

Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_DACANO 6-2-9F PAD
 Well: DACONO 30-2
 Wellbore: OH
 Section: SECTION 2 T1N R68W
 SHL:
 Design: DACONA 30-2(wp01)
 Latitude: 40° 4' 55.229 N
 Longitude: 104° 58' 23.819 W
 GL: 5016.00
 KB: GL 5016' & KB 15' @ 5031.00ft (ASSUMED)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4116.00	4424.62	PARKMAN
4536.00	4888.04	SUSSEX
7450.00	8008.31	NIOBRARA
7739.00	8297.31	CODELL
7814.00	8372.31	GREENHORN
8181.00	8739.31	J-SAND



Azimuths to Grid North
 True North: -0.34°
 Magnetic North: 8.64°
 Magnetic Field
 Strength: 52965.4snT
 Dip Angle: 66.77°
 Date: 03/17/2011
 Model: IGRF2010

WELL DETAILS: DACONO 30-2

+N/-S	+E/-W	Northing	Easting	Ground Level: 5016.00	Latitude	Longitude	Slot
0.00	0.00	1273158.04	3147383.35		40° 4' 55.229 N	104° 58' 23.819 W	

CASING DETAILS

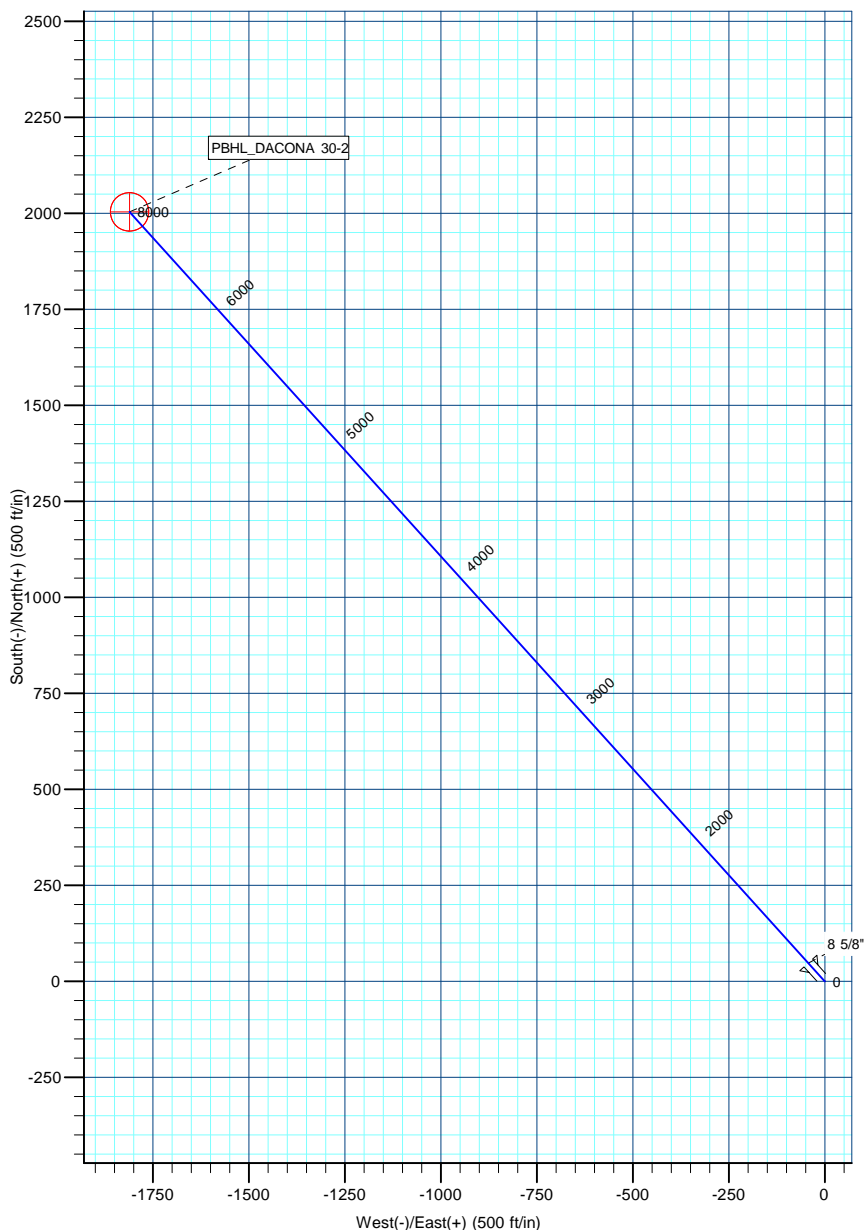
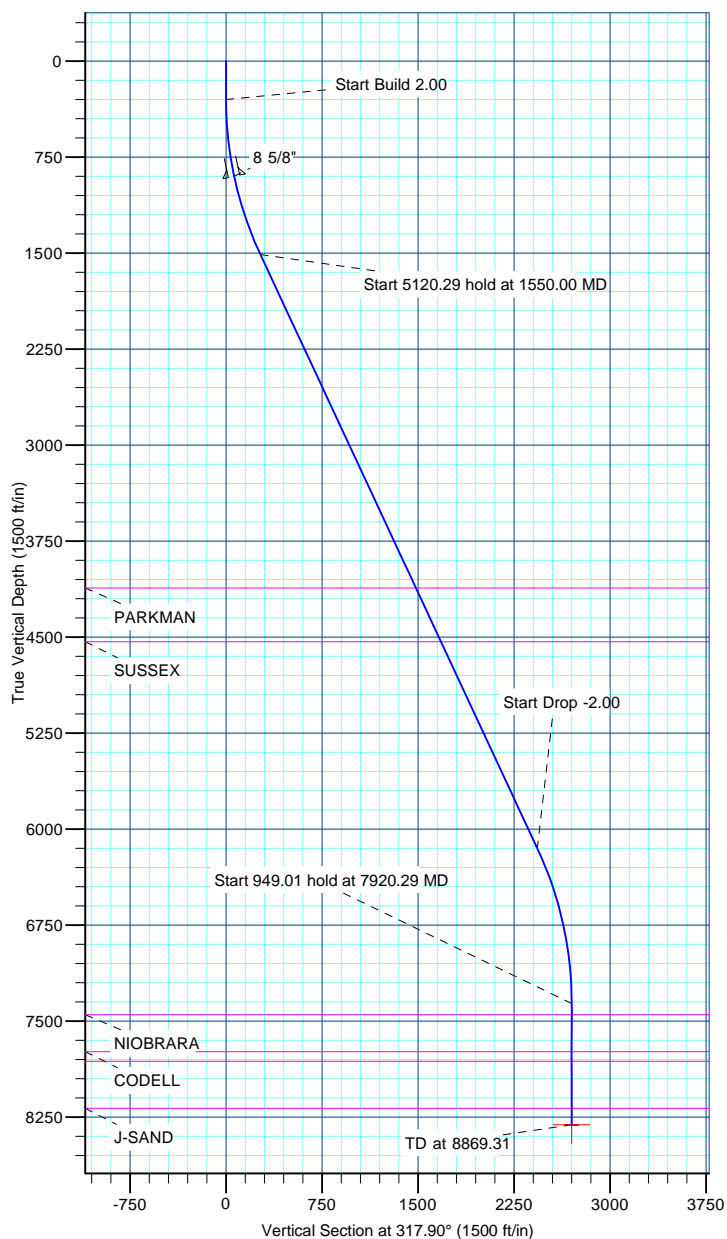
TVD	MD	Name	Size
900.00	904.48	8 5/8"	8.625

