

Bayswater Exploration & Production, LLC

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

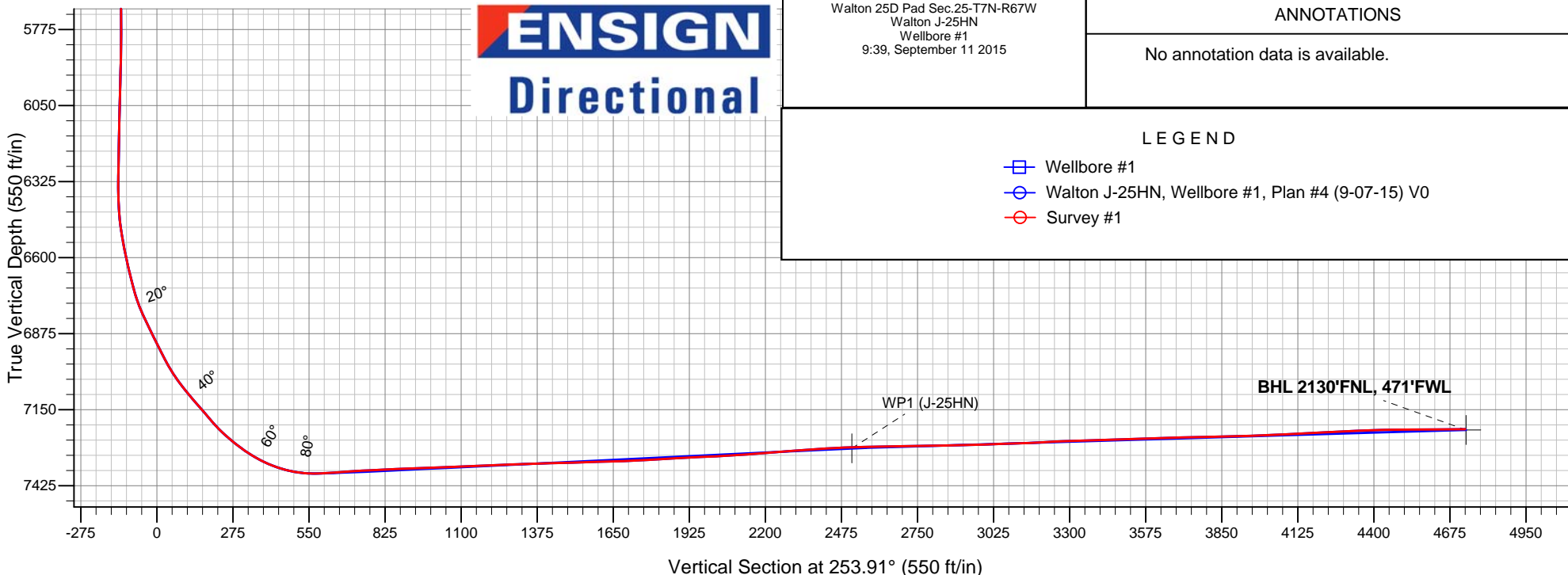
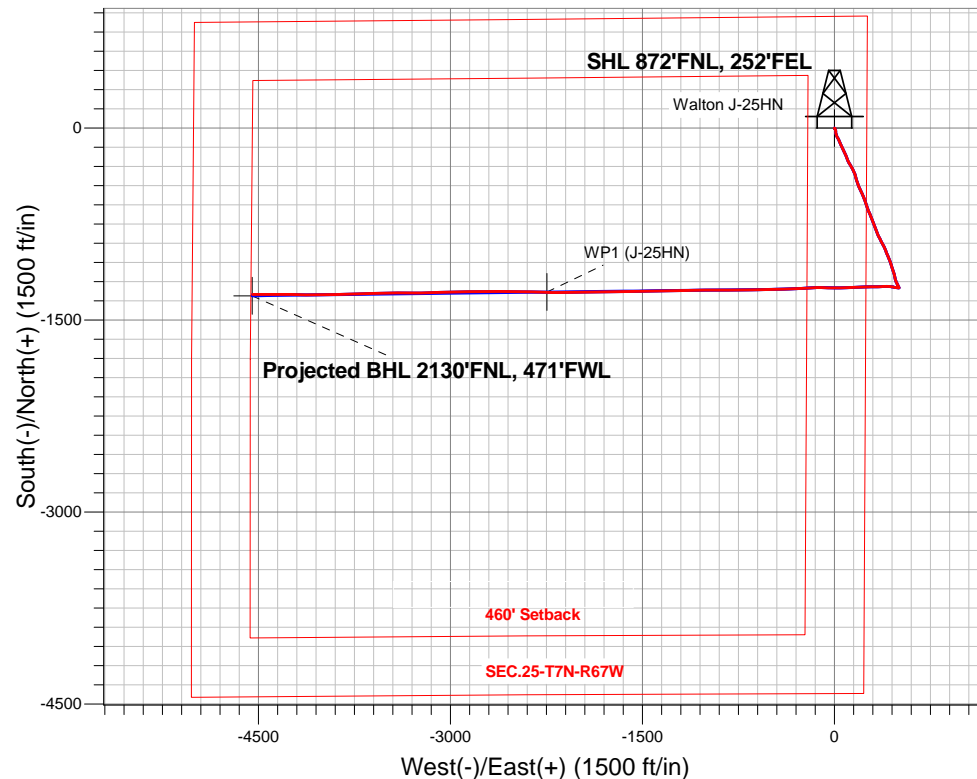
Surface Location: Walton 25D Pad Sec.25-T7N-R67W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4978.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1443940.75	3185386.69	40.550103	-104.832880	
RKB - 22.5' WELL @ 5000.5ft (RKB - 22.5')						

