

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	650.0	5.00	0.00	649.7	10.9	0.0	2.00	0.00	6.5	
4	1247.5	14.10	304.90	1239.2	78.8	-59.9	2.00	-74.79	95.2	
5	4405.5	14.10	304.90	4302.1	519.0	-690.9	0.00	0.00	864.1	
6	5110.6	0.00	0.00	5000.0	568.4	-761.7	2.00	180.00	950.4	TARGET BHL 1412'FSL, 1212'FWL
7	7629.6	0.00	0.00	7519.0	568.4	-761.7	0.00	0.00	950.4	



Directional

**NOBLE ENERGY INC WELD
COUNTY CO**

SEC.31-T7N-R66W

Schneider USX II31-13D Pad Sec.31-T7N-R66W

Schneider USX II31-25D

Wellbore #1

Plan: Noble Schneider USX II31-25D Plan #2 (8-26-11)

Standard Planning Report

26 August, 2011



Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.31-T7N-R66W
Site: Schneider USX II31-13D Pad
 Sec.31-T7N-R66W
Well: Schneider USX II31-25D
Wellbore: Wellbore #1
Design: Noble Schneider USX II31-25D Plan #2 (8-26-1)

Local Co-ordinate Reference: Well Schneider USX II31-25D
TVD Reference: WELL @ 4919.0ft (Original Well Elev)
MD Reference: WELL @ 4919.0ft (Original Well Elev)
North Reference: True

Survey Calculation Method: Minimum Curvature

Project	SEC.31-T7N-R66W, 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 Schneider USX II31-13D Pad Sec.31-T7N-R66W					
Site Position:		Northing:	1,435,107.12 ft	Latitude:	40.525810
From:	Lat/Long	Easting:	3,187,602.10 ft	Longitude:	-104.825150
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.44 °

Well	Schneider USX II31-25D					
Well Position	+N/-S	3.6 ft	Northing:	1,435,110.92 ft	Latitude:	40.525820
	+E/-W	22.2 ft	Easting:	3,187,624.31 ft	Longitude:	-104.825070
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,906.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/26/2011	8.88	67.14	53,169

Design Noble Schneider USX II31-25D Plan #2 (8-26-11)

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	306.73

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	
650.0	5.00	0.00	649.7	10.9	0.0	2.00	2.00	0.00	0.00	
1,247.5	14.10	304.90	1,239.2	78.8	-59.9	2.00	1.52	-9.22	-74.79	
4,405.5	14.10	304.90	4,302.1	519.0	-690.9	0.00	0.00	0.00	0.00	
5,110.6	0.00	0.00	5,000.0	568.4	-761.7	2.00	-2.00	0.00	180.00	TARGET BHL 1412
7,629.6	0.00	0.00	7,519.0	568.4	-761.7	0.00	0.00	0.00	0.00	

Database: Landmark
 Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.31-T7N-R66W
 Site: Schneider USX II31-13D Pad
 Sec.31-T7N-R66W
 Well: Schneider USX II31-25D
 Wellbore: Wellbore #1
 Design: Noble Schneider USX II31-25D Plan #2 (8-26-1)

