

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	2600.0	0.00	0.00	2600.0	0.0	0.0	0.00	0.00	0.0	
3	3110.5	10.21	302.39	3107.8	24.3	-38.3	2.00	302.39	45.4	
4	4517.2	10.21	302.39	4492.2	157.9	-248.9	0.00	0.00	294.7	
5	5027.7	0.00	0.00	5000.0	182.2	-287.2	2.00	180.00	340.1	TARGET BHL 75'FNL, 75'FWL
6	7228.7	0.00	0.00	7201.0	182.2	-287.2	0.00	0.00	340.1	



NOBLE ENERGY INC WELD COUNTY CO

SEC.12-T4N-R65W

Easton G12-30D Pad Sec.12-T4N-R65W

Easton G12-30D

Wellbore #1

Plan: Noble Easton G12-30D Plan #1 (10-28-10)

Standard Planning Report

02 November, 2010



Database: Landmark
 Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.12-T4N-R65W
 Site: Easton G12-30D Pad Sec.12-T4N-R65W
 Well: Easton G12-30D
 Wellbore: Wellbore #1
 Design: Noble Easton G12-30D Plan #1 (10-28-10)

Local Co-ordinate Reference: Well Easton G12-30D
 TVD Reference: WELL @ 4751.0ft (Original Well Elev)
 MD Reference: WELL @ 4751.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Project	SEC.12-T4N-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	Easton G12-30D Pad Sec.12-T4N-R65W		
Site Position:		Northing:	1,365,567.66 ft
From:	Lat/Long	Easting:	3,245,422.92 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 20' 0.744 N
		Longitude:	104° 37' 10.740 W
		Grid Convergence:	0.57 °

Well	Easton G12-30D		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40° 20' 0.744 N
		Longitude:	104° 37' 10.740 W
		Ground Level:	4,738.0 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	11/2/2010	8.86
			Dip Angle
			(°)
			67.04
			Field Strength
			(nT)
			53,178

Design	Noble Easton G12-30D Plan #1 (10-28-10)		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			302.39

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	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,110.5	10.21	302.39	3,107.8	24.3	-38.3	2.00	2.00	0.00	302.39	
4,517.2	10.21	302.39	4,492.2	157.9	-248.9	0.00	0.00	0.00	0.00	
5,027.7	0.00	0.00	5,000.0	182.2	-287.2	2.00	-2.00	0.00	180.00	TARGET BHL 75'FI
7,228.7	0.00	0.00	7,201.0	182.2	-287.2	0.00	0.00	0.00	0.00	

Database: Landmark
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Project: SEC.12-T4N-R65W
Site: Easton G12-30D Pad Sec.12-T4N-R65W
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Local Co-ordinate Reference: Well Easton G12-30D
TVD Reference: WELL @ 4751.0ft (Original Well Elev)
MD Reference: WELL @ 4751.0ft (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	0.00	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	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,040.0	0.00	0.00	1,040.0	0.0	0.0	0.0	0.00	0.00	0.00
1,080.0	0.00	0.00	1,080.0	0.0	0.0	0.0	0.00	0.00	0.00
1,120.0	0.00	0.00	1,120.0	0.0	0.0	0.0	0.00	0.00	0.00
1,160.0	0.00	0.00	1,160.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,240.0	0.00	0.00	1,240.0	0.0	0.0	0.0	0.00	0.00	0.00
1,280.0	0.00	0.00	1,280.0	0.0	0.0	0.0	0.00	0.00	0.00
1,320.0	0.00	0.00	1,320.0	0.0	0.0	0.0	0.00	0.00	0.00
1,360.0	0.00	0.00	1,360.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,440.0	0.00	0.00	1,440.0	0.0	0.0	0.0	0.00	0.00	0.00
1,480.0	0.00	0.00	1,480.0	0.0	0.0	0.0	0.00	0.00	0.00
1,520.0	0.00	0.00	1,520.0	0.0	0.0	0.0	0.00	0.00	0.00
1,560.0	0.00	0.00	1,560.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,640.0	0.00	0.00	1,640.0	0.0	0.0	0.0	0.00	0.00	0.00
1,680.0	0.00	0.00	1,680.0	0.0	0.0	0.0	0.00	0.00	0.00
1,720.0	0.00	0.00	1,720.0	0.0	0.0	0.0	0.00	0.00	0.00
1,760.0	0.00	0.00	1,760.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,840.0	0.00	0.00	1,840.0	0.0	0.0	0.0	0.00	0.00	0.00
1,880.0	0.00	0.00	1,880.0	0.0	0.0	0.0	0.00	0.00	0.00
1,920.0	0.00	0.00	1,920.0	0.0	0.0	0.0	0.00	0.00	0.00
1,960.0	0.00	0.00	1,960.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,040.0	0.00	0.00	2,040.0	0.0	0.0	0.0	0.00	0.00	0.00
2,080.0	0.00	0.00	2,080.0	0.0	0.0	0.0	0.00	0.00	0.00
2,120.0	0.00	0.00	2,120.0	0.0	0.0	0.0	0.00	0.00	0.00

