

Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_DACANO 6-2-9F PAD
 Well: DACONO 32-2
 Wellbore: OH
 Section: SECTION 2 T1N R68W
 SHL:
 Design: DACONO 32-2(wp01)
 Latitude: 40° 4' 54.735 N
 Longitude: 104° 58' 23.822 W
 GL: 5016.00
 KB: GL 5016' & KB 15' @ 5031.00ft (ASSUMED)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4117.00	4284.69	PARKMAN
4537.00	4726.61	SUSSEX
7451.00	7735.10	NIOBRARA
7740.00	8024.10	CODELL
7815.00	8099.10	GREENHORN
8182.00	8466.10	J-SAND



Azimuths to Grid North
 True North: -0.34°
 Magnetic North: 8.64°

Magnetic Field
 Strength: 52965.3snT
 Dip Angle: 66.77°
 Date: 03/17/2011
 Model: IGRF2010

WELL DETAILS: DACONO 32-2

+N/-S	+E/-W	Northing	Easting	Ground Level: 5016.00	Latitude	Longitude	Slot
0.00	0.00	1273108.13	3147383.36		40° 4' 54.735 N	104° 58' 23.822 W	

CASING DETAILS

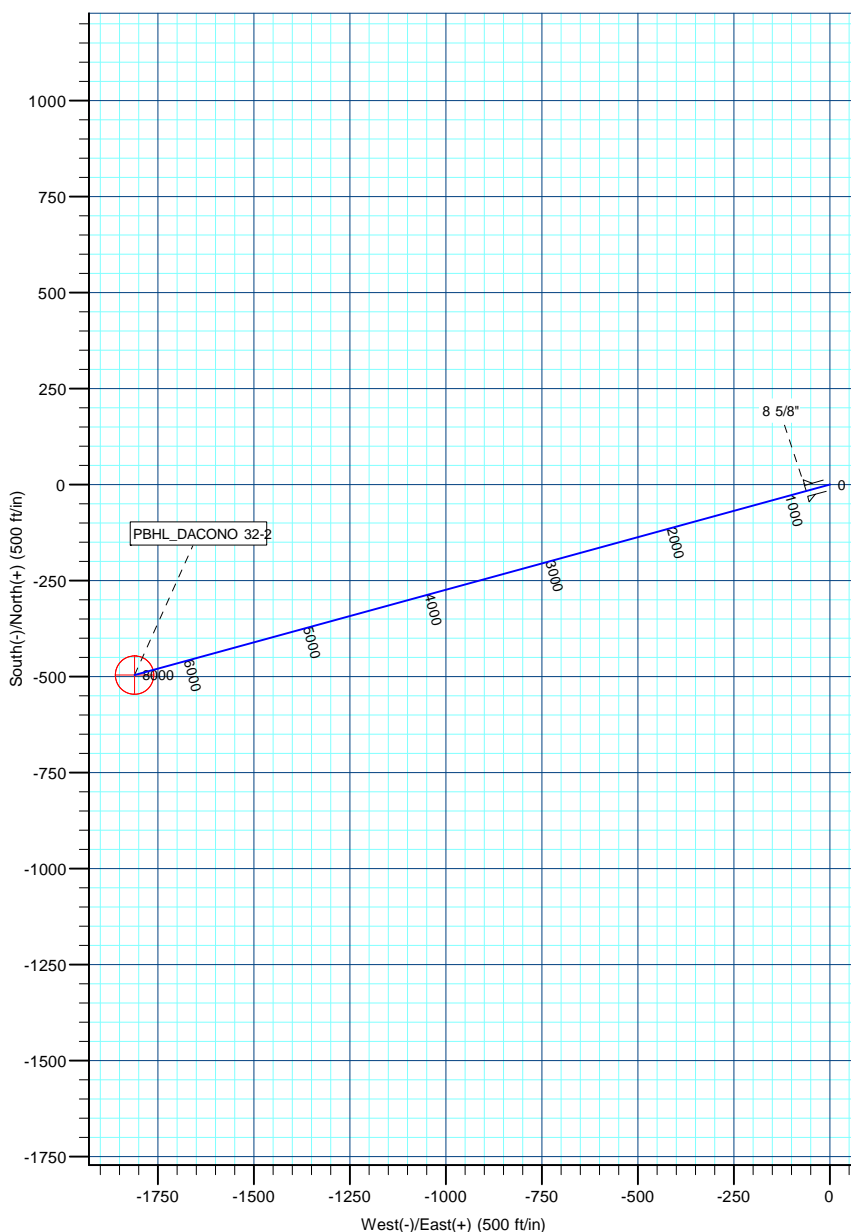
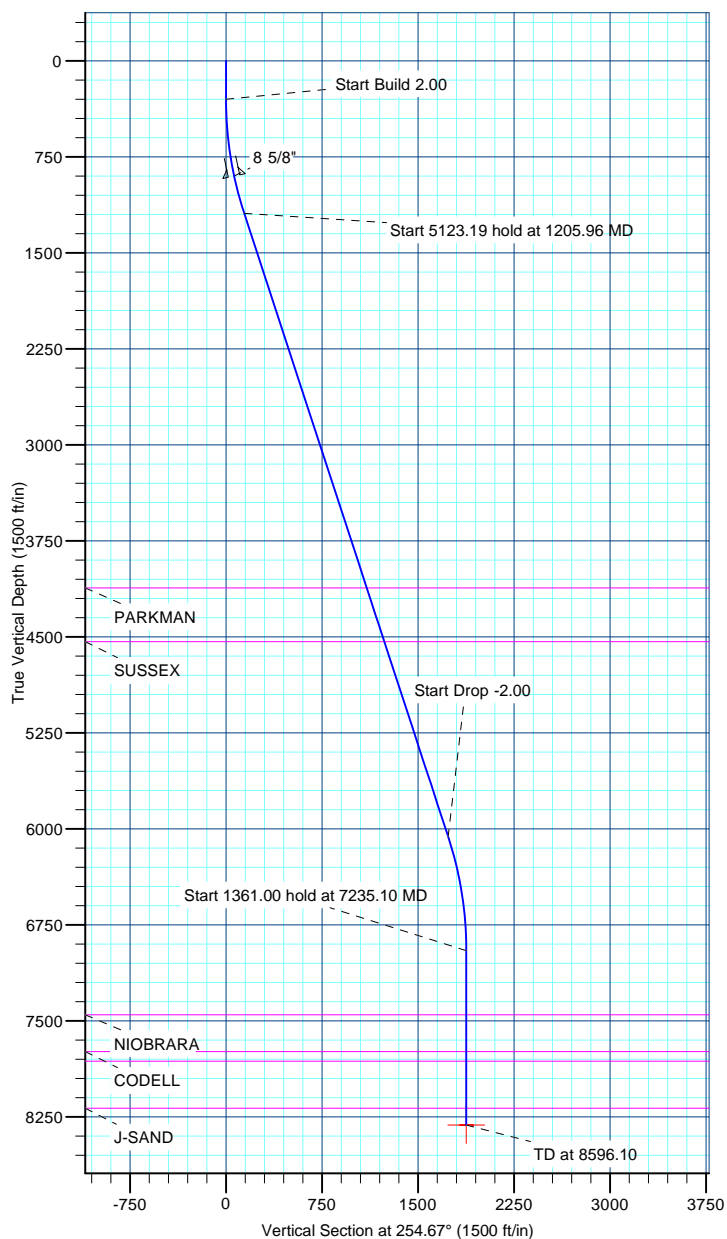
TVD	MD	Name	Size
900.00	904.48	8 5/8"	8.625

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_DACONO 32-2	8312.00	-496.27	-1810.62	1272611.87	3145572.75	40° 4' 49.937 N	104° 58' 47.154 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
1205.96	18.12	254.67	1190.93	-37.55	-137.01	2.00	254.67	142.06
6329.14	18.12	254.67	6060.07	-458.72	-1673.61	0.00	0.00	1735.34
7235.10	0.00	0.00	6951.00	-496.27	-1810.62	2.00	180.00	1877.40
8596.10	0.00	0.00	8312.00	-496.27	-1810.62	0.00	0.00	1877.40