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_DACONA 30-2	8311.00	2003.82	-1810.73	1275161.85	3145572.62	40° 5' 15.137 N	104° 58' 46.963 W	Circle (Radius: 50.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
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
1550.00	25.00	317.90	1510.71	199.15	-179.96	2.00	317.90	268.41
6670.29	25.00	317.90	6151.27	1804.67	-1630.78	0.00	0.00	2432.34
7920.29	0.00	0.00	7361.99	2003.82	-1810.73	2.00	180.00	2700.75
8869.31	0.00	0.00	8311.00	2003.82	-1810.73	0.00	0.00	2700.75



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DACANO 6-2-9F PAD

DACONO 30-2

OH

Plan: DACONA 30-2(wp01)

Standard Planning Report

17 March, 2011

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well DACONO 30-2
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5016' & KB 15' @ 5031.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5016' & KB 15' @ 5031.00ft (ASSUMED)
Site:	WELD_DACANO 6-2-9F PAD	North Reference:	Grid
Well:	DACONO 30-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONA 30-2(wp01)		

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_DACANO 6-2-9F PAD, SECTION 2 T1N R68W			
Site Position:		Northing:	1,273,198.12 usft	Latitude: 40° 4' 55.625 N
From:	Lat/Long	Easting:	3,147,383.39 usft	Longitude: 104° 58' 23.815 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.34 °

