

Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_DACANO 6-2-9F PAD
 Well: DACONO 29-2
 Wellbore: OH
 Section: SECTION 2 T1N R68W
 SHL:
 Design: DACONO 29-2(wp01)
 Latitude: 40° 4' 55.427 N
 Longitude: 104° 58' 23.815 W
 GL: 5016.00
 KB: GL 5016' & KB 15' @ 5031.00ft (ASSUMED)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4116.00	4321.09	PARKMAN
4536.00	4768.48	SUSSEX
7450.00	7796.10	NIOBRARA
7739.00	8085.10	CODELL
7814.00	8160.10	GREENHORN
8181.00	8527.10	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 29-2

+N/-S	+E/-W	Northing	Easting	Ground Level: 5016.00	Latitude	Longitude	Slot
0.00	0.00	1273178.08	3147383.51		40° 4' 55.427 N	104° 58' 23.815 W	

CASING DETAILS

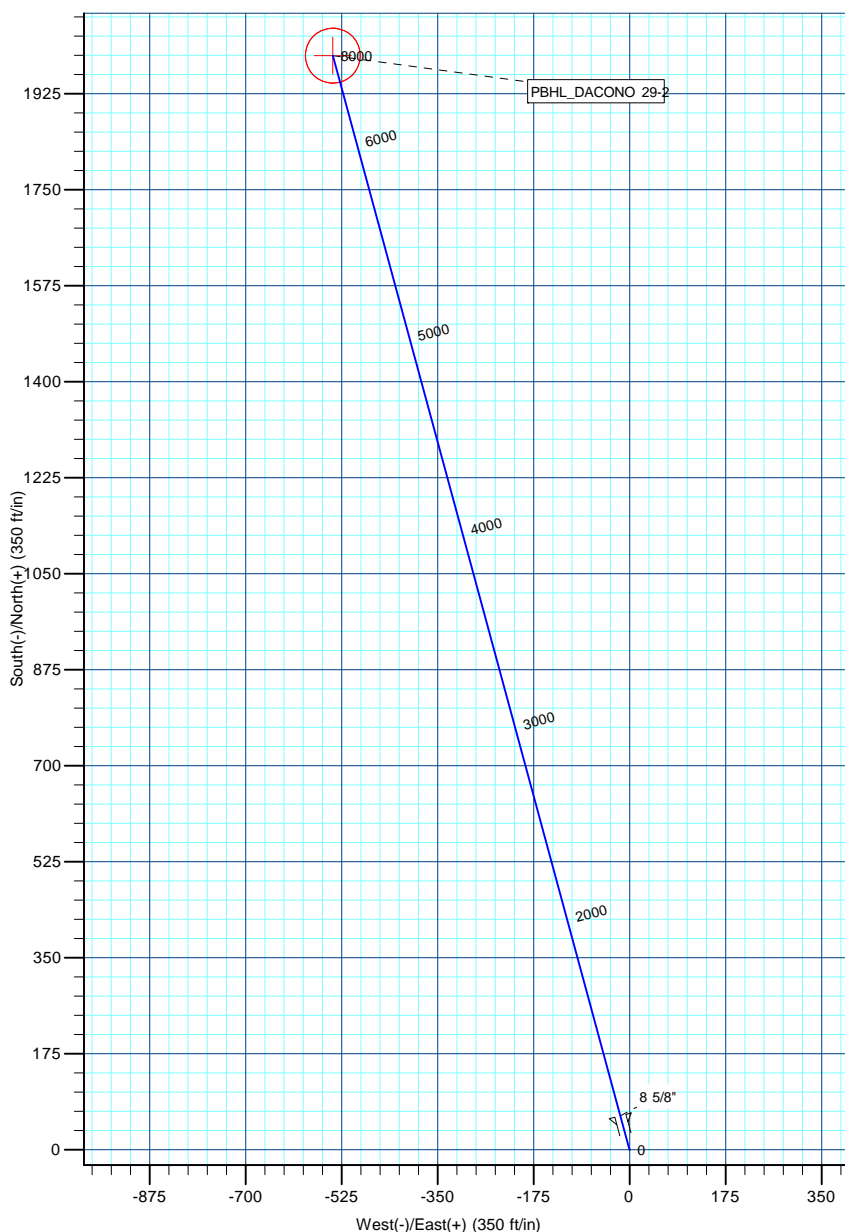
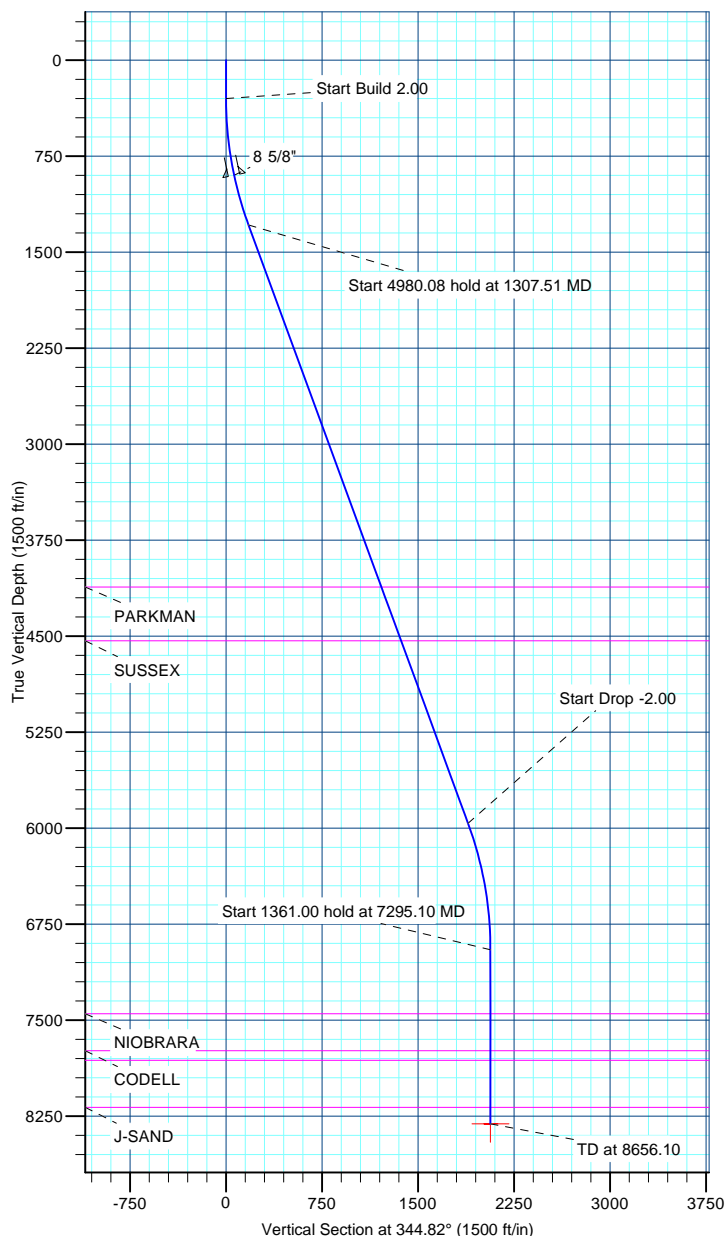
TVD	MD	Name	Size
900.00	904.48	8 5/8"	8.625

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_DACONO 29-2	8310.00	1994.18	-540.95	1275172.25	3146842.56	40° 5' 15.166 N	104° 58' 30.623 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
1307.51	20.15	344.82	1286.87	169.23	-45.91	2.00	344.82	175.35
6287.59	20.15	344.82	5962.13	1824.95	-495.04	0.00	0.00	1890.90
7295.10	0.00	0.00	6949.00	1994.18	-540.95	2.00	180.00	2066.24
8656.10	0.00	0.00	8310.00	1994.18	-540.95	0.00	0.00	2066.24



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DACANO 6-2-9F PAD

DACONO 29-2

OH

Plan: DACONO 29-2(wp01)

