

Project: COLORADO NORTHERN ZONE - 83
Site: WELD_DACANO 6-2-9F PAD
Well: DACONO 28-2
Wellbore: OH
Section: SECTION 2 T1N R68W
SHL:
Design: DACONO 28-2(wp01)
Latitude: 40° 4' 55.527 N
Longitude: 104° 58' 23.815 W
GL: 5016.00
KB: GL 5016' & KB 15' @ 5031.00ft (ASSUMED)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4115.00	4329.95	PARKMAN
4535.00	4778.82	SUSSEX
7449.00	7811.49	NIOBRARA
7738.00	8100.49	CODELL
7813.00	8175.49	GREENHORN
8180.00	8542.49	J-SAND



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

Magnetic Field
Strength: 52965.5nT
Dip Angle: 66.77°
Date: 03/17/2011
Model: IGRF2010

WELL DETAILS: DACONO 28-2

+N/-S	+E/-W	Northing	Easting	Ground Level: 5016.00	Latitude	Longitude	Slot
0.00	0.00	1273188.28	3147383.45		40° 4' 55.527 N	104° 58' 23.815 W	

CASING DETAILS

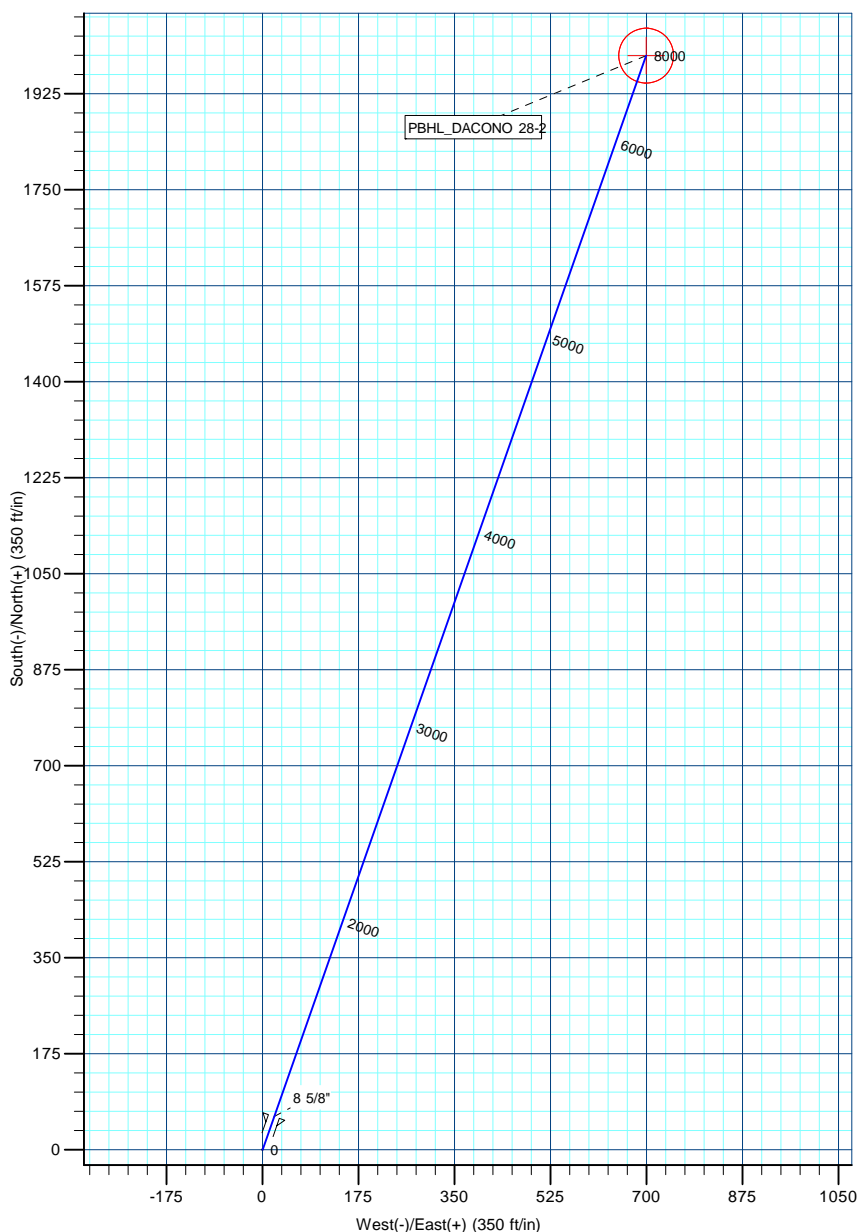
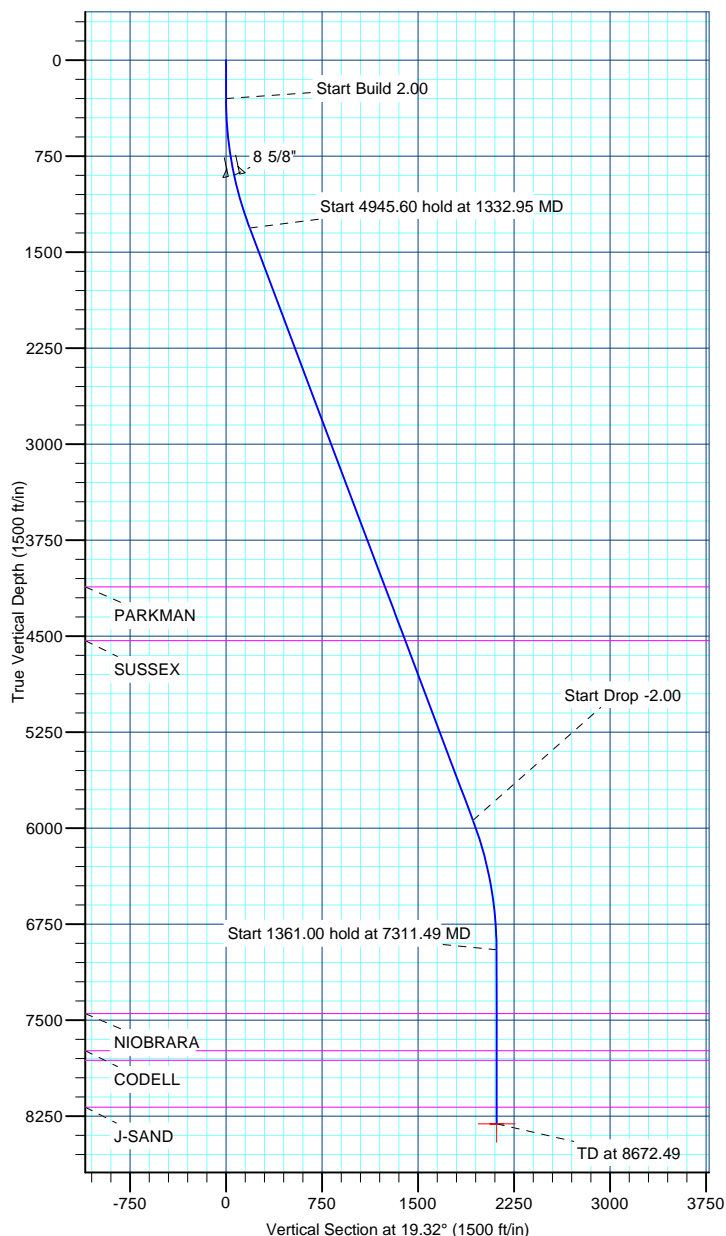
TVD	MD	Name	Size
900.00	904.48	8 5/8"	8.625

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_DACONO 28-2	8310.00	1994.26	699.12	1275182.53	3148082.57	40° 5' 15.194 N	104° 58' 14.668 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
1332.95	20.66	19.32	1310.71	173.84	60.94	2.00	19.32	184.21
6278.54	20.66	19.32	5938.29	1820.42	638.18	0.00	0.00	1929.04
7311.49	0.00	0.00	6949.00	1994.26	699.12	2.00	180.00	2113.26
8672.49	0.00	0.00	8310.00	1994.26	699.12	0.00	0.00	2113.26



