

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1525.6	22.51	350.64	1496.9	215.4	-35.5	2.00	350.64	218.3	
4	5321.1	22.51	350.64	5003.1	1649.3	-271.9	0.00	0.00	1671.5	
5	6446.7	0.00	0.00	6100.0	1864.7	-307.4	2.00	180.00	1889.8	TARGET BHL 75°FNL, 2490°FEL
6	7798.7	0.00	0.00	7452.0	1864.7	-307.4	0.00	0.00	1889.8	



Directional

NOBLE ENERGY INC WELD COUNTY CO

SEC.25-T3N-R67W

BEDDO P25-22D Pad Sec.25-T3N-R67W

BEDDO P25-28D

Wellbore #1

Plan: Noble BEDDO P25-25D Plan #2 (10-13-09)

Standard Planning Report

13 October, 2009



Database:	EDM den0-adp01 Server Data	Local Co-ordinate Reference:	Well BEDDO P25-28D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4817.0ft (Original Well Elev)
Project:	SEC.25-T3N-R67W	MD Reference:	WELL @ 4817.0ft (Original Well Elev)
Site:	BEDDO P25-22D Pad Sec.25-T3N-R67W	North Reference:	True
Well:	BEDDO P25-28D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble BEDDO P25-25D Plan #2 (10-13-09)		

Project	SEC.25-T3N-R67W, 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	BEDDO P25-22D Pad Sec.25-T3N-R67W				
Site Position:		Northing:	1,315,639.93 ft	Latitude:	40° 11' 52.548 N
From:	Lat/Long	Easting:	3,185,092.08 ft	Longitude:	104° 50' 14.604 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.43 °

Well	BEDDO P25-28D					
Well Position	+N/-S	-51.0 ft	Northing:	1,315,587.72 ft	Latitude:	40° 11' 52.044 N
	+E/-W	-162.0 ft	Easting:	3,184,930.45 ft	Longitude:	104° 50' 16.692 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,804.0 ft	

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/14/2009	9.08	66.94	53,221

Design	Noble BEDDO P25-25D Plan #2 (10-13-09)				
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Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	350.64	

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,525.6	22.51	350.64	1,496.9	215.4	-35.5	2.00	2.00	0.00	350.64	
5,321.1	22.51	350.64	5,003.1	1,649.3	-271.9	0.00	0.00	0.00	0.00	
6,446.7	0.00	0.00	6,100.0	1,864.7	-307.4	2.00	-2.00	0.00	180.00	TARGET BHL 75'FI
7,798.7	0.00	0.00	7,452.0	1,864.7	-307.4	0.00	0.00	0.00	0.00	

