



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BADDING 17-26 PAD

P_Badding 1-26SX

P_Badding 1-26SX

Plan: PLAN #1 6-23-10 RHS

Standard Planning Report

23 June, 2010

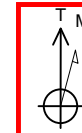




Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_BADDING 17-26 PAD
 Well: P_Badding 1-26SX
 Wellbore: P_Badding 1-26SX
 Section: SECTION 26 T2N R66W
 SHL: 1464 FNL 1199 FEL
 Design: PLAN #1 6-23-10 RHS
 Latitude: 40° 6' 44.895 N
 Longitude: 104° 44' 21.206 W
 GL: 5067.00
 KB: WELL @ 5082.00ft (Original Well Elev)



Weatherford



Azimuths to True North
 Magnetic North: 8.96°

Magnetic Field
 Strength: 53084.0nT
 Dip Angle: 66.85°
 Date: 6/23/2010
 Model: IGRF2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4246.00	4397.60	PARKMAN
4664.00	4817.09	SUSSEX

CASING DETAILS

TVD	MD	Name	Size
1050.00	1050.00	8 5/8"	8.62

SECTION DETAILS

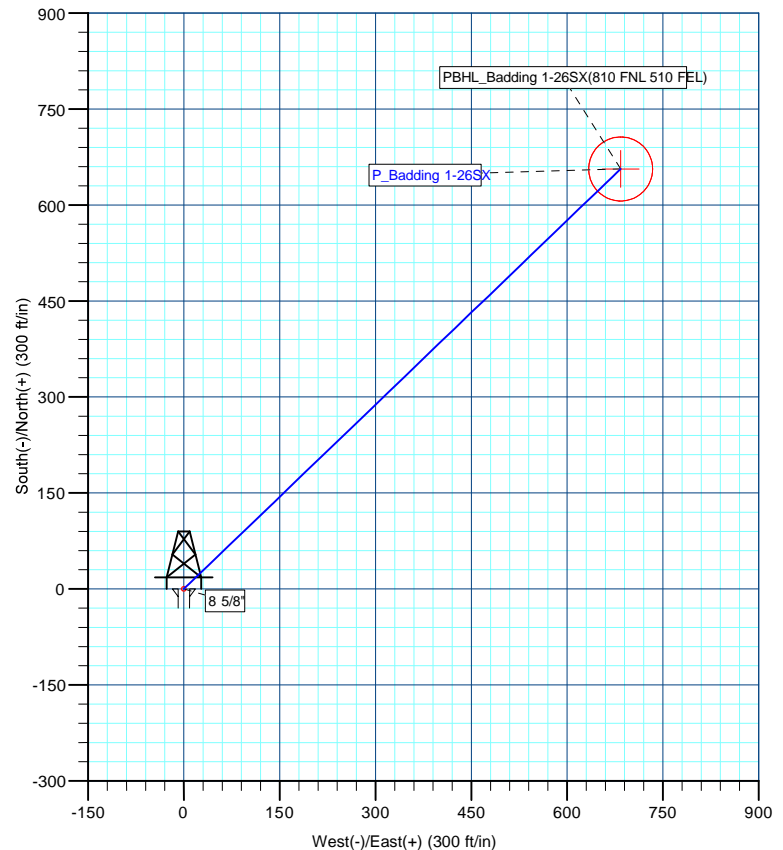
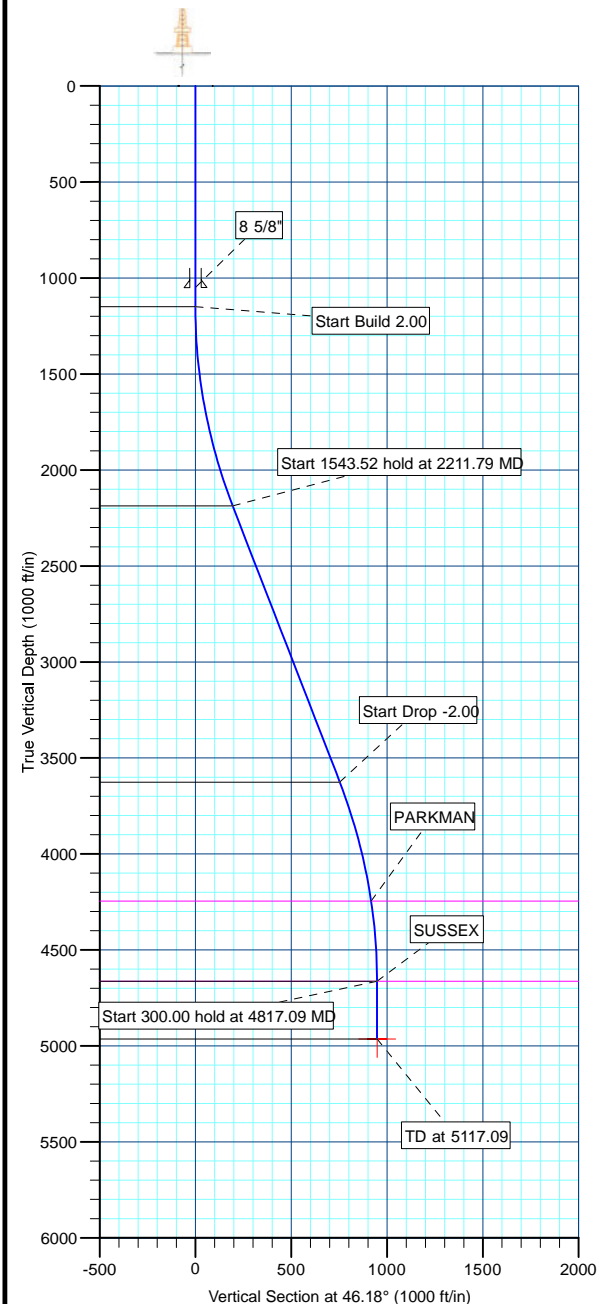
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
2211.79	21.24	46.18	2187.64	134.68	140.36	2.00	46.18	194.53	Start 1543.52 hold at 2211.79 MD
3755.31	21.24	46.18	3626.36	521.77	543.75	0.00	0.00	753.60	Start Drop -2.00
4817.09	0.00	0.00	4664.00	656.45	684.11	2.00	180.00	948.12	Start 300.00 hold at 4817.09 MD
5117.09	0.00	0.00	4964.00	656.45	684.11	0.00	0.00	948.12	TD at 5117.09

