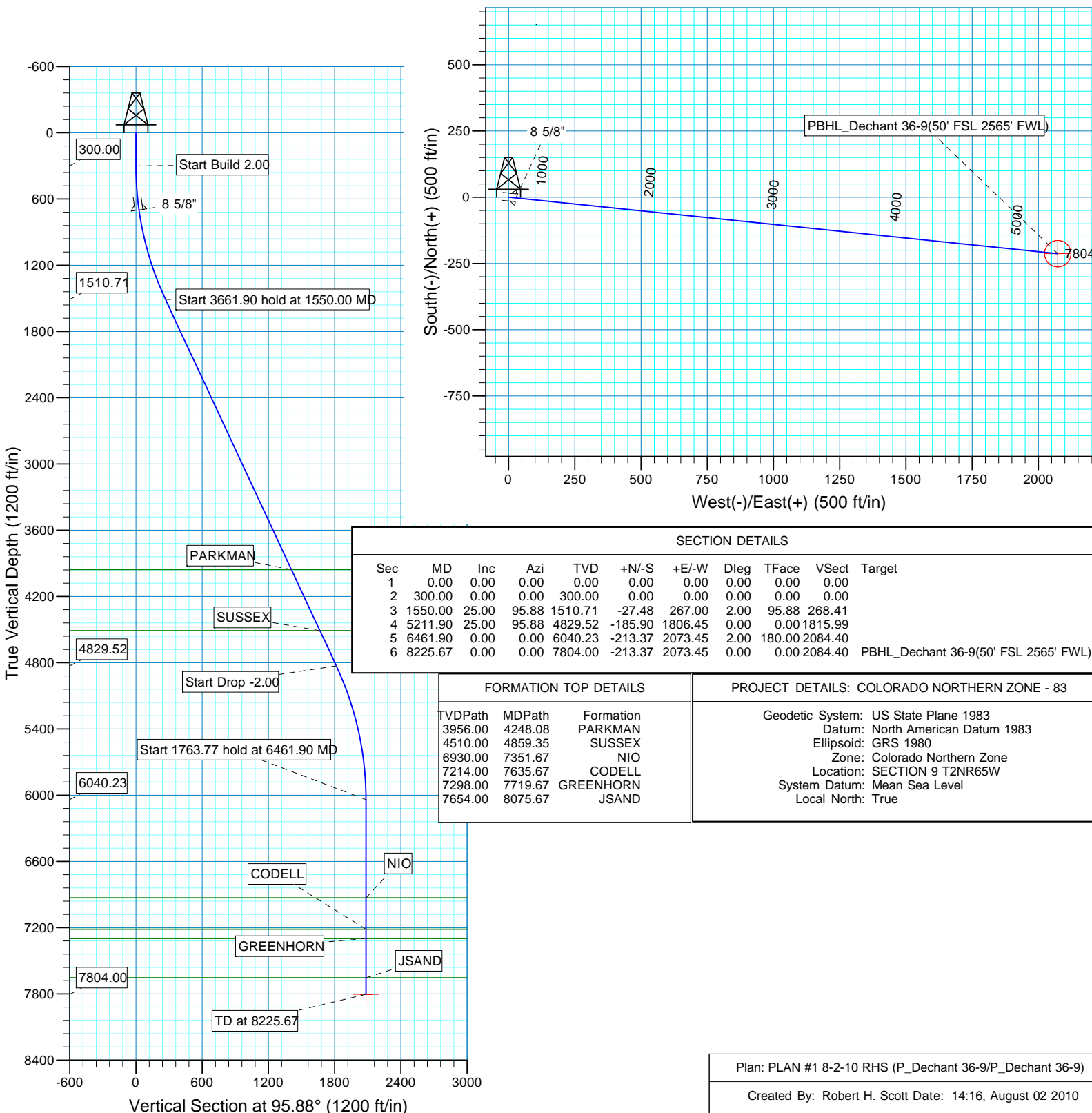


WELL DETAILS: P_Dechant 36-9					
GL 4894' & RKB 15' @ 4909.00ft (ASSUMED) 4894.00					
+N/-S	+E/-W	North	Easting	Latitude	Longitude
0.00	0.00	1297353.01	3230169.45	40° 8' 48.102 N	104° 40' 35.882 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	North	Easting	Latitude	Longitude	Shape
PBHL	7804.00	-213.37	2073.45	1297158.90	3232244.79	40° 8' 45.992 N	104° 40' 9.181 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	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	1550.00	25.00	95.88	1510.71	-27.48	267.00	2.00	95.88	268.41	
4	5211.90	25.00	95.88	4829.52	-185.90	1806.45	0.00	0.00	1815.99	
5	6461.90	0.00	0.00	6040.23	-213.37	2073.45	2.00	180.00	2084.40	
6	8225.67	0.00	0.00	7804.00	-213.37	2073.45	0.00	0.00	2084.40	PBHL_Dechant 36-9(50' FSL 2565' FWL)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3956.00	4248.08	PARKMAN
4510.00	4859.35	SUSSEX
6930.00	7351.67	NIO
7214.00	7635.67	CODELL
7298.00	7719.67	GREENHORN
7654.00	8075.67	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: SECTION 9 T2NR65W	
System Datum: Mean Sea Level	
Local North: True	

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_Dechant 14-9 pad

P_Dechant 36-9

P_Dechant 36-9

Plan: PLAN #1 8-2-10 RHS

Standard Planning Report

02 August, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_Dechant 36-9