Local Co-ordinate Reference: Well Schneider USX II31-25D
 TVD Reference: WELL @ 4919.0ft (Original Well Elev)
 MD Reference: WELL @ 4919.0ft (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)
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	0.00	440.0	0.3	0.0	0.2	2.00	2.00	0.00
480.0	1.60	0.00	480.0	1.1	0.0	0.7	2.00	2.00	0.00
520.0	2.40	0.00	520.0	2.5	0.0	1.5	2.00	2.00	0.00
560.0	3.20	0.00	559.9	4.5	0.0	2.7	2.00	2.00	0.00
600.0	4.00	0.00	599.8	7.0	0.0	4.2	2.00	2.00	0.00
640.0	4.80	0.00	639.7	10.0	0.0	6.0	2.00	2.00	0.00
650.0	5.00	0.00	649.7	10.9	0.0	6.5	2.00	2.00	0.00
680.0	5.19	353.59	679.6	13.6	-0.2	8.2	2.00	0.63	-21.38
720.0	5.53	345.85	719.4	17.2	-0.8	11.0	2.00	0.86	-19.34
760.0	5.97	339.12	759.2	21.0	-2.0	14.2	2.00	1.08	-16.82
800.0	6.47	333.37	799.0	25.0	-3.8	18.0	2.00	1.26	-14.39
840.0	7.03	328.48	838.7	29.1	-6.1	22.3	2.00	1.39	-12.22
851.4	7.19	327.23	850.0	30.3	-6.8	23.6	2.00	1.47	-10.98
8 5/8"									
880.0	7.63	324.33	878.4	33.3	-8.9	27.1	2.00	1.52	-10.12
920.0	8.26	320.80	918.0	37.7	-12.3	32.4	2.00	1.59	-8.82
960.0	8.92	317.78	957.5	42.2	-16.2	38.2	2.00	1.65	-7.55
1,000.0	9.60	315.18	997.0	46.9	-20.6	44.6	2.00	1.70	-6.50
1,040.0	10.30	312.93	1,036.4	51.7	-25.6	51.4	2.00	1.75	-5.64
1,080.0	11.02	310.96	1,075.7	56.7	-31.1	58.8	2.00	1.78	-4.92
1,120.0	11.74	309.23	1,114.9	61.7	-37.1	66.7	2.00	1.81	-4.33
1,160.0	12.47	307.70	1,154.0	66.9	-43.7	75.1	2.00	1.83	-3.83
1,200.0	13.21	306.33	1,193.0	72.3	-50.8	83.9	2.00	1.85	-3.41
1,240.0	13.96	305.11	1,231.9	77.8	-58.4	93.3	2.00	1.87	-3.05
1,247.5	14.10	304.90	1,239.2	78.8	-59.9	95.2	2.00	1.88	-2.86
1,280.0	14.10	304.90	1,270.7	83.4	-66.4	103.1	0.00	0.00	0.00
1,320.0	14.10	304.90	1,309.5	88.9	-74.4	112.8	0.00	0.00	0.00
1,360.0	14.10	304.90	1,348.3	94.5	-82.4	122.5	0.00	0.00	0.00
1,400.0	14.10	304.90	1,387.1	100.1	-90.4	132.3	0.00	0.00	0.00
1,440.0	14.10	304.90	1,425.9	105.7	-98.4	142.0	0.00	0.00	0.00
1,480.0	14.10	304.90	1,464.7	111.2	-106.4	151.8	0.00	0.00	0.00
1,520.0	14.10	304.90	1,503.5	116.8	-114.4	161.5	0.00	0.00	0.00
1,560.0	14.10	304.90	1,542.3	122.4	-122.3	171.2	0.00	0.00	0.00
1,600.0	14.10	304.90	1,581.1	128.0	-130.3	181.0	0.00	0.00	0.00
1,640.0	14.10	304.90	1,619.9	133.5	-138.3	190.7	0.00	0.00	0.00
1,680.0	14.10	304.90	1,658.7	139.1	-146.3	200.5	0.00	0.00	0.00
1,720.0	14.10	304.90	1,697.4	144.7	-154.3	210.2	0.00	0.00	0.00
1,760.0	14.10	304.90	1,736.2	150.3	-162.3	219.9	0.00	0.00	0.00
1,800.0	14.10	304.90	1,775.0	155.8	-170.3	229.7	0.00	0.00	0.00
1,840.0	14.10	304.90	1,813.8	161.4	-178.3	239.4	0.00	0.00	0.00
1,880.0	14.10	304.90	1,852.6	167.0	-186.3	249.2	0.00	0.00	0.00
1,920.0	14.10	304.90	1,891.4	172.6	-194.3	258.9	0.00	0.00	0.00

Database: Landmark
 Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.31-T7N-R66W
 Site: Schneider USX II31-13D Pad
 Sec.31-T7N-R66W
 Well: Schneider USX II31-25D
 Wellbore: Wellbore #1
 Design: Noble Schneider USX II31-25D Plan #2 (8-26-1