FINAL SURVEY

Projected Bottom Hole Location
12219'MD 7220'TVD 1301'S & 4548'W of SHL
90.7 degree Incl @ 269.8 degree AZM





Bayswater Exploration & Production, LLC

SEC.25-T7N-R67W

Walton 25D Pad Sec.25-T7N-R67W

Walton J-25HN

Wellbore #1

Survey: Survey #1

Standard Survey Report

11 September, 2015



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Walton J-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 J-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	Latitude:	40.550474
From:	Lat/Long	Easting:	3,185,386.51 ft	Longitude:	-104.832877
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.43 °

Well	Walton J-25HN					
Well Position	+N/-S	0.0 ft	Northing:	1,443,940.75 ft	Latitude:	40.550103
	+E/-W	0.0 ft	Easting:	3,185,386.69 ft	Longitude:	-104.832880
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,978.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/30/2015	8.37	67.02	52,776

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)	Direction (°)	
	0.0	0.0	0.0	253.91	

Survey Program	Date	9/11/2015			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
222.0	12,219.0	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	0.01	143.90	1.0	0.0	0.0	0.0	0.68	0.68	0.00	
SHL 872'FNL, 252'FEL										
222.0	1.50	143.90	222.0	-2.3	1.7	-1.0	0.68	0.68	0.00	
314.0	0.40	137.20	314.0	-3.6	2.6	-1.6	1.20	-1.20	-7.28	
406.0	0.30	171.50	406.0	-4.0	2.9	-1.7	0.25	-0.11	37.28	
498.0	0.40	170.10	498.0	-4.6	3.0	-1.6	0.11	0.11	-1.52	
590.0	0.20	150.60	590.0	-5.0	3.1	-1.6	0.24	-0.22	-21.20	
682.0	2.10	148.30	681.9	-6.6	4.1	-2.1	2.07	2.07	-2.50	
738.0	3.30	154.60	737.9	-8.9	5.3	-2.6	2.20	2.14	11.25	
819.0	4.20	159.50	818.7	-13.8	7.4	-3.2	1.18	1.11	6.05	
914.0	6.40	174.80	913.3	-22.4	9.1	-2.5	2.73	2.32	16.11	
1,009.0	8.40	176.60	1,007.5	-34.6	9.9	0.0	2.12	2.11	1.89	