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4894' & RKB 15' @ 4909.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4894' & RKB 15' @ 4909.00ft (ASSUMED)
Site:	WELD_Dechant 14-9 pad	North Reference:	True
Well:	P_Dechant 36-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Dechant 36-9		
Design:	PLAN #1 8-2-10 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_Dechant 14-9 pad, SECTION 9 T2NR65W			
Site Position:		Northing:	1,297,364.57 usft	Latitude:	40° 8' 48.217 N
From:	Lat/Long	Easting:	3,230,158.17 usft	Longitude:	104° 40' 36.026 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.53 °

Well	P_Dechant 36-9, 267' FSL 490' FWL					
Well Position	+N/-S	-11.67 ft	Northing:	1,297,353.01 usft	Latitude:	40° 8' 48.102 N
	+E/-W	11.18 ft	Easting:	3,230,169.46 usft	Longitude:	104° 40' 35.882 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,894.00 ft

Wellbore	P_Dechant 36-9				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/01/2010	8.92	66.89	53,108

Design	PLAN #1 8-2-10 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	95.88

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	
1,550.00	25.00	95.88	1,510.71	-27.48	267.00	2.00	2.00	0.00	95.88	
5,211.90	25.00	95.88	4,829.52	-185.90	1,806.45	0.00	0.00	0.00	0.00	
6,461.90	0.00	0.00	6,040.23	-213.37	2,073.45	2.00	-2.00	0.00	180.00	
8,225.67	0.00	0.00	7,804.00	-213.37	2,073.45	0.00	0.00	0.00	0.00	PBHL_Dechant 36-9(