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DACANO 6-2-9F PAD

DACONO 28-2

OH

Plan: DACONO 28-2(wp01)

Standard Planning Report

17 March, 2011

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well DACONO 28-2
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 28-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 28-2(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 28-2					
Well Position	+N/-S	-9.85 ft	Northing:	1,273,188.27 usft	Latitude:	40° 4' 55.527 N
	+E/-W	0.06 ft	Easting:	3,147,383.45 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 28-2(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	19.32	

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	
1,332.95	20.66	19.32	1,310.71	173.84	60.94	2.00	2.00	0.00	19.32	
6,278.54	20.66	19.32	5,938.29	1,820.42	638.18	0.00	0.00	0.00	0.00	
7,311.49	0.00	0.00	6,949.00	1,994.26	699.12	2.00	-2.00	0.00	180.00	
8,672.49	0.00	0.00	8,310.00	1,994.26	699.12	0.00	0.00	0.00	0.00	PBHL_DACONO 28-2

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well DACONO 28-2
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 28-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 28-2(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	19.32	399.98	1.65	0.58	1.75	2.00	2.00	0.00
500.00	4.00	19.32	499.84	6.59	2.31	6.98	2.00	2.00	0.00
600.00	6.00	19.32	599.45	14.81	5.19	15.69	2.00	2.00	0.00
700.00	8.00	19.32	698.70	26.31	9.22	27.88	2.00	2.00	0.00
800.00	10.00	19.32	797.47	41.07	14.40	43.52	2.00	2.00	0.00
900.00	12.00	19.32	895.62	59.08	20.71	62.60	2.00	2.00	0.00
904.48	12.09	19.32	900.00	59.96	21.02	63.54	2.00	2.00	0.00
8 5/8"									
1,000.00	14.00	19.32	993.06	80.30	28.15	85.10	2.00	2.00	0.00
1,100.00	16.00	19.32	1,089.64	104.73	36.71	110.98	2.00	2.00	0.00
1,200.00	18.00	19.32	1,185.27	132.32	46.39	140.21	2.00	2.00	0.00
1,300.00	20.00	19.32	1,279.82	163.04	57.16	172.77	2.00	2.00	0.00
1,332.95	20.66	19.32	1,310.71	173.84	60.94	184.21	2.00	2.00	0.00
Start 4945.60 hold at 1332.95 MD									
1,400.00	20.66	19.32	1,373.45	196.17	68.77	207.87	0.00	0.00	0.00
1,500.00	20.66	19.32	1,467.02	229.46	80.44	243.15	0.00	0.00	0.00
1,600.00	20.66	19.32	1,560.59	262.75	92.11	278.43	0.00	0.00	0.00
1,700.00	20.66	19.32	1,654.16	296.05	103.78	313.71	0.00	0.00	0.00
1,800.00	20.66	19.32	1,747.73	329.34	115.46	348.99	0.00	0.00	0.00
1,900.00	20.66	19.32	1,841.30	362.64	127.13	384.27	0.00	0.00	0.00
2,000.00	20.66	19.32	1,934.87	395.93	138.80	419.55	0.00	0.00	0.00
2,100.00	20.66	19.32	2,028.44	429.22	150.47	454.83	0.00	0.00	0.00
2,200.00	20.66	19.32	2,122.01	462.52	162.14	490.11	0.00	0.00	0.00
2,300.00	20.66	19.32	2,215.58	495.81	173.82	525.39	0.00	0.00	0.00
2,400.00	20.66	19.32	2,309.15	529.10	185.49	560.68	0.00	0.00	0.00
2,500.00	20.66	19.32	2,402.72	562.40	197.16	595.96	0.00	0.00	0.00
2,600.00	20.66	19.32	2,496.29	595.69	208.83	631.24	0.00	0.00	0.00
2,700.00	20.66	19.32	2,589.86	628.99	220.50	666.52	0.00	0.00	0.00
2,800.00	20.66	19.32	2,683.43	662.28	232.17	701.80	0.00	0.00	0.00
