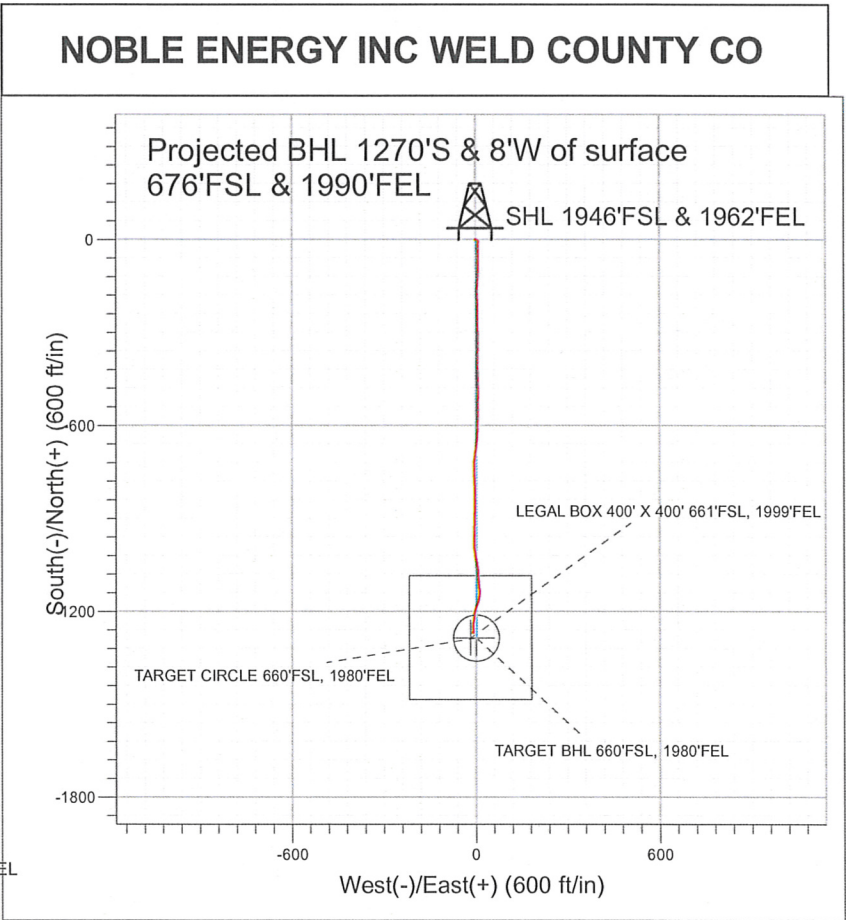
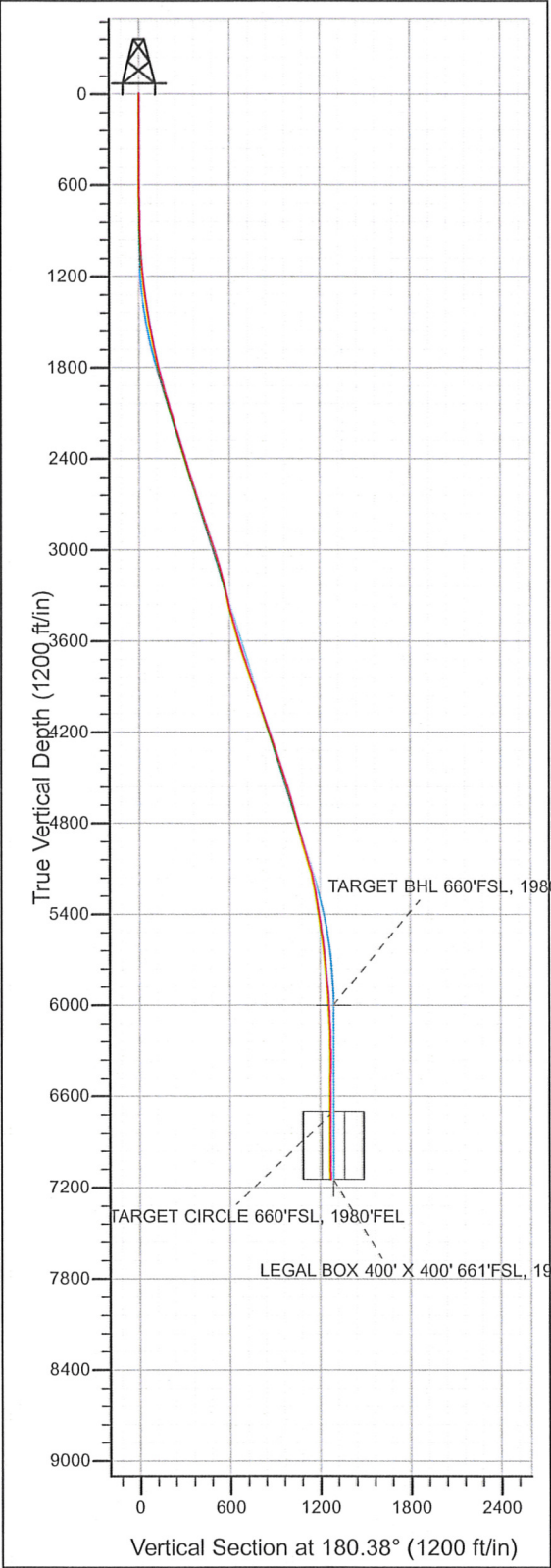


