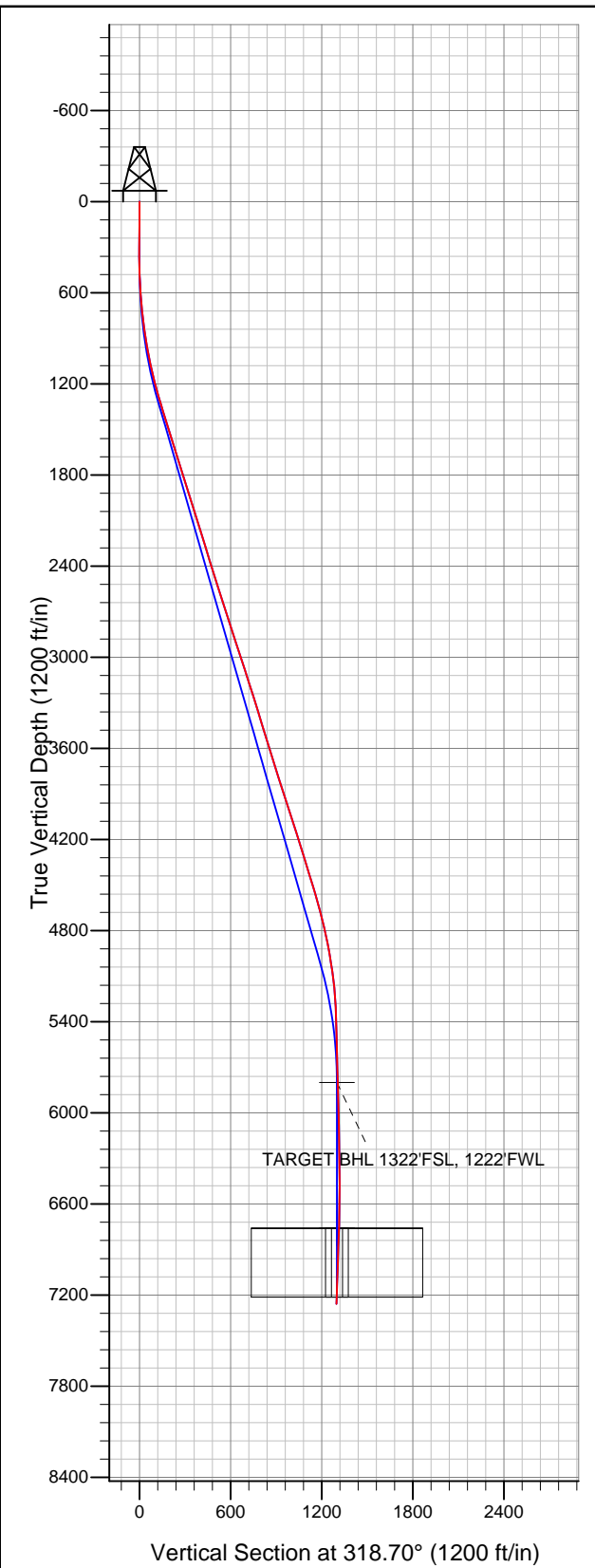


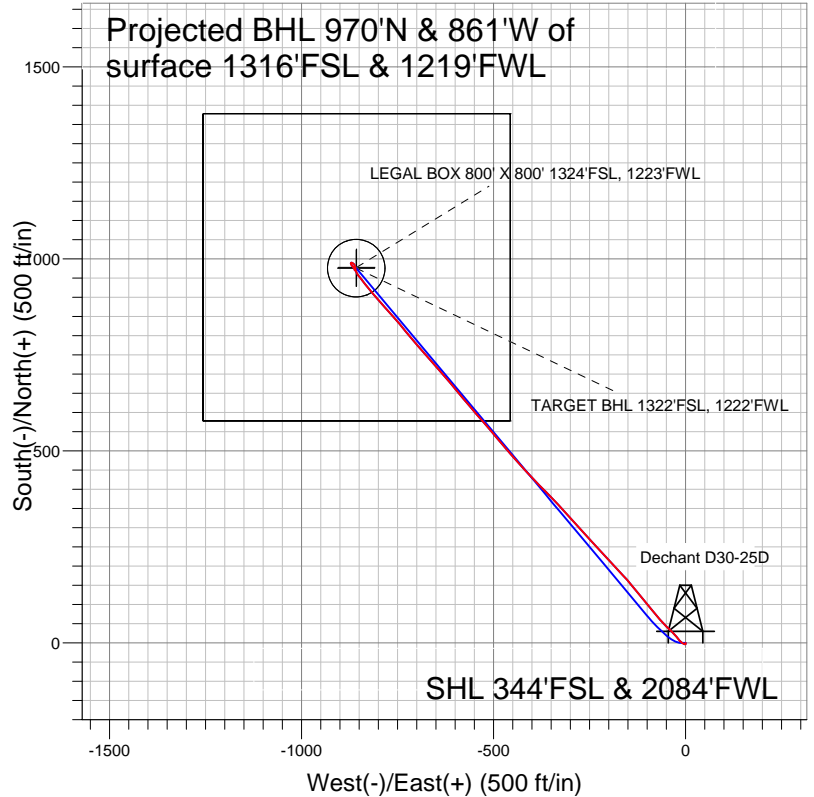


Well Name: Dechant D30-25D

Surface Location: Dechant D30-24D Pad Sec.30-T3N-R64W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4801.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1313286.87 3252731.09 40.189830 -104.595350
Original Well Elev WELL @ 4814.0ft (Original Well Elev)



NOBLE ENERGY INC WELD COUNTY CO



LEGEND

- Dechant D30-25D, Wellbore #1, Noble Dechant D30-25D Plan #2 (12-01-11) R V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7443'MD & 7258'TVD @ 1297'VS
1.9 deg Inc 158.3 deg AZ

Project: SEC.30-T3N-R64W
Site: Dechant D30-24D Pad Sec.30-T3N-R64W
Well: Dechant D30-25D
Plan: Wellbore #1



NOBLE ENERGY INC WELD COUNTY CO

SEC.30-T3N-R64W

Dechant D30-24D Pad Sec.30-T3N-R64W

Dechant D30-25D

Wellbore #1

Survey: Survey #1

Standard Survey Report

09 December, 2011



Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Dechant D30-25D
Project:	SEC.30-T3N-R64W	TVD Reference:	WELL @ 4814.0ft (Original Well Elev)
Site:	Dechant D30-24D Pad Sec.30-T3N-R64W	MD Reference:	WELL @ 4814.0ft (Original Well Elev)
Well:	Dechant D30-25D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.30-T3N-R64W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Dechant D30-24D Pad Sec.30-T3N-R64W				