Local Co-ordinate Reference: Well Schneider USX II31-25D
 TVD Reference: WELL @ 4919.0ft (Original Well Elev)
 MD Reference: WELL @ 4919.0ft (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)
1,960.0	14.10	304.90	1,930.2	178.1	-202.3	268.6	0.00	0.00	0.00
2,000.0	14.10	304.90	1,969.0	183.7	-210.3	278.4	0.00	0.00	0.00
2,040.0	14.10	304.90	2,007.8	189.3	-218.3	288.1	0.00	0.00	0.00
2,080.0	14.10	304.90	2,046.6	194.9	-226.3	297.9	0.00	0.00	0.00
2,120.0	14.10	304.90	2,085.4	200.4	-234.2	307.6	0.00	0.00	0.00
2,160.0	14.10	304.90	2,124.2	206.0	-242.2	317.3	0.00	0.00	0.00
2,200.0	14.10	304.90	2,163.0	211.6	-250.2	327.1	0.00	0.00	0.00
2,240.0	14.10	304.90	2,201.8	217.2	-258.2	336.8	0.00	0.00	0.00
2,280.0	14.10	304.90	2,240.6	222.7	-266.2	346.6	0.00	0.00	0.00
2,320.0	14.10	304.90	2,279.4	228.3	-274.2	356.3	0.00	0.00	0.00
2,360.0	14.10	304.90	2,318.2	233.9	-282.2	366.0	0.00	0.00	0.00
2,400.0	14.10	304.90	2,357.0	239.5	-290.2	375.8	0.00	0.00	0.00
2,440.0	14.10	304.90	2,395.8	245.0	-298.2	385.5	0.00	0.00	0.00
2,480.0	14.10	304.90	2,434.5	250.6	-306.2	395.3	0.00	0.00	0.00
2,520.0	14.10	304.90	2,473.3	256.2	-314.2	405.0	0.00	0.00	0.00
2,560.0	14.10	304.90	2,512.1	261.8	-322.2	414.7	0.00	0.00	0.00
2,600.0	14.10	304.90	2,550.9	267.3	-330.2	424.5	0.00	0.00	0.00
2,640.0	14.10	304.90	2,589.7	272.9	-338.1	434.2	0.00	0.00	0.00
2,680.0	14.10	304.90	2,628.5	278.5	-346.1	444.0	0.00	0.00	0.00
2,720.0	14.10	304.90	2,667.3	284.1	-354.1	453.7	0.00	0.00	0.00
2,760.0	14.10	304.90	2,706.1	289.6	-362.1	463.4	0.00	0.00	0.00
2,800.0	14.10	304.90	2,744.9	295.2	-370.1	473.2	0.00	0.00	0.00
2,840.0	14.10	304.90	2,783.7	300.8	-378.1	482.9	0.00	0.00	0.00
2,880.0	14.10	304.90	2,822.5	306.4	-386.1	492.7	0.00	0.00	0.00
2,920.0	14.10	304.90	2,861.3	311.9	-394.1	502.4	0.00	0.00	0.00
2,960.0	14.10	304.90	2,900.1	317.5	-402.1	512.1	0.00	0.00	0.00
3,000.0	14.10	304.90	2,938.9	323.1	-410.1	521.9	0.00	0.00	0.00
3,040.0	14.10	304.90	2,977.7	328.7	-418.1	531.6	0.00	0.00	0.00
3,080.0	14.10	304.90	3,016.5	334.2	-426.1	541.4	0.00	0.00	0.00
3,120.0	14.10	304.90	3,055.3	339.8	-434.1	551.1	0.00	0.00	0.00
3,160.0	14.10	304.90	3,094.1	345.4	-442.0	560.8	0.00	0.00	0.00
3,200.0	14.10	304.90	3,132.9	351.0	-450.0	570.6	0.00	0.00	0.00
3,240.0	14.10	304.90	3,171.7	356.5	-458.0	580.3	0.00	0.00	0.00
3,280.0	14.10	304.90	3,210.4	362.1	-466.0	590.1	0.00	0.00	0.00
3,320.0	14.10	304.90	3,249.2	367.7	-474.0	599.8	0.00	0.00	0.00
3,360.0	14.10	304.90	3,288.0	373.3	-482.0	609.5	0.00	0.00	0.00
3,400.0	14.10	304.90	3,326.8	378.8	-490.0	619.3	0.00	0.00	0.00
3,440.0	14.10	304.90	3,365.6	384.4	-498.0	629.0	0.00	0.00	0.00
3,480.0	14.10	304.90	3,404.4	390.0	-506.0	638.8	0.00	0.00	0.00
3,520.0	14.10	304.90	3,443.2	395.6	-514.0	648.5	0.00	0.00	0.00
3,560.0	14.10	304.90	3,482.0	401.1	-522.0	658.2	0.00	0.00	0.00
3,600.0	14.10	304.90	3,520.8	406.7	-530.0	668.0	0.00	0.00	0.00
3,640.0	14.10	304.90	3,559.6	412.3	-538.0	677.7	0.00	0.00	0.00
3,680.0	14.10	304.90	3,598.4	417.9	-545.9	687.5	0.00	0.00	0.00
3,720.0	14.10	304.90	3,637.2	423.4	-553.9	697.2	0.00	0.00	0.00
3,760.0	14.10	304.90	3,676.0	429.0	-561.9	706.9	0.00	0.00	0.00
3,800.0	14.10	304.90	3,714.8	434.6	-569.9	716.7	0.00	0.00	0.00
3,840.0	14.10	304.90	3,753.6	440.2	-577.9	726.4	0.00	0.00	0.00
3,880.0	14.10	304.90	3,792.4	445.7	-585.9	736.2	0.00	0.00	0.00
3,920.0	14.10	304.90	3,831.2	451.3	-593.9	745.9	0.00	0.00	0.00
3,960.0	14.10	304.90	3,870.0	456.9	-601.9	755.6	0.00	0.00	0.00
4,000.0	14.10	304.90	3,908.8	462.5	-609.9	765.4	0.00	0.00	0.00
4,040.0	14.10	304.90	3,947.5	468.0	-617.9	775.1	0.00	0.00	0.00

