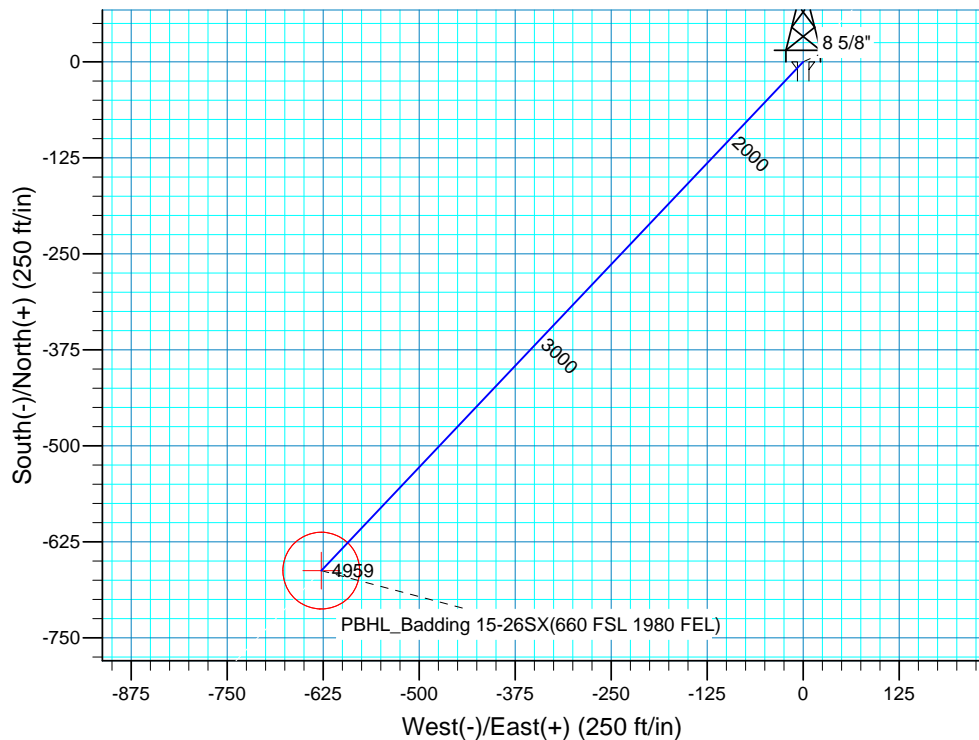
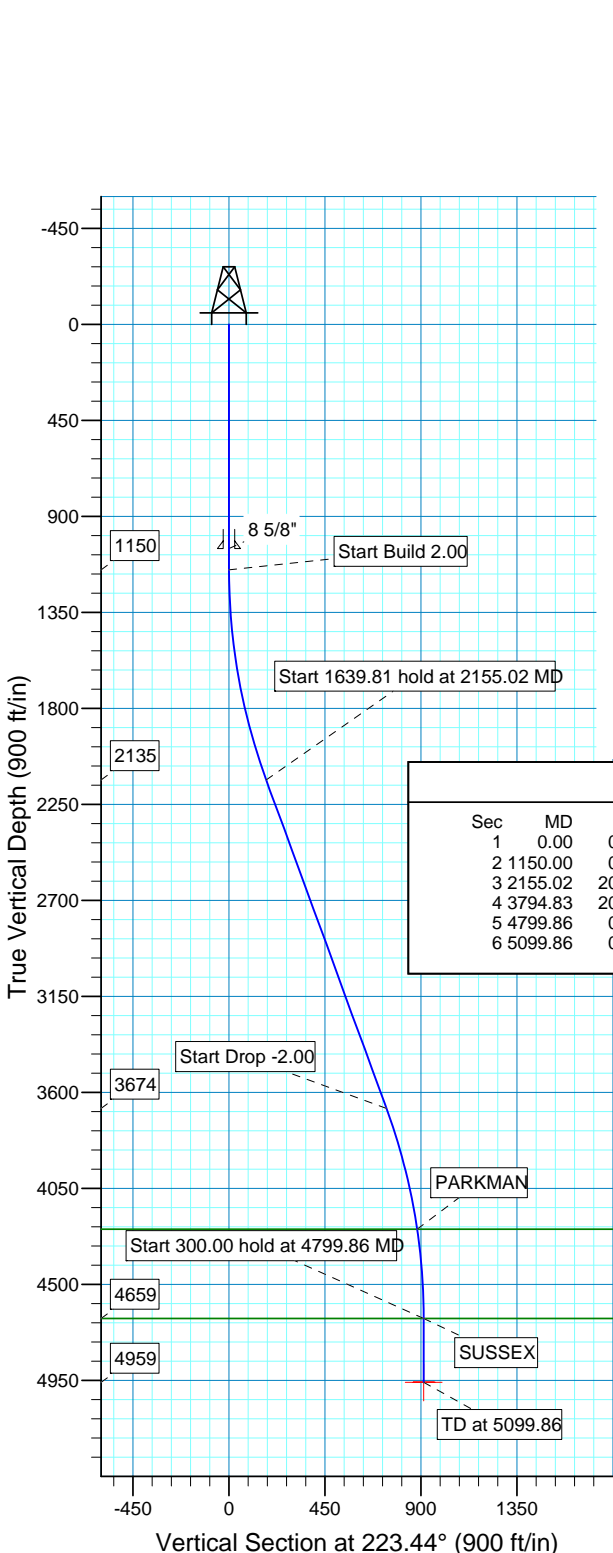