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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)
1,103.0	9.80	165.70	1,100.3	-49.2	12.3	1.8	2.36	1.49	-11.60
1,195.0	9.80	152.50	1,191.0	-63.7	17.9	0.5	2.44	0.00	-14.35
1,287.0	9.70	149.20	1,281.7	-77.3	25.5	-3.0	0.62	-0.11	-3.59
1,379.0	10.80	156.90	1,372.2	-91.9	32.8	-6.1	1.91	1.20	8.37
1,470.0	12.50	156.00	1,461.3	-108.7	40.2	-8.5	1.88	1.87	-0.99
1,562.0	13.90	156.40	1,550.9	-128.0	48.6	-11.3	1.52	1.52	0.43
1,654.0	14.70	153.90	1,640.0	-148.6	58.2	-14.8	1.10	0.87	-2.72
1,746.0	15.10	155.90	1,728.9	-170.0	68.2	-18.5	0.71	0.43	2.17
1,838.0	14.90	156.00	1,817.8	-191.7	77.9	-21.8	0.22	-0.22	0.11
1,929.0	15.30	156.20	1,905.7	-213.4	87.5	-25.0	0.44	0.44	0.22
2,021.0	15.70	159.50	1,994.3	-236.2	96.8	-27.6	1.05	0.43	3.59
2,113.0	16.30	156.70	2,082.8	-259.7	106.3	-30.1	1.06	0.65	-3.04
2,205.0	14.30	148.30	2,171.5	-281.2	117.3	-34.8	3.24	-2.17	-9.13
2,297.0	13.90	147.40	2,260.7	-300.2	129.3	-41.0	0.50	-0.43	-0.98
2,389.0	14.20	153.20	2,350.0	-319.6	140.3	-46.3	1.56	0.33	6.30
2,481.0	14.60	152.90	2,439.1	-340.0	150.7	-50.6	0.44	0.43	-0.33
2,576.0	13.60	162.40	2,531.2	-361.3	159.5	-53.2	2.65	-1.05	10.00
2,669.0	16.60	165.30	2,621.0	-384.6	166.2	-53.1	3.33	3.23	3.12
2,763.0	17.00	164.10	2,711.0	-410.8	173.4	-52.8	0.56	0.43	-1.28
2,857.0	18.40	159.40	2,800.6	-437.9	182.3	-53.9	2.13	1.49	-5.00
2,951.0	19.70	156.90	2,889.4	-466.3	193.8	-57.0	1.63	1.38	-2.66
3,045.0	17.70	153.20	2,978.4	-493.7	206.4	-61.6	2.47	-2.13	-3.94
3,138.0	17.00	155.70	3,067.2	-518.7	218.4	-66.1	1.10	-0.75	2.69
3,232.0	16.40	158.80	3,157.3	-543.6	228.9	-69.3	1.14	-0.64	3.30
3,325.0	17.70	161.10	3,246.2	-569.2	238.2	-71.2	1.57	1.40	2.47
3,419.0	17.10	161.50	3,335.9	-595.8	247.2	-72.4	0.65	-0.64	0.43
3,514.0	16.40	159.90	3,426.8	-621.6	256.2	-74.0	0.88	-0.74	-1.68
3,607.0	16.50	159.50	3,516.0	-646.3	265.4	-75.9	0.16	0.11	-0.43
3,701.0	16.30	156.40	3,606.2	-670.9	275.3	-78.7	0.96	-0.21	-3.30
3,795.0	16.40	160.20	3,696.4	-695.5	285.1	-81.2	1.14	0.11	4.04
3,888.0	15.40	156.90	3,785.8	-719.2	294.4	-83.6	1.45	-1.08	-3.55
3,982.0	17.30	158.50	3,876.0	-743.7	304.4	-86.4	2.08	2.02	1.70
4,076.0	17.90	159.20	3,965.6	-770.2	314.7	-89.0	0.68	0.64	0.74
4,170.0	18.30	158.70	4,055.0	-797.5	325.2	-91.5	0.46	0.43	-0.53
4,265.0	18.50	157.60	4,145.1	-825.3	336.3	-94.5	0.42	0.21	-1.16
4,358.0	16.90	155.70	4,233.7	-851.3	347.5	-98.0	1.83	-1.72	-2.04
4,451.0	14.50	154.40	4,323.3	-874.1	358.1	-101.9	2.61	-2.58	-1.40
4,544.0	14.30	151.30	4,413.3	-894.7	368.7	-106.3	0.86	-0.22	-3.33
4,638.0	12.80	148.60	4,504.7	-913.7	379.7	-111.6	1.73	-1.60	-2.87
4,732.0	13.90	158.10	4,596.2	-933.1	389.3	-115.5	2.61	1.17	10.11
4,826.0	14.90	157.80	4,687.2	-954.8	398.1	-118.0	1.07	1.06	-0.32
4,920.0	12.40	158.10	4,778.6	-975.3	406.4	-120.3	2.66	-2.66	0.32
5,015.0	12.50	156.00	4,871.3	-994.2	414.4	-122.7	0.49	0.11	-2.21
5,108.0	13.10	157.40	4,962.0	-1,013.1	422.5	-125.3	0.73	0.65	1.51
5,201.0	14.10	158.10	5,052.4	-1,033.4	430.8	-127.6	1.09	1.08	0.75
5,296.0	14.20	161.70	5,144.5	-1,055.2	438.8	-129.3	0.93	0.11	3.79
5,390.0	12.80	164.30	5,235.9	-1,076.1	445.2	-129.6	1.62	-1.49	2.77
5,483.0	11.80	160.10	5,326.8	-1,095.0	451.2	-130.2	1.44	-1.08	-4.52
5,577.0	11.80	163.60	5,418.8	-1,113.2	457.2	-130.9	0.76	0.00	3.72
5,672.0	12.00	164.30	5,511.8	-1,132.1	462.6	-130.9	0.26	0.21	0.74
5,766.0	11.40	162.70	5,603.8	-1,150.3	468.1	-131.0	0.73	-0.64	-1.70
5,860.0	11.20	171.70	5,696.0	-1,168.2	472.1	-130.0	1.89	-0.21	9.57
5,955.0	12.10	161.70	5,789.1	-1,186.8	476.6	-129.1	2.32	0.95	-10.53
6,049.0	10.90	158.80	5,881.2	-1,204.5	482.9	-130.3	1.42	-1.28	-3.09

