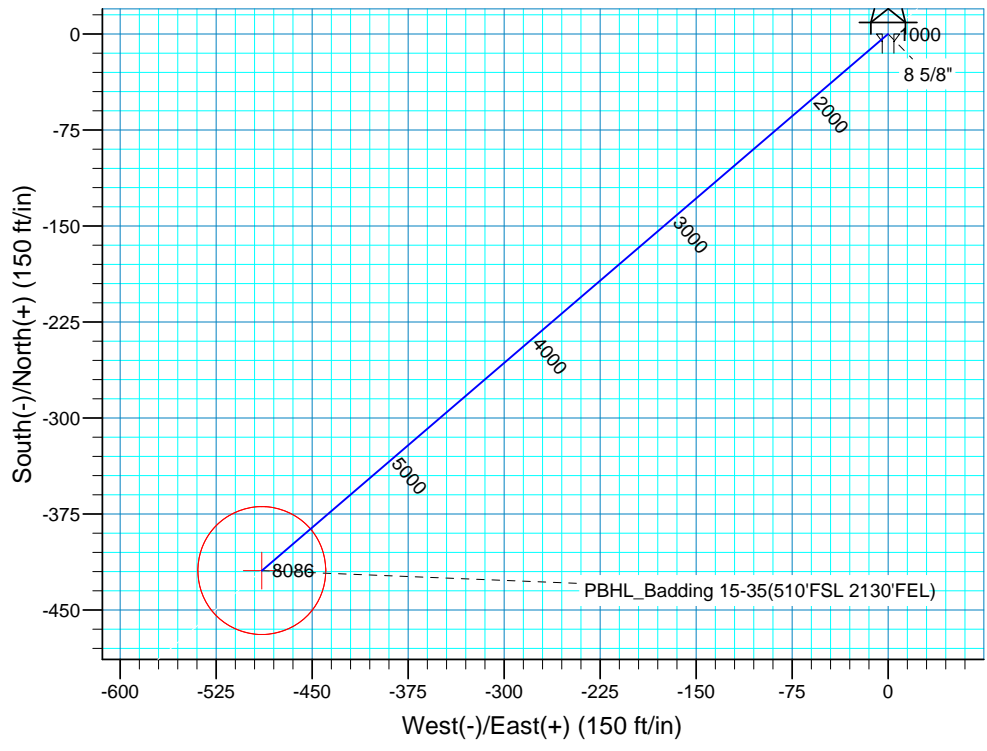
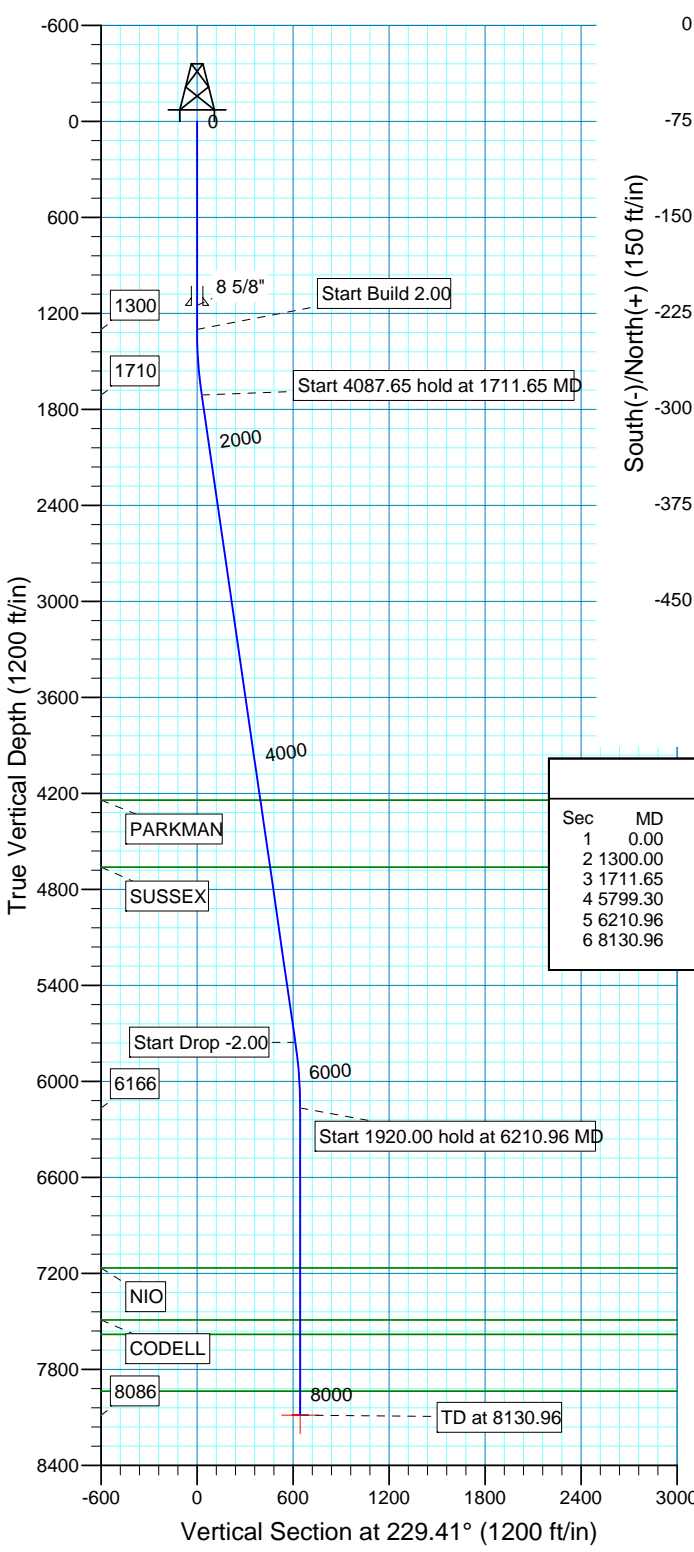