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 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)
4,080.0	14.10	304.90	3,986.3	473.6	-625.9	784.9	0.00	0.00	0.00
4,120.0	14.10	304.90	4,025.1	479.2	-633.9	794.6	0.00	0.00	0.00
4,160.0	14.10	304.90	4,063.9	484.8	-641.9	804.3	0.00	0.00	0.00
4,200.0	14.10	304.90	4,102.7	490.3	-649.8	814.1	0.00	0.00	0.00
4,240.0	14.10	304.90	4,141.5	495.9	-657.8	823.8	0.00	0.00	0.00
4,280.0	14.10	304.90	4,180.3	501.5	-665.8	833.6	0.00	0.00	0.00
4,320.0	14.10	304.90	4,219.1	507.1	-673.8	843.3	0.00	0.00	0.00
4,360.0	14.10	304.90	4,257.9	512.6	-681.8	853.0	0.00	0.00	0.00
4,400.0	14.10	304.90	4,296.7	518.2	-689.8	862.8	0.00	0.00	0.00
4,405.5	14.10	304.90	4,302.1	519.0	-690.9	864.1	0.00	0.00	0.00
4,440.0	13.41	304.90	4,335.5	523.7	-697.6	872.3	2.00	-2.00	0.00
4,480.0	12.61	304.90	4,374.5	528.8	-705.0	881.3	2.00	-2.00	0.00
4,520.0	11.81	304.90	4,413.6	533.7	-712.0	889.8	2.00	-2.00	0.00
4,560.0	11.01	304.90	4,452.8	538.2	-718.5	897.7	2.00	-2.00	0.00
4,600.0	10.21	304.90	4,492.1	542.4	-724.5	905.0	2.00	-2.00	0.00
4,640.0	9.41	304.90	4,531.6	546.3	-730.1	911.8	2.00	-2.00	0.00
4,680.0	8.61	304.90	4,571.1	549.9	-735.2	918.1	2.00	-2.00	0.00
4,720.0	7.81	304.90	4,610.6	553.2	-739.9	923.8	2.00	-2.00	0.00
4,760.0	7.01	304.90	4,650.3	556.1	-744.1	929.0	2.00	-2.00	0.00
4,800.0	6.21	304.90	4,690.0	558.7	-747.9	933.6	2.00	-2.00	0.00
4,840.0	5.41	304.90	4,729.8	561.1	-751.2	937.6	2.00	-2.00	0.00
4,880.0	4.61	304.90	4,769.7	563.1	-754.1	941.1	2.00	-2.00	0.00
4,920.0	3.81	304.90	4,809.6	564.7	-756.5	944.1	2.00	-2.00	0.00
4,960.0	3.01	304.90	4,849.5	566.1	-758.5	946.4	2.00	-2.00	0.00
5,000.0	2.21	304.90	4,889.5	567.1	-760.0	948.3	2.00	-2.00	0.00
5,040.0	1.41	304.90	4,929.4	567.9	-761.0	949.5	2.00	-2.00	0.00
5,080.0	0.61	304.90	4,969.4	568.3	-761.6	950.2	2.00	-2.00	0.00
5,110.6	0.00	0.00	5,000.0	568.4	-761.7	950.4	2.00	-2.00	0.00
TARGET BHL 1412'FSL, 1212'FWL									
5,120.0	0.00	0.00	5,009.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,160.0	0.00	0.00	5,049.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,089.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,240.0	0.00	0.00	5,129.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,280.0	0.00	0.00	5,169.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,320.0	0.00	0.00	5,209.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,360.0	0.00	0.00	5,249.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,289.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,440.0	0.00	0.00	5,329.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,480.0	0.00	0.00	5,369.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,520.0	0.00	0.00	5,409.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,560.0	0.00	0.00	5,449.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,489.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,640.0	0.00	0.00	5,529.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,680.0	0.00	0.00	5,569.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,720.0	0.00	0.00	5,609.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,760.0	0.00	0.00	5,649.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,689.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,840.0	0.00	0.00	5,729.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,880.0	0.00	0.00	5,769.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,920.0	0.00	0.00	5,809.4	568.4	-761.7	950.4	0.00	0.00	0.00
5,960.0	0.00	0.00	5,849.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,889.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,040.0	0.00	0.00	5,929.4	568.4	-761.7	950.4	0.00	0.00	0.00

