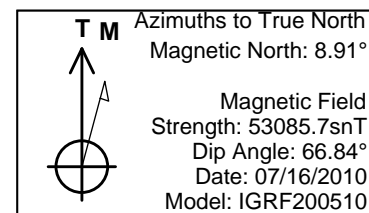
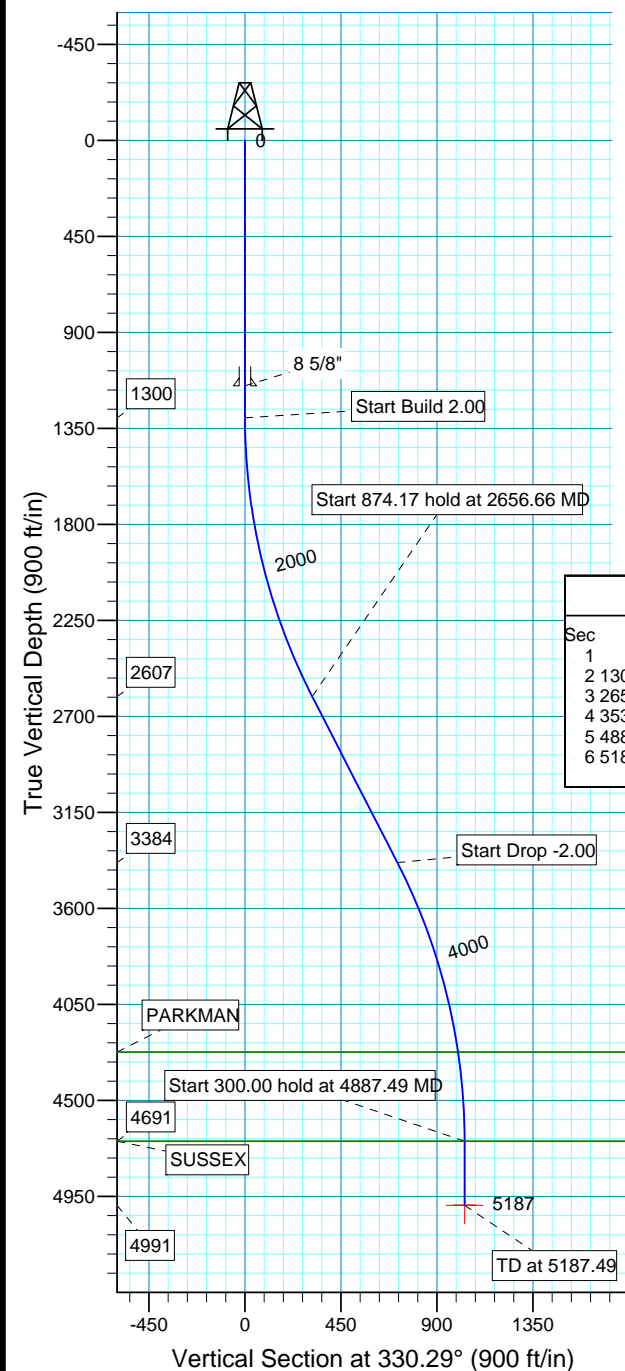
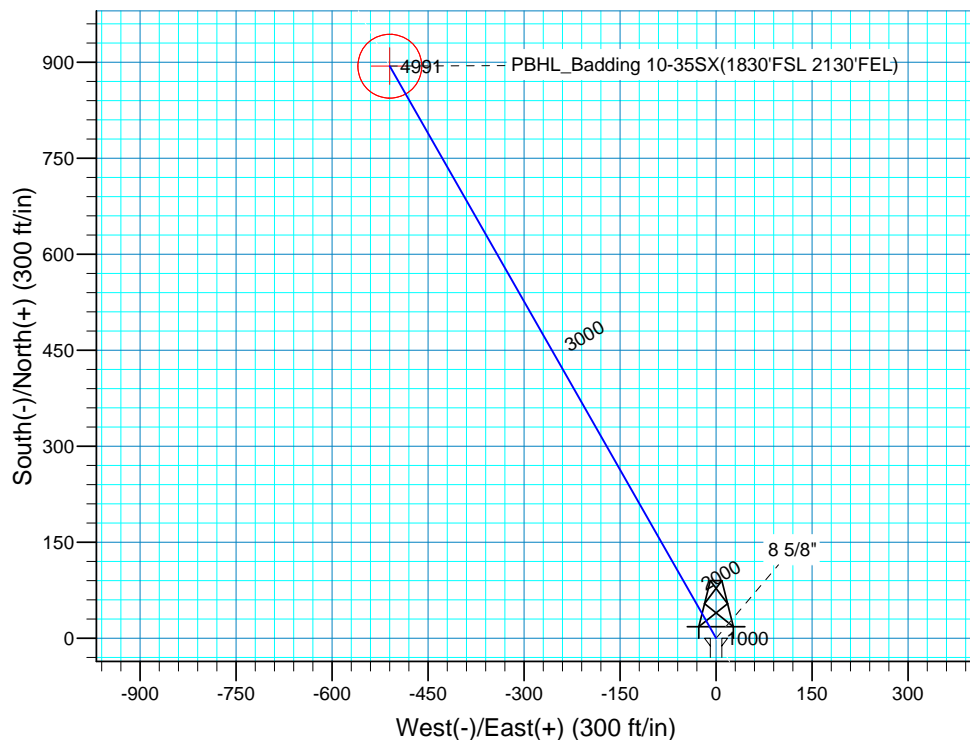


