

WELL DETAILS: P_WILDFLOWER 37-27

WELL @ 5018.00ft (Original Well Elev) 5003.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1282487.56	3144820.00	40° 6' 27.576 N	104° 58' 56.096 W

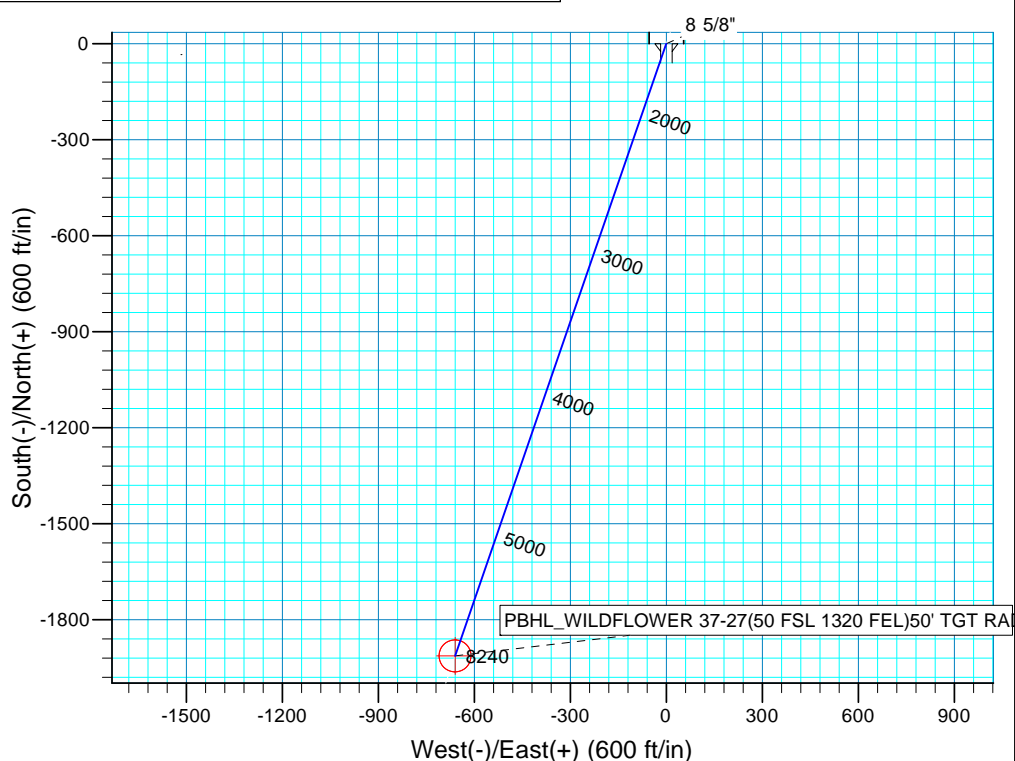
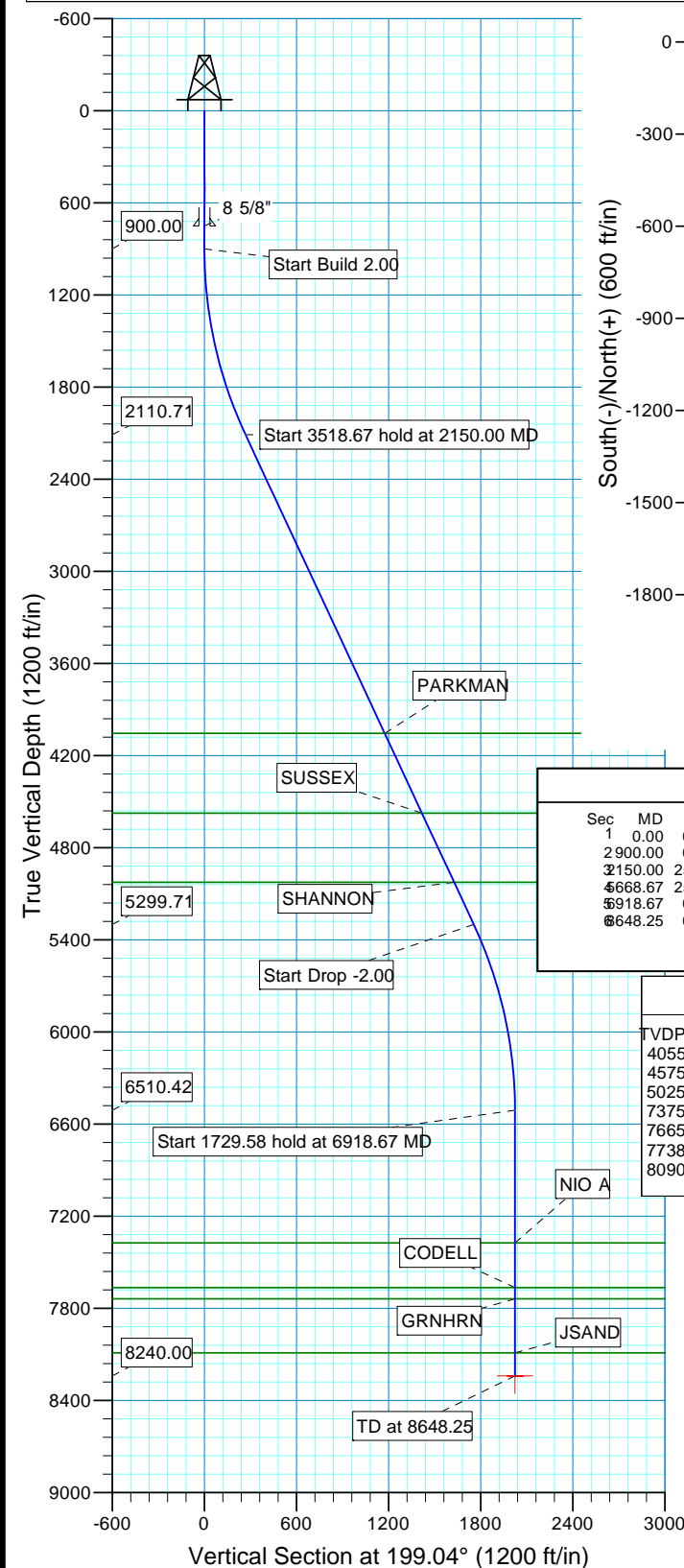
WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8240.00	-1913.17	-660.17	1280570.57	3144171.01	40° 6' 8.669 N	104° 59' 4.592 W	Circle (Radius: 50.00)



