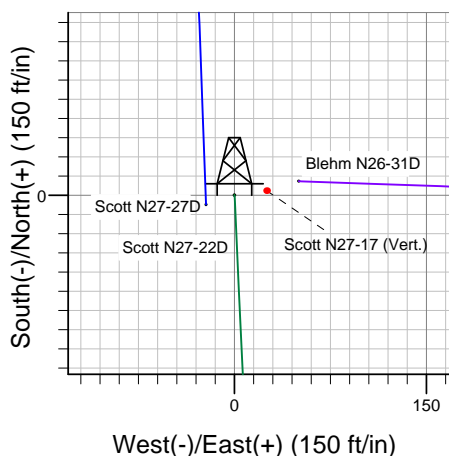
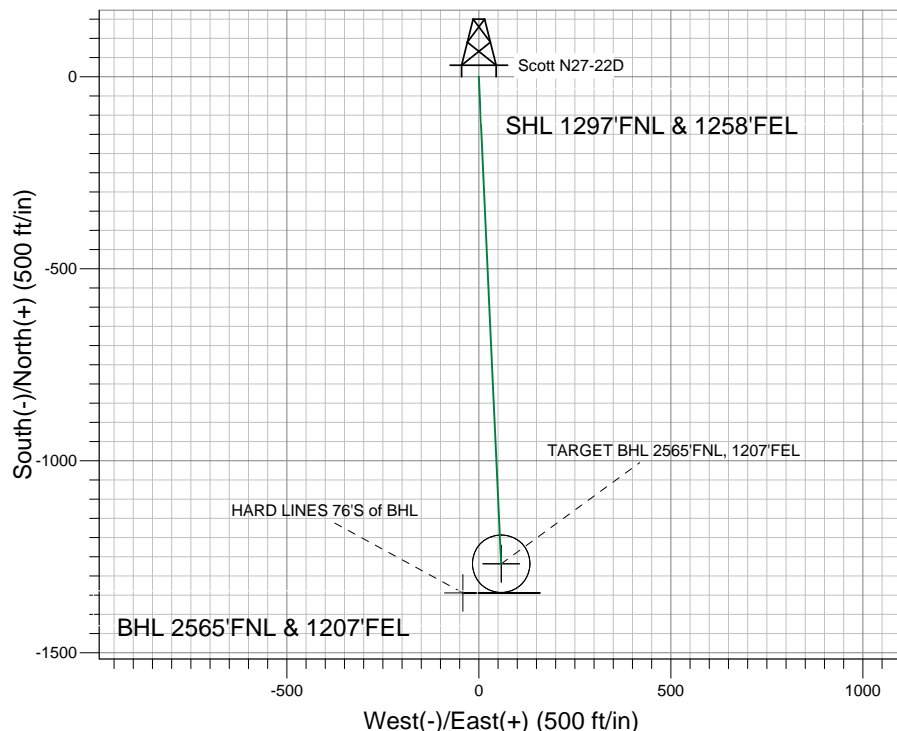
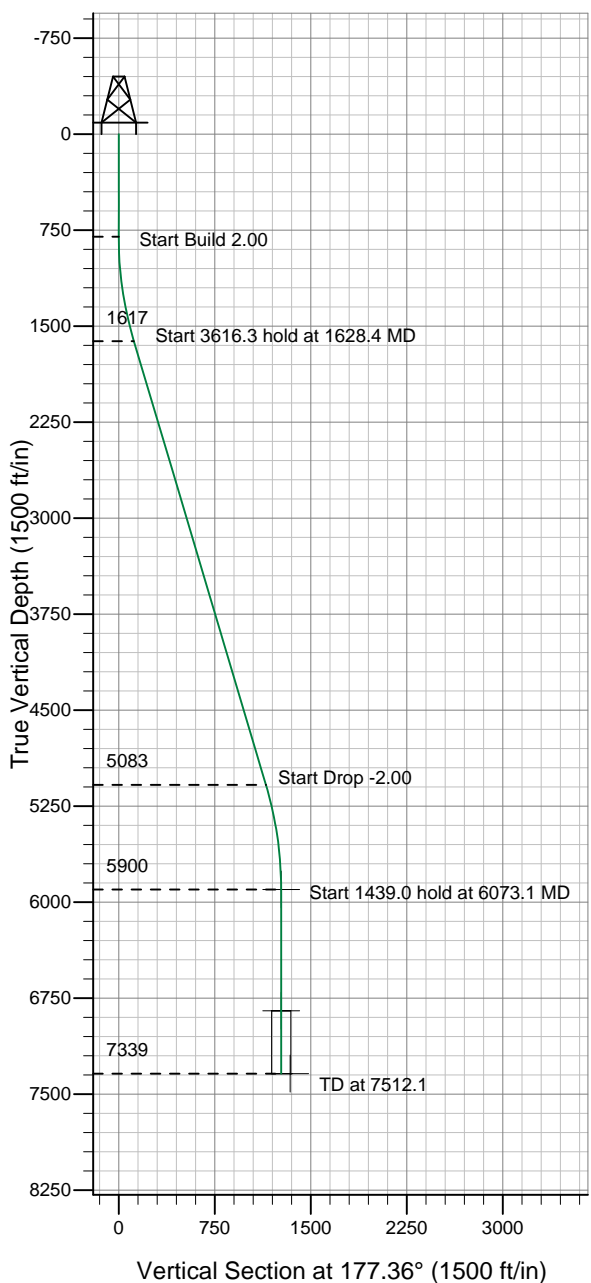