Database:	EDM den0-adp01 Server Data	Local Co-ordinate Reference:	Well BEDDO P25-28D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4817.0ft (Original Well Elev)
Project:	SEC.25-T3N-R67W	MD Reference:	WELL @ 4817.0ft (Original Well Elev)
Site:	BEDDO P25-22D Pad Sec.25-T3N-R67W	North Reference:	True
Well:	BEDDO P25-28D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble BEDDO P25-25D Plan #2 (10-13-09)		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
440.0	0.80	350.64	440.0	0.3	0.0	0.3	2.00	2.00	0.00
480.0	1.60	350.64	480.0	1.1	-0.2	1.1	2.00	2.00	0.00
520.0	2.40	350.64	520.0	2.5	-0.4	2.5	2.00	2.00	0.00
560.0	3.20	350.64	559.9	4.4	-0.7	4.5	2.00	2.00	0.00
600.0	4.00	350.64	599.8	6.9	-1.1	7.0	2.00	2.00	0.00
640.0	4.80	350.64	639.7	9.9	-1.6	10.0	2.00	2.00	0.00
680.0	5.60	350.64	679.6	13.5	-2.2	13.7	2.00	2.00	0.00
720.0	6.40	350.64	719.3	17.6	-2.9	17.9	2.00	2.00	0.00
760.0	7.20	350.64	759.1	22.3	-3.7	22.6	2.00	2.00	0.00
800.0	8.00	350.64	798.7	27.5	-4.5	27.9	2.00	2.00	0.00
840.0	8.80	350.64	838.3	33.3	-5.5	33.7	2.00	2.00	0.00
880.0	9.60	350.64	877.8	39.6	-6.5	40.1	2.00	2.00	0.00
920.0	10.40	350.64	917.1	46.4	-7.7	47.1	2.00	2.00	0.00
960.0	11.20	350.64	956.4	53.8	-8.9	54.6	2.00	2.00	0.00
1,000.0	12.00	350.64	995.6	61.8	-10.2	62.6	2.00	2.00	0.00
1,040.0	12.80	350.64	1,034.7	70.2	-11.6	71.2	2.00	2.00	0.00
1,080.0	13.60	350.64	1,073.6	79.3	-13.1	80.3	2.00	2.00	0.00
1,120.0	14.40	350.64	1,112.4	88.8	-14.6	90.0	2.00	2.00	0.00
1,160.0	15.20	350.64	1,151.1	98.9	-16.3	100.2	2.00	2.00	0.00
1,200.0	16.00	350.64	1,189.6	109.5	-18.0	111.0	2.00	2.00	0.00
1,240.0	16.80	350.64	1,228.0	120.6	-19.9	122.3	2.00	2.00	0.00
1,280.0	17.60	350.64	1,266.2	132.3	-21.8	134.1	2.00	2.00	0.00
1,320.0	18.40	350.64	1,304.3	144.5	-23.8	146.5	2.00	2.00	0.00
1,360.0	19.20	350.64	1,342.1	157.2	-25.9	159.3	2.00	2.00	0.00
1,400.0	20.00	350.64	1,379.8	170.5	-28.1	172.8	2.00	2.00	0.00
1,440.0	20.80	350.64	1,417.3	184.2	-30.4	186.7	2.00	2.00	0.00
1,480.0	21.60	350.64	1,454.6	198.5	-32.7	201.2	2.00	2.00	0.00
1,520.0	22.40	350.64	1,491.7	213.3	-35.2	216.2	2.00	2.00	0.00
1,525.6	22.51	350.64	1,496.9	215.4	-35.5	218.3	2.00	2.00	0.00
1,560.0	22.51	350.64	1,528.6	228.4	-37.6	231.5	0.00	0.00	0.00
1,600.0	22.51	350.64	1,565.6	243.5	-40.1	246.8	0.00	0.00	0.00
1,640.0	22.51	350.64	1,602.5	258.6	-42.6	262.1	0.00	0.00	0.00
1,680.0	22.51	350.64	1,639.5	273.7	-45.1	277.4	0.00	0.00	0.00
1,720.0	22.51	350.64	1,676.4	288.8	-47.6	292.7	0.00	0.00	0.00
1,760.0	22.51	350.64	1,713.4	303.9	-50.1	308.0	0.00	0.00	0.00
1,800.0	22.51	350.64	1,750.4	319.1	-52.6	323.4	0.00	0.00	0.00
1,840.0	22.51	350.64	1,787.3	334.2	-55.1	338.7	0.00	0.00	0.00
1,880.0	22.51	350.64	1,824.3	349.3	-57.6	354.0	0.00	0.00	0.00
1,920.0	22.51	350.64	1,861.2	364.4	-60.1	369.3	0.00	0.00	0.00
1,960.0	22.51	350.64	1,898.2	379.5	-62.6	384.6	0.00	0.00	0.00
2,000.0	22.51	350.64	1,935.1	394.6	-65.0	399.9	0.00	0.00	0.00
2,040.0	22.51	350.64	1,972.1	409.7	-67.5	415.3	0.00	0.00	0.00
2,080.0	22.51	350.64	2,009.0	424.8	-70.0	430.6	0.00	0.00	0.00

Database:	EDM den0-adp01 Server Data	Local Co-ordinate Reference:	Well BEDDO P25-28D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4817.0ft (Original Well Elev)
Project:	SEC.25-T3N-R67W	MD Reference:	WELL @ 4817.0ft (Original Well Elev)
Site:	BEDDO P25-22D Pad Sec.25-T3N-R67W	North Reference:	True
Well:	BEDDO P25-28D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble BEDDO P25-25D Plan #2 (10-13-09)		

