

WELL DETAILS: P_WILDFLOWER 33-27

WELL @ 5023.00ft (Original Well Elev) 5008.00		Northing	Easting	Latitude	Longitude
+N/-S	+E/-W	1281552.72	3141524.40	40° 6' 18.525 N	104° 59' 38.580 W
0.00	0.00				

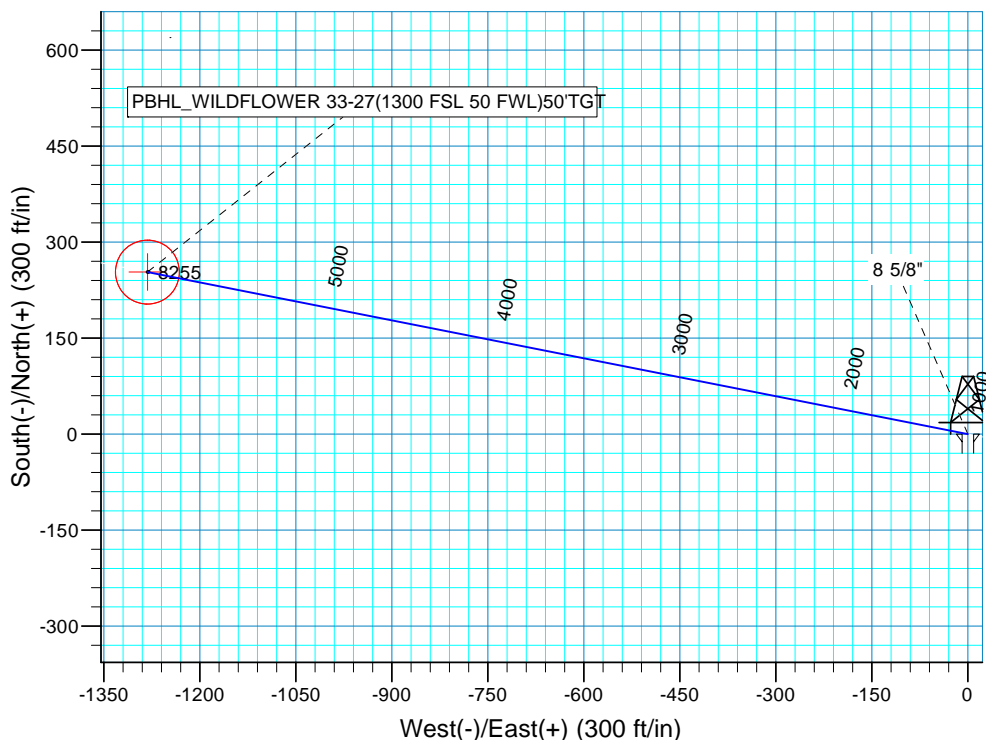
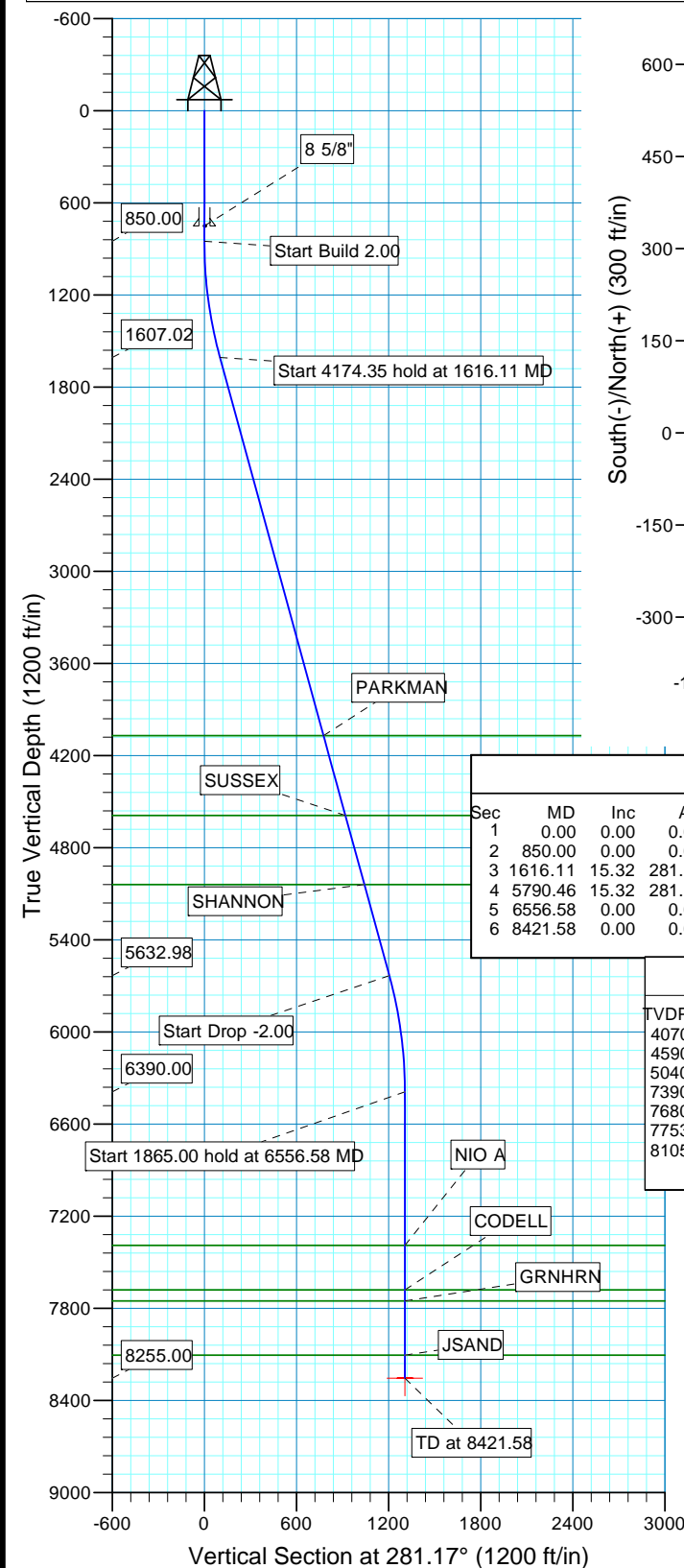
WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8255.00	253.22	-1281.95	1281798.62	3140241.03	40° 6' 21.028 N	104° 59' 55.079 W	Circle (Radius: 50.00)