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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)
6,142.0	9.30	153.00	5,972.7	-1,219.4	489.5	-132.5	2.04	-1.72	-6.24
6,236.0	7.00	154.10	6,065.8	-1,231.3	495.4	-134.9	2.45	-2.45	1.17
6,329.0	5.70	151.60	6,158.2	-1,240.5	500.1	-136.8	1.43	-1.40	-2.69
6,422.0	3.10	141.80	6,250.9	-1,246.5	503.9	-138.8	2.90	-2.80	-10.54
6,518.0	0.50	176.20	6,346.9	-1,248.9	505.5	-139.7	2.81	-2.71	35.83
6,612.0	4.40	273.40	6,440.8	-1,249.1	501.9	-136.2	4.78	4.15	103.40
6,705.0	11.40	277.80	6,532.8	-1,247.7	489.2	-124.4	7.55	7.53	4.73
6,799.0	13.60	279.40	6,624.6	-1,244.6	469.1	-105.9	2.37	2.34	1.70
6,893.0	17.00	280.80	6,715.3	-1,240.2	444.7	-83.7	3.64	3.62	1.49
6,987.0	25.20	270.30	6,802.9	-1,237.6	411.2	-52.2	9.57	8.72	-11.17
7,081.0	27.30	266.90	6,887.2	-1,238.6	369.6	-12.0	2.75	2.23	-3.62
7,174.0	27.90	268.50	6,969.6	-1,240.3	326.6	29.9	1.03	0.65	1.72
7,268.0	37.50	269.60	7,048.6	-1,241.1	275.8	78.8	10.23	10.21	1.17
7,362.0	41.90	268.50	7,120.9	-1,242.1	215.8	136.8	4.74	4.68	-1.17
7,455.0	41.30	266.20	7,190.5	-1,245.0	154.2	196.8	1.76	-0.65	-2.47
7,549.0	50.60	268.00	7,255.8	-1,248.3	86.8	262.5	9.99	9.89	1.91
7,642.0	58.10	271.00	7,310.0	-1,248.9	11.3	335.2	8.48	8.06	3.23
7,736.0	69.40	271.90	7,351.5	-1,246.7	-72.9	415.5	12.05	12.02	0.96
7,830.0	80.50	267.50	7,375.8	-1,247.3	-163.5	502.7	12.64	11.81	-4.68
7,860.0	85.60	266.80	7,379.5	-1,248.8	-193.2	531.7	17.16	17.00	-2.33
7,892.6	89.31	266.48	7,380.9	-1,250.7	-225.7	563.4	11.43	11.39	-0.97
LANDING PT. 2140'FNL, 470'FEL									
7,932.0	93.80	266.10	7,379.9	-1,253.2	-265.0	601.9	11.43	11.39	-0.97
8,007.0	94.00	267.30	7,374.7	-1,257.5	-339.7	674.8	1.62	0.27	1.60
8,102.0	92.40	268.90	7,369.4	-1,260.7	-434.5	766.8	2.38	-1.68	1.68
8,198.0	93.00	269.10	7,364.9	-1,262.3	-530.4	859.4	0.66	0.63	0.21
8,293.0	91.50	269.20	7,361.2	-1,263.7	-625.3	951.0	1.58	-1.58	0.11