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)
2,120.0	22.51	350.64	2,046.0	439.9	-72.5	445.9	0.00	0.00	0.00
2,160.0	22.51	350.64	2,082.9	455.1	-75.0	461.2	0.00	0.00	0.00
2,200.0	22.51	350.64	2,119.9	470.2	-77.5	476.5	0.00	0.00	0.00
2,240.0	22.51	350.64	2,156.8	485.3	-80.0	491.8	0.00	0.00	0.00
2,280.0	22.51	350.64	2,193.8	500.4	-82.5	507.1	0.00	0.00	0.00
2,320.0	22.51	350.64	2,230.7	515.5	-85.0	522.5	0.00	0.00	0.00
2,360.0	22.51	350.64	2,267.7	530.6	-87.5	537.8	0.00	0.00	0.00
2,400.0	22.51	350.64	2,304.6	545.7	-90.0	553.1	0.00	0.00	0.00
2,440.0	22.51	350.64	2,341.6	560.8	-92.4	568.4	0.00	0.00	0.00
2,480.0	22.51	350.64	2,378.5	575.9	-94.9	583.7	0.00	0.00	0.00
2,520.0	22.51	350.64	2,415.5	591.1	-97.4	599.0	0.00	0.00	0.00
2,560.0	22.51	350.64	2,452.4	606.2	-99.9	614.4	0.00	0.00	0.00
2,600.0	22.51	350.64	2,489.4	621.3	-102.4	629.7	0.00	0.00	0.00
2,640.0	22.51	350.64	2,526.3	636.4	-104.9	645.0	0.00	0.00	0.00
2,680.0	22.51	350.64	2,563.3	651.5	-107.4	660.3	0.00	0.00	0.00
2,720.0	22.51	350.64	2,600.2	666.6	-109.9	675.6	0.00	0.00	0.00
2,760.0	22.51	350.64	2,637.2	681.7	-112.4	690.9	0.00	0.00	0.00
2,800.0	22.51	350.64	2,674.1	696.8	-114.9	706.2	0.00	0.00	0.00
2,840.0	22.51	350.64	2,711.1	712.0	-117.4	721.6	0.00	0.00	0.00
2,880.0	22.51	350.64	2,748.1	727.1	-119.8	736.9	0.00	0.00	0.00
2,920.0	22.51	350.64	2,785.0	742.2	-122.3	752.2	0.00	0.00	0.00
2,960.0	22.51	350.64	2,822.0	757.3	-124.8	767.5	0.00	0.00	0.00
3,000.0	22.51	350.64	2,858.9	772.4	-127.3	782.8	0.00	0.00	0.00
3,040.0	22.51	350.64	2,895.9	787.5	-129.8	798.1	0.00	0.00	0.00
3,080.0	22.51	350.64	2,932.8	802.6	-132.3	813.5	0.00	0.00	0.00
3,120.0	22.51	350.64	2,969.8	817.7	-134.8	828.8	0.00	0.00	0.00
3,160.0	22.51	350.64	3,006.7	832.8	-137.3	844.1	0.00	0.00	0.00
3,200.0	22.51	350.64	3,043.7	848.0	-139.8	859.4	0.00	0.00	0.00
3,240.0	22.51	350.64	3,080.6	863.1	-142.3	874.7	0.00	0.00	0.00
3,280.0	22.51	350.64	3,117.6	878.2	-144.8	890.0	0.00	0.00	0.00
3,320.0	22.51	350.64	3,154.5	893.3	-147.2	905.3	0.00	0.00	0.00
3,360.0	22.51	350.64	3,191.5	908.4	-149.7	920.7	0.00	0.00	0.00
3,400.0	22.51	350.64	3,228.4	923.5	-152.2	936.0	0.00	0.00	0.00
3,440.0	22.51	350.64	3,265.4	938.6	-154.7	951.3	0.00	0.00	0.00
3,480.0	22.51	350.64	3,302.3	953.7	-157.2	966.6	0.00	0.00	0.00
3,520.0	22.51	350.64	3,339.3	968.8	-159.7	981.9	0.00	0.00	0.00
3,560.0	22.51	350.64	3,376.2	984.0	-162.2	997.2	0.00	0.00	0.00
3,600.0	22.51	350.64	3,413.2	999.1	-164.7	1,012.6	0.00	0.00	0.00
3,640.0	22.51	350.64	3,450.1	1,014.2	-167.2	1,027.9	0.00	0.00	0.00
3,680.0	22.51	350.64	3,487.1	1,029.3	-169.7	1,043.2	0.00	0.00	0.00
3,720.0	22.51	350.64	3,524.0	1,044.4	-172.2	1,058.5	0.00	0.00	0.00
3,760.0	22.51	350.64	3,561.0	1,059.5	-174.6	1,073.8	0.00	0.00	0.00
3,800.0	22.51	350.64	3,597.9	1,074.6	-177.1	1,089.1	0.00	0.00	0.00
3,840.0	22.51	350.64	3,634.9	1,089.7	-179.6	1,104.4	0.00	0.00	0.00
3,880.0	22.51	350.64	3,671.8	1,104.8	-182.1	1,119.8	0.00	0.00	0.00
3,920.0	22.51	350.64	3,708.8	1,120.0	-184.6	1,135.1	0.00	0.00	0.00
3,960.0	22.51	350.64	3,745.8	1,135.1	-187.1	1,150.4	0.00	0.00	0.00
4,000.0	22.51	350.64	3,782.7	1,150.2	-189.6	1,165.7	0.00	0.00	0.00
4,040.0	22.51	350.64	3,819.7	1,165.3	-192.1	1,181.0	0.00	0.00	0.00
4,080.0	22.51	350.64	3,856.6	1,180.4	-194.6	1,196.3	0.00	0.00	0.00
4,120.0	22.51	350.64	3,893.6	1,195.5	-197.1	1,211.6	0.00	0.00	0.00
4,160.0	22.51	350.64	3,930.5	1,210.6	-199.6	1,227.0	0.00	0.00	0.00
4,200.0	22.51	350.64	3,967.5	1,225.7	-202.0	1,242.3	0.00	0.00	0.00
4,240.0	22.51	350.64	4,004.4	1,240.9	-204.5	1,257.6	0.00	0.00	0.00

