

Bayswater Exploration & Production, LLC

Well Name: **Walton I-25HN**

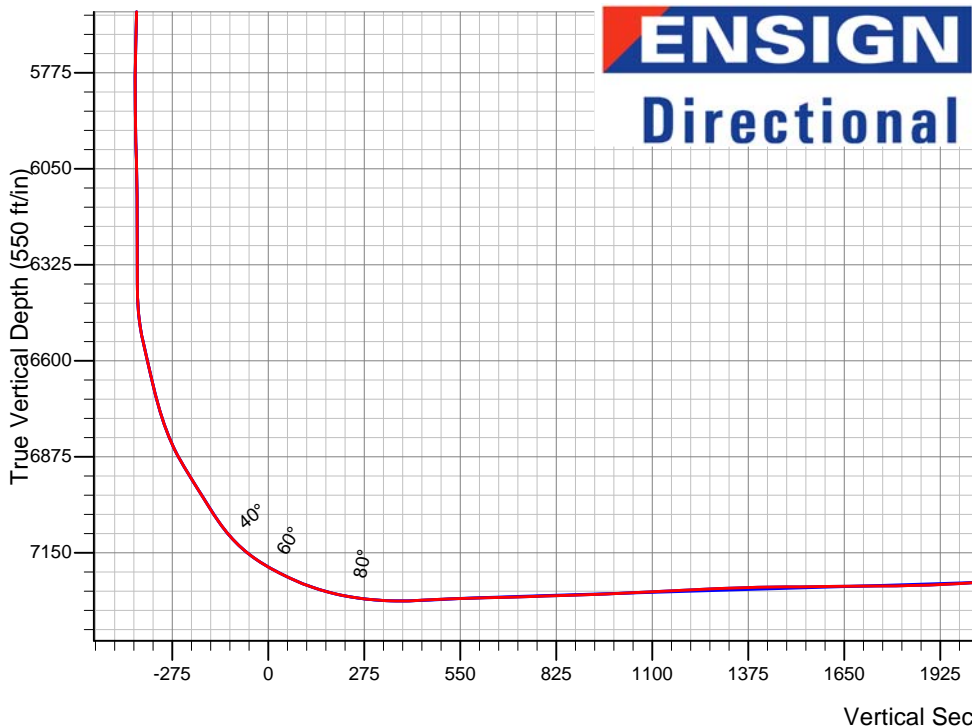
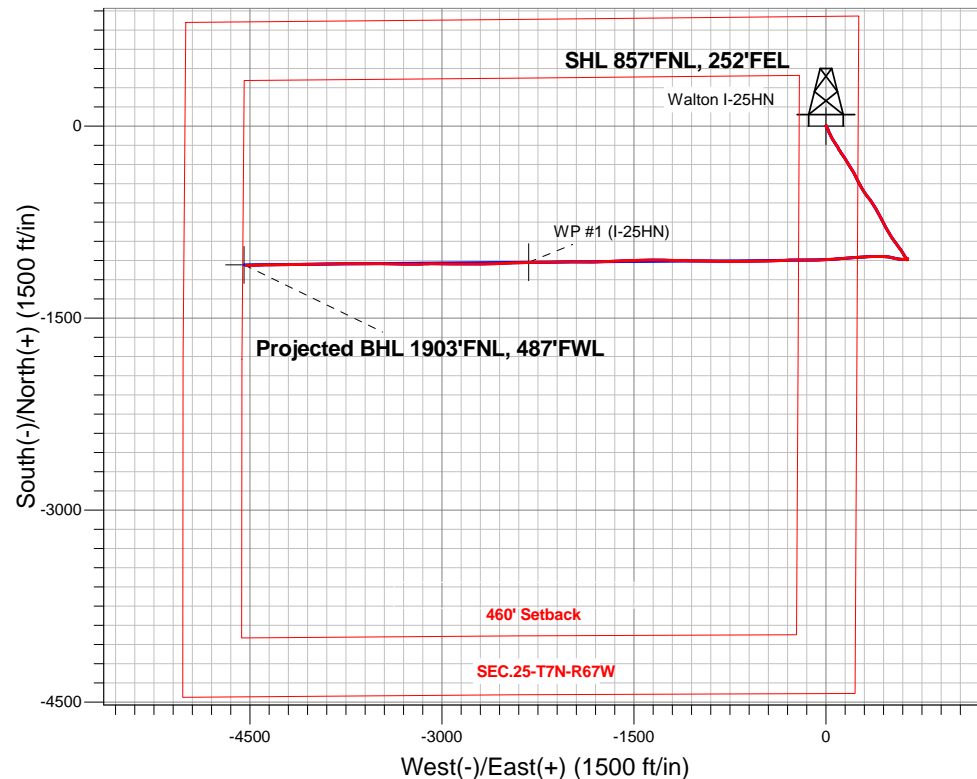
Surface Location: Walton 25D Pad Sec.25-T7N-R67W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4978.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1443956.04	3185386.85	40.550145	-104.832879	
RKB - 22.5' WELL @ 5000.5ft (RKB - 22.5')						