2,900.00	20.66	19.32	2,777.00	695.57	243.85	737.08	0.00	0.00	0.00
3,000.00	20.66	19.32	2,870.57	728.87	255.52	772.36	0.00	0.00	0.00
3,100.00	20.66	19.32	2,964.14	762.16	267.19	807.64	0.00	0.00	0.00
3,200.00	20.66	19.32	3,057.71	795.45	278.86	842.92	0.00	0.00	0.00
3,300.00	20.66	19.32	3,151.28	828.75	290.53	878.20	0.00	0.00	0.00
3,400.00	20.66	19.32	3,244.85	862.04	302.20	913.48	0.00	0.00	0.00
3,500.00	20.66	19.32	3,338.42	895.34	313.88	948.76	0.00	0.00	0.00
3,600.00	20.66	19.32	3,431.99	928.63	325.55	984.04	0.00	0.00	0.00
3,700.00	20.66	19.32	3,525.55	961.92	337.22	1,019.32	0.00	0.00	0.00
3,800.00	20.66	19.32	3,619.12	995.22	348.89	1,054.60	0.00	0.00	0.00
3,900.00	20.66	19.32	3,712.69	1,028.51	360.56	1,089.88	0.00	0.00	0.00
4,000.00	20.66	19.32	3,806.26	1,061.81	372.24	1,125.16	0.00	0.00	0.00
4,100.00	20.66	19.32	3,899.83	1,095.10	383.91	1,160.44	0.00	0.00	0.00
4,200.00	20.66	19.32	3,993.40	1,128.39	395.58	1,195.72	0.00	0.00	0.00
4,300.00	20.66	19.32	4,086.97	1,161.69	407.25	1,231.00	0.00	0.00	0.00
4,329.95	20.66	19.32	4,115.00	1,171.66	410.75	1,241.57	0.00	0.00	0.00
PARKMAN									
4,400.00	20.66	19.32	4,180.54	1,194.98	418.92	1,266.28	0.00	0.00	0.00
4,500.00	20.66	19.32	4,274.11	1,228.27	430.59	1,301.56	0.00	0.00	0.00
4,600.00	20.66	19.32	4,367.68	1,261.57	442.27	1,336.84	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 28-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 28-2(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	20.66	19.32	4,461.25	1,294.86	453.94	1,372.13	0.00	0.00	0.00
4,778.82	20.66	19.32	4,535.00	1,321.10	463.14	1,399.93	0.00	0.00	0.00
SUSSEX									
4,800.00	20.66	19.32	4,554.82	1,328.16	465.61	1,407.41	0.00	0.00	0.00
4,900.00	20.66	19.32	4,648.39	1,361.45	477.28	1,442.69	0.00	0.00	0.00
5,000.00	20.66	19.32	4,741.96	1,394.74	488.95	1,477.97	0.00	0.00	0.00
5,100.00	20.66	19.32	4,835.53	1,428.04	500.62	1,513.25	0.00	0.00	0.00
5,200.00	20.66	19.32	4,929.10	1,461.33	512.30	1,548.53	0.00	0.00	0.00
5,300.00	20.66	19.32	5,022.67	1,494.63	523.97	1,583.81	0.00	0.00	0.00
5,400.00	20.66	19.32	5,116.24	1,527.92	535.64	1,619.09	0.00	0.00	0.00
5,500.00	20.66	19.32	5,209.81	1,561.21	547.31	1,654.37	0.00	0.00	0.00
5,600.00	20.66	19.32	5,303.38	1,594.51	558.98	1,689.65	0.00	0.00	0.00
5,700.00	20.66	19.32	5,396.95	1,627.80	570.66	1,724.93	0.00	0.00	0.00
5,800.00	20.66	19.32	5,490.52	1,661.09	582.33	1,760.21	0.00	0.00	0.00
5,900.00	20.66	19.32	5,584.09	1,694.39	594.00	1,795.49	0.00	0.00	0.00
6,000.00	20.66	19.32	5,677.66	1,727.68	605.67	1,830.77	0.00	0.00	0.00
6,100.00	20.66	19.32	5,771.23	1,760.98	617.34	1,866.05	0.00	0.00	0.00
6,200.00	20.66	19.32	5,864.80	1,794.27	629.01	1,901.33	0.00	0.00	0.00
6,278.54	20.66	19.32	5,938.29	1,820.42	638.18	1,929.04	0.00	0.00	0.00
Start Drop -2.00									
6,300.00	20.23	19.32	5,958.40	1,827.49	640.66	1,936.54	2.00	-2.00	0.00
6,400.00	18.23	19.32	6,052.81	1,858.57	651.56	1,969.47	2.00	-2.00	0.00
6,500.00	16.23	19.32	6,148.32	1,886.52	661.36	1,999.09	2.00	-2.00	0.00