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DACANO 6-2-9F PAD

DACONO 32-2

OH

Plan: DACONO 32-2(wp01)

Standard Planning Report

17 March, 2011

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well DACONO 32-2
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 32-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 32-2(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 32-2			
Well Position	+N/-S	-89.99 ft	Northing:	1,273,108.13 usft
	+E/-W	-0.03 ft	Easting:	3,147,383.37 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:		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	DACONO 32-2(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	254.67

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	
1,205.96	18.12	254.67	1,190.93	-37.55	-137.01	2.00	2.00	0.00	254.67	
6,329.14	18.12	254.67	6,060.07	-458.72	-1,673.61	0.00	0.00	0.00	0.00	
7,235.10	0.00	0.00	6,951.00	-496.27	-1,810.62	2.00	-2.00	0.00	180.00	
8,596.10	0.00	0.00	8,312.00	-496.27	-1,810.62	0.00	0.00	0.00	0.00	PBHL_DACONO 32-2

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well DACONO 32-2
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 32-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 32-2(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	254.67	399.98	-0.46	-1.68	1.75	2.00	2.00	0.00
500.00	4.00	254.67	499.84	-1.84	-6.73	6.98	2.00	2.00	0.00
600.00	6.00	254.67	599.45	-4.15	-15.14	15.69	2.00	2.00	0.00
700.00	8.00	254.67	698.70	-7.37	-26.89	27.88	2.00	2.00	0.00
800.00	10.00	254.67	797.47	-11.50	-41.97	43.52	2.00	2.00	0.00
900.00	12.00	254.67	895.62	-16.55	-60.38	62.60	2.00	2.00	0.00
904.48	12.09	254.67	900.00	-16.80	-61.28	63.54	2.00	2.00	0.00
8 5/8"									
1,000.00	14.00	254.67	993.06	-22.49	-82.07	85.10	2.00	2.00	0.00
1,100.00	16.00	254.67	1,089.64	-29.34	-107.03	110.98	2.00	2.00	0.00
1,200.00	18.00	254.67	1,185.27	-37.06	-135.23	140.21	2.00	2.00	0.00
1,205.96	18.12	254.67	1,190.93	-37.55	-137.01	142.06	2.00	2.00	0.00
Start 5123.19 hold at 1205.96 MD									
1,300.00	18.12	254.67	1,280.31	-45.28	-165.21	171.31	0.00	0.00	0.00
1,400.00	18.12	254.67	1,375.35	-53.50	-195.21	202.41	0.00	0.00	0.00
1,500.00	18.12	254.67	1,470.39	-61.72	-225.20	233.51	0.00	0.00	0.00