FINAL SURVEY

Projected Bottom Hole Location
12280'MD 7142'TVD 1089'S & 4530'W of SHL
91.7 degree Incl @ 268.3 degree AZM



ENSIGN
Directional

Walton 25D Pad Sec.25-T7N-R67W
Walton I-25HN
Wellbore #1
6:44, August 20 2015

ANNOTATIONS

No annotation data is available.

LEGEND

- Wellbore #1
- Walton I-25HN, Wellbore #1, Plan #5 (8-16-15) V0
- Survey #1



Bayswater Exploration & Production, LLC

SEC.25-T7N-R67W

Walton 25D Pad Sec.25-T7N-R67W

Walton I-25HN

Wellbore #1

Survey: Survey #1

Standard Survey Report

20 August, 2015



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Walton I-25HN
Project:	SEC.25-T7N-R67W	TVD Reference:	WELL @ 5000.5ft (RKB - 22.5')
Site:	Walton 25D Pad Sec.25-T7N-R67W	MD Reference:	WELL @ 5000.5ft (RKB - 22.5')
Well:	Walton I-25HN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMNEW

Project	SEC.25-T7N-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	Walton 25D Pad Sec.25-T7N-R67W		
Site Position:		Northing:	1,444,075.92 ft
From:	Lat/Long	Easting:	3,185,386.51 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.550474
		Longitude:	-104.832877
		Grid Convergence:	0.43 °

Well	Walton I-25HN		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.550145
		Longitude:	-104.832879
		Ground Level:	4,978.0 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	7/16/2015	8.36
			Dip Angle (°)
			67.02
			Field Strength (nT)
			52,771

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.0	0.0	0.0
			Direction (°)
			256.58

Survey Program	Date	8/20/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
222.0	12,280.0	Survey #1 (Wellbore #1)	MWD	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
1.0	0.00	38.60	1.0	0.0	0.0	0.0	0.23	0.23	0.00
SHL 857°FNL, 252°FEL									
222.0	0.50	38.60	222.0	0.8	0.6	-0.8	0.23	0.23	0.00
314.0	0.70	47.40	314.0	1.5	1.3	-1.6	0.24	0.22	9.57
406.0	0.70	45.80	406.0	2.2	2.1	-2.5	0.02	0.00	-1.74
498.0	0.10	1.30	498.0	2.7	2.5	-3.0	0.69	-0.65	-48.37
590.0	0.30	303.90	590.0	2.9	2.3	-2.9	0.28	0.22	-62.39
682.0	1.00	185.70	682.0	2.2	2.0	-2.5	1.27	0.76	-128.48
774.0	1.40	184.70	774.0	0.3	1.8	-1.9	0.44	0.43	-1.09
866.0	1.10	175.20	866.0	-1.7	1.8	-1.4	0.40	-0.33	-10.33
958.0	2.70	147.10	957.9	-4.4	3.1	-2.0	1.96	1.74	-30.54
1,049.0	5.30	149.30	1,048.7	-9.8	6.4	-3.9	2.86	2.86	2.42

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Well:	Walton I-25HN	North Reference:	True
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Design:	Wellbore #1	Database:	EDMNEW

