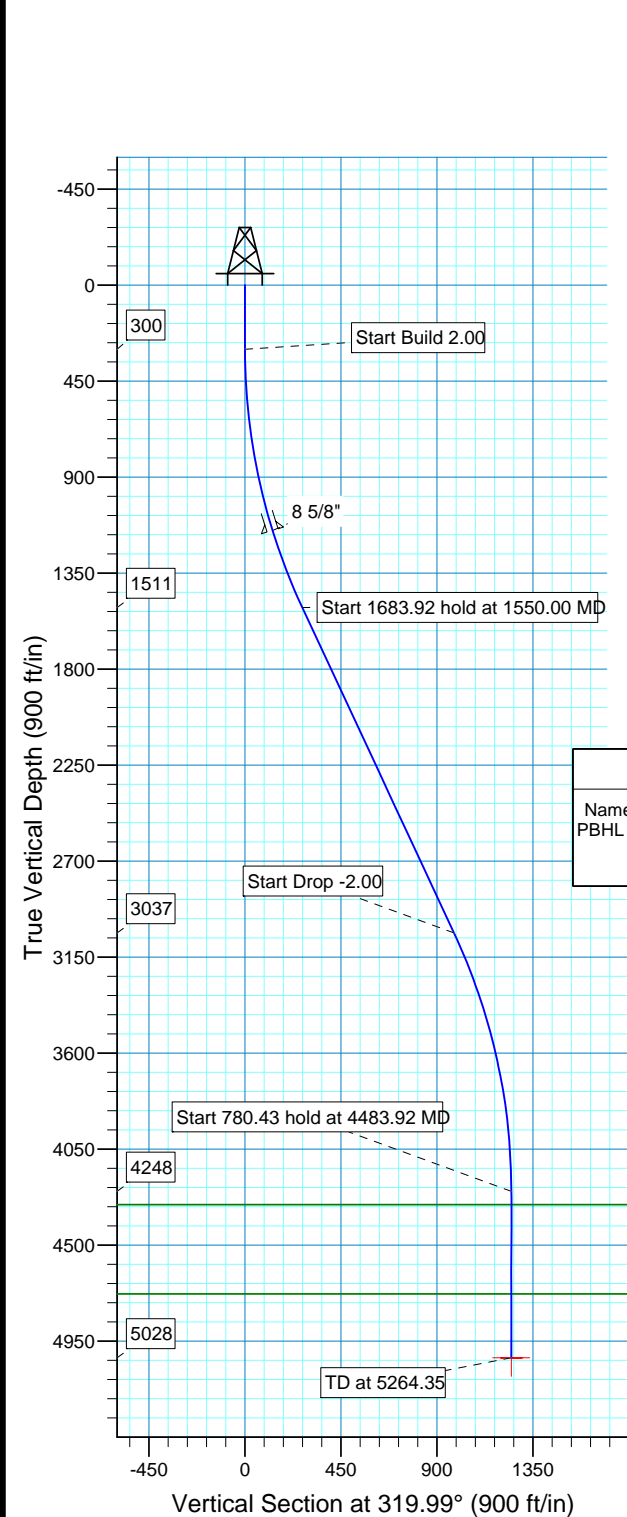
SECTION DETAILS

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	1550.00	25.00	319.99	1510.71	205.58	-172.57	2.00	319.99	268.41	
4	3233.92	25.00	319.99	3036.86	750.66	-630.10	0.00	0.00	980.06	
5	4483.92	0.00	0.00	4247.57	956.24	-802.67	2.00	180.00	1248.47	
6	5264.35	0.00	0.00	5028.00	956.24	-802.67	0.00	0.00	1248.47	PBHL_BADDING 12-35SX(1980 FSL 775 FWL)50'TGT RAD



Azimuths to True North
Magnetic North: 8.91°

Magnetic Field
Strength: 53083.9snT
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	5028.00	956.24	-802.67	1277511.55	3209557.02	40° 5' 33.832 N	104° 45' 3.474 W	Circle (Radius: 50.00)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4310.00	4546.35	PARKMAN
4728.00	4964.35	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 12-35SX