1,600.00	18.12	254.67	1,565.44	-69.94	-255.19	264.60	0.00	0.00	0.00
1,700.00	18.12	254.67	1,660.48	-78.17	-285.19	295.70	0.00	0.00	0.00
1,800.00	18.12	254.67	1,755.52	-86.39	-315.18	326.80	0.00	0.00	0.00
1,900.00	18.12	254.67	1,850.56	-94.61	-345.17	357.90	0.00	0.00	0.00
2,000.00	18.12	254.67	1,945.60	-102.83	-375.17	389.00	0.00	0.00	0.00
2,100.00	18.12	254.67	2,040.64	-111.05	-405.16	420.10	0.00	0.00	0.00
2,200.00	18.12	254.67	2,135.68	-119.27	-435.15	451.20	0.00	0.00	0.00
2,300.00	18.12	254.67	2,230.72	-127.49	-465.14	482.30	0.00	0.00	0.00
2,400.00	18.12	254.67	2,325.76	-135.71	-495.14	513.40	0.00	0.00	0.00
2,500.00	18.12	254.67	2,420.81	-143.93	-525.13	544.50	0.00	0.00	0.00
2,600.00	18.12	254.67	2,515.85	-152.15	-555.12	575.60	0.00	0.00	0.00
2,700.00	18.12	254.67	2,610.89	-160.37	-585.12	606.70	0.00	0.00	0.00
2,800.00	18.12	254.67	2,705.93	-168.59	-615.11	637.80	0.00	0.00	0.00
2,900.00	18.12	254.67	2,800.97	-176.81	-645.10	668.90	0.00	0.00	0.00
3,000.00	18.12	254.67	2,896.01	-185.04	-675.10	700.00	0.00	0.00	0.00
3,100.00	18.12	254.67	2,991.05	-193.26	-705.09	731.10	0.00	0.00	0.00
3,200.00	18.12	254.67	3,086.09	-201.48	-735.08	762.19	0.00	0.00	0.00
3,300.00	18.12	254.67	3,181.14	-209.70	-765.08	793.29	0.00	0.00	0.00
3,400.00	18.12	254.67	3,276.18	-217.92	-795.07	824.39	0.00	0.00	0.00
3,500.00	18.12	254.67	3,371.22	-226.14	-825.06	855.49	0.00	0.00	0.00
3,600.00	18.12	254.67	3,466.26	-234.36	-855.06	886.59	0.00	0.00	0.00
3,700.00	18.12	254.67	3,561.30	-242.58	-885.05	917.69	0.00	0.00	0.00
3,800.00	18.12	254.67	3,656.34	-250.80	-915.04	948.79	0.00	0.00	0.00
3,900.00	18.12	254.67	3,751.38	-259.02	-945.04	979.89	0.00	0.00	0.00
4,000.00	18.12	254.67	3,846.42	-267.24	-975.03	1,010.99	0.00	0.00	0.00
4,100.00	18.12	254.67	3,941.47	-275.46	-1,005.02	1,042.09	0.00	0.00	0.00
4,200.00	18.12	254.67	4,036.51	-283.68	-1,035.02	1,073.19	0.00	0.00	0.00
4,284.69	18.12	254.67	4,117.00	-290.65	-1,060.42	1,099.53	0.00	0.00	0.00
PARKMAN									
4,300.00	18.12	254.67	4,131.55	-291.90	-1,065.01	1,104.29	0.00	0.00	0.00
4,400.00	18.12	254.67	4,226.59	-300.13	-1,095.00	1,135.39	0.00	0.00	0.00
4,500.00	18.12	254.67	4,321.63	-308.35	-1,124.99	1,166.49	0.00	0.00	0.00
4,600.00	18.12	254.67	4,416.67	-316.57	-1,154.99	1,197.59	0.00	0.00	0.00