Azimuths to True North
Magnetic North: 9.07°

Magnetic Field
Strength: 53040.5snT
Dip Angle: 66.80°
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	850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	
3	1616.11	15.32	281.17	1607.02	19.73	-99.90	2.00	281.17	101.83	
4	5790.46	15.32	281.17	5632.98	233.49	-1182.05	0.00	0.00	1204.89	
5	6556.58	0.00	0.00	6390.00	253.22	-1281.95	2.00	180.00	1306.72	
6	8421.58	0.00	0.00	8255.00	253.22	-1281.95	0.00	0.00	1306.72	PBHL_WILDFLOWER 33-27(1300 FSL 50 FWL)50°TGT

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4070.00	4169.87	PARKMAN
4590.00	4709.04	SUSSEX
5040.00	5175.62	SHANNON
7390.00	7556.58	NIO A
7680.00	7846.58	CODELL
7753.00	7919.58	GRNHRN
8105.00	8271.58	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 19-27 PAD

P_WILDFLOWER 33-27

P_WILDFLOWER 33-27

Plan: PLAN #1 8-3-10 RHS

Standard Planning Report

03 August, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_WILDFLOWER 33-27
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site:	WELD_WILDFLOWER 19-27 PAD	North Reference:	True
Well:	P_WILDFLOWER 33-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WILDFLOWER 33-27		
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 19-27 PAD, SECTION 27 T2N R68W			
Site Position:		Northing:	1,281,572.77 usft	Latitude: 40° 6' 18.724 N
From:	Lat/Long	Easting:	3,141,524.29 usft	Longitude: 104° 59' 38.580 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.33 °

Well	P_WILDFLOWER 33-27, 1047' FSL 1332' FWL			
Well Position	+N/-S	-20.05 ft	Northing:	1,281,552.72 usft
	+E/-W	0.00 ft	Easting:	3,141,524.40 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 5,008.00 ft

Wellbore	P_WILDFLOWER 33-27				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/03/2010	9.08	66.80	53,041

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	281.17

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	
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,616.11	15.32	281.17	1,607.02	19.73	-99.90	2.00	2.00	0.00	281.17	
5,790.46	15.32	281.17	5,632.98	233.49	-1,182.05	0.00	0.00	0.00	0.00	
6,556.58	0.00	0.00	6,390.00	253.22	-1,281.95	2.00	-2.00	0.00	180.00	
8,421.58	0.00	0.00	8,255.00	253.22	-1,281.95	0.00	0.00	0.00	0.00	PBHL_WILDFLOWEF