Well Name: Scott N27-22D

Surface Location: Blehm N26-31D Pad Sec.27-T5N-R67W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4966.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1379838.48 3174322.79 40° 22' 27.732 N 104° 52' 27.552 W
 Original Well Elev WELL @ 4979.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Blehm N26-31D Pad Sec.27-T5N-R67W
 Scott N27-22D
 Noble Scott N27-22D Plan #1 (10-19-10)
 11:00, October 22 2010



Azimuths to True North
 Magnetic North: 9.01°

Magnetic Field
 Strength: 53174.0snT
 Dip Angle: 67.03°
 Date: 10/19/2010
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 2565'FNL, 1207'FEL	5900.0	-1267.8	58.5	40° 22' 15.204 N	104° 52' 26.796 W	Point
TARGET CIRCLE 2565'FNL, 1207'FEL	6849.0	-1267.8	58.5	40° 22' 15.204 N	104° 52' 26.796 W	Circle (Radius: 75.0)
HARD LINES 76'S of BHL	7339.0	-1343.8	-41.5	40° 22' 14.453 N	104° 52' 28.088 W	Polygon

SECTION DETAILS

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	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1628.4	16.57	177.36	1616.9	-118.8	5.5	2.00	177.36	119.0	
4	5244.7	16.57	177.36	5083.1	-1149.0	53.0	0.00	0.00	1150.2	
5	6073.1	0.00	0.00	5900.0	-1267.8	58.5	2.00	180.00	1269.1	TARGET BHL 2565'FNL, 1207'FEL
6	7512.1	0.00	0.00	7339.0	-1267.8	58.5	0.00	0.00	1269.1	



Directional

NOBLE ENERGY INC WELD COUNTY CO

SEC.27-T5N-R67W

Blehm N26-31D Pad Sec.27-T5N-R67W

Scott N27-22D

Wellbore #1

Plan: Noble Scott N27-22D Plan #1 (10-19-10)

Standard Planning Report

22 October, 2010



Database:	Landmark	Local Co-ordinate Reference:	Well Scott N27-22D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4979.0ft (Original Well Elev)
Project:	SEC.27-T5N-R67W	MD Reference:	WELL @ 4979.0ft (Original Well Elev)
Site:	Blehm N26-31D Pad Sec.27-T5N-R67W	North Reference:	True
Well:	Scott N27-22D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Scott N27-22D Plan #1 (10-19-10)		

Project	SEC.27-T5N-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						Blehm N26-31D Pad Sec.27-T5N-R67W											
Site Position:						Northing:			1,379,849.77 ft			Latitude:			40° 22' 27.840 N		
From:			Lat/Long			Easting:			3,174,372.87 ft			Longitude:			104° 52' 26.904 W		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.40 °		