WELL DETAILS: P_Badding 15-35					
GL 5086' & RKB 15' @ 5101.00ft (ASSUMED) 5086.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1276504.37	3212437.05	40° 5' 23.636 N	104° 44' 26.527 W

T M Azimuths to True North
 Magnetic North: 8.91°
 Magnetic Field
 Strength: 53085.6snT
 Dip Angle: 66.84°
 Date: 07/16/2010
 Model: IGRF200510

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8086.00	-419.28	-489.35	1276080.92	3211951.31	40° 5' 19.493 N	104° 44' 32.824 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	1711.65	8.23	229.41	1710.24	-19.21	-22.42	2.00	229.41	29.53	
4	5799.30	8.23	229.41	5755.76	-400.06	-466.93	0.00	0.00	614.88	
5	6210.96	0.00	0.00	6166.00	-419.28	-489.35	2.00	180.00	644.40	
6	8130.96	0.00	0.00	8086.00	-419.28	-489.35	0.00	0.00	644.40	PBHL_Badding 15-35(510'FSL 2130'FEL)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4243.00	4270.79	PARKMAN
4661.00	4693.14	SUSSEX
7166.00	7210.96	NIO
7491.00	7535.96	CODELL
7581.00	7625.96	GREENHORN
7936.00	7980.96	JSAND

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



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_Badding 20-35 Pad

P_Badding 15-35

P_Badding 15-35

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 15-35
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 15-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-35		
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 15-35, 925' FSL 1640' FEL					
Well Position	+N/-S	0.00 ft	Northing:	1,276,504.37 ft	Latitude:	40° 5' 23.636 N
	+E/-W	0.00 ft	Easting:	3,212,437.05 ft	Longitude:	104° 44' 26.527 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,086.00 ft

Wellbore	P_Badding 15-35				
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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				
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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	229.41