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_WILDFLOWER 33-27
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site:	WELD_WILDFLOWER 19-27 PAD	North Reference:	True
Well:	P_WILDFLOWER 33-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WILDFLOWER 33-27		
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
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
900.00	1.00	281.17	900.00	0.08	-0.43	0.44	2.00	2.00	0.00
1,000.00	3.00	281.17	999.93	0.76	-3.85	3.93	2.00	2.00	0.00
1,100.00	5.00	281.17	1,099.68	2.11	-10.69	10.90	2.00	2.00	0.00
1,200.00	7.00	281.17	1,199.13	4.14	-20.95	21.35	2.00	2.00	0.00
1,300.00	9.00	281.17	1,298.15	6.83	-34.60	35.27	2.00	2.00	0.00
1,400.00	11.00	281.17	1,396.63	10.20	-51.64	52.63	2.00	2.00	0.00
1,500.00	13.00	281.17	1,494.44	14.23	-72.03	73.42	2.00	2.00	0.00
1,600.00	15.00	281.17	1,591.46	18.92	-95.76	97.62	2.00	2.00	0.00
1,616.11	15.32	281.17	1,607.02	19.73	-99.90	101.83	2.00	2.00	0.00
Start 4174.35 hold at 1616.11 MD									
1,700.00	15.32	281.17	1,687.92	24.03	-121.65	124.00	0.00	0.00	0.00
1,800.00	15.32	281.17	1,784.36	29.15	-147.57	150.42	0.00	0.00	0.00
1,900.00	15.32	281.17	1,880.81	34.27	-173.49	176.85	0.00	0.00	0.00
2,000.00	15.32	281.17	1,977.26	39.39	-199.42	203.27	0.00	0.00	0.00
2,100.00	15.32	281.17	2,073.70	44.51	-225.34	229.70	0.00	0.00	0.00
2,200.00	15.32	281.17	2,170.15	49.63	-251.27	256.12	0.00	0.00	0.00
2,300.00	15.32	281.17	2,266.59	54.75	-277.19	282.55	0.00	0.00	0.00
2,400.00	15.32	281.17	2,363.04	59.87	-303.11	308.97	0.00	0.00	0.00
2,500.00	15.32	281.17	2,459.48	64.99	-329.04	335.39	0.00	0.00	0.00
2,600.00	15.32	281.17	2,555.93	70.11	-354.96	361.82	0.00	0.00	0.00
2,700.00	15.32	281.17	2,652.37	75.23	-380.89	388.24	0.00	0.00	0.00
2,800.00	15.32	281.17	2,748.82	80.36	-406.81	414.67	0.00	0.00	0.00
2,900.00	15.32	281.17	2,845.27	85.48	-432.73	441.09	0.00	0.00	0.00
3,000.00	15.32	281.17	2,941.71	90.60	-458.66	467.52	0.00	0.00	0.00
3,100.00	15.32	281.17	3,038.16	95.72	-484.58	493.94	0.00	0.00	0.00
3,200.00	15.32	281.17	3,134.60	100.84	-510.50	520.37	0.00	0.00	0.00
3,300.00	15.32	281.17	3,231.05	105.96	-536.43	546.79	0.00	0.00	0.00
3,400.00	15.32	281.17	3,327.49	111.08	-562.35	573.22	0.00	0.00	0.00
3,500.00	15.32	281.17	3,423.94	116.20	-588.28	599.64	0.00	0.00	0.00
3,600.00	15.32	281.17	3,520.38	121.32	-614.20	626.07	0.00	0.00	0.00
3,700.00	15.32	281.17	3,616.83	126.44	-640.12	652.49	0.00	0.00	0.00
3,800.00	15.32	281.17	3,713.27	131.56	-666.05	678.92	0.00	0.00	0.00
3,900.00	15.32	281.17	3,809.72	136.68	-691.97	705.34	0.00	0.00	0.00
4,000.00	15.32	281.17	3,906.17	141.80	-717.90	731.77	0.00	0.00	0.00
4,100.00	15.32	281.17	4,002.61	146.92	-743.82	758.19	0.00	0.00	0.00
4,169.87	15.32	281.17	4,070.00	150.50	-761.93	776.66	0.00	0.00	0.00
PARKMAN									
4,200.00	15.32	281.17	4,099.06	152.04	-769.74	784.62	0.00	0.00	0.00
4,300.00	15.32	281.17	4,195.50	157.17	-795.67	811.04	0.00	0.00	0.00
4,400.00	15.32	281.17	4,291.95	162.29	-821.59	837.47	0.00	0.00	0.00
4,500.00	15.32	281.17	4,388.39	167.41	-847.52	863.89	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site:	WELD_WILDFLOWER 19-27 PAD	North Reference:	True
Well:	P_WILDFLOWER 33-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WILDFLOWER 33-27		
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)
4,600.00	15.32	281.17	4,484.84	172.53	-873.44	890.32	0.00	0.00	0.00
4,700.00	15.32	281.17	4,581.28	177.65	-899.36	916.74	0.00	0.00	0.00
