

Bayswater Exploration & Production, LLC

Well Name: **Mojack J-28HN**

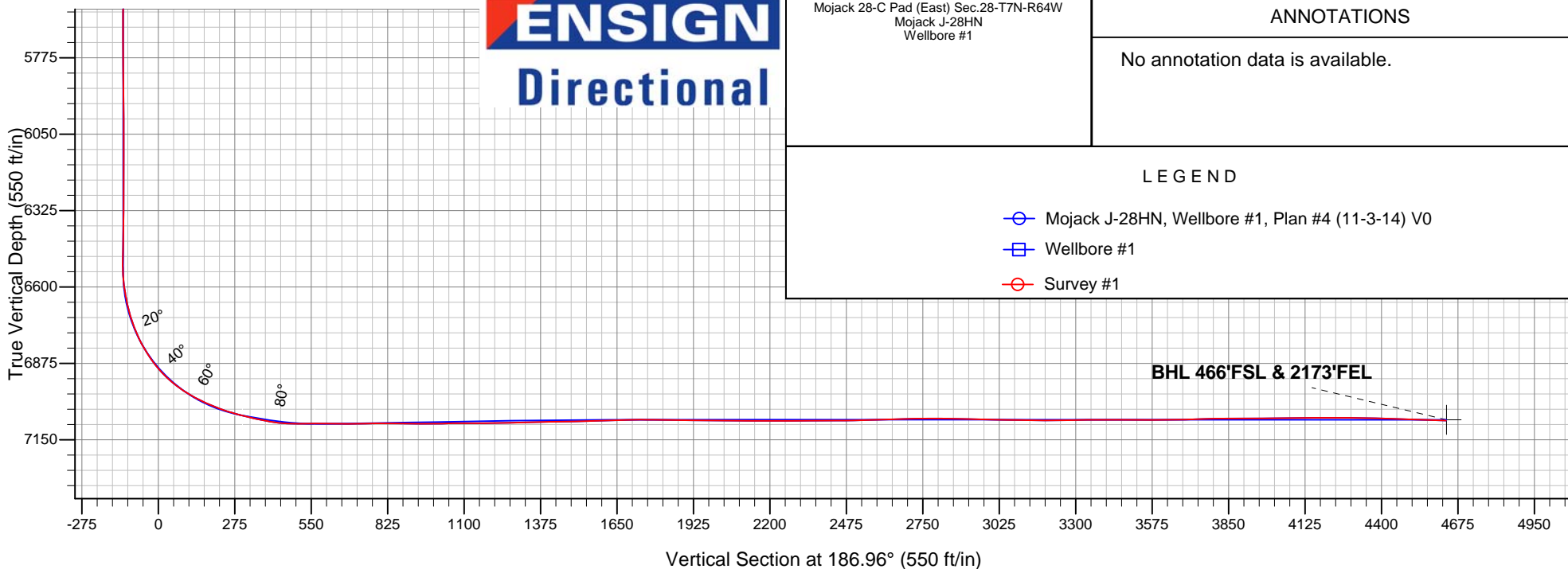
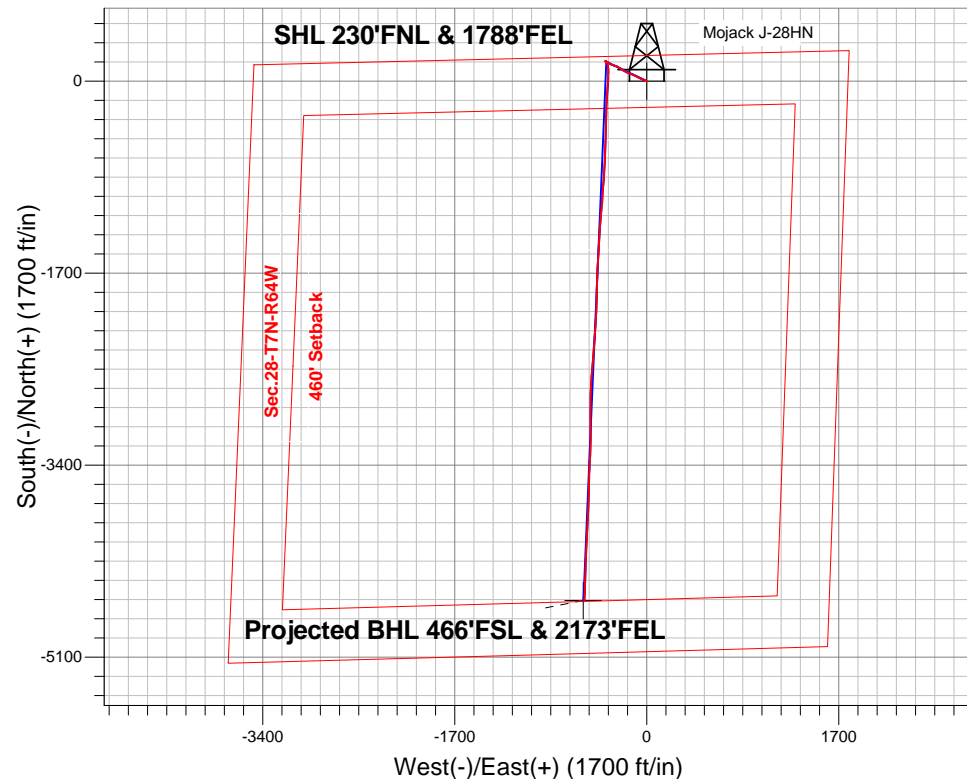
Surface Location: Mojack 28-C Pad (East) Sec.28-T7N-R64W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4899.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1444862.89	3263539.60	40.550680	-104.551627	
RKB - 22.5' WELL @ 4921.5ft (RKB - 22.5')						