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_Dechant 36-9
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4894' & RKB 15' @ 4909.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4894' & RKB 15' @ 4909.00ft (ASSUMED)
Site:	WELD_Dechant 14-9 pad	North Reference:	True
Well:	P_Dechant 36-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Dechant 36-9		
Design:	PLAN #1 8-2-10 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
Start Build 2.00									
400.00	2.00	95.88	399.98	-0.18	1.74	1.75	2.00	2.00	0.00
500.00	4.00	95.88	499.84	-0.71	6.94	6.98	2.00	2.00	0.00
600.00	6.00	95.88	599.45	-1.61	15.61	15.69	2.00	2.00	0.00
700.00	8.00	95.88	698.70	-2.85	27.73	27.88	2.00	2.00	0.00
701.31	8.03	95.88	700.00	-2.87	27.92	28.06	2.00	2.00	0.00
8 5/8"									
800.00	10.00	95.88	797.47	-4.46	43.29	43.52	2.00	2.00	0.00
900.00	12.00	95.88	895.62	-6.41	62.27	62.60	2.00	2.00	0.00
1,000.00	14.00	95.88	993.06	-8.71	84.65	85.10	2.00	2.00	0.00
1,100.00	16.00	95.88	1,089.64	-11.36	110.39	110.98	2.00	2.00	0.00
1,200.00	18.00	95.88	1,185.27	-14.35	139.48	140.21	2.00	2.00	0.00
1,300.00	20.00	95.88	1,279.82	-17.69	171.86	172.77	2.00	2.00	0.00
1,400.00	22.00	95.88	1,373.17	-21.35	207.51	208.60	2.00	2.00	0.00
1,500.00	24.00	95.88	1,465.21	-25.35	246.37	247.67	2.00	2.00	0.00
1,550.00	25.00	95.88	1,510.71	-27.48	267.00	268.41	2.00	2.00	0.00
Start 3661.90 hold at 1550.00 MD									
1,600.00	25.00	95.88	1,556.03	-29.64	288.02	289.54	0.00	0.00	0.00
1,700.00	25.00	95.88	1,646.66	-33.97	330.06	331.80	0.00	0.00	0.00
1,800.00	25.00	95.88	1,737.29	-38.29	372.10	374.06	0.00	0.00	0.00
1,900.00	25.00	95.88	1,827.92	-42.62	414.14	416.32	0.00	0.00	0.00
2,000.00	25.00	95.88	1,918.55	-46.94	456.18	458.59	0.00	0.00	0.00
2,100.00	25.00	95.88	2,009.18	-51.27	498.22	500.85	0.00	0.00	0.00
2,200.00	25.00	95.88	2,099.81	-55.60	540.26	543.11	0.00	0.00	0.00
2,300.00	25.00	95.88	2,190.44	-59.92	582.30	585.37	0.00	0.00	0.00
2,400.00	25.00	95.88	2,281.07	-64.25	624.34	627.63	0.00	0.00	0.00
2,500.00	25.00	95.88	2,371.70	-68.58	666.38	669.90	0.00	0.00	0.00
2,600.00	25.00	95.88	2,462.34	-72.90	708.42	712.16	0.00	0.00	0.00
2,700.00	25.00	95.88	2,552.97	-77.23	750.46	754.42	0.00	0.00	0.00
2,800.00	25.00	95.88	2,643.60	-81.55	792.50	796.68	0.00	0.00	0.00
2,900.00	25.00	95.88	2,734.23	-85.88	834.54	838.94	0.00	0.00	0.00
3,000.00	25.00	95.88	2,824.86	-90.21	876.58	881.20	0.00	0.00	0.00
3,100.00	25.00	95.88	2,915.49	-94.53	918.62	923.47	0.00	0.00	0.00
3,200.00	25.00	95.88	3,006.12	-98.86	960.66	965.73	0.00	0.00	0.00
3,300.00	25.00	95.88	3,096.75	-103.18	1,002.70	1,007.99	0.00	0.00	0.00
3,400.00	25.00	95.88	3,187.38	-107.51	1,044.73	1,050.25	0.00	0.00	0.00
3,500.00	25.00	95.88	3,278.01	-111.84	1,086.77	1,092.51	0.00	0.00	0.00
3,600.00	25.00	95.88	3,368.64	-116.16	1,128.81	1,134.78	0.00	0.00	0.00
3,700.00	25.00	95.88	3,459.27	-120.49	1,170.85	1,177.04	0.00	0.00	0.00
3,800.00	25.00	95.88	3,549.90	-124.82	1,212.89	1,219.30	0.00	0.00	0.00
3,900.00	25.00	95.88	3,640.54	-129.14	1,254.93	1,261.56	0.00	0.00	0.00
4,000.00	25.00	95.88	3,731.17	-133.47	1,296.97	1,303.82	0.00	0.00	0.00
4,100.00	25.00	95.88	3,821.80	-137.79	1,339.01	1,346.09	0.00	0.00	0.00
4,200.00	25.00	95.88	3,912.43	-142.12	1,381.05	1,388.35	0.00	0.00	0.00
4,248.08	25.00	95.88	3,956.00	-144.20	1,401.26	1,408.66	0.00	0.00	0.00
PARKMAN									
4,300.00	25.00	95.88	4,003.06	-146.45	1,423.09	1,430.61	0.00	0.00	0.00
4,400.00	25.00	95.88	4,093.69	-150.77	1,465.13	1,472.87	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_Dechant 36-9
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4894' & RKB 15' @ 4909.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4894' & RKB 15' @ 4909.00ft (ASSUMED)
Site:	WELD_Dechant 14-9 pad	North Reference:	True
Well:	P_Dechant 36-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Dechant 36-9		
Design:	PLAN #1 8-2-10 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)	
4,500.00	25.00	95.88	4,184.32	-155.10	1,507.17	1,515.13	0.00	0.00	0.00	
4,600.00	25.00	95.88	4,274.95	-159.43	1,549.21	1,557.39	0.00	0.00	0.00	
4,700.00	25.00	95.88	4,365.58	-163.75	1,591.25	1,599.66	0.00	0.00	0.00	
4,800.00	25.00	95.88	4,456.21	-168.08	1,633.29	1,641.92	0.00	0.00	0.00	
4,859.35	25.00	95.88	4,510.00	-170.65	1,658.24	1,667.00	0.00	0.00	0.00	
SUSSEX										