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 MD Reference: WELL @ 4751.0ft (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)
2,160.0	0.00	0.00	2,160.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,240.0	0.00	0.00	2,240.0	0.0	0.0	0.0	0.00	0.00	0.00
2,280.0	0.00	0.00	2,280.0	0.0	0.0	0.0	0.00	0.00	0.00
2,320.0	0.00	0.00	2,320.0	0.0	0.0	0.0	0.00	0.00	0.00
2,360.0	0.00	0.00	2,360.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,440.0	0.00	0.00	2,440.0	0.0	0.0	0.0	0.00	0.00	0.00
2,480.0	0.00	0.00	2,480.0	0.0	0.0	0.0	0.00	0.00	0.00
2,520.0	0.00	0.00	2,520.0	0.0	0.0	0.0	0.00	0.00	0.00
2,560.0	0.00	0.00	2,560.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,640.0	0.80	302.39	2,640.0	0.1	-0.2	0.3	2.00	2.00	0.00
2,680.0	1.60	302.39	2,680.0	0.6	-0.9	1.1	2.00	2.00	0.00
2,720.0	2.40	302.39	2,720.0	1.3	-2.1	2.5	2.00	2.00	0.00
2,760.0	3.20	302.39	2,759.9	2.4	-3.8	4.5	2.00	2.00	0.00
2,800.0	4.00	302.39	2,799.8	3.7	-5.9	7.0	2.00	2.00	0.00
2,840.0	4.80	302.39	2,839.7	5.4	-8.5	10.0	2.00	2.00	0.00
2,880.0	5.60	302.39	2,879.6	7.3	-11.5	13.7	2.00	2.00	0.00
2,920.0	6.40	302.39	2,919.3	9.6	-15.1	17.9	2.00	2.00	0.00
2,960.0	7.20	302.39	2,959.1	12.1	-19.1	22.6	2.00	2.00	0.00
3,000.0	8.00	302.39	2,998.7	14.9	-23.5	27.9	2.00	2.00	0.00
3,040.0	8.80	302.39	3,038.3	18.1	-28.5	33.7	2.00	2.00	0.00
3,080.0	9.60	302.39	3,077.8	21.5	-33.9	40.1	2.00	2.00	0.00
3,110.5	10.21	302.39	3,107.8	24.3	-38.3	45.4	2.00	2.00	0.00
3,120.0	10.21	302.39	3,117.2	25.2	-39.7	47.0	0.00	0.00	0.00
3,160.0	10.21	302.39	3,156.5	29.0	-45.7	54.1	0.00	0.00	0.00
3,200.0	10.21	302.39	3,195.9	32.8	-51.7	61.2	0.00	0.00	0.00
3,240.0	10.21	302.39	3,235.3	36.6	-57.7	68.3	0.00	0.00	0.00
3,280.0	10.21	302.39	3,274.6	40.4	-63.7	75.4	0.00	0.00	0.00
3,320.0	10.21	302.39	3,314.0	44.2	-69.7	82.5	0.00	0.00	0.00
3,360.0	10.21	302.39	3,353.4	48.0	-75.7	89.6	0.00	0.00	0.00
3,400.0	10.21	302.39	3,392.7	51.8	-81.6	96.7	0.00	0.00	0.00
3,440.0	10.21	302.39	3,432.1	55.6	-87.6	103.8	0.00	0.00	0.00
3,480.0	10.21	302.39	3,471.5	59.4	-93.6	110.9	0.00	0.00	0.00
3,520.0	10.21	302.39	3,510.8	63.2	-99.6	117.9	0.00	0.00	0.00
3,560.0	10.21	302.39	3,550.2	67.0	-105.6	125.0	0.00	0.00	0.00
3,600.0	10.21	302.39	3,589.6	70.8	-111.6	132.1	0.00	0.00	0.00
3,640.0	10.21	302.39	3,628.9	74.6	-117.6	139.2	0.00	0.00	0.00
3,680.0	10.21	302.39	3,668.3	78.4	-123.5	146.3	0.00	0.00	0.00
3,720.0	10.21	302.39	3,707.7	82.2	-129.5	153.4	0.00	0.00	0.00
3,760.0	10.21	302.39	3,747.0	86.0	-135.5	160.5	0.00	0.00	0.00
3,800.0	10.21	302.39	3,786.4	89.8	-141.5	167.6	0.00	0.00	0.00
3,840.0	10.21	302.39	3,825.8	93.6	-147.5	174.7	0.00	0.00	0.00
3,880.0	10.21	302.39	3,865.1	97.4	-153.5	181.8	0.00	0.00	0.00
3,920.0	10.21	302.39	3,904.5	101.2	-159.5	188.9	0.00	0.00	0.00
3,960.0	10.21	302.39	3,943.9	105.0	-165.5	195.9	0.00	0.00	0.00
4,000.0	10.21	302.39	3,983.2	108.8	-171.4	203.0	0.00	0.00	0.00
4,040.0	10.21	302.39	4,022.6	112.6	-177.4	210.1	0.00	0.00	0.00
4,080.0	10.21	302.39	4,062.0	116.4	-183.4	217.2	0.00	0.00	0.00
4,120.0	10.21	302.39	4,101.3	120.2	-189.4	224.3	0.00	0.00	0.00
4,160.0	10.21	302.39	4,140.7	124.0	-195.4	231.4	0.00	0.00	0.00
4,200.0	10.21	302.39	4,180.1	127.8	-201.4	238.5	0.00	0.00	0.00
4,240.0	10.21	302.39	4,219.4	131.5	-207.4	245.6	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)
4,280.0	10.21	302.39	4,258.8	135.3	-213.4	252.7	0.00	0.00	0.00
4,320.0	10.21	302.39	4,298.2	139.1	-219.3	259.8	0.00	0.00	0.00
4,360.0	10.21	302.39	4,337.5	142.9	-225.3	266.8	0.00	0.00	0.00