FINAL SURVEY

Projected Bottom Hole Location
11650'MD 7081'TVD 4599'S & 552'W of SHL
88.4 degree Incl @ 182.0 degree AZM





Bayswater Exploration & Production, LLC

SEC.28-T7N-R64W

Mojack 28-C Pad (East) Sec.28-T7N-R64W

Mojack J-28HN

Wellbore #1

Survey: Survey #1

Standard Survey Report

08 December, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Mojack J-28HN
Project:	SEC.28-T7N-R64W	TVD Reference:	WELL @ 4921.5ft (RKB - 22.5')
Site:	Mojack 28-C Pad (East) Sec.28-T7N-R64W	MD Reference:	WELL @ 4921.5ft (RKB - 22.5')
Well:	Mojack J-28HN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.28-T7N-R64W, 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	Mojack 28-C Pad (East) Sec.28-T7N-R64W		
Site Position:		Northing:	1,444,862.34 ft
From:	Lat/Long	Easting:	3,263,521.54 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.550679
		Longitude:	-104.551692
		Grid Convergence:	0.61 °

Well	Mojack J-28HN		
Well Position	+N/-S	0.0 ft	Northing: 1,444,862.89 ft
	+E/-W	0.0 ft	Easting: 3,263,539.60 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.550680
		Longitude:	-104.551627
		Ground Level:	4,899.0 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	11/3/2014	8.30
			Dip Angle (°) 67.09
			Field Strength (nT) 52,874

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 (°) 186.96

Survey Program	Date	12/8/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
128.0	11,650.0	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	89.70	1.0	0.0	0.0	0.0	0.55	0.55	0.00	
SHL 230'FNL & 1788'FEL										
128.0	0.70	89.70	128.0	0.0	0.8	-0.1	0.55	0.55	0.00	
220.0	0.80	85.50	220.0	0.1	2.0	-0.3	0.12	0.11	-4.57	
312.0	0.40	282.20	312.0	0.2	2.3	-0.5	1.29	-0.43	-177.50	
404.0	0.30	292.70	404.0	0.3	1.8	-0.5	0.13	-0.11	11.41	
496.0	0.40	309.10	496.0	0.6	1.3	-0.8	0.15	0.11	17.83	
589.0	0.30	323.10	589.0	1.0	0.9	-1.1	0.14	-0.11	15.05	
681.0	0.50	236.80	681.0	1.0	0.4	-1.0	0.62	0.22	-93.80	
742.0	0.40	228.90	742.0	0.7	0.0	-0.7	0.19	-0.16	-12.95	
827.0	0.40	269.20	827.0	0.5	-0.5	-0.5	0.32	0.00	47.41	
923.0	0.70	256.20	923.0	0.4	-1.4	-0.2	0.34	0.31	-13.54	