4,900.00	25.00	95.88	4,546.84	-172.40	1,675.33	1,684.18	0.00	0.00	0.00	
5,000.00	25.00	95.88	4,637.47	-176.73	1,717.37	1,726.44	0.00	0.00	0.00	
5,100.00	25.00	95.88	4,728.10	-181.06	1,759.41	1,768.70	0.00	0.00	0.00	
5,200.00	25.00	95.88	4,818.74	-185.38	1,801.45	1,810.97	0.00	0.00	0.00	
5,211.90	25.00	95.88	4,829.52	-185.90	1,806.45	1,815.99	0.00	0.00	0.00	
Start Drop -2.00										
5,300.00	23.24	95.88	4,909.93	-189.58	1,842.26	1,851.99	2.00	-2.00	0.00	
5,400.00	21.24	95.88	5,002.48	-193.46	1,879.91	1,889.84	2.00	-2.00	0.00	
5,500.00	19.24	95.88	5,096.31	-197.00	1,914.32	1,924.43	2.00	-2.00	0.00	
5,600.00	17.24	95.88	5,191.28	-200.20	1,945.45	1,955.72	2.00	-2.00	0.00	
5,700.00	15.24	95.88	5,287.28	-203.06	1,973.26	1,983.68	2.00	-2.00	0.00	
5,800.00	13.24	95.88	5,384.21	-205.58	1,997.73	2,008.28	2.00	-2.00	0.00	
5,900.00	11.24	95.88	5,481.93	-207.75	2,018.81	2,029.47	2.00	-2.00	0.00	
6,000.00	9.24	95.88	5,580.33	-209.57	2,036.49	2,047.25	2.00	-2.00	0.00	
6,100.00	7.24	95.88	5,679.29	-211.04	2,050.74	2,061.57	2.00	-2.00	0.00	
6,200.00	5.24	95.88	5,778.70	-212.15	2,061.55	2,072.44	2.00	-2.00	0.00	
6,300.00	3.24	95.88	5,878.42	-212.91	2,068.90	2,079.83	2.00	-2.00	0.00	
6,400.00	1.24	95.88	5,978.34	-213.31	2,072.79	2,083.73	2.00	-2.00	0.00	
6,461.90	0.00	0.00	6,040.23	-213.37	2,073.45	2,084.40	2.00	-2.00	0.00	
Start 1763.77 hold at 6461.90 MD										
6,500.00	0.00	0.00	6,078.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,178.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,278.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,378.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,478.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,578.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,678.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,200.00	0.00	0.00	6,778.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,300.00	0.00	0.00	6,878.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,351.67	0.00	0.00	6,930.00	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
NIO										
7,400.00	0.00	0.00	6,978.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,078.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,178.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,635.67	0.00	0.00	7,214.00	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
CODELL										
7,700.00	0.00	0.00	7,278.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,719.67	0.00	0.00	7,298.00	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
GREENHORN										
7,800.00	0.00	0.00	7,378.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,478.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,578.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
8,075.67	0.00	0.00	7,654.00	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	
JSAND										
8,100.00	0.00	0.00	7,678.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_Dechant 36-9
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4894' & RKB 15' @ 4909.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4894' & RKB 15' @ 4909.00ft (ASSUMED)
Site:	WELD_Dechant 14-9 pad	North Reference:	True
Well:	P_Dechant 36-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Dechant 36-9		
Design:	PLAN #1 8-2-10 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)
8,200.00	0.00	0.00	7,778.33	-213.37	2,073.45	2,084.40	0.00	0.00	0.00
8,225.67	0.00	0.00	7,804.00	-213.37	2,073.45	2,084.40	0.00	0.00	0.00
TD at 8225.67 - PBHL_Dechant 36-9(50' FSL 2565' FWL)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_Dechant 36-9(50' - plan hits target center - Circle (radius 50.00)	0.00	0.00	7,804.00	-213.37	2,073.45	1,297,158.90	3,232,244.80	40° 8' 45.992 N	104° 40' 9.181 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
701.31	700.00	8 5/8"	8.620	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,248.08	3,957.00	PARKMAN				
4,859.35	4,511.00	SUSSEX				
7,351.67	6,931.00	NIO				
7,635.67	7,215.00	CODELL				
7,719.67	7,299.00	GREENHORN				
8,075.67	7,655.00	JSAND				

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	
1,550.00	1,510.71	-27.48	267.00	Start 3661.90 hold at 1550.00 MD	
5,211.90	4,829.52	-185.90	1,806.45	Start Drop -2.00	
6,461.90	6,040.23	-213.37	2,073.45	Start 1763.77 hold at 6461.90 MD	
8,225.67	7,804.00	-213.37	2,073.45	TD at 8225.67	