Well	Scott N27-22D					
Well Position	+N/-S	-10.9 ft	Northing:	1,379,838.48 ft	Latitude:	40° 22' 27.732 N
	+E/-W	-50.2 ft	Easting:	3,174,322.79 ft	Longitude:	104° 52' 27.552 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,966.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/19/2010	9.01	67.03	53,174

Design	Noble Scott N27-22D Plan #1 (10-19-10)			
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	177.36

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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,628.4	16.57	177.36	1,616.9	-118.8	5.5	2.00	2.00	0.00	177.36	
5,244.7	16.57	177.36	5,083.1	-1,149.0	53.0	0.00	0.00	0.00	0.00	
6,073.1	0.00	0.00	5,900.0	-1,267.8	58.5	2.00	-2.00	0.00	180.00	TARGET BHL 2565
7,512.1	0.00	0.00	7,339.0	-1,267.8	58.5	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Scott N27-22D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4979.0ft (Original Well Elev)
Project:	SEC.27-T5N-R67W	MD Reference:	WELL @ 4979.0ft (Original Well Elev)
Site:	Blehm N26-31D Pad Sec.27-T5N-R67W	North Reference:	True
Well:	Scott N27-22D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Scott N27-22D Plan #1 (10-19-10)		

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	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
840.0	0.80	177.36	840.0	-0.3	0.0	0.3	2.00	2.00	0.00
880.0	1.60	177.36	880.0	-1.1	0.1	1.1	2.00	2.00	0.00
920.0	2.40	177.36	920.0	-2.5	0.1	2.5	2.00	2.00	0.00
960.0	3.20	177.36	959.9	-4.5	0.2	4.5	2.00	2.00	0.00
1,000.0	4.00	177.36	999.8	-7.0	0.3	7.0	2.00	2.00	0.00
1,040.0	4.80	177.36	1,039.7	-10.0	0.5	10.0	2.00	2.00	0.00
1,080.0	5.60	177.36	1,079.6	-13.7	0.6	13.7	2.00	2.00	0.00
1,120.0	6.40	177.36	1,119.3	-17.8	0.8	17.9	2.00	2.00	0.00
1,160.0	7.20	177.36	1,159.1	-22.6	1.0	22.6	2.00	2.00	0.00
1,200.0	8.00	177.36	1,198.7	-27.9	1.3	27.9	2.00	2.00	0.00
1,240.0	8.80	177.36	1,238.3	-33.7	1.6	33.7	2.00	2.00	0.00
1,280.0	9.60	177.36	1,277.8	-40.1	1.8	40.1	2.00	2.00	0.00
1,320.0	10.40	177.36	1,317.1	-47.0	2.2	47.1	2.00	2.00	0.00
1,360.0	11.20	177.36	1,356.4	-54.5	2.5	54.6	2.00	2.00	0.00
1,400.0	12.00	177.36	1,395.6	-62.5	2.9	62.6	2.00	2.00	0.00
1,440.0	12.80	177.36	1,434.7	-71.1	3.3	71.2	2.00	2.00	0.00
1,480.0	13.60	177.36	1,473.6	-80.2	3.7	80.3	2.00	2.00	0.00
1,520.0	14.40	177.36	1,512.4	-89.9	4.1	90.0	2.00	2.00	0.00
1,560.0	15.20	177.36	1,551.1	-100.1	4.6	100.2	2.00	2.00	0.00
1,600.0	16.00	177.36	1,589.6	-110.9	5.1	111.0	2.00	2.00	0.00
1,628.4	16.57	177.36	1,616.9	-118.8	5.5	119.0	2.00	2.00	0.00
1,640.0	16.57	177.36	1,628.0	-122.1	5.6	122.2	0.00	0.00	0.00
1,680.0	16.57	177.36	1,666.4	-133.5	6.2	133.7	0.00	0.00	0.00
1,720.0	16.57	177.36	1,704.7	-144.9	6.7	145.1	0.00	0.00	0.00
1,760.0	16.57	177.36	1,743.0	-156.3	7.2	156.5	0.00	0.00	0.00
1,800.0	16.57	177.36	1,781.4	-167.7	7.7	167.9	0.00	0.00	0.00
1,840.0	16.57	177.36	1,819.7	-179.1	8.3	179.3	0.00	0.00	0.00
1,880.0	16.57	177.36	1,858.1	-190.5	8.8	190.7	0.00	0.00	0.00
1,920.0	16.57	177.36	1,896.4	-201.9	9.3	202.1	0.00	0.00	0.00
1,960.0	16.57	177.36	1,934.7	-213.3	9.8	213.5	0.00	0.00	0.00
2,000.0	16.57	177.36	1,973.1	-224.7	10.4	224.9	0.00	0.00	0.00
2,040.0	16.57	177.36	2,011.4	-236.1	10.9	236.3	0.00	0.00	0.00
2,080.0	16.57	177.36	2,049.8	-247.5	11.4	247.7	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Scott N27-22D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4979.0ft (Original Well Elev)
Project:	SEC.27-T5N-R67W	MD Reference:	WELL @ 4979.0ft (Original Well Elev)
Site:	Blehm N26-31D Pad Sec.27-T5N-R67W	North Reference:	True
Well:	Scott N27-22D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Scott N27-22D Plan #1 (10-19-10)		