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)
1,141.0	5.00	154.30	1,140.3	-17.1	10.3	-6.1	0.59	-0.33	5.43
1,233.0	6.90	153.60	1,231.8	-25.6	14.5	-8.1	2.07	2.07	-0.76
1,325.0	8.50	160.10	1,323.0	-37.0	19.3	-10.2	1.98	1.74	7.07
1,417.0	10.50	155.00	1,413.7	-51.0	25.1	-12.6	2.36	2.17	-5.54
1,493.0	11.50	153.90	1,488.3	-64.0	31.4	-15.7	1.34	1.32	-1.45
1,563.0	11.70	154.30	1,556.9	-76.7	37.5	-18.7	0.31	0.29	0.57
1,655.0	13.10	151.30	1,646.7	-94.2	46.6	-23.4	1.67	1.52	-3.26
1,747.0	13.20	147.20	1,736.3	-112.2	57.3	-29.7	1.02	0.11	-4.46
1,839.0	13.90	146.00	1,825.7	-130.2	69.1	-37.0	0.82	0.76	-1.30
1,931.0	15.00	148.60	1,914.8	-149.5	81.5	-44.6	1.39	1.20	2.83
2,022.0	15.80	150.20	2,002.6	-170.3	93.8	-51.7	1.00	0.88	1.76
2,114.0	17.10	148.10	2,090.8	-192.7	107.2	-59.5	1.55	1.41	-2.28
2,206.0	19.10	145.80	2,178.2	-216.6	122.8	-69.2	2.31	2.17	-2.50
2,298.0	18.70	145.70	2,265.3	-241.3	139.6	-79.8	0.44	-0.43	-0.11
2,390.0	19.10	146.70	2,352.3	-266.0	156.1	-90.1	0.56	0.43	1.09
2,483.0	19.20	150.40	2,440.2	-292.0	172.1	-99.6	1.31	0.11	3.98
2,577.0	18.90	147.10	2,529.0	-318.3	188.0	-109.0	1.19	-0.32	-3.51
2,670.0	19.20	148.50	2,616.9	-343.9	204.1	-118.7	0.59	0.32	1.51
2,764.0	20.00	151.60	2,705.5	-371.3	219.9	-127.7	1.40	0.85	3.30
2,858.0	21.00	154.10	2,793.5	-400.6	234.9	-135.5	1.41	1.06	2.66
2,952.0	21.00	153.20	2,881.3	-430.7	249.8	-143.0	0.34	0.00	-0.96
3,046.0	19.60	150.90	2,969.5	-459.6	265.1	-151.2	1.71	-1.49	-2.45
3,139.0	18.00	148.80	3,057.5	-485.5	280.1	-159.8	1.87	-1.72	-2.26
3,233.0	16.40	147.10	3,147.3	-509.0	294.8	-168.6	1.78	-1.70	-1.81
3,327.0	15.40	146.70	3,237.7	-530.6	308.9	-177.3	1.07	-1.06	-0.43
3,421.0	14.40	140.60	3,328.5	-550.1	323.2	-186.7	1.98	-1.06	-6.49
3,515.0	15.00	140.90	3,419.5	-568.6	338.3	-197.1	0.64	0.64	0.32
3,608.0	15.60	147.90	3,509.2	-588.5	352.5	-206.3	2.09	0.65	7.53
3,702.0	15.50	147.80	3,599.7	-609.8	365.9	-214.4	0.11	-0.11	-0.11
3,796.0	14.90	147.40	3,690.4	-630.6	379.1	-222.4	0.65	-0.64	-0.43
3,889.0	15.70	146.50	3,780.1	-651.2	392.5	-230.6	0.90	0.86	-0.97
3,984.0	18.20	152.90	3,871.0	-675.1	406.4	-238.6	3.28	2.63	6.74
4,077.0	19.10	151.80	3,959.1	-701.5	420.2	-245.9	1.04	0.97	-1.18
4,172.0	17.30	152.90	4,049.4	-727.8	433.9	-253.2	1.93	-1.89	1.16
4,266.0	17.90	152.20	4,139.0	-753.0	447.0	-260.1	0.68	0.64	-0.74
4,359.0	14.80	155.10	4,228.2	-776.4	458.7	-266.0	3.45	-3.33	3.12
4,453.0	15.50	150.80	4,318.9	-798.3	469.9	-271.8	1.41	0.74	-4.57
4,545.0	15.50	145.70	4,407.6	-819.1	482.8	-279.5	1.48	0.00	-5.54
4,640.0	16.00	147.60	4,499.0	-840.7	497.0	-288.3	0.76	0.53	2.00
4,734.0	16.80	146.20	4,589.2	-862.9	511.5	-297.2	0.95	0.85	-1.49
4,828.0	15.70	145.70	4,679.5	-884.7	526.2	-306.5	1.18	-1.17	-0.53
4,922.0	15.60	146.40	4,770.0	-905.7	540.4	-315.4	0.23	-0.11	0.74
5,016.0	16.00	146.00	4,860.4	-927.0	554.6	-324.3	0.44	0.43	-0.43
5,109.0	13.70	144.80	4,950.3	-946.6	568.1	-332.9	2.50	-2.47	-1.29
5,202.0	14.20	141.10	5,040.6	-964.5	581.6	-341.9	1.10	0.54	-3.98
5,298.0	15.60	147.80	5,133.3	-984.6	595.9	-351.1	2.31	1.46	6.98
5,392.0	11.90	152.30	5,224.6	-1,003.9	607.2	-357.6	4.09	-3.94	4.79
5,484.0	9.10	144.80	5,315.1	-1,018.2	615.8	-362.6	3.38	-3.04	-8.15
5,579.0	6.10	134.60	5,409.2	-1,027.9	623.7	-368.1	3.45	-3.16	-10.74
5,673.0	4.20	121.00	5,502.9	-1,033.2	630.2	-373.2	2.39	-2.02	-14.47
5,768.0	1.90	120.70	5,597.7	-1,035.8	634.5	-376.8	2.42	-2.42	-0.32
5,862.0	1.80	88.00	5,691.7	-1,036.5	637.4	-379.4	1.11	-0.11	-34.79
5,957.0	0.60	78.00	5,786.7	-1,036.4	639.3	-381.3	1.28	-1.26	-10.53
6,051.0	1.30	211.90	5,880.6	-1,037.2	639.3	-381.1	1.88	0.74	142.45