Plan Sections										
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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	
1,711.65	8.23	229.41	1,710.24	-19.21	-22.42	2.00	2.00	0.00	229.41	
5,799.30	8.23	229.41	5,755.76	-400.06	-466.93	0.00	0.00	0.00	0.00	
6,210.96	0.00	0.00	6,166.00	-419.28	-489.35	2.00	-2.00	0.00	180.00	
8,130.96	0.00	0.00	8,086.00	-419.28	-489.35	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 15-35
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 15-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-35		
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	229.41	1,399.98	-1.14	-1.33	1.75	2.00	2.00	0.00
1,500.00	4.00	229.41	1,499.84	-4.54	-5.30	6.98	2.00	2.00	0.00
1,600.00	6.00	229.41	1,599.45	-10.21	-11.92	15.69	2.00	2.00	0.00
1,700.00	8.00	229.41	1,698.70	-18.14	-21.17	27.88	2.00	2.00	0.00
1,711.65	8.23	229.41	1,710.24	-19.21	-22.42	29.53	2.00	2.00	0.00
Start 4087.65 hold at 1711.65 MD									
1,800.00	8.23	229.41	1,797.67	-27.44	-32.03	42.18	0.00	0.00	0.00
1,900.00	8.23	229.41	1,896.64	-36.76	-42.90	56.50	0.00	0.00	0.00
2,000.00	8.23	229.41	1,995.61	-46.08	-53.78	70.82	0.00	0.00	0.00
2,100.00	8.23	229.41	2,094.58	-55.39	-64.65	85.14	0.00	0.00	0.00
2,200.00	8.23	229.41	2,193.55	-64.71	-75.53	99.46	0.00	0.00	0.00
2,300.00	8.23	229.41	2,292.52	-74.03	-86.40	113.78	0.00	0.00	0.00
2,400.00	8.23	229.41	2,391.49	-83.34	-97.27	128.10	0.00	0.00	0.00
2,500.00	8.23	229.41	2,490.46	-92.66	-108.15	142.42	0.00	0.00	0.00
2,600.00	8.23	229.41	2,589.43	-101.98	-119.02	156.74	0.00	0.00	0.00
2,700.00	8.23	229.41	2,688.40	-111.30	-129.90	171.06	0.00	0.00	0.00
2,800.00	8.23	229.41	2,787.37	-120.61	-140.77	185.38	0.00	0.00	0.00
2,900.00	8.23	229.41	2,886.34	-129.93	-151.65	199.70	0.00	0.00	0.00
3,000.00	8.23	229.41	2,985.31	-139.25	-162.52	214.02	0.00	0.00	0.00
3,100.00	8.23	229.41	3,084.28	-148.57	-173.40	228.34	0.00	0.00	0.00
3,200.00	8.23	229.41	3,183.25	-157.88	-184.27	242.66	0.00	0.00	0.00
3,300.00	8.23	229.41	3,282.21	-167.20	-195.15	256.98	0.00	0.00	0.00
3,400.00	8.23	229.41	3,381.18	-176.52	-206.02	271.30	0.00	0.00	0.00
3,500.00	8.23	229.41	3,480.15	-185.83	-216.89	285.62	0.00	0.00	0.00
3,600.00	8.23	229.41	3,579.12	-195.15	-227.77	299.94	0.00	0.00	0.00
3,700.00	8.23	229.41	3,678.09	-204.47	-238.64	314.26	0.00	0.00	0.00
3,800.00	8.23	229.41	3,777.06	-213.79	-249.52	328.58	0.00	0.00	0.00
3,900.00	8.23	229.41	3,876.03	-223.10	-260.39	342.90	0.00	0.00	0.00
4,000.00	8.23	229.41	3,975.00	-232.42	-271.27	357.22	0.00	0.00	0.00
4,100.00	8.23	229.41	4,073.97	-241.74	-282.14	371.54	0.00	0.00	0.00
4,200.00	8.23	229.41	4,172.94	-251.05	-293.02	385.86	0.00	0.00	0.00
4,270.79	8.23	229.41	4,243.00	-257.65	-300.71	396.00	0.00	0.00	0.00
PARKMAN									
4,300.00	8.23	229.41	4,271.91	-260.37	-303.89	400.18	0.00	0.00	0.00
4,400.00	8.23	229.41	4,370.88	-269.69	-314.76	414.50	0.00	0.00	0.00
4,500.00	8.23	229.41	4,469.85	-279.01	-325.64	428.82	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 15-35
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 15-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-35		
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)
4,600.00	8.23	229.41	4,568.82	-288.32	-336.51	443.14	0.00	0.00	0.00
4,693.14	8.23	229.41	4,661.00	-297.00	-346.64	456.48	0.00	0.00	0.00
SUSSEX									
4,700.00	8.23	229.41	4,667.79	-297.64	-347.39	457.46	0.00	0.00	0.00
4,800.00	8.23	229.41	4,766.76	-306.96	-358.26	471.78	0.00	0.00	0.00
4,900.00	8.23	229.41	4,865.72	-316.27	-369.14	486.10	0.00	0.00	0.00
5,000.00	8.23	229.41	4,964.69	-325.59	-380.01	500.42	0.00	0.00	0.00
5,100.00	8.23	229.41	5,063.66	-334.91	-390.89	514.74	0.00	0.00	0.00