4,400.0	10.21	302.39	4,376.9	146.7	-231.3	273.9	0.00	0.00	0.00
4,440.0	10.21	302.39	4,416.3	150.5	-237.3	281.0	0.00	0.00	0.00
4,480.0	10.21	302.39	4,455.6	154.3	-243.3	288.1	0.00	0.00	0.00
4,517.2	10.21	302.39	4,492.2	157.9	-248.9	294.7	0.00	0.00	0.00
4,520.0	10.15	302.39	4,495.0	158.1	-249.3	295.2	2.00	-2.00	0.00
4,560.0	9.35	302.39	4,534.4	161.8	-255.0	302.0	2.00	-2.00	0.00
4,600.0	8.55	302.39	4,573.9	165.1	-260.3	308.2	2.00	-2.00	0.00
4,640.0	7.75	302.39	4,613.5	168.1	-265.0	313.9	2.00	-2.00	0.00
4,680.0	6.95	302.39	4,653.2	170.9	-269.4	319.0	2.00	-2.00	0.00
4,720.0	6.15	302.39	4,692.9	173.3	-273.2	323.6	2.00	-2.00	0.00
4,760.0	5.35	302.39	4,732.7	175.5	-276.6	327.6	2.00	-2.00	0.00
4,800.0	4.55	302.39	4,772.6	177.3	-279.5	331.0	2.00	-2.00	0.00
4,840.0	3.75	302.39	4,812.5	178.9	-282.0	333.9	2.00	-2.00	0.00
4,880.0	2.95	302.39	4,852.4	180.1	-283.9	336.3	2.00	-2.00	0.00
4,920.0	2.15	302.39	4,892.4	181.1	-285.4	338.0	2.00	-2.00	0.00
4,960.0	1.35	302.39	4,932.3	181.7	-286.5	339.3	2.00	-2.00	0.00
5,000.0	0.55	302.39	4,972.3	182.1	-287.0	339.9	2.00	-2.00	0.00
5,027.7	0.00	0.00	5,000.0	182.2	-287.2	340.1	2.00	-2.00	0.00
5,040.0	0.00	0.00	5,012.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,080.0	0.00	0.00	5,052.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,120.0	0.00	0.00	5,092.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,160.0	0.00	0.00	5,132.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,172.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,240.0	0.00	0.00	5,212.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,280.0	0.00	0.00	5,252.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,320.0	0.00	0.00	5,292.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,360.0	0.00	0.00	5,332.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,372.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,440.0	0.00	0.00	5,412.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,480.0	0.00	0.00	5,452.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,520.0	0.00	0.00	5,492.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,560.0	0.00	0.00	5,532.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,572.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,640.0	0.00	0.00	5,612.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,680.0	0.00	0.00	5,652.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,720.0	0.00	0.00	5,692.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,760.0	0.00	0.00	5,732.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,772.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,840.0	0.00	0.00	5,812.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,880.0	0.00	0.00	5,852.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,920.0	0.00	0.00	5,892.3	182.2	-287.2	340.1	0.00	0.00	0.00
5,960.0	0.00	0.00	5,932.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,972.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,040.0	0.00	0.00	6,012.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,080.0	0.00	0.00	6,052.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,120.0	0.00	0.00	6,092.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,160.0	0.00	0.00	6,132.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,172.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,240.0	0.00	0.00	6,212.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,280.0	0.00	0.00	6,252.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,320.0	0.00	0.00	6,292.3	182.2	-287.2	340.1	0.00	0.00	0.00