Database: EDM den0-adp01 Server Data
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.25-T3N-R67W
Site: BEDDO P25-22D Pad Sec.25-T3N-R67W
Well: BEDDO P25-28D
Wellbore: Wellbore #1
Design: Noble BEDDO P25-25D Plan #2 (10-13-09)

Local Co-ordinate Reference: Well BEDDO P25-28D
TVD Reference: WELL @ 4817.0ft (Original Well Elev)
MD Reference: WELL @ 4817.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
4,280.0	22.51	350.64	4,041.4	1,256.0	-207.0	1,272.9	0.00	0.00	0.00
4,320.0	22.51	350.64	4,078.3	1,271.1	-209.5	1,288.2	0.00	0.00	0.00
4,360.0	22.51	350.64	4,115.3	1,286.2	-212.0	1,303.5	0.00	0.00	0.00
4,400.0	22.51	350.64	4,152.2	1,301.3	-214.5	1,318.9	0.00	0.00	0.00
4,440.0	22.51	350.64	4,189.2	1,316.4	-217.0	1,334.2	0.00	0.00	0.00
4,480.0	22.51	350.64	4,226.1	1,331.5	-219.5	1,349.5	0.00	0.00	0.00
4,520.0	22.51	350.64	4,263.1	1,346.6	-222.0	1,364.8	0.00	0.00	0.00
4,560.0	22.51	350.64	4,300.0	1,361.7	-224.5	1,380.1	0.00	0.00	0.00
4,600.0	22.51	350.64	4,337.0	1,376.9	-226.9	1,395.4	0.00	0.00	0.00
4,640.0	22.51	350.64	4,373.9	1,392.0	-229.4	1,410.7	0.00	0.00	0.00
4,680.0	22.51	350.64	4,410.9	1,407.1	-231.9	1,426.1	0.00	0.00	0.00
4,720.0	22.51	350.64	4,447.8	1,422.2	-234.4	1,441.4	0.00	0.00	0.00
4,760.0	22.51	350.64	4,484.8	1,437.3	-236.9	1,456.7	0.00	0.00	0.00
4,800.0	22.51	350.64	4,521.7	1,452.4	-239.4	1,472.0	0.00	0.00	0.00
4,840.0	22.51	350.64	4,558.7	1,467.5	-241.9	1,487.3	0.00	0.00	0.00
4,880.0	22.51	350.64	4,595.6	1,482.6	-244.4	1,502.6	0.00	0.00	0.00
4,920.0	22.51	350.64	4,632.6	1,497.7	-246.9	1,518.0	0.00	0.00	0.00
4,960.0	22.51	350.64	4,669.6	1,512.9	-249.4	1,533.3	0.00	0.00	0.00
5,000.0	22.51	350.64	4,706.5	1,528.0	-251.9	1,548.6	0.00	0.00	0.00
5,040.0	22.51	350.64	4,743.5	1,543.1	-254.3	1,563.9	0.00	0.00	0.00
5,080.0	22.51	350.64	4,780.4	1,558.2	-256.8	1,579.2	0.00	0.00	0.00
5,120.0	22.51	350.64	4,817.4	1,573.3	-259.3	1,594.5	0.00	0.00	0.00
5,160.0	22.51	350.64	4,854.3	1,588.4	-261.8	1,609.8	0.00	0.00	0.00
5,200.0	22.51	350.64	4,891.3	1,603.5	-264.3	1,625.2	0.00	0.00	0.00