WELL DETAILS: P_Badding 10-35SX					
GL 5086' & RKB 15' @ 5101.00ft (ASSUMED) 5086.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1276511.43	3212455.74	40° 5' 23.705 N	104° 44' 26.286 W



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	4991.00	893.97	-510.03	1277400.99	3211938.07	40° 5' 32.539 N	104° 44' 32.849 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	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	
3	2656.66	27.13	330.29	2606.52	273.84	-156.23	2.00	330.29	315.27	
4	3530.83	27.13	330.29	3384.48	620.12	-353.80	0.00	0.00	713.95	
5	4887.49	0.00	0.00	4691.00	893.96	-510.03	2.00	180.00	1029.22	
6	5187.49	0.00	0.00	4991.00	893.96	-510.03	0.00	0.00	1029.22	PBHL_Badding 10-35SX(1830'FSL 2130'FEL)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4273.00	4467.99	PARKMAN
4691.00	4887.49	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: SEC 35 T2N R66
System Datum: Mean Sea Level
Local North: No north reference data is available

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_Badding 20-35 Pad

P_Badding 10-35SX

P_Badding 10-35SX

Plan: Plan #1 7-16-10 RHS

Standard Planning Report

18 July, 2010

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 10-35SX
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 10-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 10-35SX		
Design:	Plan #1 7-16-10 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 20-35 Pad, SEC 35 T2N R66				
Site Position:		Northing:	1,276,531.97 ft	Latitude:	40° 5' 23.903 N
From:	Lat/Long	Easting:	3,212,512.08 ft	Longitude:	104° 44' 25.559 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.49 °

Well	P_Badding 10-35SX, 932' FSL 1621' FEL					
Well Position	+N-S	0.00 ft	Northing:	1,276,511.43 ft	Latitude:	40° 5' 23.705 N
	+E-W	0.00 ft	Easting:	3,212,455.74 ft	Longitude:	104° 44' 26.286 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,086.00 ft

Wellbore	P_Badding 10-35SX				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/16/10	8.91	66.84	53,086

Design	Plan #1 7-16-10 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	330.29

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	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,656.66	27.13	330.29	2,606.52	273.84	-156.23	2.00	2.00	0.00	330.29	
3,530.83	27.13	330.29	3,384.48	620.12	-353.80	0.00	0.00	0.00	0.00	
4,887.49	0.00	0.00	4,691.00	893.96	-510.03	2.00	-2.00	0.00	180.00	
5,187.49	0.00	0.00	4,991.00	893.96	-510.03	0.00	0.00	0.00	0.00	PBHL_Badding 10-