Well Name: Feit E23-15D						
Surface Location: Feit E23-15D Pad Sec. 23-T6N-R65W						
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone						
Ground Elevation: 4699.0						
+N/-S+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.0	0.0	1415086.96	3242638.60	40° 28' 10.344 N	104° 37' 40.404 W	
Original Well Elev WELL @ 4712.0ft (Original Well Elev)						



Final Survey Plot

Projected Final Survey -
7318'MD & 7145'TVD @ 1270' VS
0.6 deg Inc 103.6 deg AZ

Project: SEC.23-T6N-R65W
Site: Feit E23-15D Pad Sec. 23-T6N-R65W
Well: Feit E23-15D
Plan: Feit E23-15D

Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.23-T6N-R65W
 Site: Feit E23-15D Pad Sec. 23-T6N-R65W
 Well: Feit E23-15D
 Wellbore: Feit E23-15D
 Design: Feit E23-15D

Local Co-ordinate Reference: Well Feit E23-15D
 TVD Reference: WELL @ 4712.0ft (Original Well Elev)
 MD Reference: WELL @ 4712.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM den0-adp01 Server Data

Project	SEC.23-T6N-R65W, 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	Feit E23-15D Pad Sec. 23-T6N-R65W		
Site Position:		Northing:	1,415,086.97 ft
From:	Lat/Long	Easting:	3,242,638.60 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 28' 10.344 N
		Longitude:	104° 37' 40.404 W
		Grid Convergence:	0.56 °

Well	Feit E23-15D		
Well Position	+N/-S	0.0 ft	Northing: 1,415,086.96 ft
	+E/-W	0.0 ft	Easting: 3,242,638.60 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40° 28' 10.344 N
		Longitude:	104° 37' 40.404 W
		Ground Level:	4,699.0 ft

Wellbore	Feit E23-15D		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	4/30/2010	8.95
			Dip Angle (°) 67.17
			Field Strength (nT) 53,303

Design	Feit E23-15D		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)
	0.0	0.0	0.0
			Direction (°) 180.38

Survey Program	Date 5/26/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
515.0	7,318.0	Survey #1 (Feit E23-15D)	MWD
			Description 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
515.0	1.10	107.10	515.0	-1.5	4.7	1.4	0.21	0.21	0.00
685.0	1.10	130.40	684.9	-3.0	7.5	2.9	0.26	0.00	13.71
770.0	1.10	144.00	769.9	-4.2	8.6	4.1	0.31	0.00	16.00
856.0	1.20	150.20	855.9	-5.6	9.6	5.6	0.19	0.12	7.21
941.0	1.90	178.60	940.9	-7.8	10.0	7.7	1.20	0.82	33.41
1,027.0	3.60	185.20	1,026.8	-11.9	9.8	11.9	2.01	1.98	7.67
1,112.0	5.00	184.90	1,111.5	-18.3	9.3	18.2	1.65	1.65	-0.35
1,198.0	6.00	180.00	1,197.1	-26.5	8.9	26.4	1.28	1.16	-5.70
1,283.0	7.10	181.90	1,281.6	-36.2	8.8	36.1	1.32	1.29	2.24
1,369.0	8.30	179.90	1,366.8	-47.7	8.6	47.7	1.43	1.40	-2.33
1,454.0	9.20	182.40	1,450.8	-60.6	8.3	60.6	1.15	1.06	2.94
1,540.0	10.20	178.50	1,535.6	-75.1	8.2	75.1	1.39	1.16	-4.53

Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.23-T6N-R65W
Site: Feit E23-15D Pad Sec. 23-T6N-R65W
Well: Feit E23-15D
Wellbore: Feit E23-15D
Design: Feit E23-15D

Local Co-ordinate Reference: Well Feit E23-15D
TVD Reference: WELL @ 4712.0ft (Original Well Elev)
MD Reference: WELL @ 4712.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM den0-adp01 Server Data