Site Position:		Northing:	1,313,330.59ft	Latitude:	40.189950
From:	Lat/Long	Easting:	3,252,730.65ft	Longitude:	-104.595350
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.58 °

Well	Dechant D30-25D					
Well Position	+N/-S	0.0 ft	Northing:	1,313,286.87 ft	Latitude:	40.189830
	+E/-W	0.0 ft	Easting:	3,252,731.09 ft	Longitude:	-104.595350
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,801.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/1/2011	8.69	66.89	52,991

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	318.70	

Survey Program	Date	12/9/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
122.0	7,443.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
122.0	0.40	167.60	122.0	-0.4	0.1	-0.4	0.33	0.33	0.00	
210.0	0.80	167.10	210.0	-1.3	0.3	-1.2	0.45	0.45	-0.57	
303.0	0.60	188.20	303.0	-2.4	0.4	-2.1	0.35	-0.22	22.69	
396.0	1.00	264.60	396.0	-3.0	-0.5	-1.9	1.12	0.43	82.15	
488.0	2.30	283.10	487.9	-2.6	-3.1	0.1	1.51	1.41	20.11	
580.0	3.70	301.50	579.8	-0.7	-7.4	4.4	1.83	1.52	20.00	
672.0	5.40	315.30	671.5	4.0	-13.0	11.6	2.19	1.85	15.00	
766.0	6.90	320.70	765.0	11.5	-19.7	21.6	1.71	1.60	5.74	
832.0	7.70	318.10	830.4	17.8	-25.2	30.0	1.31	1.21	-3.94	
925.0	9.50	316.70	922.4	28.0	-34.6	43.9	1.95	1.94	-1.51	
1,019.0	10.60	313.90	1,015.0	39.7	-46.1	60.3	1.28	1.17	-2.98	
1,113.0	12.60	316.70	1,107.0	53.1	-59.4	79.1	2.21	2.13	2.98	