4,709.04	15.32	281.17	4,590.00	178.11	-901.71	919.13	0.00	0.00	0.00
SUSSEX									
4,800.00	15.32	281.17	4,677.73	182.77	-925.29	943.17	0.00	0.00	0.00
4,900.00	15.32	281.17	4,774.17	187.89	-951.21	969.59	0.00	0.00	0.00
5,000.00	15.32	281.17	4,870.62	193.01	-977.14	996.02	0.00	0.00	0.00
5,100.00	15.32	281.17	4,967.07	198.13	-1,003.06	1,022.44	0.00	0.00	0.00
5,175.62	15.32	281.17	5,040.00	202.00	-1,022.66	1,042.42	0.00	0.00	0.00
SHANNON									
5,200.00	15.32	281.17	5,063.51	203.25	-1,028.98	1,048.87	0.00	0.00	0.00
5,300.00	15.32	281.17	5,159.96	208.37	-1,054.91	1,075.29	0.00	0.00	0.00
5,400.00	15.32	281.17	5,256.40	213.49	-1,080.83	1,101.71	0.00	0.00	0.00
5,500.00	15.32	281.17	5,352.85	218.61	-1,106.76	1,128.14	0.00	0.00	0.00
5,600.00	15.32	281.17	5,449.29	223.73	-1,132.68	1,154.56	0.00	0.00	0.00
5,700.00	15.32	281.17	5,545.74	228.85	-1,158.60	1,180.99	0.00	0.00	0.00
5,790.46	15.32	281.17	5,632.98	233.49	-1,182.05	1,204.89	0.00	0.00	0.00
Start Drop -2.00									
5,800.00	15.13	281.17	5,642.19	233.97	-1,184.51	1,207.40	2.00	-2.00	0.00
5,900.00	13.13	281.17	5,739.16	238.70	-1,208.46	1,231.81	2.00	-2.00	0.00
6,000.00	11.13	281.17	5,836.92	242.78	-1,229.08	1,252.83	2.00	-2.00	0.00
6,100.00	9.13	281.17	5,935.35	246.18	-1,246.34	1,270.42	2.00	-2.00	0.00
6,200.00	7.13	281.17	6,034.34	248.92	-1,260.21	1,284.56	2.00	-2.00	0.00
6,300.00	5.13	281.17	6,133.77	250.99	-1,270.69	1,295.24	2.00	-2.00	0.00
6,400.00	3.13	281.17	6,233.50	252.39	-1,277.76	1,302.45	2.00	-2.00	0.00
6,500.00	1.13	281.17	6,333.43	253.11	-1,281.41	1,306.16	2.00	-2.00	0.00
6,556.58	0.00	0.00	6,390.00	253.22	-1,281.95	1,306.72	2.00	-2.00	0.00
Start 1865.00 hold at 6556.58 MD									
6,600.00	0.00	0.00	6,433.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
6,700.00	0.00	0.00	6,533.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
6,800.00	0.00	0.00	6,633.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
6,900.00	0.00	0.00	6,733.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,000.00	0.00	0.00	6,833.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,100.00	0.00	0.00	6,933.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,200.00	0.00	0.00	7,033.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,300.00	0.00	0.00	7,133.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,400.00	0.00	0.00	7,233.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,500.00	0.00	0.00	7,333.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,556.58	0.00	0.00	7,390.00	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
NIO A									
7,600.00	0.00	0.00	7,433.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,700.00	0.00	0.00	7,533.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,800.00	0.00	0.00	7,633.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,846.58	0.00	0.00	7,680.00	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
CODELL									
7,900.00	0.00	0.00	7,733.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
7,919.58	0.00	0.00	7,753.00	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
GRNHRN									
8,000.00	0.00	0.00	7,833.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
8,100.00	0.00	0.00	7,933.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
8,200.00	0.00	0.00	8,033.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
8,271.58	0.00	0.00	8,105.00	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
JSAND									