Azimuths to True North
Magnetic North: 9.07°

Magnetic Field
Strength: 53043.2snT
Dip Angle: 66.81°
Date: 08/03/2010
Model: IGRF2010



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	900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	
3	2150.00	25.00	199.04	2110.71	-253.73	-87.55	2.00	199.04	268.41	
4	6668.67	25.00	199.04	5299.71	-1659.44	-572.62	0.00	0.00	1755.46	
5	6918.67	0.00	0.00	6510.42	-1913.17	-660.17	2.00	180.00	2023.87	
6	8648.25	0.00	0.00	8240.00	-1913.17	-660.17	0.00	0.00	2023.87	PBHL_WILDFLOWER 37-27(50 FSL 1320 FEL)50' TGT RA

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4055.00	4295.28	PARKMAN
4575.00	4869.04	SUSSEX
5025.00	5365.56	SHANNON
7375.00	7783.25	NIO A
7665.00	8073.25	CODELL
7738.00	8146.25	GRNHRN
8090.00	8498.25	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 27 T2N R68W
System Datum: Mean Sea Level
Local North: True

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_WILDFLOWER 9-27 PAD

P_WILDFLOWER 37-27

P_WILDFLOWER 37-27

Plan: PLAN #1 8-3-10 RHS

Standard Planning Report

03 August, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_WILDFLOWER 37-27
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5018.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5018.00ft (Original Well Elev)
Site:	WELD_WILDFLOWER 9-27 PAD	North Reference:	True
Well:	P_WILDFLOWER 37-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WILDFLOWER 37-27		
Design:	PLAN #1 8-3-10 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_WILDFLOWER 9-27 PAD, SECTION 27 T2N R68W			
Site Position:		Northing:	1,282,487.51 usft	Latitude: 40° 6' 27.576 N
From:	Lat/Long	Easting:	3,144,809.93 usft	Longitude: 104° 58' 56.226 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.33 °