P_BADDING 12-35SX

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 12-35SX
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 12-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 12-35SX		
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 12-35SX, 1017 FSL 1577 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,276,562.14 ft	Latitude:	40° 5' 24.382 N
	+E-W	0.00 ft	Easting:	3,210,367.76 ft	Longitude:	104° 44' 53.146 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,108.00 ft

Wellbore	P_BADDING 12-35SX				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/19/2010	8.91	66.84	53,084

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	319.99	

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	
1,550.00	25.00	319.99	1,510.71	205.58	-172.57	2.00	2.00	0.00	319.99	
3,233.92	25.00	319.99	3,036.86	750.66	-630.10	0.00	0.00	0.00	0.00	
4,483.92	0.00	0.00	4,247.57	956.24	-802.67	2.00	-2.00	0.00	180.00	
5,264.35	0.00	0.00	5,028.00	956.24	-802.67	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 12-35SX
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 12-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 12-35SX		
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	319.99	399.98	1.34	-1.12	1.75	2.00	2.00	0.00
500.00	4.00	319.99	499.84	5.35	-4.49	6.98	2.00	2.00	0.00
600.00	6.00	319.99	599.45	12.02	-10.09	15.69	2.00	2.00	0.00
700.00	8.00	319.99	698.70	21.35	-17.92	27.88	2.00	2.00	0.00
800.00	10.00	319.99	797.47	33.34	-27.98	43.52	2.00	2.00	0.00
900.00	12.00	319.99	895.62	47.95	-40.25	62.60	2.00	2.00	0.00
1,000.00	14.00	319.99	993.06	65.18	-54.71	85.10	2.00	2.00	0.00
1,100.00	16.00	319.99	1,089.64	85.00	-71.35	110.98	2.00	2.00	0.00
1,162.99	17.26	319.99	1,150.00	98.81	-82.94	129.00	2.00	2.00	0.00
8 5/8"									
1,200.00	18.00	319.99	1,185.27	107.39	-90.15	140.21	2.00	2.00	0.00
1,300.00	20.00	319.99	1,279.82	132.33	-111.08	172.77	2.00	2.00	0.00
1,400.00	22.00	319.99	1,373.17	159.78	-134.12	208.60	2.00	2.00	0.00
1,500.00	24.00	319.99	1,465.21	189.70	-159.24	247.67	2.00	2.00	0.00
1,550.00	25.00	319.99	1,510.71	205.58	-172.57	268.41	2.00	2.00	0.00
Start 1683.93 hold at 1550.00 MD									
1,600.00	25.00	319.99	1,556.03	221.77	-186.15	289.54	0.00	0.00	0.00
1,700.00	25.00	319.99	1,646.66	254.14	-213.32	331.80	0.00	0.00	0.00
1,800.00	25.00	319.99	1,737.29	286.51	-240.49	374.06	0.00	0.00	0.00
1,900.00	25.00	319.99	1,827.92	318.88	-267.66	416.32	0.00	0.00	0.00
2,000.00	25.00	319.99	1,918.55	351.25	-294.84	458.59	0.00	0.00	0.00
2,100.00	25.00	319.99	2,009.18	383.62	-322.01	500.85	0.00	0.00	0.00
2,200.00	25.00	319.99	2,099.81	415.99	-349.18	543.11	0.00	0.00	0.00
2,300.00	25.00	319.99	2,190.44	448.36	-376.35	585.37	0.00	0.00	0.00
2,400.00	25.00	319.99	2,281.07	480.72	-403.52	627.63	0.00	0.00	0.00
2,500.00	25.00	319.99	2,371.70	513.09	-430.69	669.90	0.00	0.00	0.00
2,600.00	25.00	319.99	2,462.34	545.46	-457.86	712.16	0.00	0.00	0.00
2,700.00	25.00	319.99	2,552.97	577.83	-485.03	754.42	0.00	0.00	0.00
2,800.00	25.00	319.99	2,643.60	610.20	-512.20	796.68	0.00	0.00	0.00
2,900.00	25.00	319.99	2,734.23	642.57	-539.37	838.94	0.00	0.00	0.00
3,000.00	25.00	319.99	2,824.86	674.94	-566.55	881.20	0.00	0.00	0.00