Well	DACONO 30-2			
Well Position	+N/-S	-40.08 ft	Northing:	1,273,158.04 usft
	+E/-W	-0.04 ft	Easting:	3,147,383.35 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:		Latitude: 40° 4' 55.229 N
				Longitude: 104° 58' 23.819 W
				Ground Level: 5,016.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/17/2011	8.98	66.77	52,965

Design	DACONA 30-2(wp01)			
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	317.90

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	317.90	1,510.71	199.15	-179.96	2.00	2.00	0.00	317.90	
6,670.29	25.00	317.90	6,151.27	1,804.67	-1,630.78	0.00	0.00	0.00	0.00	
7,920.29	0.00	0.00	7,361.99	2,003.82	-1,810.73	2.00	-2.00	0.00	180.00	
8,869.31	0.00	0.00	8,311.00	2,003.82	-1,810.73	0.00	0.00	0.00	0.00	PBHL_DACONA 30-2

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well DACONO 30-2
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5016' & KB 15' @ 5031.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5016' & KB 15' @ 5031.00ft (ASSUMED)
Site:	WELD_DACANO 6-2-9F PAD	North Reference:	Grid
Well:	DACONO 30-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONA 30-2(wp01)		

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	317.90	399.98	1.29	-1.17	1.75	2.00	2.00	0.00
500.00	4.00	317.90	499.84	5.18	-4.68	6.98	2.00	2.00	0.00
600.00	6.00	317.90	599.45	11.64	-10.52	15.69	2.00	2.00	0.00
700.00	8.00	317.90	698.70	20.69	-18.69	27.88	2.00	2.00	0.00
800.00	10.00	317.90	797.47	32.29	-29.18	43.52	2.00	2.00	0.00
900.00	12.00	317.90	895.62	46.45	-41.97	62.60	2.00	2.00	0.00
904.48	12.09	317.90	900.00	47.14	-42.60	63.54	2.00	2.00	0.00
8 5/8"									
1,000.00	14.00	317.90	993.06	63.14	-57.05	85.10	2.00	2.00	0.00
1,100.00	16.00	317.90	1,089.64	82.34	-74.41	110.98	2.00	2.00	0.00
1,200.00	18.00	317.90	1,185.27	104.03	-94.01	140.21	2.00	2.00	0.00
1,300.00	20.00	317.90	1,279.82	128.18	-115.83	172.77	2.00	2.00	0.00
1,400.00	22.00	317.90	1,373.17	154.77	-139.86	208.60	2.00	2.00	0.00
1,500.00	24.00	317.90	1,465.21	183.76	-166.05	247.67	2.00	2.00	0.00
1,550.00	25.00	317.90	1,510.71	199.15	-179.96	268.41	2.00	2.00	0.00
Start 5120.29 hold at 1550.00 MD									
1,600.00	25.00	317.90	1,556.03	214.82	-194.12	289.54	0.00	0.00	0.00
1,700.00	25.00	317.90	1,646.66	246.18	-222.46	331.80	0.00	0.00	0.00
1,800.00	25.00	317.90	1,737.29	277.54	-250.79	374.06	0.00	0.00	0.00
1,900.00	25.00	317.90	1,827.92	308.89	-279.13	416.32	0.00	0.00	0.00
2,000.00	25.00	317.90	1,918.55	340.25	-307.46	458.59	0.00	0.00	0.00
2,100.00	25.00	317.90	2,009.18	371.60	-335.80	500.85	0.00	0.00	0.00
2,200.00	25.00	317.90	2,099.81	402.96	-364.13	543.11	0.00	0.00	0.00
2,300.00	25.00	317.90	2,190.44	434.32	-392.47	585.37	0.00	0.00	0.00
2,400.00	25.00	317.90	2,281.07	465.67	-420.80	627.63	0.00	0.00	0.00
2,500.00	25.00	317.90	2,371.70	497.03	-449.14	669.90	0.00	0.00	0.00
2,600.00	25.00	317.90	2,462.34	528.38	-477.47	712.16	0.00	0.00	0.00
2,700.00	25.00	317.90	2,552.97	559.74	-505.81	754.42	0.00	0.00	0.00
2,800.00	25.00	317.90	2,643.60	591.10	-534.14	796.68	0.00	0.00	0.00
2,900.00	25.00	317.90	2,734.23	622.45	-562.48	838.94	0.00	0.00	0.00
3,000.00	25.00	317.90	2,824.86	653.81	-590.81	881.20	0.00	0.00	0.00
3,100.00	25.00	317.90	2,915.49	685.16	-619.14	923.47	0.00	0.00	0.00
3,200.00	25.00	317.90	3,006.12	716.52	-647.48	965.73	0.00	0.00	0.00
3,300.00	25.00	317.90	3,096.75	747.88	-675.81	1,007.99	0.00	0.00	0.00
3,400.00	25.00	317.90	3,187.38	779.23	-704.15	1,050.25	0.00	0.00	0.00
3,500.00	25.00	317.90	3,278.01	810.59	-732.48	1,092.51	0.00	0.00	0.00
3,600.00	25.00	317.90	3,368.64	841.95	-760.82	1,134.78	0.00	0.00	0.00
3,700.00	25.00	317.90	3,459.27	873.30	-789.15	1,177.04	0.00	0.00	0.00
3,800.00	25.00	317.90	3,549.90	904.66	-817.49	1,219.30	0.00	0.00	0.00
3,900.00	25.00	317.90	3,640.54	936.01	-845.82	1,261.56	0.00	0.00	0.00
4,000.00	25.00	317.90	3,731.17	967.37	-874.16	1,303.82	0.00	0.00	0.00
4,100.00	25.00	317.90	3,821.80	998.73	-902.49	1,346.09	0.00	0.00	0.00
4,200.00	25.00	317.90	3,912.43	1,030.08	-930.83	1,388.35	0.00	0.00	0.00
4,300.00	25.00	317.90	4,003.06	1,061.44	-959.16	1,430.61	0.00	0.00	0.00
4,400.00	25.00	317.90	4,093.69	1,092.79	-987.50	1,472.87	0.00	0.00	0.00
4,424.62	25.00	317.90	4,116.00	1,100.51	-994.47	1,483.27	0.00	0.00	0.00
PARKMAN									
4,500.00	25.00	317.90	4,184.32	1,124.15	-1,015.83	1,515.13	0.00	0.00	0.00
4,600.00	25.00	317.90	4,274.95	1,155.51	-1,044.17	1,557.39	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5016' & KB 15' @ 5031.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 5016' & KB 15' @ 5031.00ft (ASSUMED)
Site:	WELD_DACANO 6-2-9F PAD	North Reference:	Grid
Well:	DACONO 30-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONA 30-2(wp01)		