Standard Planning Report

17 March, 2011

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well DACONO 29-2
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 29-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 29-2(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 29-2					
Well Position	+N/-S	-20.05 ft	Northing:	1,273,178.07 usft	Latitude:	40° 4' 55.427 N
	+E/-W	0.12 ft	Easting:	3,147,383.51 usft	Longitude:	104° 58' 23.815 W
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 29-2(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	344.82	

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	
1,307.51	20.15	344.82	1,286.87	169.23	-45.91	2.00	2.00	0.00	344.82	
6,287.59	20.15	344.82	5,962.13	1,824.95	-495.04	0.00	0.00	0.00	0.00	
7,295.10	0.00	0.00	6,949.00	1,994.18	-540.95	2.00	-2.00	0.00	180.00	
8,656.10	0.00	0.00	8,310.00	1,994.18	-540.95	0.00	0.00	0.00	0.00	PBHL_DACONO 29-2

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well DACONO 29-2
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 29-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 29-2(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	344.82	399.98	1.68	-0.46	1.75	2.00	2.00	0.00
500.00	4.00	344.82	499.84	6.74	-1.83	6.98	2.00	2.00	0.00
600.00	6.00	344.82	599.45	15.15	-4.11	15.69	2.00	2.00	0.00
700.00	8.00	344.82	698.70	26.91	-7.30	27.88	2.00	2.00	0.00
800.00	10.00	344.82	797.47	42.00	-11.39	43.52	2.00	2.00	0.00
900.00	12.00	344.82	895.62	60.42	-16.39	62.60	2.00	2.00	0.00
904.48	12.09	344.82	900.00	61.32	-16.63	63.54	2.00	2.00	0.00
8 5/8"									
1,000.00	14.00	344.82	993.06	82.13	-22.28	85.10	2.00	2.00	0.00
1,100.00	16.00	344.82	1,089.64	107.11	-29.05	110.98	2.00	2.00	0.00
1,200.00	18.00	344.82	1,185.27	135.32	-36.71	140.21	2.00	2.00	0.00
1,300.00	20.00	344.82	1,279.82	166.74	-45.23	172.77	2.00	2.00	0.00
1,307.51	20.15	344.82	1,286.87	169.23	-45.91	175.35	2.00	2.00	0.00
Start 4980.08 hold at 1307.51 MD									
1,400.00	20.15	344.82	1,373.70	199.98	-54.25	207.21	0.00	0.00	0.00
1,500.00	20.15	344.82	1,467.58	233.23	-63.27	241.66	0.00	0.00	0.00
1,600.00	20.15	344.82	1,561.46	266.47	-72.28	276.10	0.00	0.00	0.00
1,700.00	20.15	344.82	1,655.34	299.72	-81.30	310.55	0.00	0.00	0.00
1,800.00	20.15	344.82	1,749.22	332.97	-90.32	345.00	0.00	0.00	0.00
1,900.00	20.15	344.82	1,843.09	366.21	-99.34	379.45	0.00	0.00	0.00
2,000.00	20.15	344.82	1,936.97	399.46	-108.36	413.90	0.00	0.00	0.00
2,100.00	20.15	344.82	2,030.85	432.71	-117.38	448.34	0.00	0.00	0.00
2,200.00	20.15	344.82	2,124.73	465.95	-126.40	482.79	0.00	0.00	0.00
2,300.00	20.15	344.82	2,218.61	499.20	-135.41	517.24	0.00	0.00	0.00
2,400.00	20.15	344.82	2,312.49	532.45	-144.43	551.69	0.00	0.00	0.00
2,500.00	20.15	344.82	2,406.37	565.69	-153.45	586.14	0.00	0.00	0.00
2,600.00	20.15	344.82	2,500.25	598.94	-162.47	620.59	0.00	0.00	0.00
2,700.00	20.15	344.82	2,594.13	632.19	-171.49	655.03	0.00	0.00	0.00
2,800.00	20.15	344.82	2,688.01	665.44	-180.51	689.48	0.00	0.00	0.00
2,900.00	20.15	344.82	2,781.89	698.68	-189.53	723.93	0.00	0.00	0.00