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Design:	Wellbore #1	Database:	Landmark

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)
1,015.0	1.20	6.40	1,015.0	1.2	-1.8	-1.0	1.72	0.54	119.78
1,107.0	0.70	142.40	1,107.0	1.7	-1.4	-1.5	1.93	-0.54	147.83
1,199.0	0.70	289.20	1,199.0	1.4	-1.6	-1.3	1.46	0.00	159.57
1,291.0	2.40	285.50	1,290.9	2.1	-3.9	-1.7	1.85	1.85	-4.02
1,383.0	4.00	279.90	1,382.8	3.2	-9.0	-2.1	1.77	1.74	-6.09
1,475.0	6.10	288.70	1,474.4	5.3	-16.8	-3.3	2.43	2.28	9.57
1,568.0	8.40	298.90	1,566.7	10.2	-27.4	-6.8	2.82	2.47	10.97
1,660.0	8.40	295.20	1,657.7	16.3	-39.3	-11.4	0.59	0.00	-4.02
1,752.0	8.20	289.70	1,748.7	21.4	-51.6	-15.0	0.89	-0.22	-5.98
1,844.0	8.10	295.90	1,839.8	26.4	-63.6	-18.5	0.96	-0.11	6.74
1,936.0	7.90	300.10	1,930.9	32.4	-74.9	-23.1	0.67	-0.22	4.57
2,028.0	7.30	293.10	2,022.1	37.9	-85.8	-27.2	1.20	-0.65	-7.61
2,121.0	7.80	297.80	2,114.3	43.2	-96.8	-31.1	0.85	0.54	5.05
2,213.0	8.80	296.80	2,205.3	49.2	-108.6	-35.7	1.10	1.09	-1.09
2,305.0	8.20	292.20	2,296.3	54.9	-120.9	-39.8	0.99	-0.65	-5.00
2,400.0	8.80	293.10	2,390.3	60.3	-133.9	-43.6	0.65	0.63	0.95
2,495.0	8.60	288.50	2,484.2	65.4	-147.3	-47.1	0.76	-0.21	-4.84
2,591.0	8.30	295.50	2,579.1	70.7	-160.4	-50.7	1.12	-0.31	7.29
2,686.0	7.40	292.00	2,673.2	75.9	-172.2	-54.5	1.07	-0.95	-3.68
2,781.0	7.70	299.60	2,767.4	81.3	-183.4	-58.5	1.10	0.32	8.00
2,876.0	7.60	295.50	2,861.6	87.2	-194.6	-63.0	0.58	-0.11	-4.32
2,972.0	7.80	302.00	2,956.7	93.4	-205.9	-67.8	0.93	0.21	6.77
3,067.0	8.30	304.30	3,050.8	100.7	-217.0	-73.6	0.63	0.53	2.42
3,162.0	8.30	302.70	3,144.8	108.2	-228.5	-79.8	0.24	0.00	-1.68
3,257.0	7.80	301.90	3,238.8	115.3	-239.7	-85.5	0.54	-0.53	-0.84
3,353.0	7.40	300.60	3,334.0	121.9	-250.6	-90.7	0.45	-0.42	-1.35
3,448.0	6.90	298.50	3,428.3	127.8	-260.8	-95.2	0.59	-0.53	-2.21