5,200.00	8.23	229.41	5,162.63	-344.23	-401.76	529.06	0.00	0.00	0.00
5,300.00	8.23	229.41	5,261.60	-353.54	-412.63	543.38	0.00	0.00	0.00
5,400.00	8.23	229.41	5,360.57	-362.86	-423.51	557.70	0.00	0.00	0.00
5,500.00	8.23	229.41	5,459.54	-372.18	-434.38	572.02	0.00	0.00	0.00
5,600.00	8.23	229.41	5,558.51	-381.50	-445.26	586.34	0.00	0.00	0.00
5,700.00	8.23	229.41	5,657.48	-390.81	-456.13	600.66	0.00	0.00	0.00
5,799.30	8.23	229.41	5,755.76	-400.06	-466.93	614.88	0.00	0.00	0.00
Start Drop -2.00									
5,800.00	8.22	229.41	5,756.45	-400.13	-467.01	614.98	2.00	-2.00	0.00
5,900.00	6.22	229.41	5,855.65	-408.31	-476.55	627.54	2.00	-2.00	0.00
6,000.00	4.22	229.41	5,955.23	-414.22	-483.46	636.64	2.00	-2.00	0.00
6,100.00	2.22	229.41	6,055.07	-417.88	-487.72	642.26	2.00	-2.00	0.00
6,200.00	0.22	229.41	6,155.04	-419.26	-489.34	644.38	2.00	-2.00	0.00
6,210.96	0.00	0.00	6,166.00	-419.28	-489.35	644.40	2.00	-2.00	0.00
Start 1920.00 hold at 6210.96 MD									
6,300.00	0.00	0.00	6,255.04	-419.28	-489.35	644.40	0.00	0.00	0.00
6,400.00	0.00	0.00	6,355.04	-419.28	-489.35	644.40	0.00	0.00	0.00
6,500.00	0.00	0.00	6,455.04	-419.28	-489.35	644.40	0.00	0.00	0.00
6,600.00	0.00	0.00	6,555.04	-419.28	-489.35	644.40	0.00	0.00	0.00
6,700.00	0.00	0.00	6,655.04	-419.28	-489.35	644.40	0.00	0.00	0.00
6,800.00	0.00	0.00	6,755.04	-419.28	-489.35	644.40	0.00	0.00	0.00
6,900.00	0.00	0.00	6,855.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,000.00	0.00	0.00	6,955.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,100.00	0.00	0.00	7,055.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,200.00	0.00	0.00	7,155.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,210.96	0.00	0.00	7,166.00	-419.28	-489.35	644.40	0.00	0.00	0.00
NIO									
7,300.00	0.00	0.00	7,255.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,400.00	0.00	0.00	7,355.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,500.00	0.00	0.00	7,455.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,535.96	0.00	0.00	7,491.00	-419.28	-489.35	644.40	0.00	0.00	0.00
CODELL									
7,600.00	0.00	0.00	7,555.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,625.96	0.00	0.00	7,581.00	-419.28	-489.35	644.40	0.00	0.00	0.00
GREENHORN									
7,700.00	0.00	0.00	7,655.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,800.00	0.00	0.00	7,755.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,900.00	0.00	0.00	7,855.04	-419.28	-489.35	644.40	0.00	0.00	0.00
7,980.96	0.00	0.00	7,936.00	-419.28	-489.35	644.40	0.00	0.00	0.00
JSAND									
8,000.00	0.00	0.00	7,955.04	-419.28	-489.35	644.40	0.00	0.00	0.00
8,100.00	0.00	0.00	8,055.04	-419.28	-489.35	644.40	0.00	0.00	0.00
8,130.96	0.00	0.00	8,086.00	-419.28	-489.35	644.40	0.00	0.00	0.00
PBHL_Badding 15-35(510'FSL 2130'FEL)									

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 15-35
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 15-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 15-35		
Design:	Plan #1 7-16-10 RHS		

Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_Badding 15-35	- plan hits target center	0.00	0.00	8,086.00	-419.28	-489.35	1,276,080.92	3,211,951.31	40° 5' 19.493 N	104° 44' 32.824 W
	- 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 (°)	
4,270.79	4,243.00	PARKMAN				
7,980.96	7,936.00	JSAND				
7,625.96	7,581.00	GREENHORN				
4,693.14	4,661.00	SUSSEX				
7,535.96	7,491.00	CODELL				
7,210.96	7,166.00	NIO				

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	
1,711.65	1,710.24	-19.21	-22.42	Start 4087.65 hold at 1711.65 MD	
5,799.30	5,755.76	-400.06	-466.93	Start Drop -2.00	
6,210.96	6,166.00	-419.28	-489.35	Start 1920.00 hold at 6210.96 MD	
8,130.96	8,086.00	-419.28	-489.35	TD at 8130.96	