3,000.00	20.15	344.82	2,875.77	731.93	-198.55	758.38	0.00	0.00	0.00
3,100.00	20.15	344.82	2,969.65	765.18	-207.56	792.83	0.00	0.00	0.00
3,200.00	20.15	344.82	3,063.52	798.42	-216.58	827.28	0.00	0.00	0.00
3,300.00	20.15	344.82	3,157.40	831.67	-225.60	861.72	0.00	0.00	0.00
3,400.00	20.15	344.82	3,251.28	864.92	-234.62	896.17	0.00	0.00	0.00
3,500.00	20.15	344.82	3,345.16	898.16	-243.64	930.62	0.00	0.00	0.00
3,600.00	20.15	344.82	3,439.04	931.41	-252.66	965.07	0.00	0.00	0.00
3,700.00	20.15	344.82	3,532.92	964.66	-261.68	999.52	0.00	0.00	0.00
3,800.00	20.15	344.82	3,626.80	997.90	-270.69	1,033.97	0.00	0.00	0.00
3,900.00	20.15	344.82	3,720.68	1,031.15	-279.71	1,068.41	0.00	0.00	0.00
4,000.00	20.15	344.82	3,814.56	1,064.40	-288.73	1,102.86	0.00	0.00	0.00
4,100.00	20.15	344.82	3,908.44	1,097.64	-297.75	1,137.31	0.00	0.00	0.00
4,200.00	20.15	344.82	4,002.32	1,130.89	-306.77	1,171.76	0.00	0.00	0.00
4,300.00	20.15	344.82	4,096.20	1,164.14	-315.79	1,206.21	0.00	0.00	0.00
4,321.09	20.15	344.82	4,116.00	1,171.15	-317.69	1,213.47	0.00	0.00	0.00
PARKMAN									
4,400.00	20.15	344.82	4,190.08	1,197.38	-324.81	1,240.66	0.00	0.00	0.00
4,500.00	20.15	344.82	4,283.96	1,230.63	-333.82	1,275.10	0.00	0.00	0.00
4,600.00	20.15	344.82	4,377.83	1,263.88	-342.84	1,309.55	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 29-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 29-2(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	20.15	344.82	4,471.71	1,297.12	-351.86	1,344.00	0.00	0.00	0.00
4,768.48	20.15	344.82	4,536.00	1,319.89	-358.04	1,367.59	0.00	0.00	0.00
SUSSEX									
4,800.00	20.15	344.82	4,565.59	1,330.37	-360.88	1,378.45	0.00	0.00	0.00
4,900.00	20.15	344.82	4,659.47	1,363.62	-369.90	1,412.90	0.00	0.00	0.00
5,000.00	20.15	344.82	4,753.35	1,396.86	-378.92	1,447.35	0.00	0.00	0.00
5,100.00	20.15	344.82	4,847.23	1,430.11	-387.94	1,481.79	0.00	0.00	0.00
5,200.00	20.15	344.82	4,941.11	1,463.36	-396.95	1,516.24	0.00	0.00	0.00
5,300.00	20.15	344.82	5,034.99	1,496.60	-405.97	1,550.69	0.00	0.00	0.00
5,400.00	20.15	344.82	5,128.87	1,529.85	-414.99	1,585.14	0.00	0.00	0.00
5,500.00	20.15	344.82	5,222.75	1,563.10	-424.01	1,619.59	0.00	0.00	0.00
5,600.00	20.15	344.82	5,316.63	1,596.35	-433.03	1,654.04	0.00	0.00	0.00
5,700.00	20.15	344.82	5,410.51	1,629.59	-442.05	1,688.48	0.00	0.00	0.00
5,800.00	20.15	344.82	5,504.39	1,662.84	-451.07	1,722.93	0.00	0.00	0.00
5,900.00	20.15	344.82	5,598.26	1,696.09	-460.09	1,757.38	0.00	0.00	0.00
6,000.00	20.15	344.82	5,692.14	1,729.33	-469.10	1,791.83	0.00	0.00	0.00
6,100.00	20.15	344.82	5,786.02	1,762.58	-478.12	1,826.28	0.00	0.00	0.00
6,200.00	20.15	344.82	5,879.90	1,795.83	-487.14	1,860.72	0.00	0.00	0.00
6,287.59	20.15	344.82	5,962.13	1,824.95	-495.04	1,890.90	0.00	0.00	0.00
Start Drop -2.00									
6,300.00	19.90	344.82	5,973.79	1,829.05	-496.15	1,895.15	2.00	-2.00	0.00
6,400.00	17.90	344.82	6,068.39	1,860.31	-504.63	1,927.54	2.00	-2.00	0.00
6,500.00	15.90	344.82	6,164.07	1,888.37	-512.24	1,956.61	2.00	-2.00	0.00