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)
1,625.0	11.00	178.10	1,619.1	-90.7	8.7	90.7	0.95	0.94	-0.47
1,711.0	12.40	180.50	1,703.3	-108.2	8.9	108.1	1.72	1.63	2.79
1,796.0	13.60	186.00	1,786.2	-127.2	7.8	127.2	2.03	1.41	6.47
1,882.0	14.80	181.80	1,869.5	-148.3	6.4	148.2	1.84	1.40	-4.88
1,967.0	15.90	179.60	1,951.5	-170.8	6.1	170.7	1.46	1.29	-2.59
2,053.0	16.90	178.90	2,034.0	-195.1	6.4	195.0	1.19	1.16	-0.81
2,138.0	18.20	180.70	2,115.0	-220.7	6.5	220.6	1.66	1.53	2.12
2,224.0	16.70	178.00	2,197.1	-246.5	6.8	246.4	1.98	-1.74	-3.14
2,309.0	16.60	179.50	2,278.5	-270.8	7.3	270.8	0.52	-0.12	1.76
2,395.0	16.50	179.50	2,361.0	-295.3	7.5	295.3	0.12	-0.12	0.00
2,480.0	17.50	181.80	2,442.2	-320.2	7.2	320.1	1.42	1.18	2.71
2,566.0	17.50	179.10	2,524.3	-346.0	7.0	346.0	0.94	0.00	-3.14
2,651.0	17.90	180.30	2,605.2	-371.8	7.2	371.8	0.64	0.47	1.41
2,737.0	17.20	179.00	2,687.2	-397.8	7.3	397.7	0.93	-0.81	-1.51
2,822.0	19.30	178.60	2,768.0	-424.4	7.9	424.3	2.47	2.47	-0.47
2,908.0	18.10	178.20	2,849.4	-452.0	8.6	451.9	1.40	-1.40	-0.47
2,993.0	17.00	180.30	2,930.5	-477.6	9.0	477.5	1.49	-1.29	2.47
3,079.0	18.50	180.30	3,012.4	-503.8	8.9	503.7	1.74	1.74	0.00
3,164.0	17.00	181.70	3,093.3	-529.7	8.4	529.6	1.83	-1.76	1.65
3,249.0	14.50	180.40	3,175.1	-552.8	8.0	552.7	2.97	-2.94	-1.53
3,335.0	13.80	180.30	3,258.5	-573.8	7.8	573.7	0.81	-0.81	-0.12
3,420.0	13.40	180.00	3,341.1	-593.8	7.8	593.7	0.48	-0.47	-0.35
3,506.0	15.10	183.50	3,424.5	-614.9	7.1	614.9	2.22	1.98	4.07
3,591.0	16.10	183.70	3,506.4	-637.7	5.7	637.7	1.18	1.18	0.24
3,677.0	16.20	185.50	3,589.0	-661.6	3.8	661.5	0.59	0.12	2.09
3,762.0	17.70	188.80	3,670.3	-686.2	0.6	686.1	2.10	1.76	3.88
3,848.0	18.20	185.90	3,752.1	-712.4	-2.7	712.4	1.19	0.58	-3.37
3,933.0	18.90	179.00	3,832.7	-739.4	-3.9	739.4	2.71	0.82	-8.12
4,019.0	19.90	177.60	3,913.8	-768.0	-3.0	768.0	1.28	1.16	-1.63
4,104.0	19.60	177.30	3,993.8	-796.6	-1.7	796.6	0.37	-0.35	-0.35
4,190.0	18.00	178.90	4,075.2	-824.3	-0.8	824.3	1.95	-1.86	1.86
4,275.0	18.80	179.90	4,155.9	-851.2	-0.5	851.2	1.01	0.94	1.18
4,361.0	18.80	181.50	4,237.3	-878.9	-0.9	878.9	0.60	0.00	1.86
4,446.0	18.50	184.20	4,317.8	-906.0	-2.2	906.0	1.08	-0.35	3.18
4,532.0	18.30	182.50	4,399.4	-933.1	-3.8	933.1	0.67	-0.23	-1.98
4,617.0	18.70	180.10	4,480.0	-960.1	-4.4	960.1	1.01	0.47	-2.82
4,703.0	17.10	176.10	4,561.9	-986.5	-3.6	986.5	2.35	-1.86	-4.65
4,788.0	15.90	172.50	4,643.4	-1,010.5	-1.2	1,010.5	1.85	-1.41	-4.24
4,874.0	14.80	168.90	4,726.3	-1,033.0	2.5	1,032.9	1.69	-1.28	-4.19
4,959.0	15.10	173.00	4,808.4	-1,054.6	5.9	1,054.5	1.29	0.35	4.82
5,045.0	16.00	176.20	4,891.3	-1,077.5	8.0	1,077.5	1.45	1.05	3.72
5,130.0	16.20	175.00	4,972.9	-1,101.0	9.9	1,101.0	0.46	0.24	-1.41
5,216.0	17.20	174.50	5,055.3	-1,125.7	12.1	1,125.5	1.17	1.16	-0.58
5,301.0	14.00	185.40	5,137.2	-1,148.4	12.4	1,148.3	5.09	-3.76	12.82
5,387.0	10.00	193.80	5,221.3	-1,166.0	9.6	1,165.9	5.06	-4.65	9.77
5,472.0	9.30	200.70	5,305.1	-1,179.6	5.4	1,179.6	1.59	-0.82	8.12
5,558.0	9.50	198.40	5,389.9	-1,192.9	0.7	1,192.8	0.49	0.23	-2.67
5,643.0	8.80	189.00	5,473.9	-1,205.9	-2.5	1,205.9	1.94	-0.82	-11.06
5,729.0	7.40	185.30	5,559.0	-1,217.9	-4.1	1,217.9	1.74	-1.63	-4.30
5,814.0	6.50	186.20	5,643.4	-1,228.2	-5.1	1,228.2	1.07	-1.06	1.06
5,900.0	6.00	194.10	5,728.9	-1,237.4	-6.7	1,237.4	1.16	-0.58	9.19
5,985.0	6.20	182.20	5,813.4	-1,246.3	-8.0	1,246.3	1.50	0.24	-14.00
6,070.0	4.70	175.10	5,898.0	-1,254.3	-7.8	1,254.4	1.93	-1.76	-8.35
6,156.0	4.10	169.20	5,983.7	-1,260.9	-7.0	1,260.9	0.87	-0.70	-6.86

Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.23-T6N-R65W
 Site: Feit E23-15D Pad Sec. 23-T6N-R65W
 Well: Feit E23-15D
 Wellbore: Feit E23-15D
 Design: Feit E23-15D

Local Co-ordinate Reference: Well Feit E23-15D
 TVD Reference: WELL @ 4712.0ft (Original Well Elev)
 MD Reference: WELL @ 4712.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM den0-adp01 Server Data

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)
6,173.8	3.79	169.67	6,001.5	-1,262.1	-6.7	1,262.1	1.78	-1.77	2.67
TARGET BHL 660'FSL, 1980'FEL									
6,241.0	2.60	172.50	6,068.6	-1,265.8	-6.1	1,265.8	1.78	-1.76	4.20
6,327.0	1.60	183.10	6,154.5	-1,268.9	-6.0	1,268.9	1.24	-1.16	12.33
6,412.0	0.70	230.30	6,239.5	-1,270.4	-6.4	1,270.4	1.45	-1.06	55.53
6,583.0	0.80	313.10	6,410.5	-1,270.3	-8.1	1,270.3	0.58	0.06	48.42
6,754.0	0.80	323.20	6,581.5	-1,268.5	-9.7	1,268.5	0.08	0.00	5.91
6,871.5	0.25	113.97	6,699.0	-1,267.9	-9.9	1,268.0	0.87	-0.47	128.34
TARGET CIRCLE 660'FSL, 1980'FEL									
6,925.0	0.70	128.70	6,752.5	-1,268.2	-9.6	1,268.2	0.87	0.85	27.52
7,096.0	0.50	218.20	6,923.5	-1,269.4	-9.2	1,269.5	0.50	-0.12	52.34
7,270.0	0.60	103.60	7,097.5	-1,270.2	-8.8	1,270.3	0.53	0.06	-65.86
7,318.0	0.60	103.60	7,145.5	-1,270.3	-8.3	1,270.4	0.00	0.00	0.00
LEGAL BOX 400' X 400' 661'FSL, 1999'FEL									

Wellbore Targets
Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
TARGET BHL 660'FS	0.00	0.00	6,000.0	-1,286.1	1.6	1,413,800.96	3,242,652.82	40° 27' 57.635 N	104° 37' 40.384 W
- survey misses target center by 25.5ft at 6173.8ft MD (6001.5 TVD, -1262.1 N, -6.7 E)									
- Point									
TARGET CIRCLE 660'	0.00	0.00	6,699.0	-1,286.1	1.6	1,413,800.99	3,242,652.85	40° 27' 57.635 N	104° 37' 40.383 W
- survey misses target center by 21.5ft at 6871.7ft MD (6699.2 TVD, -1267.9 N, -9.9 E)									
- Circle (radius 75.0)									
LEGAL BOX 400' X 400'	0.00	0.00	7,146.0	-1,285.1	-17.4	1,413,801.80	3,242,633.84	40° 27' 57.645 N	104° 37' 40.629 W
- survey misses target center by 17.3ft at 7318.0ft MD (7145.5 TVD, -1270.3 N, -8.3 E)									
- Rectangle (sides W400.0 H400.0 D0.0)									

Checked By: _____ Approved By: _____ Date: _____