3,543.0	5.50	293.10	3,522.7	132.3	-270.0	-98.6	1.59	-1.47	-5.68
3,638.0	5.90	285.50	3,617.2	135.4	-278.9	-100.6	0.90	0.42	-8.00
3,733.0	5.80	280.90	3,711.7	137.6	-288.4	-101.6	0.50	-0.11	-4.84
3,829.0	5.90	293.40	3,807.2	140.5	-297.7	-103.4	1.33	0.10	13.02
3,924.0	5.40	286.20	3,901.8	143.6	-306.4	-105.5	0.91	-0.53	-7.58
4,019.0	5.90	302.90	3,996.3	147.5	-314.8	-108.3	1.80	0.53	17.58
4,114.0	6.40	301.20	4,090.8	152.9	-323.4	-112.6	0.56	0.53	-1.79
4,209.0	6.60	302.40	4,185.2	158.6	-332.6	-117.2	0.25	0.21	1.26
4,305.0	6.90	300.40	4,280.5	164.5	-342.2	-121.8	0.40	0.31	-2.08
4,400.0	5.20	302.40	4,375.0	169.7	-350.8	-125.9	1.80	-1.79	2.11
4,495.0	4.80	293.20	4,469.6	173.5	-358.1	-128.9	0.94	-0.42	-9.68
4,591.0	2.70	261.20	4,565.4	174.8	-364.0	-129.4	3.01	-2.19	-33.33
4,686.0	0.90	273.90	4,660.4	174.5	-366.9	-128.8	1.93	-1.89	13.37
4,781.0	1.20	85.60	4,755.4	174.6	-366.7	-128.9	2.20	0.32	180.74
4,876.0	0.50	70.90	4,850.3	174.8	-365.3	-129.3	0.77	-0.74	-15.47
4,971.0	0.20	137.10	4,945.3	174.8	-364.8	-129.4	0.48	-0.32	69.68
5,067.0	0.70	206.90	5,041.3	174.2	-365.0	-128.7	0.69	0.52	72.71
5,162.0	1.10	162.50	5,136.3	172.8	-365.0	-127.3	0.82	0.42	-46.74
5,257.0	0.60	84.80	5,231.3	172.0	-364.2	-126.6	1.19	-0.53	-81.79
5,352.0	0.70	94.60	5,326.3	172.0	-363.1	-126.7	0.16	0.11	10.32
5,447.0	0.90	103.90	5,421.3	171.8	-361.8	-126.7	0.25	0.21	9.79
5,542.0	0.40	81.40	5,516.3	171.6	-360.8	-126.7	0.58	-0.53	-23.68
5,638.0	0.10	312.20	5,612.3	171.7	-360.5	-126.8	0.49	-0.31	-134.58
5,733.0	0.40	275.50	5,707.3	171.8	-360.9	-126.9	0.34	0.32	-38.63
5,828.0	0.80	163.90	5,802.3	171.2	-361.0	-126.2	1.07	0.42	-117.47
5,924.0	0.50	142.40	5,898.3	170.2	-360.6	-125.3	0.40	-0.31	-22.40
6,019.0	0.50	156.00	5,993.3	169.5	-360.2	-124.7	0.12	0.00	14.32