6,600.00	13.90	344.82	6,260.70	1,913.19	-518.98	1,982.33	2.00	-2.00	0.00
6,700.00	11.90	344.82	6,358.17	1,934.74	-524.82	2,004.66	2.00	-2.00	0.00
6,800.00	9.90	344.82	6,456.36	1,952.99	-529.77	2,023.57	2.00	-2.00	0.00
6,900.00	7.90	344.82	6,555.15	1,967.92	-533.82	2,039.04	2.00	-2.00	0.00
7,000.00	5.90	344.82	6,654.42	1,979.52	-536.97	2,051.06	2.00	-2.00	0.00
7,100.00	3.90	344.82	6,754.05	1,987.77	-539.21	2,059.60	2.00	-2.00	0.00
7,200.00	1.90	344.82	6,853.92	1,992.65	-540.53	2,064.67	2.00	-2.00	0.00
7,295.10	0.00	0.00	6,949.00	1,994.18	-540.95	2,066.24	2.00	-2.00	15.96
Start 1361.00 hold at 7295.10 MD									
7,300.00	0.00	0.00	6,953.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
7,400.00	0.00	0.00	7,053.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
7,500.00	0.00	0.00	7,153.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
7,600.00	0.00	0.00	7,253.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
7,700.00	0.00	0.00	7,353.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
7,796.10	0.00	0.00	7,450.00	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
NIORARA									
7,800.00	0.00	0.00	7,453.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
7,900.00	0.00	0.00	7,553.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
8,000.00	0.00	0.00	7,653.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
8,085.10	0.00	0.00	7,739.00	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
CODELL									
8,100.00	0.00	0.00	7,753.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
8,160.10	0.00	0.00	7,814.00	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
GREENHORN									
8,200.00	0.00	0.00	7,853.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
8,300.00	0.00	0.00	7,953.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
8,400.00	0.00	0.00	8,053.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
8,500.00	0.00	0.00	8,153.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
8,527.10	0.00	0.00	8,181.00	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
J-SAND									

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Wellbore:	OH		
Design:	DACONO 29-2(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)
8,600.00	0.00	0.00	8,253.90	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
8,656.10	0.00	0.00	8,310.00	1,994.18	-540.95	2,066.24	0.00	0.00	0.00
PBHL_DACONO 29-2									

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_DACONO 29-2	0.00	0.00	8,310.00	1,994.18	-540.95	1,275,172.25	3,146,842.56	40° 5' 15.166 N	104° 58' 30.623 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 (°)	
4,321.09	4,116.00	PARKMAN				
4,768.48	4,536.00	SUSSEX				
7,796.10	7,450.00	NIOBRARA				
8,085.10	7,739.00	CODELL				
8,160.10	7,814.00	GREENHORN				
8,527.10	8,181.00	J-SAND				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
1,307.51	1,286.87	169.23	-45.91	Start 4980.08 hold at 1307.51 MD	
6,287.59	5,962.13	1,824.95	-495.04	Start Drop -2.00	
7,295.10	6,949.00	1,994.18	-540.95	Start 1361.00 hold at 7295.10 MD	
8,656.10	8,310.00	1,994.18	-540.95	TD at 8656.10	