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	4964.00	656.45	684.11	40° 6' 51.383 N	104° 44' 12.401 W	Circle (Radius: 50.00)

WELL DETAILS: P_Badding 1-26SX

+N/-S	+E/-W	Northing	Ground Level: Easting	5067.00 Latitude	Longitude	Slot
0.00	0.00	1284730.08	3212780.02	40° 6' 44.895 N	104° 44' 21.206 W	



Plan: PLAN #1 6-23-10 RHS (P_Badding 1-26SX/P_Badding 1-26SX)

Created By: Robert H. Scott Date: 13:14, June 23 2010

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_Badding 1-26SX
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 17-26 PAD	North Reference:	True
Well:	P_Badding 1-26SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 1-26SX		
Design:	PLAN #1 6-23-10 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 17-26 PAD, SECTION 26 T2N R66W			
Site Position:		Northing:	1,284,730.01 ft	Latitude:	40° 6' 44.896 N
From:	Lat/Long	Easting:	3,212,770.23ft	Longitude:	104° 44' 21.332 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.49 °

Well	P_Badding 1-26SX					
Well Position	+N/-S	-0.01 ft	Northing:	1,284,730.08 ft	Latitude:	40° 6' 44.895 N
	+E/-W	9.79 ft	Easting:	3,212,780.02 ft	Longitude:	104° 44' 21.206 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,067.00 ft

Wellbore	P_Badding 1-26SX				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/23/2010	8.96	66.86	53,084

Design	PLAN #1 6-23-10 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	46.18

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	
2,211.79	21.24	46.18	2,187.64	134.68	140.36	2.00	2.00	0.00	46.18	
3,755.31	21.24	46.18	3,626.36	521.77	543.75	0.00	0.00	0.00	0.00	
4,817.09	0.00	0.00	4,664.00	656.45	684.11	2.00	-2.00	0.00	180.00	
5,117.09	0.00	0.00	4,964.00	656.45	684.11	0.00	0.00	0.00	0.00	PBHL_Badding 1-2