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Well:	Walton I-25HN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMNEW

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)
6,144.0	1.70	220.00	5,973.6	-1,039.1	637.8	-379.2	0.49	0.43	8.71
6,238.0	1.70	222.10	6,067.6	-1,041.2	636.0	-376.9	0.07	0.00	2.23
6,331.0	0.50	185.70	6,160.6	-1,042.7	635.0	-375.7	1.43	-1.29	-39.14
6,424.0	0.40	167.60	6,253.6	-1,043.4	635.0	-375.5	0.19	-0.11	-19.46
6,519.0	0.40	158.70	6,348.6	-1,044.0	635.2	-375.6	0.07	0.00	-9.37
6,613.0	3.40	280.80	6,442.5	-1,043.8	632.6	-373.1	3.86	3.19	129.89
6,707.0	12.40	272.60	6,535.5	-1,042.8	619.8	-360.8	9.63	9.57	-8.72
6,801.0	13.80	273.80	6,627.1	-1,041.6	598.5	-340.4	1.52	1.49	1.28
6,895.0	15.40	273.30	6,718.0	-1,040.2	574.8	-317.7	1.71	1.70	-0.53
6,989.0	23.60	283.80	6,806.6	-1,034.9	544.1	-289.0	9.45	8.72	11.17
7,083.0	32.40	281.50	6,889.5	-1,025.4	501.0	-249.3	9.43	9.36	-2.45
7,176.0	33.80	272.90	6,967.5	-1,019.1	450.7	-201.9	5.27	1.51	-9.25
7,270.0	32.80	268.90	7,046.0	-1,018.3	399.2	-151.9	2.57	-1.06	-4.26
7,363.0	44.70	268.20	7,118.4	-1,019.8	341.1	-95.1	12.80	12.80	-0.75
7,457.0	58.50	264.70	7,176.7	-1,024.6	267.8	-22.6	14.96	14.68	-3.72
7,550.0	64.80	265.70	7,220.8	-1,031.4	186.2	58.2	6.84	6.77	1.08
7,645.0	72.70	265.70	7,255.2	-1,038.0	98.0	145.6	8.32	8.32	0.00
7,738.0	81.00	268.00	7,276.4	-1,043.0	7.7	234.6	9.24	8.92	2.47
7,832.0	86.40	268.50	7,286.7	-1,045.8	-85.7	326.1	5.77	5.74	0.53
7,925.0	92.50	270.10	7,287.6	-1,047.0	-178.6	416.7	6.78	6.56	1.72
7,969.5	92.75	269.64	7,285.5	-1,047.1	-223.0	460.0	1.17	0.56	-1.03
LANDING PT. 1898'FNL, 470'FEL									
8,032.0	93.10	269.00	7,282.3	-1,047.8	-285.5	520.9	1.17	0.56	-1.03
8,126.0	90.60	267.10	7,279.3	-1,051.0	-379.4	613.0	3.34	-2.66	-2.02
8,219.0	91.80	268.30	7,277.4	-1,054.7	-472.3	704.2	1.82	1.29	1.29
8,313.0	92.10	269.40	7,274.2	-1,056.6	-566.2	796.0	1.21	0.32	1.17