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	16.57	177.36	2,088.1	-258.9	11.9	259.1	0.00	0.00	0.00
2,160.0	16.57	177.36	2,126.4	-270.2	12.5	270.5	0.00	0.00	0.00
2,200.0	16.57	177.36	2,164.8	-281.6	13.0	281.9	0.00	0.00	0.00
2,240.0	16.57	177.36	2,203.1	-293.0	13.5	293.3	0.00	0.00	0.00
2,280.0	16.57	177.36	2,241.4	-304.4	14.1	304.8	0.00	0.00	0.00
2,320.0	16.57	177.36	2,279.8	-315.8	14.6	316.2	0.00	0.00	0.00
2,360.0	16.57	177.36	2,318.1	-327.2	15.1	327.6	0.00	0.00	0.00
2,400.0	16.57	177.36	2,356.5	-338.6	15.6	339.0	0.00	0.00	0.00
2,440.0	16.57	177.36	2,394.8	-350.0	16.2	350.4	0.00	0.00	0.00
2,480.0	16.57	177.36	2,433.1	-361.4	16.7	361.8	0.00	0.00	0.00
2,520.0	16.57	177.36	2,471.5	-372.8	17.2	373.2	0.00	0.00	0.00
2,560.0	16.57	177.36	2,509.8	-384.2	17.7	384.6	0.00	0.00	0.00
2,600.0	16.57	177.36	2,548.2	-395.6	18.3	396.0	0.00	0.00	0.00
2,640.0	16.57	177.36	2,586.5	-407.0	18.8	407.4	0.00	0.00	0.00
2,680.0	16.57	177.36	2,624.8	-418.4	19.3	418.8	0.00	0.00	0.00
2,720.0	16.57	177.36	2,663.2	-429.8	19.8	430.2	0.00	0.00	0.00
2,760.0	16.57	177.36	2,701.5	-441.2	20.4	441.6	0.00	0.00	0.00
2,800.0	16.57	177.36	2,739.9	-452.6	20.9	453.0	0.00	0.00	0.00
2,840.0	16.57	177.36	2,778.2	-464.0	21.4	464.4	0.00	0.00	0.00
2,880.0	16.57	177.36	2,816.5	-475.3	21.9	475.9	0.00	0.00	0.00
2,920.0	16.57	177.36	2,854.9	-486.7	22.5	487.3	0.00	0.00	0.00
2,960.0	16.57	177.36	2,893.2	-498.1	23.0	498.7	0.00	0.00	0.00
3,000.0	16.57	177.36	2,931.6	-509.5	23.5	510.1	0.00	0.00	0.00
3,040.0	16.57	177.36	2,969.9	-520.9	24.0	521.5	0.00	0.00	0.00
3,080.0	16.57	177.36	3,008.2	-532.3	24.6	532.9	0.00	0.00	0.00
3,120.0	16.57	177.36	3,046.6	-543.7	25.1	544.3	0.00	0.00	0.00
3,160.0	16.57	177.36	3,084.9	-555.1	25.6	555.7	0.00	0.00	0.00
3,200.0	16.57	177.36	3,123.2	-566.5	26.1	567.1	0.00	0.00	0.00
3,240.0	16.57	177.36	3,161.6	-577.9	26.7	578.5	0.00	0.00	0.00
3,280.0	16.57	177.36	3,199.9	-589.3	27.2	589.9	0.00	0.00	0.00