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 10-35SX
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 10-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 10-35SX		
Design:	Plan #1 7-16-10 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
1,100.00	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
8 5/8"									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,400.00	2.00	330.29	1,399.98	1.52	-0.86	1.75	2.00	2.00	0.00
1,500.00	4.00	330.29	1,499.84	6.06	-3.46	6.98	2.00	2.00	0.00
1,600.00	6.00	330.29	1,599.45	13.63	-7.78	15.69	2.00	2.00	0.00
1,700.00	8.00	330.29	1,698.70	24.22	-13.82	27.88	2.00	2.00	0.00
1,800.00	10.00	330.29	1,797.47	37.80	-21.57	43.52	2.00	2.00	0.00
1,900.00	12.00	330.29	1,895.62	54.38	-31.02	62.60	2.00	2.00	0.00
2,000.00	14.00	330.29	1,993.06	73.91	-42.17	85.10	2.00	2.00	0.00
2,100.00	16.00	330.29	2,089.64	96.39	-54.99	110.98	2.00	2.00	0.00
2,200.00	18.00	330.29	2,185.27	121.79	-69.48	140.21	2.00	2.00	0.00
2,300.00	20.00	330.29	2,279.82	150.06	-85.61	172.77	2.00	2.00	0.00
2,400.00	22.00	330.29	2,373.17	181.19	-103.37	208.60	2.00	2.00	0.00
2,500.00	24.00	330.29	2,465.21	215.12	-122.73	247.67	2.00	2.00	0.00
2,600.00	26.00	330.29	2,555.84	251.83	-143.68	289.93	2.00	2.00	0.00
2,656.66	27.13	330.29	2,606.52	273.84	-156.23	315.27	2.00	2.00	0.00
Start 874.17 hold at 2656.66 MD									
2,700.00	27.13	330.29	2,645.09	291.01	-166.03	335.04	0.00	0.00	0.00
2,800.00	27.13	330.29	2,734.08	330.62	-188.63	380.65	0.00	0.00	0.00
2,900.00	27.13	330.29	2,823.08	370.23	-211.23	426.25	0.00	0.00	0.00
3,000.00	27.13	330.29	2,912.07	409.85	-233.83	471.86	0.00	0.00	0.00
3,100.00	27.13	330.29	3,001.07	449.46	-256.43	517.46	0.00	0.00	0.00
3,200.00	27.13	330.29	3,090.06	489.07	-279.03	563.07	0.00	0.00	0.00
3,300.00	27.13	330.29	3,179.06	528.68	-301.63	608.68	0.00	0.00	0.00
3,400.00	27.13	330.29	3,268.05	568.30	-324.23	654.28	0.00	0.00	0.00
3,500.00	27.13	330.29	3,357.05	607.91	-346.83	699.89	0.00	0.00	0.00
3,530.83	27.13	330.29	3,384.48	620.12	-353.80	713.95	0.00	0.00	0.00
Start Drop -2.00									
3,600.00	25.75	330.29	3,446.42	646.87	-369.06	744.75	2.00	-2.00	0.00
3,700.00	23.75	330.29	3,537.23	683.23	-389.80	786.61	2.00	-2.00	0.00
3,800.00	21.75	330.29	3,629.44	716.82	-408.97	825.28	2.00	-2.00	0.00
3,900.00	19.75	330.29	3,722.95	747.59	-426.52	860.71	2.00	-2.00	0.00
4,000.00	17.75	330.29	3,817.64	775.51	-442.45	892.85	2.00	-2.00	0.00
4,100.00	15.75	330.29	3,913.39	800.54	-456.73	921.67	2.00	-2.00	0.00
4,200.00	13.75	330.29	4,010.09	822.65	-469.35	947.12	2.00	-2.00	0.00
4,300.00	11.75	330.29	4,107.62	841.82	-480.28	969.19	2.00	-2.00	0.00
4,400.00	9.75	330.29	4,205.86	858.02	-489.53	987.84	2.00	-2.00	0.00
4,467.99	8.39	330.29	4,273.00	867.33	-494.84	998.56	2.00	-2.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 10-35SX
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5086' & RKB 15' @ 5101.00ft (ASSUMED)
Site:	WELD_Badding 20-35 Pad	North Reference:	True
Well:	P_Badding 10-35SX	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 10-35SX		
Design:	Plan #1 7-16-10 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	7.75	330.29	4,304.69	871.23	-497.06	1,003.06	2.00	-2.00	0.00
4,600.00	5.75	330.29	4,403.99	881.44	-502.89	1,014.81	2.00	-2.00	0.00
4,700.00	3.75	330.29	4,503.65	888.63	-506.99	1,023.09	2.00	-2.00	0.00
4,800.00	1.75	330.29	4,603.53	892.80	-509.37	1,027.89	2.00	-2.00	0.00
4,887.49	0.00	0.00	4,691.00	893.96	-510.03	1,029.22	2.00	-2.00	0.00
Start 300.00 hold at 4887.49 MD - SUSSEX									
4,900.00	0.00	0.00	4,703.51	893.96	-510.03	1,029.22	0.00	0.00	0.00
5,000.00	0.00	0.00	4,803.51	893.96	-510.03	1,029.22	0.00	0.00	0.00
5,100.00	0.00	0.00	4,903.51	893.96	-510.03	1,029.22	0.00	0.00	0.00
5,187.49	0.00	0.00	4,991.00	893.96	-510.03	1,029.22	0.00	0.00	0.00
PBHL_Badding 10-35SX(1830'FSL 2130'FEL)									

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 10-35	0.00	0.00	4,991.00	893.97	-510.03	1,277,400.99	3,211,938.07	40° 5' 32.539 N	104° 44' 32.849 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,150.00	1,150.00	8 5/8"	8.62	11.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,467.99	4,273.00	PARKMAN			
4,887.49	4,691.00	SUSSEX			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,300.00	1,300.00	0.00	0.00	Start Build 2.00
2,656.66	2,606.52	273.84	-156.23	Start 874.17 hold at 2656.66 MD
3,530.83	3,384.48	620.12	-353.80	Start Drop -2.00
4,887.49	4,691.00	893.96	-510.03	Start 300.00 hold at 4887.49 MD
5,187.49	4,991.00	893.96	-510.03	TD at 5187.49