8,406.0	91.90	269.90	7,270.9	-1,057.2	-659.1	886.5	0.58	-0.22	0.54
8,500.0	92.70	271.20	7,267.1	-1,056.3	-753.1	977.7	1.62	0.85	1.38
8,594.0	92.10	269.40	7,263.2	-1,055.8	-847.0	1,068.9	2.02	-0.64	-1.91
8,688.0	93.10	271.00	7,258.9	-1,055.5	-940.9	1,160.1	2.01	1.06	1.70
8,781.0	92.60	271.70	7,254.3	-1,053.3	-1,033.7	1,250.0	0.92	-0.54	0.75
8,874.0	92.10	271.20	7,250.5	-1,050.9	-1,126.6	1,339.8	0.76	-0.54	-0.54
8,968.0	90.40	271.30	7,248.5	-1,048.9	-1,220.6	1,430.7	1.81	-1.81	0.11
9,063.0	90.70	270.60	7,247.5	-1,047.3	-1,315.5	1,522.7	0.80	0.32	-0.74
9,157.0	90.90	269.00	7,246.2	-1,047.6	-1,409.5	1,614.2	1.72	0.21	-1.70
9,251.0	90.10	268.30	7,245.4	-1,049.8	-1,503.5	1,706.1	1.13	-0.85	-0.74
9,345.0	90.70	267.30	7,244.8	-1,053.4	-1,597.4	1,798.3	1.24	0.64	-1.06
9,440.0	92.20	267.50	7,242.4	-1,057.8	-1,692.3	1,891.6	1.59	1.58	0.21
9,535.0	93.10	268.70	7,238.0	-1,060.9	-1,787.1	1,984.6	1.58	0.95	1.26
9,630.0	92.40	270.10	7,233.4	-1,061.9	-1,882.0	2,077.1	1.65	-0.74	1.47
9,724.0	91.20	270.40	7,230.5	-1,061.5	-1,976.0	2,168.4	1.32	-1.28	0.32
9,819.0	90.00	268.90	7,229.5	-1,062.1	-2,071.0	2,260.9	2.02	-1.26	-1.58
9,913.0	92.10	269.90	7,227.7	-1,063.0	-2,164.9	2,352.6	2.47	2.23	1.06
10,008.0	91.10	268.50	7,225.1	-1,064.4	-2,259.9	2,445.2	1.81	-1.05	-1.47
10,070.2	91.37	268.30	7,223.7	-1,066.1	-2,322.1	2,506.1	0.54	0.43	-0.32
WP #1 (I-25HN)									
10,101.0	91.50	268.20	7,223.0	-1,067.1	-2,352.8	2,536.2	0.54	0.43	-0.32
10,195.0	90.90	268.30	7,221.0	-1,069.9	-2,446.8	2,628.3	0.65	-0.64	0.11
10,289.0	90.90	268.00	7,219.5	-1,073.0	-2,540.7	2,720.4	0.32	0.00	-0.32
10,383.0	91.60	267.80	7,217.5	-1,076.4	-2,634.6	2,812.5	0.77	0.74	-0.21
10,477.0	92.90	269.00	7,213.8	-1,079.0	-2,728.5	2,904.4	1.88	1.38	1.28
10,572.0	93.80	271.70	7,208.2	-1,078.4	-2,823.3	2,996.5	2.99	0.95	2.84
10,666.0	93.20	270.10	7,202.5	-1,077.0	-2,917.1	3,087.4	1.81	-0.64	-1.70
10,760.0	91.70	271.30	7,198.5	-1,075.8	-3,011.0	3,178.5	2.04	-1.60	1.28