3,320.0	16.57	177.36	3,238.3	-600.7	27.7	601.3	0.00	0.00	0.00
3,360.0	16.57	177.36	3,276.6	-612.1	28.3	612.7	0.00	0.00	0.00
3,400.0	16.57	177.36	3,314.9	-623.5	28.8	624.1	0.00	0.00	0.00
3,440.0	16.57	177.36	3,353.3	-634.9	29.3	635.5	0.00	0.00	0.00
3,480.0	16.57	177.36	3,391.6	-646.3	29.8	647.0	0.00	0.00	0.00
3,520.0	16.57	177.36	3,430.0	-657.7	30.4	658.4	0.00	0.00	0.00
3,560.0	16.57	177.36	3,468.3	-669.1	30.9	669.8	0.00	0.00	0.00
3,600.0	16.57	177.36	3,506.6	-680.4	31.4	681.2	0.00	0.00	0.00
3,640.0	16.57	177.36	3,545.0	-691.8	31.9	692.6	0.00	0.00	0.00
3,680.0	16.57	177.36	3,583.3	-703.2	32.5	704.0	0.00	0.00	0.00
3,720.0	16.57	177.36	3,621.7	-714.6	33.0	715.4	0.00	0.00	0.00
3,760.0	16.57	177.36	3,660.0	-726.0	33.5	726.8	0.00	0.00	0.00
3,800.0	16.57	177.36	3,698.3	-737.4	34.0	738.2	0.00	0.00	0.00
3,840.0	16.57	177.36	3,736.7	-748.8	34.6	749.6	0.00	0.00	0.00
3,880.0	16.57	177.36	3,775.0	-760.2	35.1	761.0	0.00	0.00	0.00
3,920.0	16.57	177.36	3,813.4	-771.6	35.6	772.4	0.00	0.00	0.00
3,960.0	16.57	177.36	3,851.7	-783.0	36.1	783.8	0.00	0.00	0.00
4,000.0	16.57	177.36	3,890.0	-794.4	36.7	795.2	0.00	0.00	0.00
4,040.0	16.57	177.36	3,928.4	-805.8	37.2	806.6	0.00	0.00	0.00
4,080.0	16.57	177.36	3,966.7	-817.2	37.7	818.0	0.00	0.00	0.00
4,120.0	16.57	177.36	4,005.0	-828.6	38.2	829.5	0.00	0.00	0.00
4,160.0	16.57	177.36	4,043.4	-840.0	38.8	840.9	0.00	0.00	0.00
4,200.0	16.57	177.36	4,081.7	-851.4	39.3	852.3	0.00	0.00	0.00
4,240.0	16.57	177.36	4,120.1	-862.8	39.8	863.7	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Scott N27-22D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4979.0ft (Original Well Elev)
Project:	SEC.27-T5N-R67W	MD Reference:	WELL @ 4979.0ft (Original Well Elev)
Site:	Blehm N26-31D Pad Sec.27-T5N-R67W	North Reference:	True
Well:	Scott N27-22D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Scott N27-22D Plan #1 (10-19-10)		