WELL DETAILS: P_Badding 15-26SX					
WELL @ 5082.00ft (Original Well Elev) 5067.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1282246.82	3212665.93	40° 6' 20.365 N	104° 44' 22.949 W

T M Azimuths to True North
 Magnetic North: 8.96°

Magnetic Field
 Strength: 53080.6snT
 Dip Angle: 66.85°
 Date: 06/22/2010
 Model: IGRF2010

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	4959.00	-662.60	-627.43	1281578.86	3212044.21	40° 6' 13.817 N	104° 44' 31.024 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	1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00	
3	2155.02	20.10	223.44	2134.53	-126.70	-119.97	2.00	223.44	174.49	
4	3794.83	20.10	223.44	3674.47	-535.90	-507.45	0.00	0.00	738.04	
5	4799.86	0.00	0.00	4659.00	-662.60	-627.43	2.00	180.00	912.53	
6	5099.86	0.00	0.00	4959.00	-662.60	-627.43	0.00	0.00	912.53	PBHL_Badding 15-26SX(660 FSL 1980 FEL)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4241.00	4380.36	PARKMAN
4659.00	4799.86	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 26 T2N R66W
System Datum:	Mean Sea Level
Local North:	True



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BADDING 20-26 PAD

P_Badding 15-26SX

P_Badding 15-26SX

Plan: PLAN #1 7-22-10 RHS

Standard Planning Report

22 July, 2010



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 15-26SX
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 20-26 PAD	North Reference:	True
Well:	P_Badding 15-26SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-26SX		
Design:	PLAN #1 7-22-10 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 20-26 PAD, SECTION 26 T2N R66W				
Site Position:		Northing:	1,282,246.75 ft	Latitude:	40° 6' 20.365 N
From:	Lat/Long	Easting:	3,212,655.87 ft	Longitude:	104° 44' 23.078 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.49 °

Well	P_Badding 15-26SX					
Well Position	+N/-S	0.00 ft	Northing:	1,282,246.82 ft	Latitude:	40° 6' 20.365 N
	+E/-W	0.00 ft	Easting:	3,212,665.93 ft	Longitude:	104° 44' 22.949 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,067.00 ft

Wellbore	P_Badding 15-26SX				
-----------------	-------------------	--	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/22/2010	8.96	66.85	53,081

Design	PLAN #1 7-22-10 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	223.44	

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	
2,155.02	20.10	223.44	2,134.53	-126.70	-119.97	2.00	2.00	0.00	223.44	
3,794.83	20.10	223.44	3,674.47	-535.90	-507.45	0.00	0.00	0.00	0.00	
4,799.86	0.00	0.00	4,659.00	-662.60	-627.43	2.00	-2.00	0.00	180.00	
5,099.86	0.00	0.00	4,959.00	-662.60	-627.43	0.00	0.00	0.00	0.00	PBHL_Badding 15-