3,100.00	25.00	319.99	2,915.49	707.31	-593.72	923.47	0.00	0.00	0.00
3,200.00	25.00	319.99	3,006.12	739.68	-620.89	965.73	0.00	0.00	0.00
3,233.92	25.00	319.99	3,036.86	750.66	-630.10	980.06	0.00	0.00	0.00
3,233.93	25.00	319.99	3,036.87	750.67	-630.11	980.07	0.00	0.00	0.00
Start Drop -2.00									
3,300.00	23.68	319.99	3,097.07	771.52	-647.61	1,007.30	2.00	-2.00	0.00
3,400.00	21.68	319.99	3,189.33	801.05	-672.40	1,045.85	2.00	-2.00	0.00
3,500.00	19.68	319.99	3,282.88	828.10	-695.10	1,081.16	2.00	-2.00	0.00
3,600.00	17.68	319.99	3,377.61	852.62	-715.69	1,113.19	2.00	-2.00	0.00
3,700.00	15.68	319.99	3,473.40	874.60	-734.14	1,141.88	2.00	-2.00	0.00
3,800.00	13.68	319.99	3,570.13	894.01	-750.43	1,167.22	2.00	-2.00	0.00
3,900.00	11.68	319.99	3,667.69	910.82	-764.54	1,189.17	2.00	-2.00	0.00
4,000.00	9.68	319.99	3,765.95	925.01	-776.45	1,207.70	2.00	-2.00	0.00
4,100.00	7.68	319.99	3,864.80	936.57	-786.16	1,222.78	2.00	-2.00	0.00
4,200.00	5.68	319.99	3,964.12	945.48	-793.63	1,234.41	2.00	-2.00	0.00
4,300.00	3.68	319.99	4,063.78	951.72	-798.88	1,242.57	2.00	-2.00	0.00
4,400.00	1.68	319.99	4,163.67	955.30	-801.88	1,247.24	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 12-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 12-35SX		
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)
4,483.92	0.00	0.00	4,247.57	956.24	-802.67	1,248.47	2.00	-2.00	0.00
4,483.93	0.00	0.00	4,247.59	956.24	-802.67	1,248.47	0.00	0.00	0.00
Start 780.41 hold at 4483.93 MD									
4,500.00	0.00	0.00	4,263.65	956.24	-802.67	1,248.47	0.00	0.00	0.00
4,546.35	0.00	0.00	4,310.00	956.24	-802.67	1,248.47	0.00	0.00	0.00
PARKMAN									
4,600.00	0.00	0.00	4,363.65	956.24	-802.67	1,248.47	0.00	0.00	0.00
4,700.00	0.00	0.00	4,463.65	956.24	-802.67	1,248.47	0.00	0.00	0.00
4,800.00	0.00	0.00	4,563.65	956.24	-802.67	1,248.47	0.00	0.00	0.00
4,900.00	0.00	0.00	4,663.65	956.24	-802.67	1,248.47	0.00	0.00	0.00
4,964.35	0.00	0.00	4,728.00	956.24	-802.67	1,248.47	0.00	0.00	0.00
SUSSEX									
5,000.00	0.00	0.00	4,763.65	956.24	-802.67	1,248.47	0.00	0.00	0.00
5,100.00	0.00	0.00	4,863.65	956.24	-802.67	1,248.47	0.00	0.00	0.00
5,200.00	0.00	0.00	4,963.65	956.24	-802.67	1,248.47	0.00	0.00	0.00
5,264.35	0.00	0.00	5,028.00	956.24	-802.67	1,248.47	0.00	0.00	0.00
PBHL_BADDING 12-35SX(1980 FSL 775 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 12-35SX	0.00	0.48	5,028.00	956.24	-802.67	1,277,511.55	3,209,557.02	40° 5' 33.832 N	104° 45' 3.474 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,162.99	1,150.00	8 5/8"	8.620	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,964.35	4,728.00	SUSSEX			
4,546.35	4,310.00	PARKMAN			

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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 12-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 12-35SX		
Design:	PLAN #1 7-19-10 RHS		

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
1,550.00	1,510.71	205.58	-172.57	Start 1683.93 hold at 1550.00 MD
3,233.93	3,036.87	750.67	-630.11	Start Drop -2.00
4,483.93	4,247.59	956.24	-802.67	Start 780.41 hold at 4483.93 MD
5,264.35	5,028.00	956.24	-802.67	TD at 5264.35