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	317.90	4,365.58	1,186.86	-1,072.50	1,599.66	0.00	0.00	0.00
4,800.00	25.00	317.90	4,456.21	1,218.22	-1,100.83	1,641.92	0.00	0.00	0.00
4,888.04	25.00	317.90	4,536.00	1,245.82	-1,125.78	1,679.12	0.00	0.00	0.00
SUSSEX									
4,900.00	25.00	317.90	4,546.84	1,249.57	-1,129.17	1,684.18	0.00	0.00	0.00
5,000.00	25.00	317.90	4,637.47	1,280.93	-1,157.50	1,726.44	0.00	0.00	0.00
5,100.00	25.00	317.90	4,728.10	1,312.29	-1,185.84	1,768.70	0.00	0.00	0.00
5,200.00	25.00	317.90	4,818.74	1,343.64	-1,214.17	1,810.97	0.00	0.00	0.00
5,300.00	25.00	317.90	4,909.37	1,375.00	-1,242.51	1,853.23	0.00	0.00	0.00
5,400.00	25.00	317.90	5,000.00	1,406.36	-1,270.84	1,895.49	0.00	0.00	0.00
5,500.00	25.00	317.90	5,090.63	1,437.71	-1,299.18	1,937.75	0.00	0.00	0.00
5,600.00	25.00	317.90	5,181.26	1,469.07	-1,327.51	1,980.01	0.00	0.00	0.00
5,700.00	25.00	317.90	5,271.89	1,500.42	-1,355.85	2,022.27	0.00	0.00	0.00
5,800.00	25.00	317.90	5,362.52	1,531.78	-1,384.18	2,064.54	0.00	0.00	0.00
5,900.00	25.00	317.90	5,453.15	1,563.14	-1,412.52	2,106.80	0.00	0.00	0.00
6,000.00	25.00	317.90	5,543.78	1,594.49	-1,440.85	2,149.06	0.00	0.00	0.00
6,100.00	25.00	317.90	5,634.41	1,625.85	-1,469.19	2,191.32	0.00	0.00	0.00
6,200.00	25.00	317.90	5,725.04	1,657.20	-1,497.52	2,233.58	0.00	0.00	0.00
6,300.00	25.00	317.90	5,815.67	1,688.56	-1,525.86	2,275.85	0.00	0.00	0.00
6,400.00	25.00	317.90	5,906.31	1,719.92	-1,554.19	2,318.11	0.00	0.00	0.00
6,500.00	25.00	317.90	5,996.94	1,751.27	-1,582.53	2,360.37	0.00	0.00	0.00
6,600.00	25.00	317.90	6,087.57	1,782.63	-1,610.86	2,402.63	0.00	0.00	0.00
6,670.29	25.00	317.90	6,151.27	1,804.67	-1,630.78	2,432.34	0.00	0.00	0.00
Start Drop -2.00									
6,700.00	24.41	317.90	6,178.26	1,813.88	-1,639.10	2,444.75	2.00	-2.00	0.00
6,800.00	22.41	317.90	6,270.03	1,843.35	-1,665.73	2,484.47	2.00	-2.00	0.00
6,900.00	20.41	317.90	6,363.13	1,870.43	-1,690.20	2,520.97	2.00	-2.00	0.00
7,000.00	18.41	317.90	6,457.44	1,895.08	-1,712.48	2,554.19	2.00	-2.00	0.00
7,100.00	16.41	317.90	6,552.86	1,917.27	-1,732.53	2,584.11	2.00	-2.00	0.00
7,200.00	14.41	317.90	6,649.26	1,936.98	-1,750.34	2,610.67	2.00	-2.00	0.00
7,300.00	12.41	317.90	6,746.53	1,954.18	-1,765.89	2,633.85	2.00	-2.00	0.00
7,400.00	10.41	317.90	6,844.55	1,968.86	-1,779.14	2,653.63	2.00	-2.00	0.00
7,500.00	8.41	317.90	6,943.20	1,980.98	-1,790.10	2,669.97	2.00	-2.00	0.00
7,600.00	6.41	317.90	7,042.36	1,990.54	-1,798.74	2,682.86	2.00	-2.00	0.00
7,700.00	4.41	317.90	7,141.91	1,997.53	-1,805.06	2,692.28	2.00	-2.00	0.00
7,800.00	2.41	317.90	7,241.73	2,001.94	-1,809.04	2,698.22	2.00	-2.00	0.00
7,900.00	0.41	317.90	7,341.69	2,003.76	-1,810.69	2,700.67	2.00	-2.00	0.00
7,920.29	0.00	0.00	7,361.99	2,003.82	-1,810.73	2,700.75	2.00	-2.00	0.00
Start 949.01 hold at 7920.29 MD									
8,000.00	0.00	0.00	7,441.69	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
8,008.31	0.00	0.00	7,450.00	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
NIOBRARA									
8,100.00	0.00	0.00	7,541.69	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
8,200.00	0.00	0.00	7,641.69	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
8,297.31	0.00	0.00	7,739.00	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
CODELL									
8,300.00	0.00	0.00	7,741.69	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
8,372.31	0.00	0.00	7,814.00	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
GREENHORN									
8,400.00	0.00	0.00	7,841.69	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
8,500.00	0.00	0.00	7,941.69	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
8,600.00	0.00	0.00	8,041.69	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
8,700.00	0.00	0.00	8,141.69	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00

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Well:	DACONO 30-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONA 30-2(wp01)		

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)
8,739.31	0.00	0.00	8,181.00	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
J-SAND									
8,800.00	0.00	0.00	8,241.69	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
8,869.31	0.00	0.00	8,311.00	2,003.82	-1,810.73	2,700.75	0.00	0.00	0.00
TD at 8869.31 - PBHL_DACONA 30-2									

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_DACONA 30-2	0.00	0.00	8,311.00	2,003.82	-1,810.73	1,275,161.85	3,145,572.62	40° 5' 15.137 N	104° 58' 46.963 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
904.48	900.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,424.62	4,116.00	PARKMAN				
4,888.04	4,536.00	SUSSEX				
8,008.31	7,450.00	NIOBRARA				
8,297.31	7,739.00	CODELL				
8,372.31	7,814.00	GREENHORN				
8,739.31	8,181.00	J-SAND				

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	199.15	-179.96	Start 5120.29 hold at 1550.00 MD	
6,670.29	6,151.27	1,804.67	-1,630.78	Start Drop -2.00	
7,920.29	7,361.99	2,003.82	-1,810.73	Start 949.01 hold at 7920.29 MD	
8,869.31	8,311.00	2,003.82	-1,810.73	TD at 8869.31	