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Dechant D30-25D
Project:	SEC.30-T3N-R64W	TVD Reference:	WELL @ 4814.0ft (Original Well Elev)
Site:	Dechant D30-24D Pad Sec.30-T3N-R64W	MD Reference:	WELL @ 4814.0ft (Original Well Elev)
Well:	Dechant D30-25D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

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)
1,207.0	14.90	320.40	1,198.3	69.9	-74.1	101.5	2.62	2.45	3.94
1,301.0	16.20	320.20	1,288.9	89.3	-90.2	126.7	1.38	1.38	-0.21
1,395.0	17.20	321.10	1,378.9	110.2	-107.4	153.6	1.10	1.06	0.96
1,489.0	17.30	321.10	1,468.7	131.9	-124.9	181.5	0.11	0.11	0.00
1,583.0	17.80	319.80	1,558.3	153.7	-142.9	209.8	0.68	0.53	-1.38
1,677.0	17.10	317.00	1,648.0	174.8	-161.6	238.0	1.16	-0.74	-2.98
1,771.0	17.10	317.20	1,737.8	195.1	-180.4	265.6	0.06	0.00	0.21
1,865.0	17.80	317.00	1,827.5	215.7	-199.6	293.8	0.75	0.74	-0.21
1,959.0	17.40	317.00	1,917.1	236.5	-219.0	322.2	0.43	-0.43	0.00
2,052.0	17.70	318.40	2,005.8	257.3	-237.9	350.3	0.56	0.32	1.51
2,146.0	17.40	318.30	2,095.4	278.4	-256.7	378.6	0.32	-0.32	-0.11
2,240.0	17.10	317.20	2,185.2	299.1	-275.4	406.5	0.47	-0.32	-1.17
2,334.0	17.10	317.00	2,275.0	319.3	-294.3	434.1	0.06	0.00	-0.21
2,428.0	17.30	318.40	2,364.8	339.9	-313.0	461.9	0.49	0.21	1.49
2,522.0	17.70	316.70	2,454.5	360.7	-332.0	490.2	0.69	0.43	-1.81
2,616.0	17.80	316.20	2,544.0	381.5	-351.8	518.8	0.19	0.11	-0.53
2,710.0	17.00	313.70	2,633.7	401.4	-371.7	546.8	1.16	-0.85	-2.66
2,804.0	18.30	317.70	2,723.3	421.8	-391.5	575.3	1.89	1.38	4.26
2,898.0	18.30	317.40	2,812.5	443.5	-411.5	604.8	0.10	0.00	-0.32
2,992.0	18.10	317.90	2,901.8	465.2	-431.2	634.1	0.27	-0.21	0.53
3,086.0	18.30	317.40	2,991.1	486.9	-451.0	663.5	0.27	0.21	-0.53
3,180.0	17.90	320.00	3,080.5	508.9	-470.3	692.7	0.96	-0.43	2.77
3,273.0	17.90	319.80	3,169.0	530.7	-488.7	721.3	0.07	0.00	-0.22
3,367.0	17.50	320.00	3,258.5	552.6	-507.1	749.8	0.43	-0.43	0.21
3,461.0	17.00	318.60	3,348.3	573.7	-525.3	777.7	0.69	-0.53	-1.49
3,555.0	17.00	319.80	3,438.2	594.5	-543.2	805.2	0.37	0.00	1.28
3,649.0	16.70	320.00	3,528.1	615.4	-560.8	832.4	0.33	-0.32	0.21
3,743.0	17.20	318.60	3,618.1	636.1	-578.7	859.8	0.69	0.53	-1.49
3,837.0	17.60	321.20	3,707.8	657.6	-596.8	887.9	0.93	0.43	2.77
3,931.0	17.50	320.00	3,797.4	679.6	-614.8	916.3	0.40	-0.11	-1.28
4,025.0	18.10	319.10	3,886.9	701.4	-633.4	945.0	0.70	0.64	-0.96
4,119.0	18.70	318.80	3,976.1	723.8	-652.9	974.7	0.65	0.64	-0.32
4,213.0	17.60	319.00	4,065.4	745.9	-672.1	1,003.9	1.17	-1.17	0.21
4,307.0	16.90	317.40	4,155.2	766.6	-690.7	1,031.8	0.90	-0.74	-1.70
4,401.0	17.80	319.80	4,244.9	787.7	-709.2	1,059.8	1.22	0.96	2.55
4,495.0	16.90	320.50	4,334.6	809.2	-727.2	1,087.9	0.98	-0.96	0.74
4,589.0	17.40	320.90	4,424.4	830.6	-744.7	1,115.6	0.55	0.53	0.43
4,682.0	17.10	317.40	4,513.3	851.5	-762.8	1,143.1	1.16	-0.32	-3.76
4,776.0	16.20	318.30	4,603.3	871.5	-780.8	1,170.1	1.00	-0.96	0.96
4,870.0	14.30	320.00	4,694.0	890.1	-797.0	1,194.8	2.08	-2.02	1.81
4,964.0	13.20	318.10	4,785.3	907.0	-811.7	1,217.1	1.26	-1.17	-2.02
5,058.0	11.60	321.20	4,877.1	922.4	-824.8	1,237.3	1.84	-1.70	3.30
5,152.0	9.10	322.00	4,969.6	935.6	-835.3	1,254.2	2.66	-2.66	0.85
5,246.0	8.00	322.50	5,062.5	946.7	-843.8	1,268.1	1.17	-1.17	0.53
5,340.0	6.30	320.00	5,155.8	955.8	-851.1	1,279.8	1.84	-1.81	-2.66
5,434.0	4.00	335.50	5,249.4	962.7	-855.8	1,288.1	2.84	-2.45	16.49
5,528.0	2.20	337.80	5,343.3	967.4	-857.8	1,292.9	1.92	-1.91	2.45
5,622.0	1.60	348.30	5,437.2	970.3	-858.8	1,295.8	0.74	-0.64	11.17
5,716.0	1.80	342.30	5,531.2	973.0	-859.5	1,298.3	0.28	0.21	-6.38
5,810.0	1.70	354.00	5,625.1	975.8	-860.1	1,300.8	0.39	-0.11	12.45
5,904.0	1.60	358.00	5,719.1	978.5	-860.3	1,302.9	0.16	-0.11	4.26
5,984.8	1.51	345.64	5,799.9	980.7	-860.6	1,304.7	0.43	-0.11	-15.30
TARGET BHL 1322'FSL, 1222'FWL									
5,998.0	1.50	343.50	5,813.1	981.0	-860.7	1,305.0	0.43	-0.06	-16.20

