



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BADDING 17-26 PAD

P_Badding 2-26SX

P_Badding 2-26SX

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 2-26SX
 Wellbore: P_Badding 2-26SX
 Section: SECTION 26 T2N R66W
 SHL: 1464 FNL 1239 FEL
 Design: PLAN #1 6-23-10 RHS
 Latitude: 40° 6' 44.895 N
 Longitude: 104° 44' 21.721 W
 GL: 5067.00
 KB: WELL @ 5082.00ft (Original Well Elev)



Weatherford



Azimuths to True North
 Magnetic North: 8.96°
 Magnetic Field
 Strength: 53084.0snT
 Dip Angle: 66.85°
 Date: 6/23/2010
 Model: IGRF2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4251.00	4407.58	PARKMAN
4669.00	4827.08	SUSSEX

CASING DETAILS

TVD	MD	Name	Size
1050.00	1058.84	8 5/8"	8.62

SECTION DETAILS

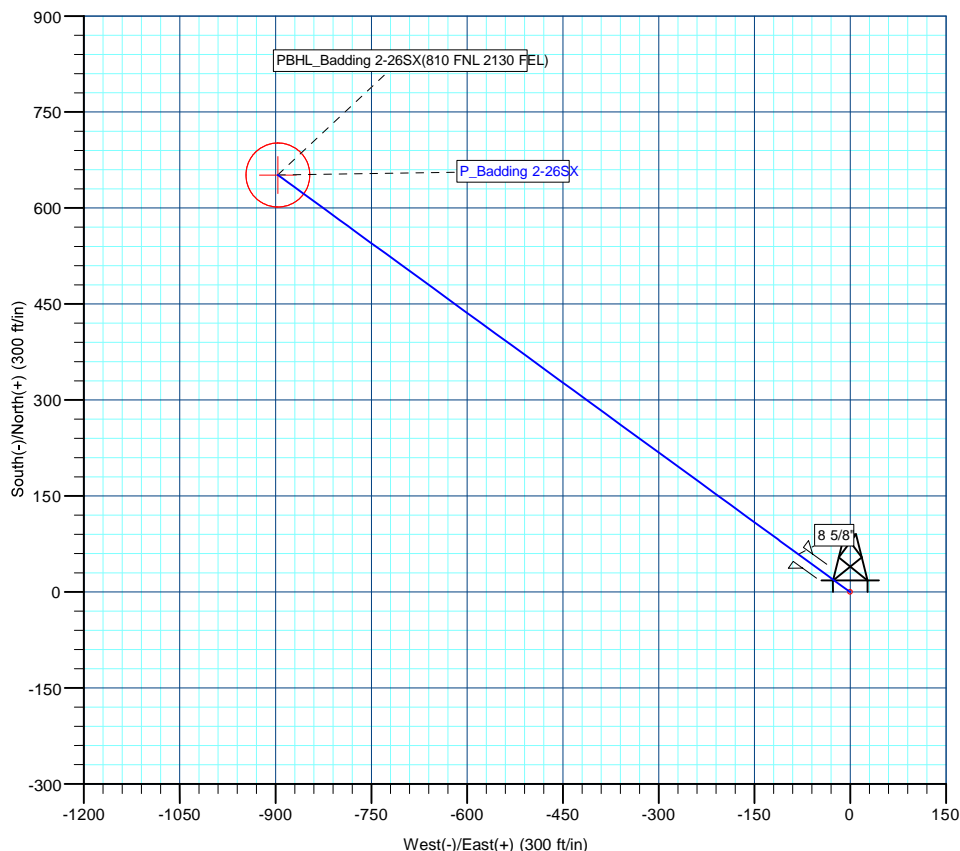
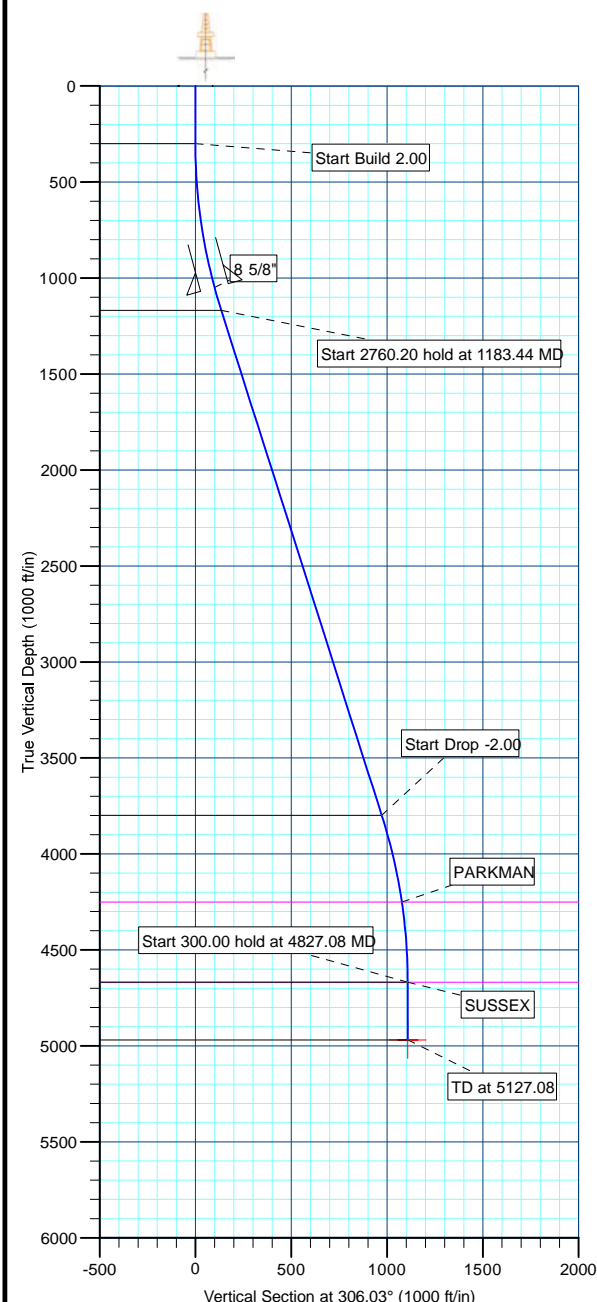
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1183.44	17.67	306.03	1169.51	79.49	-109.29	2.00	306.03	135.14	Start 2760.20 hold at 1183.44 MD
3943.64	17.67	306.03	3799.49	572.24	-786.82	0.00	0.00	972.90	Start Drop -2.00
4827.08	0.00	0.00	4669.00	651.72	-896.11	2.00	180.00	1108.04	Start 300.00 hold at 4827.08 MD
5127.08	0.00	0.00	4969.00	651.72	-896.11	0.00	0.00	1108.04	TD at 5127.08