Database: Landmark
 Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.31-T7N-R66W
 Site: Schneider USX II31-13D Pad
 Sec.31-T7N-R66W
 Well: Schneider USX II31-25D
 Wellbore: Wellbore #1
 Design: Noble Schneider USX II31-25D Plan #2 (8-26-1

Local Co-ordinate Reference: Well Schneider USX II31-25D
 TVD Reference: WELL @ 4919.0ft (Original Well Elev)
 MD Reference: WELL @ 4919.0ft (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)
6,080.0	0.00	0.00	5,969.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,120.0	0.00	0.00	6,009.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,160.0	0.00	0.00	6,049.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,089.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,240.0	0.00	0.00	6,129.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,280.0	0.00	0.00	6,169.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,320.0	0.00	0.00	6,209.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,360.0	0.00	0.00	6,249.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,289.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,440.0	0.00	0.00	6,329.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,480.0	0.00	0.00	6,369.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,520.0	0.00	0.00	6,409.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,560.0	0.00	0.00	6,449.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,489.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,640.0	0.00	0.00	6,529.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,680.0	0.00	0.00	6,569.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,720.0	0.00	0.00	6,609.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,760.0	0.00	0.00	6,649.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,689.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,840.0	0.00	0.00	6,729.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,880.0	0.00	0.00	6,769.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,920.0	0.00	0.00	6,809.4	568.4	-761.7	950.4	0.00	0.00	0.00
6,960.0	0.00	0.00	6,849.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,889.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,040.0	0.00	0.00	6,929.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,080.0	0.00	0.00	6,969.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,120.0	0.00	0.00	7,009.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,148.6	0.00	0.00	7,038.0	568.4	-761.7	950.4	0.00	0.00	0.00
NIOBRARA - LEGAL BOX 800' X 800' 1323'FSL & 1340'FWL - TARGET CIRCLE 1412'FSL & 1212'FWL									
7,160.0	0.00	0.00	7,049.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,089.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,240.0	0.00	0.00	7,129.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,280.0	0.00	0.00	7,169.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,320.0	0.00	0.00	7,209.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,360.0	0.00	0.00	7,249.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,289.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,440.0	0.00	0.00	7,329.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,479.6	0.00	0.00	7,369.0	568.4	-761.7	950.4	0.00	0.00	0.00
CODELL									
7,480.0	0.00	0.00	7,369.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,520.0	0.00	0.00	7,409.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,560.0	0.00	0.00	7,449.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,489.4	568.4	-761.7	950.4	0.00	0.00	0.00
7,629.6	0.00	0.00	7,519.0	568.4	-761.7	950.4	0.00	0.00	0.00

Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.31-T7N-R66W
Site: Schneider USX II31-13D Pad
 Sec.31-T7N-R66W
Well: Schneider USX II31-25D
Wellbore: Wellbore #1
Design: Noble Schneider USX II31-25D Plan #2 (8-26-1)

Local Co-ordinate Reference: Well Schneider USX II31-25D
TVD Reference: WELL @ 4919.0ft (Original Well Elev)
MD Reference: WELL @ 4919.0ft (Original Well Elev)
North Reference: True

Survey Calculation Method: Minimum Curvature

Targets
Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
LEGAL BOX 800' X 81 - plan misses target center by 155.9ft at 7148.6ft MD (7038.0 TVD, 568.4 N, -761.7 E) - Rectangle (sides W800.0 H800.0 D481.0)	0.00	0.00	7,038.0	479.4	-633.7	1,435,585.47	3,186,987.00	40.527136	-104.827350
TARGET BHL 1412'F - plan hits target center - Point	0.00	0.00	5,000.0	568.4	-761.7	1,435,673.45	3,186,858.32	40.527380	-104.827810
TARGET CIRCLE 14' - plan hits target center - Circle (radius 75.0)	0.00	0.00	7,038.0	568.4	-761.7	1,435,673.45	3,186,858.32	40.527380	-104.827810

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
851.4	850.0	8 5/8"	8-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,148.6	7,038.0	NIOBRARA		0.00	
7,479.6	7,369.0	CODELL		0.00	