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site:	WELD_WILDFLOWER 19-27 PAD	North Reference:	True
Well:	P_WILDFLOWER 33-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WILDFLOWER 33-27		
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)
8,300.00	0.00	0.00	8,133.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
8,400.00	0.00	0.00	8,233.42	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
8,421.58	0.00	0.00	8,255.00	253.22	-1,281.95	1,306.72	0.00	0.00	0.00
PBHL_WILDFLOWER 33-27(1300 FSL 50 FWL)50'TGT									

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	8,255.00	253.22	-1,281.95	1,281,798.62	3,140,241.03	40° 6' 21.028 N	104° 59' 55.079 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 (°)	
4,169.87	4,070.00	PARKMAN				
4,709.04	4,590.00	SUSSEX				
5,175.62	5,040.00	SHANNON				
7,556.58	7,390.00	NIO A				
7,846.58	7,680.00	CODELL				
7,919.58	7,753.00	GRNHRN				
8,271.58	8,105.00	JSAND				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
850.00	850.00	0.00	0.00	Start Build 2.00
1,616.11	1,607.02	19.73	-99.90	Start 4174.35 hold at 1616.11 MD
5,790.46	5,632.98	233.49	-1,182.05	Start Drop -2.00
6,556.58	6,390.00	253.22	-1,281.95	Start 1865.00 hold at 6556.58 MD
8,421.58	8,255.00	253.22	-1,281.95	TD at 8421.58