5,240.0	22.51	350.64	4,928.2	1,618.6	-266.8	1,640.5	0.00	0.00	0.00
5,280.0	22.51	350.64	4,965.2	1,633.7	-269.3	1,655.8	0.00	0.00	0.00
5,320.0	22.51	350.64	5,002.1	1,648.9	-271.8	1,671.1	0.00	0.00	0.00
5,321.1	22.51	350.64	5,003.1	1,649.3	-271.9	1,671.5	0.00	0.00	0.00
5,360.0	21.73	350.64	5,039.2	1,663.7	-274.2	1,686.2	2.00	-2.00	0.00
5,400.0	20.93	350.64	5,076.4	1,678.1	-276.6	1,700.7	2.00	-2.00	0.00
5,440.0	20.13	350.64	5,113.9	1,691.9	-278.9	1,714.8	2.00	-2.00	0.00
5,480.0	19.33	350.64	5,151.5	1,705.3	-281.1	1,728.3	2.00	-2.00	0.00
5,520.0	18.53	350.64	5,189.4	1,718.1	-283.2	1,741.2	2.00	-2.00	0.00
5,560.0	17.73	350.64	5,227.4	1,730.3	-285.2	1,753.7	2.00	-2.00	0.00
5,600.0	16.93	350.64	5,265.6	1,742.1	-287.2	1,765.6	2.00	-2.00	0.00
5,640.0	16.13	350.64	5,303.9	1,753.3	-289.0	1,777.0	2.00	-2.00	0.00
5,680.0	15.33	350.64	5,342.4	1,764.0	-290.8	1,787.8	2.00	-2.00	0.00
5,720.0	14.53	350.64	5,381.1	1,774.2	-292.4	1,798.2	2.00	-2.00	0.00
5,760.0	13.73	350.64	5,419.9	1,783.8	-294.0	1,807.9	2.00	-2.00	0.00
5,800.0	12.93	350.64	5,458.8	1,793.0	-295.5	1,817.1	2.00	-2.00	0.00
5,840.0	12.13	350.64	5,497.8	1,801.5	-296.9	1,825.8	2.00	-2.00	0.00
5,880.0	11.33	350.64	5,537.0	1,809.5	-298.3	1,834.0	2.00	-2.00	0.00
5,920.0	10.53	350.64	5,576.3	1,817.0	-299.5	1,841.5	2.00	-2.00	0.00
5,960.0	9.73	350.64	5,615.6	1,824.0	-300.6	1,848.6	2.00	-2.00	0.00
6,000.0	8.93	350.64	5,655.1	1,830.4	-301.7	1,855.1	2.00	-2.00	0.00
6,040.0	8.13	350.64	5,694.7	1,836.2	-302.7	1,861.0	2.00	-2.00	0.00
6,080.0	7.33	350.64	5,734.3	1,841.5	-303.5	1,866.4	2.00	-2.00	0.00
6,120.0	6.53	350.64	5,774.0	1,846.3	-304.3	1,871.2	2.00	-2.00	0.00
6,160.0	5.73	350.64	5,813.8	1,850.5	-305.0	1,875.5	2.00	-2.00	0.00
6,200.0	4.93	350.64	5,853.6	1,854.2	-305.6	1,879.2	2.00	-2.00	0.00
6,240.0	4.13	350.64	5,893.5	1,857.3	-306.1	1,882.4	2.00	-2.00	0.00
6,280.0	3.33	350.64	5,933.4	1,859.9	-306.6	1,885.0	2.00	-2.00	0.00
6,320.0	2.53	350.64	5,973.3	1,861.9	-306.9	1,887.0	2.00	-2.00	0.00
6,360.0	1.73	350.64	6,013.3	1,863.4	-307.1	1,888.5	2.00	-2.00	0.00