Well	P_WILDFLOWER 37-27, 1963' FSL 667' FEL			
Well Position	+N/-S	-0.01 ft	Northing:	1,282,487.56 usft
	+E/-W	10.07 ft	Easting:	3,144,820.00 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 5,003.00 ft

Wellbore	P_WILDFLOWER 37-27				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/03/2010	9.07	66.81	53,043

Design	PLAN #1 8-3-10 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	199.04

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	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,150.00	25.00	199.04	2,110.71	-253.73	-87.55	2.00	2.00	0.00	199.04	
5,668.67	25.00	199.04	5,299.71	-1,659.44	-572.62	0.00	0.00	0.00	0.00	
6,918.67	0.00	0.00	6,510.42	-1,913.17	-660.17	2.00	-2.00	0.00	180.00	
8,648.25	0.00	0.00	8,240.00	-1,913.17	-660.17	0.00	0.00	0.00	0.00	PBHL_WILDFLOWEF

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_WILDFLOWER 37-27
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5018.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5018.00ft (Original Well Elev)
Site:	WELD_WILDFLOWER 9-27 PAD	North Reference:	True
Well:	P_WILDFLOWER 37-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WILDFLOWER 37-27		
Design:	PLAN #1 8-3-10 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
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8"									
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
Start Build 2.00									
1,000.00	2.00	199.04	999.98	-1.65	-0.57	1.75	2.00	2.00	0.00
1,100.00	4.00	199.04	1,099.84	-6.60	-2.28	6.98	2.00	2.00	0.00
1,200.00	6.00	199.04	1,199.45	-14.84	-5.12	15.69	2.00	2.00	0.00
1,300.00	8.00	199.04	1,298.70	-26.35	-9.09	27.88	2.00	2.00	0.00
1,400.00	10.00	199.04	1,397.47	-41.14	-14.20	43.52	2.00	2.00	0.00
1,500.00	12.00	199.04	1,495.62	-59.18	-20.42	62.60	2.00	2.00	0.00
1,600.00	14.00	199.04	1,593.06	-80.44	-27.76	85.10	2.00	2.00	0.00
1,700.00	16.00	199.04	1,689.64	-104.91	-36.20	110.98	2.00	2.00	0.00
1,800.00	18.00	199.04	1,785.27	-132.54	-45.74	140.21	2.00	2.00	0.00
1,900.00	20.00	199.04	1,879.82	-163.32	-56.36	172.77	2.00	2.00	0.00
2,000.00	22.00	199.04	1,973.17	-197.19	-68.04	208.60	2.00	2.00	0.00
2,100.00	24.00	199.04	2,065.21	-234.13	-80.79	247.67	2.00	2.00	0.00
2,150.00	25.00	199.04	2,110.71	-253.73	-87.55	268.41	2.00	2.00	0.00
Start 3518.67 hold at 2150.00 MD									
2,200.00	25.00	199.04	2,156.03	-273.70	-94.45	289.54	0.00	0.00	0.00
2,300.00	25.00	199.04	2,246.66	-313.65	-108.23	331.80	0.00	0.00	0.00
2,400.00	25.00	199.04	2,337.29	-353.60	-122.02	374.06	0.00	0.00	0.00
2,500.00	25.00	199.04	2,427.92	-393.55	-135.80	416.32	0.00	0.00	0.00
2,600.00	25.00	199.04	2,518.55	-433.50	-149.59	458.59	0.00	0.00	0.00
2,700.00	25.00	199.04	2,609.18	-473.45	-163.37	500.85	0.00	0.00	0.00
2,800.00	25.00	199.04	2,699.81	-513.40	-177.16	543.11	0.00	0.00	0.00
2,900.00	25.00	199.04	2,790.44	-553.35	-190.94	585.37	0.00	0.00	0.00
3,000.00	25.00	199.04	2,881.07	-593.30	-204.73	627.63	0.00	0.00	0.00
3,100.00	25.00	199.04	2,971.70	-633.25	-218.51	669.90	0.00	0.00	0.00
3,200.00	25.00	199.04	3,062.34	-673.21	-232.30	712.16	0.00	0.00	0.00
3,300.00	25.00	199.04	3,152.97	-713.16	-246.09	754.42	0.00	0.00	0.00
3,400.00	25.00	199.04	3,243.60	-753.11	-259.87	796.68	0.00	0.00	0.00