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	16.57	177.36	4,158.4	-874.2	40.3	875.1	0.00	0.00	0.00
4,320.0	16.57	177.36	4,196.7	-885.5	40.9	886.5	0.00	0.00	0.00
4,360.0	16.57	177.36	4,235.1	-896.9	41.4	897.9	0.00	0.00	0.00
4,400.0	16.57	177.36	4,273.4	-908.3	41.9	909.3	0.00	0.00	0.00
4,440.0	16.57	177.36	4,311.8	-919.7	42.5	920.7	0.00	0.00	0.00
4,480.0	16.57	177.36	4,350.1	-931.1	43.0	932.1	0.00	0.00	0.00
4,520.0	16.57	177.36	4,388.4	-942.5	43.5	943.5	0.00	0.00	0.00
4,560.0	16.57	177.36	4,426.8	-953.9	44.0	954.9	0.00	0.00	0.00
4,600.0	16.57	177.36	4,465.1	-965.3	44.6	966.3	0.00	0.00	0.00
4,640.0	16.57	177.36	4,503.5	-976.7	45.1	977.7	0.00	0.00	0.00
4,680.0	16.57	177.36	4,541.8	-988.1	45.6	989.1	0.00	0.00	0.00
4,720.0	16.57	177.36	4,580.1	-999.5	46.1	1,000.6	0.00	0.00	0.00
4,760.0	16.57	177.36	4,618.5	-1,010.9	46.7	1,012.0	0.00	0.00	0.00
4,800.0	16.57	177.36	4,656.8	-1,022.3	47.2	1,023.4	0.00	0.00	0.00
4,840.0	16.57	177.36	4,695.2	-1,033.7	47.7	1,034.8	0.00	0.00	0.00
4,880.0	16.57	177.36	4,733.5	-1,045.1	48.2	1,046.2	0.00	0.00	0.00
4,920.0	16.57	177.36	4,771.8	-1,056.5	48.8	1,057.6	0.00	0.00	0.00
4,960.0	16.57	177.36	4,810.2	-1,067.9	49.3	1,069.0	0.00	0.00	0.00
5,000.0	16.57	177.36	4,848.5	-1,079.3	49.8	1,080.4	0.00	0.00	0.00
5,040.0	16.57	177.36	4,886.8	-1,090.6	50.3	1,091.8	0.00	0.00	0.00
5,080.0	16.57	177.36	4,925.2	-1,102.0	50.9	1,103.2	0.00	0.00	0.00
5,120.0	16.57	177.36	4,963.5	-1,113.4	51.4	1,114.6	0.00	0.00	0.00
5,160.0	16.57	177.36	5,001.9	-1,124.8	51.9	1,126.0	0.00	0.00	0.00
5,200.0	16.57	177.36	5,040.2	-1,136.2	52.4	1,137.4	0.00	0.00	0.00
5,240.0	16.57	177.36	5,078.5	-1,147.6	53.0	1,148.8	0.00	0.00	0.00
5,244.7	16.57	177.36	5,083.1	-1,149.0	53.0	1,150.2	0.00	0.00	0.00
5,280.0	15.86	177.36	5,116.9	-1,158.8	53.5	1,160.0	2.00	-2.00	0.00
5,320.0	15.06	177.36	5,155.5	-1,169.5	54.0	1,170.7	2.00	-2.00	0.00
5,360.0	14.26	177.36	5,194.2	-1,179.6	54.4	1,180.8	2.00	-2.00	0.00
5,400.0	13.46	177.36	5,233.0	-1,189.1	54.9	1,190.4	2.00	-2.00	0.00
5,440.0	12.66	177.36	5,272.0	-1,198.2	55.3	1,199.5	2.00	-2.00	0.00
5,480.0	11.86	177.36	5,311.1	-1,206.7	55.7	1,207.9	2.00	-2.00	0.00
5,520.0	11.06	177.36	5,350.3	-1,214.6	56.1	1,215.9	2.00	-2.00	0.00
5,560.0	10.26	177.36	5,389.6	-1,222.0	56.4	1,223.3	2.00	-2.00	0.00
5,600.0	9.46	177.36	5,429.0	-1,228.8	56.7	1,230.1	2.00	-2.00	0.00
5,640.0	8.66	177.36	5,468.5	-1,235.1	57.0	1,236.5	2.00	-2.00	0.00
5,680.0	7.86	177.36	5,508.1	-1,240.9	57.3	1,242.2	2.00	-2.00	0.00
5,720.0	7.06	177.36	5,547.7	-1,246.1	57.5	1,247.4	2.00	-2.00	0.00
5,760.0	6.26	177.36	5,587.5	-1,250.7	57.7	1,252.0	2.00	-2.00	0.00
5,800.0	5.46	177.36	5,627.3	-1,254.8	57.9	1,256.1	2.00	-2.00	0.00
5,840.0	4.66	177.36	5,667.1	-1,258.3	58.1	1,259.7	2.00	-2.00	0.00
5,880.0	3.86	177.36	5,707.0	-1,261.3	58.2	1,262.6	2.00	-2.00	0.00
5,920.0	3.06	177.36	5,746.9	-1,263.7	58.3	1,265.0	2.00	-2.00	0.00
5,960.0	2.26	177.36	5,786.9	-1,265.6	58.4	1,266.9	2.00	-2.00	0.00
6,000.0	1.46	177.36	5,826.9	-1,266.9	58.5	1,268.2	2.00	-2.00	0.00
6,040.0	0.66	177.36	5,866.9	-1,267.6	58.5	1,268.9	2.00	-2.00	0.00
6,073.1	0.00	0.00	5,900.0	-1,267.8	58.5	1,269.1	2.00	-2.00	0.00
6,080.0	0.00	0.00	5,906.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00
6,120.0	0.00	0.00	5,946.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00
6,160.0	0.00	0.00	5,986.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,026.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00
6,240.0	0.00	0.00	6,066.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00
6,280.0	0.00	0.00	6,106.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00
6,320.0	0.00	0.00	6,146.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Scott N27-22D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4979.0ft (Original Well Elev)
Project:	SEC.27-T5N-R67W	MD Reference:	WELL @ 4979.0ft (Original Well Elev)
Site:	Blehm N26-31D Pad Sec.27-T5N-R67W	North Reference:	True
Well:	Scott N27-22D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Scott N27-22D Plan #1 (10-19-10)		