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Dechant D30-25D
Project:	SEC.30-T3N-R64W	TVD Reference:	WELL @ 4814.0ft (Original Well Elev)
Site:	Dechant D30-24D Pad Sec.30-T3N-R64W	MD Reference:	WELL @ 4814.0ft (Original Well Elev)
Well:	Dechant D30-25D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

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)	
6,091.0	1.40	333.20	5,906.0	983.2	-861.5	1,307.2	0.30	-0.11	-11.08	
6,185.0	1.30	328.30	6,000.0	985.1	-862.6	1,309.4	0.16	-0.11	-5.21	
6,311.0	1.80	309.80	6,126.0	987.6	-864.9	1,312.8	0.56	0.40	-14.68	
6,436.0	1.50	305.60	6,250.9	989.8	-867.7	1,316.3	0.26	-0.24	-3.36	
6,561.0	1.50	251.10	6,375.9	990.2	-870.6	1,318.5	1.10	0.00	-43.60	
6,687.0	1.50	167.30	6,501.8	988.1	-871.8	1,317.7	1.59	0.00	-66.51	
6,812.0	1.10	139.50	6,626.8	985.6	-870.7	1,315.1	0.59	-0.32	-22.24	
6,937.0	1.40	144.80	6,751.8	983.4	-869.0	1,312.4	0.26	0.24	4.24	
6,945.5	1.41	144.84	6,760.3	983.3	-868.9	1,312.1	0.16	0.16	0.45	
TARGET CIRCLE 1322'FSL, 1222'FWL - LEGAL BOX 800' X 800' 1324'FSL, 1223'FWL										
7,062.0	1.60	145.30	6,876.7	980.7	-867.1	1,309.1	0.16	0.16	0.40	
7,188.0	1.90	146.50	7,002.7	977.6	-865.0	1,305.3	0.24	0.24	0.95	
7,313.0	1.90	147.20	7,127.6	974.1	-862.7	1,301.2	0.02	0.00	0.56	
7,397.0	1.90	158.30	7,211.6	971.6	-861.4	1,298.5	0.44	0.00	13.21	
7,443.0	1.90	158.30	7,257.5	970.2	-860.9	1,297.1	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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