3,500.00	25.00	199.04	3,334.23	-793.06	-273.66	838.94	0.00	0.00	0.00
3,600.00	25.00	199.04	3,424.86	-833.01	-287.44	881.20	0.00	0.00	0.00
3,700.00	25.00	199.04	3,515.49	-872.96	-301.23	923.47	0.00	0.00	0.00
3,800.00	25.00	199.04	3,606.12	-912.91	-315.01	965.73	0.00	0.00	0.00
3,900.00	25.00	199.04	3,696.75	-952.86	-328.80	1,007.99	0.00	0.00	0.00
4,000.00	25.00	199.04	3,787.38	-992.81	-342.58	1,050.25	0.00	0.00	0.00
4,100.00	25.00	199.04	3,878.01	-1,032.76	-356.37	1,092.51	0.00	0.00	0.00
4,200.00	25.00	199.04	3,968.64	-1,072.71	-370.16	1,134.78	0.00	0.00	0.00
4,295.28	25.00	199.04	4,055.00	-1,110.77	-383.29	1,175.04	0.00	0.00	0.00
PARKMAN									
4,300.00	25.00	199.04	4,059.27	-1,112.66	-383.94	1,177.04	0.00	0.00	0.00
4,400.00	25.00	199.04	4,149.90	-1,152.61	-397.73	1,219.30	0.00	0.00	0.00
4,500.00	25.00	199.04	4,240.54	-1,192.56	-411.51	1,261.56	0.00	0.00	0.00
4,600.00	25.00	199.04	4,331.17	-1,232.51	-425.30	1,303.82	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5018.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5018.00ft (Original Well Elev)
Site:	WELD_WILDFLOWER 9-27 PAD	North Reference:	True
Well:	P_WILDFLOWER 37-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WILDFLOWER 37-27		
Design:	PLAN #1 8-3-10 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	25.00	199.04	4,421.80	-1,272.46	-439.08	1,346.09	0.00	0.00	0.00
4,800.00	25.00	199.04	4,512.43	-1,312.41	-452.87	1,388.35	0.00	0.00	0.00
4,869.04	25.00	199.04	4,575.00	-1,339.99	-462.39	1,417.52	0.00	0.00	0.00
SUSSEX									
4,900.00	25.00	199.04	4,603.06	-1,352.36	-466.65	1,430.61	0.00	0.00	0.00
5,000.00	25.00	199.04	4,693.69	-1,392.31	-480.44	1,472.87	0.00	0.00	0.00
5,100.00	25.00	199.04	4,784.32	-1,432.26	-494.22	1,515.13	0.00	0.00	0.00
5,200.00	25.00	199.04	4,874.95	-1,472.21	-508.01	1,557.39	0.00	0.00	0.00
5,300.00	25.00	199.04	4,965.58	-1,512.16	-521.80	1,599.66	0.00	0.00	0.00
5,365.56	25.00	199.04	5,025.00	-1,538.35	-530.83	1,627.36	0.00	0.00	0.00
SHANNON									
5,400.00	25.00	199.04	5,056.21	-1,552.11	-535.58	1,641.92	0.00	0.00	0.00
5,500.00	25.00	199.04	5,146.84	-1,592.06	-549.37	1,684.18	0.00	0.00	0.00
5,600.00	25.00	199.04	5,237.47	-1,632.01	-563.15	1,726.44	0.00	0.00	0.00
5,668.67	25.00	199.04	5,299.71	-1,659.44	-572.62	1,755.46	0.00	0.00	0.00
Start Drop -2.00									
5,700.00	24.37	199.04	5,328.18	-1,671.81	-576.89	1,768.55	2.00	-2.00	0.00
5,800.00	22.37	199.04	5,419.97	-1,709.31	-589.83	1,808.22	2.00	-2.00	0.00
5,900.00	20.37	199.04	5,513.08	-1,743.76	-601.71	1,844.66	2.00	-2.00	0.00
6,000.00	18.37	199.04	5,607.42	-1,775.12	-612.53	1,877.83	2.00	-2.00	0.00
6,100.00	16.37	199.04	5,702.85	-1,803.35	-622.27	1,907.69	2.00	-2.00	0.00
6,200.00	14.37	199.04	5,799.27	-1,828.40	-630.92	1,934.20	2.00	-2.00	0.00
6,300.00	12.37	199.04	5,896.55	-1,850.27	-638.47	1,957.33	2.00	-2.00	0.00
6,400.00	10.37	199.04	5,994.58	-1,868.91	-644.90	1,977.05	2.00	-2.00	0.00
6,500.00	8.37	199.04	6,093.24	-1,884.30	-650.21	1,993.33	2.00	-2.00	0.00
6,600.00	6.37	199.04	6,192.41	-1,896.43	-654.40	2,006.16	2.00	-2.00	0.00
6,700.00	4.37	199.04	6,291.96	-1,905.29	-657.45	2,015.53	2.00	-2.00	0.00
6,800.00	2.37	199.04	6,391.79	-1,910.85	-659.37	2,021.41	2.00	-2.00	0.00