8,389.0	92.00	269.40	7,358.3	-1,264.9	-721.3	1,043.5	0.56	0.52	0.21
8,484.0	93.00	269.80	7,354.1	-1,265.6	-816.2	1,134.9	1.13	1.05	0.42
8,579.0	92.20	269.90	7,349.8	-1,265.8	-911.1	1,226.1	0.85	-0.84	0.11
8,675.0	91.40	269.10	7,346.8	-1,266.7	-1,007.0	1,318.5	1.18	-0.83	-0.83
8,770.0	91.60	269.10	7,344.3	-1,268.2	-1,102.0	1,410.2	0.21	0.21	0.00
8,866.0	92.00	268.70	7,341.3	-1,270.0	-1,197.9	1,502.9	0.59	0.42	-0.42
8,961.0	91.50	268.20	7,338.4	-1,272.6	-1,292.8	1,594.8	0.74	-0.53	-0.53
9,056.0	91.70	270.10	7,335.7	-1,274.0	-1,387.8	1,686.4	2.01	0.21	2.00
9,152.0	93.40	269.40	7,331.5	-1,274.4	-1,483.7	1,778.7	1.91	1.77	-0.73
9,247.0	93.10	269.10	7,326.1	-1,275.6	-1,578.5	1,870.2	0.45	-0.32	-0.32
9,343.0	92.90	269.10	7,321.1	-1,277.1	-1,674.4	1,962.7	0.21	-0.21	0.00
9,439.0	93.10	268.50	7,316.0	-1,279.2	-1,770.2	2,055.3	0.66	0.21	-0.63
9,534.0	93.50	267.80	7,310.6	-1,282.2	-1,865.0	2,147.3	0.85	0.42	-0.74
9,628.0	94.70	270.10	7,303.8	-1,283.9	-1,958.7	2,237.8	2.75	1.28	2.45
9,724.0	94.20	269.20	7,296.4	-1,284.5	-2,054.4	2,329.9	1.07	-0.52	-0.94
9,819.0	93.30	269.90	7,290.2	-1,285.3	-2,149.2	2,421.2	1.20	-0.95	0.74
9,915.0	91.70	271.50	7,286.0	-1,284.1	-2,245.1	2,513.0	2.36	-1.67	1.67
9,915.3	91.70	271.50	7,286.0	-1,284.1	-2,245.5	2,513.3	0.00	0.00	0.00
WP1 (J-25HN)									
10,010.0	91.30	271.50	7,283.5	-1,281.6	-2,340.1	2,603.6	0.42	-0.42	0.00
10,106.0	90.70	271.20	7,281.8	-1,279.3	-2,436.0	2,695.1	0.70	-0.63	-0.31
10,201.0	91.20	270.50	7,280.3	-1,277.9	-2,531.0	2,786.0	0.91	0.53	-0.74
10,296.0	90.60	270.50	7,278.8	-1,277.1	-2,626.0	2,877.0	0.63	-0.63	0.00
10,391.0	92.10	269.60	7,276.5	-1,277.0	-2,721.0	2,968.3	1.84	1.58	-0.95
10,487.0	91.60	268.20	7,273.4	-1,278.9	-2,816.9	3,060.9	1.55	-0.52	-1.46
10,582.0	92.20	269.20	7,270.3	-1,281.0	-2,911.8	3,152.7	1.23	0.63	1.05
10,678.0	93.60	269.60	7,265.4	-1,282.0	-3,007.7	3,245.1	1.52	1.46	0.42