Database: EDM den0-adp01 Server Data
 Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.25-T3N-R67W
 Site: BEDDO P25-22D Pad Sec.25-T3N-R67W
 Well: BEDDO P25-28D
 Wellbore: Wellbore #1
 Design: Noble BEDDO P25-25D Plan #2 (10-13-09)

Local Co-ordinate Reference: Well BEDDO P25-28D
 TVD Reference: WELL @ 4817.0ft (Original Well Elev)
 MD Reference: WELL @ 4817.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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)
6,400.0	0.93	350.64	6,053.3	1,864.3	-307.3	1,889.4	2.00	-2.00	0.00
6,440.0	0.13	350.64	6,093.3	1,864.7	-307.4	1,889.8	2.00	-2.00	0.00
6,446.7	0.00	0.00	6,100.0	1,864.7	-307.4	1,889.8	2.00	-2.00	0.00
TARGET BHL 75°FNL, 2490'FEL									
6,480.0	0.00	0.00	6,133.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,520.0	0.00	0.00	6,173.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,560.0	0.00	0.00	6,213.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,253.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,640.0	0.00	0.00	6,293.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,680.0	0.00	0.00	6,333.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,720.0	0.00	0.00	6,373.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,760.0	0.00	0.00	6,413.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,453.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,840.0	0.00	0.00	6,493.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,880.0	0.00	0.00	6,533.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,920.0	0.00	0.00	6,573.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
6,960.0	0.00	0.00	6,613.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,653.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,040.0	0.00	0.00	6,693.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,080.0	0.00	0.00	6,733.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,120.0	0.00	0.00	6,773.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,160.0	0.00	0.00	6,813.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,200.0	0.00	0.00	6,853.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,240.0	0.00	0.00	6,893.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,280.0	0.00	0.00	6,933.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,320.0	0.00	0.00	6,973.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,358.7	0.00	0.00	7,012.0	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
NIOBRARA									
7,360.0	0.00	0.00	7,013.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,053.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,440.0	0.00	0.00	7,093.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,480.0	0.00	0.00	7,133.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,520.0	0.00	0.00	7,173.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,560.0	0.00	0.00	7,213.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,253.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,640.0	0.00	0.00	7,293.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,648.7	0.00	0.00	7,302.0	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
CODELL									
7,680.0	0.00	0.00	7,333.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,720.0	0.00	0.00	7,373.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,760.0	0.00	0.00	7,413.3	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
7,798.7	0.00	0.00	7,452.0	1,864.7	-307.4	1,889.8	0.00	0.00	0.00
HARDLINE 75°N, 107°W OF BHL									

Database:	EDM den0-adp01 Server Data	Local Co-ordinate Reference:	Well BEDDO P25-28D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4817.0ft (Original Well Elev)
Project:	SEC.25-T3N-R67W	MD Reference:	WELL @ 4817.0ft (Original Well Elev)
Site:	BEDDO P25-22D Pad Sec.25-T3N-R67W	North Reference:	True
Well:	BEDDO P25-28D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble BEDDO P25-25D Plan #2 (10-13-09)		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
HARDLINE 75'N, 107	0.00	0.00	7,452.0	1,939.7	-414.4	1,317,524.18	3,184,501.60	40° 12' 11.212 N	104° 50' 22.033 W
- plan misses target center by 130.7ft at 7798.7ft MD (7452.0 TVD, 1864.7 N, -307.4 E)									
- Polygon									
Point 1			7,452.0	0.0	0.0	1,317,524.18	3,184,501.60		
Point 2			7,452.0	0.0	200.0	1,317,525.68	3,184,701.58		
Point 3			7,452.0	0.0	0.0	1,317,524.18	3,184,501.60		
Point 4			7,452.0	-200.0	0.0	1,317,324.20	3,184,503.09		
TARGET BHL 75'FNL	0.00	0.00	6,100.0	1,864.7	-307.4	1,317,449.96	3,184,609.19	40° 12' 10.470 N	104° 50' 20.653 W
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,358.7	7,012.0	NIOBRARA		0.00		
7,648.7	7,302.0	CODELL		0.00		