6,900.00	0.37	199.04	6,491.75	-1,913.11	-660.15	2,023.81	2.00	-2.00	0.00
6,918.67	0.00	0.00	6,510.42	-1,913.17	-660.17	2,023.87	2.00	-2.00	0.00
Start 1729.58 hold at 6918.67 MD									
7,000.00	0.00	0.00	6,591.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
7,100.00	0.00	0.00	6,691.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
7,200.00	0.00	0.00	6,791.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
7,300.00	0.00	0.00	6,891.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
7,400.00	0.00	0.00	6,991.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
7,500.00	0.00	0.00	7,091.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
7,600.00	0.00	0.00	7,191.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
7,700.00	0.00	0.00	7,291.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
7,783.25	0.00	0.00	7,375.00	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
NIO A									
7,800.00	0.00	0.00	7,391.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
7,900.00	0.00	0.00	7,491.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
8,000.00	0.00	0.00	7,591.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
8,073.25	0.00	0.00	7,665.00	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
CODELL									
8,100.00	0.00	0.00	7,691.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
8,146.25	0.00	0.00	7,738.00	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
GRNHRN									
8,200.00	0.00	0.00	7,791.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
8,300.00	0.00	0.00	7,891.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
8,400.00	0.00	0.00	7,991.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
8,498.25	0.00	0.00	8,090.00	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5018.00ft (Original Well Elev)
Site:	WELD_WILDFLOWER 9-27 PAD	North Reference:	True
Well:	P_WILDFLOWER 37-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WILDFLOWER 37-27		
Design:	PLAN #1 8-3-10 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)
JSAND									
8,500.00	0.00	0.00	8,091.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
8,600.00	0.00	0.00	8,191.75	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
8,648.25	0.00	0.00	8,240.00	-1,913.17	-660.17	2,023.87	0.00	0.00	0.00
TD at 8648.25 - PBHL_WILDFLOWER 37-27(50 FSL 1320 FEL)50' TGT RAD									

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_WILDFLOWER 3	0.00	0.00	8,240.00	-1,913.17	-660.17	1,280,570.57	3,144,171.01	40° 6' 8.669 N	104° 59' 4.592 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
750.00	750.00	8 5/8"	8.620	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,295.28	4,055.00	PARKMAN				
4,869.04	4,575.00	SUSSEX				
5,365.56	5,025.00	SHANNON				
7,783.25	7,375.00	NIO A				
8,073.25	7,665.00	CODELL				
8,146.25	7,738.00	GRNHRN				
8,498.25	8,090.00	JSAND				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
900.00	900.00	0.00	0.00	Start Build 2.00	
2,150.00	2,110.71	-253.73	-87.55	Start 3518.67 hold at 2150.00 MD	
5,668.67	5,299.71	-1,659.44	-572.62	Start Drop -2.00	
6,918.67	6,510.42	-1,913.17	-660.17	Start 1729.58 hold at 6918.67 MD	
8,648.25	8,240.00	-1,913.17	-660.17	TD at 8648.25	