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10,773.0	91.00	268.20	7,261.6	-1,283.8	-3,102.6	3,336.8	3.11	-2.74	-1.47
10,868.0	91.50	267.80	7,259.5	-1,287.2	-3,197.5	3,428.9	0.67	0.53	-0.42
10,964.0	92.50	269.80	7,256.2	-1,289.2	-3,293.4	3,521.7	2.33	1.04	2.08
11,059.0	91.70	270.30	7,252.7	-1,289.1	-3,388.3	3,612.9	0.99	-0.84	0.53
11,155.0	91.00	269.20	7,250.4	-1,289.5	-3,484.3	3,705.2	1.36	-0.73	-1.15
11,250.0	91.40	268.90	7,248.5	-1,291.1	-3,579.3	3,796.9	0.53	0.42	-0.32
11,345.0	91.20	268.20	7,246.3	-1,293.5	-3,674.2	3,888.8	0.77	-0.21	-0.74
11,441.0	92.30	267.60	7,243.4	-1,297.0	-3,770.1	3,981.9	1.31	1.15	-0.63
11,537.0	92.50	268.50	7,239.3	-1,300.3	-3,866.0	4,074.9	0.96	0.21	0.94
11,632.0	93.00	268.70	7,234.8	-1,302.6	-3,960.8	4,166.7	0.57	0.53	0.21
11,728.0	92.10	270.50	7,230.5	-1,303.3	-4,056.7	4,259.0	2.09	-0.94	1.88
11,823.0	93.10	271.20	7,226.2	-1,301.8	-4,151.6	4,349.8	1.28	1.05	0.74
11,919.0	90.90	269.80	7,222.9	-1,301.0	-4,247.6	4,441.7	2.72	-2.29	-1.46
12,014.0	90.00	270.10	7,222.1	-1,301.1	-4,342.5	4,533.0	1.00	-0.95	0.32
12,109.0	90.50	270.10	7,221.7	-1,300.9	-4,437.5	4,624.3	0.53	0.53	0.00
12,161.0	90.70	269.80	7,221.2	-1,301.0	-4,489.5	4,674.2	0.69	0.38	-0.58
12,219.0	90.70	269.80	7,220.4	-1,301.2	-4,547.5	4,730.0	0.00	0.00	0.00

BHL 2140'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 872'FNL, 252'FE - survey hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,443,940.76	3,185,386.69	40.550103	-104.832880
BHL 2140'FNL, 470'F ¹ - survey misses target center by 10.6ft at 12219.0ft MD (7220.4 TVD, -1301.2 N, -4547.5 E) - Point	0.00	0.00	7,223.0	-1,311.5	-4,548.1	1,442,595.12	3,180,848.71	40.546502	-104.849245
WP1 (J-25HN) - survey misses target center by 5.1ft at 9915.3ft MD (7286.0 TVD, -1284.1 N, -2245.5 E) - Point	0.00	0.00	7,290.0	-1,281.0	-2,245.5	1,442,642.93	3,183,150.96	40.546587	-104.840960

Checked By: _____ Approved By: _____ Date: _____