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Survey

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10,855.0	90.20	267.50	7,196.9	-1,076.8	-3,106.0	3,271.1	4.30	-1.58	-4.00
10,949.0	90.20	269.90	7,196.6	-1,079.0	-3,200.0	3,363.0	2.55	0.00	2.55
11,044.0	92.10	270.60	7,194.7	-1,078.5	-3,294.9	3,455.3	2.13	2.00	0.74
11,138.0	92.40	270.80	7,191.0	-1,077.4	-3,388.9	3,546.4	0.38	0.32	0.21
11,233.0	92.60	270.40	7,186.8	-1,076.4	-3,483.8	3,638.5	0.47	0.21	-0.42
11,327.0	92.90	269.90	7,182.3	-1,076.2	-3,577.7	3,729.7	0.62	0.32	-0.53
11,422.0	93.20	269.70	7,177.3	-1,076.5	-3,672.5	3,822.1	0.38	0.32	-0.21
11,517.0	92.90	270.30	7,172.2	-1,076.5	-3,767.4	3,914.4	0.71	-0.32	0.63
11,610.0	92.80	269.00	7,167.6	-1,077.0	-3,860.3	4,004.8	1.40	-0.11	-1.40
11,705.0	92.00	268.50	7,163.6	-1,079.1	-3,955.2	4,097.6	0.99	-0.84	-0.53
11,799.0	92.20	269.20	7,160.2	-1,081.0	-4,049.1	4,189.4	0.77	0.21	0.74
11,894.0	92.40	269.20	7,156.4	-1,082.3	-4,144.0	4,282.0	0.21	0.21	0.00
11,989.0	93.00	269.20	7,151.9	-1,083.7	-4,238.9	4,374.6	0.63	0.63	0.00
12,083.0	91.70	269.60	7,148.0	-1,084.6	-4,332.8	4,466.2	1.45	-1.38	0.43
12,178.0	91.50	268.30	7,145.4	-1,086.4	-4,427.7	4,559.0	1.38	-0.21	-1.37
12,225.0	91.70	268.30	7,144.1	-1,087.8	-4,474.7	4,605.0	0.43	0.43	0.00
12,280.0	91.70	268.30	7,142.4	-1,089.4	-4,529.7	4,658.8	0.00	0.00	0.00

BHL 1898'FNL, 470'FWL

Design 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
SHL 857'FNL, 252'FE - survey hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,443,956.07	3,185,386.85	40.550145	-104.832879
BHL 1898'FNL, 470'F ¹ - survey misses target center by 19.1ft at 12280.0ft MD (7142.4 TVD, -1089.4 N, -4529.7 E) - Point	0.00	0.00	7,150.5	-1,084.9	-4,546.4	1,442,837.03	3,180,848.88	40.547166	-104.849238
WP #1 (I-25HN) - survey misses target center by 4.2ft at 10070.3ft MD (7223.7 TVD, -1066.1 N, -2322.1 E) - Point	0.00	0.00	7,220.5	-1,063.5	-2,322.1	1,442,875.14	3,183,072.89	40.547225	-104.841234

Checked By: _____ Approved By: _____ Date: _____