6,600.00	14.23	19.32	6,244.80	1,911.31	670.05	2,025.36	2.00	-2.00	0.00
6,700.00	12.23	19.32	6,342.14	1,932.91	677.62	2,048.24	2.00	-2.00	0.00
6,800.00	10.23	19.32	6,440.22	1,951.29	684.06	2,067.72	2.00	-2.00	0.00
6,900.00	8.23	19.32	6,538.92	1,966.42	689.36	2,083.75	2.00	-2.00	0.00
7,000.00	6.23	19.32	6,638.12	1,978.30	693.53	2,096.34	2.00	-2.00	0.00
7,100.00	4.23	19.32	6,737.70	1,986.90	696.54	2,105.45	2.00	-2.00	0.00
7,200.00	2.23	19.32	6,837.54	1,992.21	698.41	2,111.09	2.00	-2.00	0.00
7,300.00	0.23	19.32	6,937.51	1,994.24	699.12	2,113.23	2.00	-2.00	0.00
7,311.49	0.00	0.00	6,949.00	1,994.26	699.12	2,113.26	2.00	-2.00	-168.14
Start 1361.00 hold at 7311.49 MD									
7,400.00	0.00	0.00	7,037.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
7,500.00	0.00	0.00	7,137.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
7,600.00	0.00	0.00	7,237.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
7,700.00	0.00	0.00	7,337.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
7,800.00	0.00	0.00	7,437.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
7,811.49	0.00	0.00	7,449.00	1,994.26	699.12	2,113.26	0.00	0.00	0.00
NIOBRARA									
7,900.00	0.00	0.00	7,537.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
8,000.00	0.00	0.00	7,637.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
8,100.00	0.00	0.00	7,737.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
8,100.49	0.00	0.00	7,738.00	1,994.26	699.12	2,113.26	0.00	0.00	0.00
CODELL									
8,175.49	0.00	0.00	7,813.00	1,994.26	699.12	2,113.26	0.00	0.00	0.00
GREENHORN									
8,200.00	0.00	0.00	7,837.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
8,300.00	0.00	0.00	7,937.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
8,400.00	0.00	0.00	8,037.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
8,500.00	0.00	0.00	8,137.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
8,542.49	0.00	0.00	8,180.00	1,994.26	699.12	2,113.26	0.00	0.00	0.00
J-SAND									

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Well:	DACONO 28-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	DACONO 28-2(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	8,237.51	1,994.26	699.12	2,113.26	0.00	0.00	0.00
8,672.49	0.00	0.00	8,310.00	1,994.26	699.12	2,113.26	0.00	0.00	0.00
PBHL_DACONO 28-2									

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 28-2	0.00	0.00	8,310.00	1,994.26	699.12	1,275,182.53	3,148,082.57	40° 5' 15.194 N	104° 58' 14.668 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 (°)	
4,329.95	4,115.00	PARKMAN				
4,778.82	4,535.00	SUSSEX				
7,811.49	7,449.00	NIOBRARA				
8,100.49	7,738.00	CODELL				
8,175.49	7,813.00	GREENHORN				
8,542.49	8,180.00	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
1,332.95	1,310.71	173.84	60.94	Start 4945.60 hold at 1332.95 MD
6,278.54	5,938.29	1,820.42	638.18	Start Drop -2.00
7,311.49	6,949.00	1,994.26	699.12	Start 1361.00 hold at 7311.49 MD
8,672.49	8,310.00	1,994.26	699.12	TD at 8672.49