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_Badding 1-26SX
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 17-26 PAD	North Reference:	True
Well:	P_Badding 1-26SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 1-26SX		
Design:	PLAN #1 6-23-10 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)
Start Build 2.00									
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	1.00	46.18	1,200.00	0.30	0.31	0.44	2.00	2.00	0.00
1,300.00	3.00	46.18	1,299.93	2.72	2.83	3.93	2.00	2.00	0.00
1,400.00	5.00	46.18	1,399.68	7.55	7.87	10.90	2.00	2.00	0.00
1,500.00	7.00	46.18	1,499.13	14.78	15.41	21.35	2.00	2.00	0.00
1,600.00	9.00	46.18	1,598.15	24.42	25.45	35.27	2.00	2.00	0.00
1,700.00	11.00	46.18	1,696.63	36.44	37.98	52.63	2.00	2.00	0.00
1,800.00	13.00	46.18	1,794.44	50.84	52.98	73.42	2.00	2.00	0.00
1,900.00	15.00	46.18	1,891.46	67.59	70.43	97.62	2.00	2.00	0.00
2,000.00	17.00	46.18	1,987.58	86.67	90.32	125.18	2.00	2.00	0.00
2,100.00	19.00	46.18	2,082.68	108.06	112.62	156.08	2.00	2.00	0.00
2,200.00	21.00	46.18	2,176.65	131.74	137.29	190.28	2.00	2.00	0.00
Start 1543.52 hold at 2211.79 MD									
2,211.79	21.24	46.18	2,187.64	134.68	140.36	194.53	2.00	2.00	0.00
2,300.00	21.24	46.18	2,269.87	156.81	163.41	226.48	0.00	0.00	0.00
2,400.00	21.24	46.18	2,363.08	181.88	189.55	262.70	0.00	0.00	0.00
2,500.00	21.24	46.18	2,456.29	206.96	215.68	298.92	0.00	0.00	0.00
2,600.00	21.24	46.18	2,549.50	232.04	241.82	335.14	0.00	0.00	0.00
2,700.00	21.24	46.18	2,642.71	257.12	267.95	371.36	0.00	0.00	0.00
2,800.00	21.24	46.18	2,735.92	282.20	294.08	407.58	0.00	0.00	0.00
2,900.00	21.24	46.18	2,829.13	307.27	320.22	443.80	0.00	0.00	0.00
3,000.00	21.24	46.18	2,922.34	332.35	346.35	480.02	0.00	0.00	0.00
3,100.00	21.24	46.18	3,015.55	357.43	372.49	516.24	0.00	0.00	0.00
3,200.00	21.24	46.18	3,108.76	382.51	398.62	552.46	0.00	0.00	0.00
3,300.00	21.24	46.18	3,201.97	407.59	424.76	588.68	0.00	0.00	0.00
3,400.00	21.24	46.18	3,295.17	432.67	450.89	624.90	0.00	0.00	0.00
3,500.00	21.24	46.18	3,388.38	457.74	477.03	661.12	0.00	0.00	0.00
3,600.00	21.24	46.18	3,481.59	482.82	503.16	697.34	0.00	0.00	0.00
3,700.00	21.24	46.18	3,574.80	507.90	529.30	733.56	0.00	0.00	0.00
Start Drop -2.00									
3,755.31	21.24	46.18	3,626.36	521.77	543.75	753.60	0.00	0.00	0.00
3,800.00	20.34	46.18	3,668.14	532.75	555.20	769.46	2.00	-2.00	0.00
3,900.00	18.34	46.18	3,762.49	555.68	579.09	802.58	2.00	-2.00	0.00
4,000.00	16.34	46.18	3,857.94	576.32	600.60	832.38	2.00	-2.00	0.00
4,100.00	14.34	46.18	3,954.37	594.64	619.69	858.84	2.00	-2.00	0.00
4,200.00	12.34	46.18	4,051.67	610.61	636.34	881.92	2.00	-2.00	0.00
4,300.00	10.34	46.18	4,149.71	624.23	650.53	901.58	2.00	-2.00	0.00
PARKMAN									
4,397.60	8.39	46.18	4,246.00	635.23	661.99	917.46	2.00	-2.00	0.00
4,400.00	8.34	46.18	4,248.38	635.47	662.24	917.81	2.00	-2.00	0.00
4,500.00	6.34	46.18	4,347.55	644.32	671.46	930.59	2.00	-2.00	0.00
4,600.00	4.34	46.18	4,447.11	650.76	678.18	939.90	2.00	-2.00	0.00
4,700.00	2.34	46.18	4,546.94	654.80	682.38	945.73	2.00	-2.00	0.00
4,800.00	0.34	46.18	4,646.91	656.42	684.07	948.07	2.00	-2.00	0.00
Start 300.00 hold at 4817.09 MD - SUSSEX									
4,817.09	0.00	0.00	4,664.00	656.45	684.11	948.12	2.00	-2.00	-270.16
4,900.00	0.00	0.00	4,746.91	656.45	684.11	948.12	0.00	0.00	0.00
5,000.00	0.00	0.00	4,846.91	656.45	684.11	948.12	0.00	0.00	0.00
5,100.00	0.00	0.00	4,946.91	656.45	684.11	948.12	0.00	0.00	0.00
PBHL_Badding 1-26SX(810 FNL 510 FEL)									
5,117.09	0.00	0.00	4,964.00	656.45	684.11	948.12	0.00	0.00	0.00

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5082.00ft (Original Well Elev)
Site:	WELD_BADDING 17-26 PAD	North Reference:	True
Well:	P_Badding 1-26SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 1-26SX		
Design:	PLAN #1 6-23-10 RHS		

Design 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 1-26S	0.00	0.00	4,964.00	656.45	684.11	1,285,392.38	3,213,458.47	40° 6' 51.383 N	104° 44' 12.401 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"	8.62	11.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,397.60	4,246.00	PARKMAN			
4,817.09	4,664.00	SUSSEX			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,150.00	1,150.00	0.00	0.00	Start Build 2.00
2,211.79	2,187.64	134.68	140.36	Start 1543.52 hold at 2211.79 MD
3,755.31	3,626.36	521.77	543.75	Start Drop -2.00
4,817.09	4,664.00	656.45	684.11	Start 300.00 hold at 4817.09 MD
5,117.09	4,964.00	656.45	684.11	TD at 5117.09