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	4969.00	651.72	-896.11	40° 6' 51.336 N	104° 44' 33.256 W	Circle (Radius: 50.00)

WELL DETAILS: P_Badding 2-26SX

+N/-S	+E/-W	Northing	Ground Level: Easting	5067.00 Latitude	Longitude	Slot
0.00	0.00	1284729.74	3212740.02	40° 6' 44.895 N	104° 44' 21.721 W	



Plan: PLAN #1 6-23-10 RHS (P_Badding 2-26SX/P_Badding 2-26SX)

Created By: Robert H. Scott Date: 13:25, June 23 2010

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_Badding 2-26SX
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 2-26SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 2-26SX		
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 2-26SX					
Well Position	+N/-S	-0.01 ft	Northing:	1,284,729.74 ft	Latitude:	40° 6' 44.895 N
	+E/-W	-30.21 ft	Easting:	3,212,740.02 ft	Longitude:	104° 44' 21.721 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,067.00 ft

Wellbore	P_Badding 2-26SX				
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	306.03

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	
1,183.44	17.67	306.03	1,169.51	79.49	-109.29	2.00	2.00	0.00	306.03	
3,943.64	17.67	306.03	3,799.49	572.24	-786.82	0.00	0.00	0.00	0.00	
4,827.08	0.00	0.00	4,669.00	651.72	-896.11	2.00	-2.00	0.00	180.00	
5,127.08	0.00	0.00	4,969.00	651.72	-896.11	0.00	0.00	0.00	0.00	PBHL_Badding 2-2

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_Badding 2-26SX
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 2-26SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 2-26SX		
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									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	306.03	399.98	1.03	-1.41	1.75	2.00	2.00	0.00
500.00	4.00	306.03	499.84	4.10	-5.64	6.98	2.00	2.00	0.00
600.00	6.00	306.03	599.45	9.23	-12.69	15.69	2.00	2.00	0.00
700.00	8.00	306.03	698.70	16.40	-22.55	27.88	2.00	2.00	0.00
800.00	10.00	306.03	797.47	25.60	-35.20	43.52	2.00	2.00	0.00
900.00	12.00	306.03	895.62	36.82	-50.63	62.60	2.00	2.00	0.00
1,000.00	14.00	306.03	993.06	50.05	-68.82	85.10	2.00	2.00	0.00
8 5/8"									
1,058.84	15.18	306.03	1,050.00	58.77	-80.81	99.92	2.00	2.00	0.00
1,100.00	16.00	306.03	1,089.64	65.27	-89.75	110.98	2.00	2.00	0.00
Start 2760.20 hold at 1183.44 MD									
1,183.44	17.67	306.03	1,169.51	79.49	-109.29	135.14	2.00	2.00	0.00
1,200.00	17.67	306.03	1,185.28	82.44	-113.36	140.17	0.00	0.00	0.00
1,300.00	17.67	306.03	1,280.57	100.30	-137.90	170.52	0.00	0.00	0.00
1,400.00	17.67	306.03	1,375.85	118.15	-162.45	200.87	0.00	0.00	0.00
1,500.00	17.67	306.03	1,471.13	136.00	-187.00	231.22	0.00	0.00	0.00
1,600.00	17.67	306.03	1,566.41	153.85	-211.54	261.57	0.00	0.00	0.00
1,700.00	17.67	306.03	1,661.70	171.70	-236.09	291.92	0.00	0.00	0.00
1,800.00	17.67	306.03	1,756.98	189.56	-260.64	322.28	0.00	0.00	0.00
1,900.00	17.67	306.03	1,852.26	207.41	-285.18	352.63	0.00	0.00	0.00
2,000.00	17.67	306.03	1,947.54	225.26	-309.73	382.98	0.00	0.00	0.00
2,100.00	17.67	306.03	2,042.83	243.11	-334.27	413.33	0.00	0.00	0.00
2,200.00	17.67	306.03	2,138.11	260.96	-358.82	443.68	0.00	0.00	0.00
2,300.00	17.67	306.03	2,233.39	278.82	-383.37	474.03	0.00	0.00	0.00