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 15-26SX
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 20-26 PAD	North Reference:	True
Well:	P_Badding 15-26SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-26SX		
Design:	PLAN #1 7-22-10 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
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8"									
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
Start Build 2.00									
1,200.00	1.00	223.44	1,200.00	-0.32	-0.30	0.44	2.00	2.00	0.00
1,300.00	3.00	223.44	1,299.93	-2.85	-2.70	3.93	2.00	2.00	0.00
1,400.00	5.00	223.44	1,399.68	-7.92	-7.50	10.90	2.00	2.00	0.00
1,500.00	7.00	223.44	1,499.13	-15.51	-14.68	21.35	2.00	2.00	0.00
1,600.00	9.00	223.44	1,598.15	-25.61	-24.25	35.27	2.00	2.00	0.00
1,700.00	11.00	223.44	1,696.63	-38.22	-36.19	52.63	2.00	2.00	0.00
1,800.00	13.00	223.44	1,794.44	-53.31	-50.48	73.42	2.00	2.00	0.00
1,900.00	15.00	223.44	1,891.46	-70.88	-67.12	97.62	2.00	2.00	0.00
2,000.00	17.00	223.44	1,987.58	-90.89	-86.07	125.18	2.00	2.00	0.00
2,100.00	19.00	223.44	2,082.68	-113.33	-107.31	156.08	2.00	2.00	0.00
2,155.02	20.10	223.44	2,134.53	-126.70	-119.97	174.49	2.00	2.00	0.00
Start 1639.81 hold at 2155.02 MD									
2,200.00	20.10	223.44	2,176.77	-137.92	-130.60	189.95	0.00	0.00	0.00
2,300.00	20.10	223.44	2,270.68	-162.88	-154.23	224.31	0.00	0.00	0.00
2,400.00	20.10	223.44	2,364.59	-187.83	-177.86	258.68	0.00	0.00	0.00
2,500.00	20.10	223.44	2,458.50	-212.79	-201.49	293.05	0.00	0.00	0.00
2,600.00	20.10	223.44	2,552.41	-237.74	-225.12	327.41	0.00	0.00	0.00
2,700.00	20.10	223.44	2,646.32	-262.70	-248.75	361.78	0.00	0.00	0.00
2,800.00	20.10	223.44	2,740.23	-287.65	-272.38	396.15	0.00	0.00	0.00
2,900.00	20.10	223.44	2,834.14	-312.60	-296.01	430.51	0.00	0.00	0.00
3,000.00	20.10	223.44	2,928.04	-337.56	-319.64	464.88	0.00	0.00	0.00
3,100.00	20.10	223.44	3,021.95	-362.51	-343.27	499.25	0.00	0.00	0.00
3,200.00	20.10	223.44	3,115.86	-387.47	-366.90	533.61	0.00	0.00	0.00
3,300.00	20.10	223.44	3,209.77	-412.42	-390.53	567.98	0.00	0.00	0.00
3,400.00	20.10	223.44	3,303.68	-437.37	-414.16	602.35	0.00	0.00	0.00
3,500.00	20.10	223.44	3,397.59	-462.33	-437.79	636.71	0.00	0.00	0.00
3,600.00	20.10	223.44	3,491.50	-487.28	-461.42	671.08	0.00	0.00	0.00
3,700.00	20.10	223.44	3,585.41	-512.24	-485.05	705.45	0.00	0.00	0.00
3,794.83	20.10	223.44	3,674.47	-535.90	-507.45	738.04	0.00	0.00	0.00
Start Drop -2.00									
3,800.00	20.00	223.44	3,679.32	-537.19	-508.67	739.81	2.00	-2.00	0.00
3,900.00	18.00	223.44	3,773.87	-560.82	-531.05	772.36	2.00	-2.00	0.00
4,000.00	16.00	223.44	3,869.50	-582.05	-551.15	801.59	2.00	-2.00	0.00
4,100.00	14.00	223.44	3,966.08	-600.84	-568.94	827.47	2.00	-2.00	0.00
4,200.00	12.00	223.44	4,063.52	-617.17	-584.41	849.96	2.00	-2.00	0.00
4,300.00	10.00	223.44	4,161.68	-631.02	-597.52	869.03	2.00	-2.00	0.00
4,380.36	8.39	223.44	4,241.00	-640.34	-606.35	881.87	2.00	-2.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 15-26SX
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 20-26 PAD	North Reference:	True
Well:	P_Badding 15-26SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-26SX		
Design:	PLAN #1 7-22-10 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									
4,400.00	8.00	223.44	4,260.44	-642.37	-608.27	884.67	2.00	-2.00	0.00
4,500.00	6.00	223.44	4,359.69	-651.22	-616.65	896.85	2.00	-2.00	0.00
4,600.00	4.00	223.44	4,459.31	-657.54	-622.64	905.56	2.00	-2.00	0.00
4,700.00	2.00	223.44	4,559.16	-661.34	-626.23	910.79	2.00	-2.00	0.00
4,799.86	0.00	0.00	4,659.00	-662.60	-627.43	912.53	2.00	-2.00	136.76
Start 300.00 hold at 4799.86 MD - SUSSEX									
4,800.00	0.00	0.00	4,659.14	-662.60	-627.43	912.53	0.00	0.00	0.00
4,900.00	0.00	0.00	4,759.14	-662.60	-627.43	912.53	0.00	0.00	0.00
5,000.00	0.00	0.00	4,859.14	-662.60	-627.43	912.53	0.00	0.00	0.00
5,099.86	0.00	0.00	4,959.00	-662.60	-627.43	912.53	0.00	0.00	0.00
PBHL_Badding 15-26SX(660 FSL 1980 FEL)									

Targets

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_Badding 15-26			0.00	0.00	4,959.00	-662.60	-627.43	1,281,578.86	3,212,044.21	40° 6' 13.817 N	104° 44' 31.024 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"	8.620	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,380.36	4,241.00	PARKMAN			
4,799.86	4,659.00	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
2,155.02	2,134.53	-126.70	-119.97	Start 1639.81 hold at 2155.02 MD
3,794.83	3,674.47	-535.90	-507.45	Start Drop -2.00
4,799.86	4,659.00	-662.60	-627.43	Start 300.00 hold at 4799.86 MD
5,099.86	4,959.00	-662.60	-627.43	TD at 5099.86