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)	
6,360.0	0.00	0.00	6,186.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,226.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,440.0	0.00	0.00	6,266.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,480.0	0.00	0.00	6,306.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,520.0	0.00	0.00	6,346.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,560.0	0.00	0.00	6,386.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,426.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,640.0	0.00	0.00	6,466.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,680.0	0.00	0.00	6,506.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,720.0	0.00	0.00	6,546.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,760.0	0.00	0.00	6,586.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,626.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,840.0	0.00	0.00	6,666.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,880.0	0.00	0.00	6,706.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,920.0	0.00	0.00	6,746.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
6,960.0	0.00	0.00	6,786.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,826.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,040.0	0.00	0.00	6,866.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,080.0	0.00	0.00	6,906.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,120.0	0.00	0.00	6,946.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,160.0	0.00	0.00	6,986.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,026.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,240.0	0.00	0.00	7,066.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,280.0	0.00	0.00	7,106.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,320.0	0.00	0.00	7,146.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,360.0	0.00	0.00	7,186.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,226.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,440.0	0.00	0.00	7,266.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,480.0	0.00	0.00	7,306.9	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	
7,512.1	0.00	0.00	7,339.0	-1,267.8	58.5	1,269.1	0.00	0.00	0.00	

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
HARD LINES 76'S of	0.00	0.00	7,339.0	-1,343.8	-41.5	1,378,494.48	3,174,290.78	40° 22' 14.453 N	104° 52' 28.088 W	
- plan misses by 125.6ft at 7512.1ft MD (7339.0 TVD, -1267.8 N, 58.5 E)										
- Polygon										
Point 1			7,339.0	0.0	0.0	1,378,494.48	3,174,290.78			
Point 2			7,339.0	0.0	200.0	1,378,495.89	3,174,490.76			
TARGET CIRCLE 256'	0.00	0.00	6,849.0	-1,267.8	58.5	1,378,571.19	3,174,390.25	40° 22' 15.204 N	104° 52' 26.796 W	
- plan hits target										
- Circle (radius 75.0)										
TARGET BHL 2565'F	0.00	0.00	5,900.0	-1,267.8	58.5	1,378,571.19	3,174,390.25	40° 22' 15.204 N	104° 52' 26.796 W	
- plan hits target										
- Point										

Database:	Landmark	Local Co-ordinate Reference:	Well Scott N27-22D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4979.0ft (Original Well Elev)
Project:	SEC.27-T5N-R67W	MD Reference:	WELL @ 4979.0ft (Original Well Elev)
Site:	Blehm N26-31D Pad Sec.27-T5N-R67W	North Reference:	True
Well:	Scott N27-22D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Scott N27-22D Plan #1 (10-19-10)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
600.0	600.0	8 5/8"	8-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,022.1	6,849.0	NIOBRARA		0.00		
7,362.1	7,189.0	CODELL		0.00		