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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 32-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 32-2(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	18.12	254.67	4,511.71	-324.79	-1,184.98	1,228.69	0.00	0.00	0.00
4,726.61	18.12	254.67	4,537.00	-326.98	-1,192.96	1,236.96	0.00	0.00	0.00
SUSSEX									
4,800.00	18.12	254.67	4,606.75	-333.01	-1,214.97	1,259.78	0.00	0.00	0.00
4,900.00	18.12	254.67	4,701.79	-341.23	-1,244.97	1,290.88	0.00	0.00	0.00
5,000.00	18.12	254.67	4,796.84	-349.45	-1,274.96	1,321.98	0.00	0.00	0.00
5,100.00	18.12	254.67	4,891.88	-357.67	-1,304.95	1,353.08	0.00	0.00	0.00
5,200.00	18.12	254.67	4,986.92	-365.89	-1,334.95	1,384.18	0.00	0.00	0.00
5,300.00	18.12	254.67	5,081.96	-374.11	-1,364.94	1,415.28	0.00	0.00	0.00
5,400.00	18.12	254.67	5,177.00	-382.33	-1,394.93	1,446.38	0.00	0.00	0.00
5,500.00	18.12	254.67	5,272.04	-390.55	-1,424.93	1,477.48	0.00	0.00	0.00
5,600.00	18.12	254.67	5,367.08	-398.77	-1,454.92	1,508.58	0.00	0.00	0.00
5,700.00	18.12	254.67	5,462.12	-407.00	-1,484.91	1,539.68	0.00	0.00	0.00
5,800.00	18.12	254.67	5,557.17	-415.22	-1,514.91	1,570.78	0.00	0.00	0.00
5,900.00	18.12	254.67	5,652.21	-423.44	-1,544.90	1,601.88	0.00	0.00	0.00
6,000.00	18.12	254.67	5,747.25	-431.66	-1,574.89	1,632.98	0.00	0.00	0.00
6,100.00	18.12	254.67	5,842.29	-439.88	-1,604.89	1,664.08	0.00	0.00	0.00
6,200.00	18.12	254.67	5,937.33	-448.10	-1,634.88	1,695.18	0.00	0.00	0.00
6,300.00	18.12	254.67	6,032.37	-456.32	-1,664.87	1,726.28	0.00	0.00	0.00
6,329.14	18.12	254.67	6,060.07	-458.72	-1,673.61	1,735.34	0.00	0.00	0.00
Start Drop -2.00									
6,400.00	16.70	254.67	6,127.68	-464.32	-1,694.06	1,756.54	2.00	-2.00	0.00
6,500.00	14.70	254.67	6,223.94	-471.47	-1,720.16	1,783.60	2.00	-2.00	0.00
6,600.00	12.70	254.67	6,321.09	-477.73	-1,743.00	1,807.29	2.00	-2.00	0.00
6,700.00	10.70	254.67	6,419.01	-483.10	-1,762.56	1,827.57	2.00	-2.00	0.00
6,800.00	8.70	254.67	6,517.57	-487.55	-1,778.81	1,844.42	2.00	-2.00	0.00
6,900.00	6.70	254.67	6,616.66	-491.09	-1,791.74	1,857.82	2.00	-2.00	0.00
7,000.00	4.70	254.67	6,716.17	-493.72	-1,801.32	1,867.76	2.00	-2.00	0.00
7,100.00	2.70	254.67	6,815.95	-495.43	-1,807.55	1,874.21	2.00	-2.00	0.00
7,200.00	0.70	254.67	6,915.90	-496.21	-1,810.41	1,877.18	2.00	-2.00	0.00
7,235.10	0.00	0.00	6,951.00	-496.27	-1,810.62	1,877.40	2.00	-2.00	0.00
Start 1361.00 hold at 7235.10 MD									
7,300.00	0.00	0.00	7,015.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
7,400.00	0.00	0.00	7,115.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
7,500.00	0.00	0.00	7,215.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
7,600.00	0.00	0.00	7,315.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
7,700.00	0.00	0.00	7,415.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
7,735.10	0.00	0.00	7,451.00	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
NIOBRARA									
7,800.00	0.00	0.00	7,515.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
7,900.00	0.00	0.00	7,615.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
8,000.00	0.00	0.00	7,715.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
8,024.10	0.00	0.00	7,740.00	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
CODELL									
8,099.10	0.00	0.00	7,815.00	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
GREENHORN									
8,100.00	0.00	0.00	7,815.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
8,200.00	0.00	0.00	7,915.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
8,300.00	0.00	0.00	8,015.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
8,400.00	0.00	0.00	8,115.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
8,466.10	0.00	0.00	8,182.00	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
J-SAND									
8,500.00	0.00	0.00	8,215.90	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00

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Well:	DACONO 32-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 32-2(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)
8,596.10	0.00	0.00	8,312.00	-496.27	-1,810.62	1,877.40	0.00	0.00	0.00
PBHL_DACONO 32-2									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_DACONO 32-2 - plan hits target center - Circle (radius 50.00)	0.00	0.00	8,312.00	-496.27	-1,810.62	1,272,611.87	3,145,572.75	40° 4' 49.937 N	104° 58' 47.154 W

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 (°)	
4,284.69	4,117.00	PARKMAN				
4,726.61	4,537.00	SUSSEX				
7,735.10	7,451.00	NIOBRARA				
8,024.10	7,740.00	CODELL				
8,099.10	7,815.00	GREENHORN				
8,466.10	8,182.00	J-SAND				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
1,205.96	1,190.93	-37.55	-137.01	Start 5123.19 hold at 1205.96 MD	
6,329.14	6,060.07	-458.72	-1,673.61	Start Drop -2.00	
7,235.10	6,951.00	-496.27	-1,810.62	Start 1361.00 hold at 7235.10 MD	
8,596.10	8,312.00	-496.27	-1,810.62	TD at 8596.10	