2,400.00	17.67	306.03	2,328.68	296.67	-407.91	504.38	0.00	0.00	0.00
2,500.00	17.67	306.03	2,423.96	314.52	-432.46	534.74	0.00	0.00	0.00
2,600.00	17.67	306.03	2,519.24	332.37	-457.00	565.09	0.00	0.00	0.00
2,700.00	17.67	306.03	2,614.52	350.22	-481.55	595.44	0.00	0.00	0.00
2,800.00	17.67	306.03	2,709.81	368.08	-506.10	625.79	0.00	0.00	0.00
2,900.00	17.67	306.03	2,805.09	385.93	-530.64	656.14	0.00	0.00	0.00
3,000.00	17.67	306.03	2,900.37	403.78	-555.19	686.49	0.00	0.00	0.00
3,100.00	17.67	306.03	2,995.65	421.63	-579.74	716.84	0.00	0.00	0.00
3,200.00	17.67	306.03	3,090.94	439.48	-604.28	747.20	0.00	0.00	0.00
3,300.00	17.67	306.03	3,186.22	457.34	-628.83	777.55	0.00	0.00	0.00
3,400.00	17.67	306.03	3,281.50	475.19	-653.37	807.90	0.00	0.00	0.00
3,500.00	17.67	306.03	3,376.78	493.04	-677.92	838.25	0.00	0.00	0.00
3,600.00	17.67	306.03	3,472.07	510.89	-702.47	868.60	0.00	0.00	0.00
3,700.00	17.67	306.03	3,567.35	528.74	-727.01	898.95	0.00	0.00	0.00
3,800.00	17.67	306.03	3,662.63	546.60	-751.56	929.30	0.00	0.00	0.00
3,900.00	17.67	306.03	3,757.92	564.45	-776.11	959.66	0.00	0.00	0.00
Start Drop -2.00									
3,943.64	17.67	306.03	3,799.49	572.24	-786.82	972.90	0.00	0.00	0.00
4,000.00	16.54	306.03	3,853.36	581.99	-800.22	989.48	2.00	-2.00	0.00
4,100.00	14.54	306.03	3,949.70	597.75	-821.89	1,016.27	2.00	-2.00	0.00
4,200.00	12.54	306.03	4,046.92	611.52	-840.83	1,039.68	2.00	-2.00	0.00
4,300.00	10.54	306.03	4,144.89	623.29	-857.01	1,059.69	2.00	-2.00	0.00
4,400.00	8.54	306.03	4,243.50	633.03	-870.41	1,076.27	2.00	-2.00	0.00
PARKMAN									
4,407.58	8.39	306.03	4,251.00	633.69	-871.31	1,077.38	2.00	-2.00	0.00
4,500.00	6.54	306.03	4,342.63	640.75	-881.03	1,089.39	2.00	-2.00	0.00
4,600.00	4.54	306.03	4,442.16	646.43	-888.84	1,099.05	2.00	-2.00	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 2-26SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 2-26SX		
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)
4,700.00	2.54	306.03	4,541.96	650.07	-893.83	1,105.22	2.00	-2.00	0.00
4,800.00	0.54	306.03	4,641.92	651.65	-896.01	1,107.91	2.00	-2.00	0.00
Start 300.00 hold at 4827.08 MD - SUSSEX									
4,827.08	0.00	0.00	4,669.00	651.72	-896.11	1,108.04	2.00	-2.00	0.00
4,900.00	0.00	0.00	4,741.92	651.72	-896.11	1,108.04	0.00	0.00	0.00
5,000.00	0.00	0.00	4,841.92	651.72	-896.11	1,108.04	0.00	0.00	0.00
5,100.00	0.00	0.00	4,941.92	651.72	-896.11	1,108.04	0.00	0.00	0.00
PBHL_Badding 2-26SX(810 FNL 2130 FEL)									
5,127.08	0.00	0.00	4,969.00	651.72	-896.11	1,108.04	0.00	0.00	0.00

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 2-26S	0.00	0.00	4,969.00	651.72	-896.11	1,285,373.75	3,211,838.36	40° 6' 51.336 N	104° 44' 33.256 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,058.84	1,050.00	8 5/8"	8.62	11.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,407.58	4,251.00	PARKMAN			
4,827.08	4,669.00	SUSSEX			

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
1,183.44	1,169.51	79.49	-109.29	Start 2760.20 hold at 1183.44 MD
3,943.64	3,799.49	572.24	-786.82	Start Drop -2.00
4,827.08	4,669.00	651.72	-896.11	Start 300.00 hold at 4827.08 MD
5,127.08	4,969.00	651.72	-896.11	TD at 5127.08