Database: Landmark
 Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.12-T4N-R65W
 Site: Easton G12-30D Pad Sec.12-T4N-R65W
 Well: Easton G12-30D
 Wellbore: Wellbore #1
 Design: Noble Easton G12-30D Plan #1 (10-28-10)

Local Co-ordinate Reference: Well Easton G12-30D
 TVD Reference: WELL @ 4751.0ft (Original Well Elev)
 MD Reference: WELL @ 4751.0ft (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)
6,360.0	0.00	0.00	6,332.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,372.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,440.0	0.00	0.00	6,412.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,480.0	0.00	0.00	6,452.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,520.0	0.00	0.00	6,492.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,560.0	0.00	0.00	6,532.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,572.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,640.0	0.00	0.00	6,612.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,680.0	0.00	0.00	6,652.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,720.0	0.00	0.00	6,692.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,760.0	0.00	0.00	6,732.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,772.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,840.0	0.00	0.00	6,812.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,880.0	0.00	0.00	6,852.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,920.0	0.00	0.00	6,892.3	182.2	-287.2	340.1	0.00	0.00	0.00
6,960.0	0.00	0.00	6,932.3	182.2	-287.2	340.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,972.3	182.2	-287.2	340.1	0.00	0.00	0.00
7,040.0	0.00	0.00	7,012.3	182.2	-287.2	340.1	0.00	0.00	0.00
7,080.0	0.00	0.00	7,052.3	182.2	-287.2	340.1	0.00	0.00	0.00
7,120.0	0.00	0.00	7,092.3	182.2	-287.2	340.1	0.00	0.00	0.00
7,160.0	0.00	0.00	7,132.3	182.2	-287.2	340.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,172.3	182.2	-287.2	340.1	0.00	0.00	0.00
7,228.7	0.00	0.00	7,201.0	182.2	-287.2	340.1	0.00	0.00	0.00

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
TARGET BHL 75'FNL - plan hits target - Point	0.00	0.00	5,000.0	182.2	-287.2	1,365,746.95	3,245,133.98	40° 20' 2.544 N	104° 37' 14.448 W
HARD LINES 75'N & 'S - plan misses by 106.1ft at 7228.7ft MD (7201.0 TVD, 182.2 N, -287.2 E) - Polygon	0.00	0.00	7,201.0	257.2	-362.2	1,365,821.23	3,245,058.20	40° 20' 3.285 N	104° 37' 15.417 W
Point 1			7,201.0	0.0	0.0	1,365,821.23	3,245,058.20		
Point 2			7,201.0	-200.0	0.0	1,365,621.25	3,245,060.19		
Point 3			7,201.0	0.0	0.0	1,365,821.23	3,245,058.20		
Point 4			7,201.0	0.0	200.0	1,365,823.22	3,245,258.19		
TARGET CIRCLE 75' - plan hits target - Circle (radius 75.0)	0.00	0.00	6,736.0	182.2	-287.2	1,365,746.95	3,245,133.98	40° 20' 2.544 N	104° 37' 14.448 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
650.0	650.0	8 5/8"	8-5/8	12-1/4

Database: Landmark
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Wellbore: Wellbore #1
Design: Noble Easton G12-30D Plan #1 (10-28-10)

Local Co-ordinate Reference: Well Easton G12-30D
TVD Reference: WELL @ 4751.0ft (Original Well Elev)
MD Reference: WELL @ 4751.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,763.7	6,736.0	NIOBRARA		0.00	
7,078.7	7,051.0	CODELL		0.00	