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Well:	Mojack J-28HN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

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)
6,114.0	0.40	359.70	6,088.3	169.5	-360.0	-124.6	0.93	-0.11	-164.53
6,209.0	0.30	157.40	6,183.3	169.6	-359.9	-124.8	0.72	-0.11	166.00
6,304.0	0.50	94.30	6,278.3	169.3	-359.4	-124.6	0.48	0.21	-66.42
6,400.0	1.40	54.00	6,374.3	170.0	-358.0	-125.4	1.11	0.94	-41.98
6,495.0	1.20	17.60	6,469.2	171.6	-356.8	-127.2	0.88	-0.21	-38.32
6,542.0	0.80	49.10	6,516.2	172.3	-356.4	-127.9	1.42	-0.85	67.02
6,590.0	4.90	159.30	6,564.2	170.6	-355.4	-126.3	10.90	8.54	229.58
6,637.0	9.50	160.20	6,610.8	165.1	-353.4	-121.1	9.79	9.79	1.91
6,685.0	13.60	160.50	6,657.8	156.0	-350.2	-112.5	8.54	8.54	0.63
6,732.0	17.80	163.90	6,703.1	143.9	-346.3	-100.9	9.14	8.94	7.23
6,781.0	21.90	170.70	6,749.1	127.7	-342.8	-85.2	9.59	8.37	13.88
6,828.0	26.80	175.50	6,791.9	108.5	-340.5	-66.4	11.24	10.43	10.21
6,876.0	31.80	180.40	6,833.8	85.0	-339.8	-43.2	11.54	10.42	10.21
6,923.0	37.30	182.00	6,872.5	58.4	-340.3	-16.7	11.86	11.70	3.40
6,971.0	43.20	182.10	6,909.1	27.4	-341.4	14.2	12.29	12.29	0.21
7,018.0	49.40	182.70	6,941.6	-6.5	-342.9	48.0	13.22	13.19	1.28
7,066.0	56.00	184.30	6,970.6	-44.6	-345.2	86.1	14.00	13.75	3.33
7,113.0	61.70	184.40	6,994.9	-84.7	-348.3	126.3	12.13	12.13	0.21
7,161.0	65.10	183.70	7,016.4	-127.5	-351.3	169.1	7.20	7.08	-1.46
7,208.0	68.80	182.90	7,034.8	-170.7	-353.8	212.3	8.03	7.87	-1.70
7,256.0	73.00	182.10	7,050.5	-216.0	-355.8	257.5	8.89	8.75	-1.67
7,270.0	74.70	182.00	7,054.4	-229.4	-356.2	270.9	12.16	12.14	-0.71
7,372.0	78.10	181.30	7,078.4	-328.5	-359.1	369.6	3.40	3.33	-0.69
7,419.0	81.30	181.40	7,086.8	-374.7	-360.2	415.6	6.81	6.81	0.21
7,467.0	87.70	182.10	7,091.4	-422.5	-361.6	463.2	13.41	13.33	1.46
7,514.0	90.20	182.50	7,092.3	-469.4	-363.5	510.0	5.39	5.32	0.85
7,561.0	90.30	182.30	7,092.1	-516.4	-365.5	556.8	0.48	0.21	-0.43
7,566.0	90.24	182.25	7,092.0	-521.4	-365.7	561.9	1.66	-1.28	-1.06
Landing Pt. (J-28HN)									
7,655.0	89.10	181.30	7,092.6	-610.3	-368.5	650.5	1.66	-1.28	-1.06
7,750.0	91.70	182.30	7,091.9	-705.3	-371.4	745.1	2.93	2.74	1.05
7,845.0	89.30	183.20	7,091.1	-800.2	-376.0	839.8	2.70	-2.53	0.95
7,939.0	89.30	184.60	7,092.2	-893.9	-382.4	933.7	1.49	0.00	1.49
8,033.0	91.50	184.10	7,091.6	-987.6	-389.5	1,027.6	2.40	2.34	-0.53
8,127.0	89.50	183.90	7,090.7	-1,081.4	-396.1	1,121.4	2.14	-2.13	-0.21
8,222.0	91.30	185.10	7,090.1	-1,176.1	-403.5	1,216.3	2.28	1.89	1.26
8,316.0	91.70	185.30	7,087.6	-1,269.7	-412.0	1,310.2	0.48	0.43	0.21
8,411.0	90.60	183.40	7,085.7	-1,364.4	-419.2	1,405.1	2.31	-1.16	-2.00
8,505.0	91.50	183.40	7,084.0	-1,458.2	-424.8	1,498.9	0.96	0.96	0.00
8,540.5	91.50	183.21	7,083.1	-1,493.6	-426.9	1,534.3	0.53	0.00	-0.53
WP #1 (J-28HN)									
8,599.0	91.50	182.90	7,081.5	-1,552.0	-430.0	1,592.7	0.53	0.00	-0.53
8,694.0	91.90	182.70	7,078.7	-1,646.9	-434.6	1,687.4	0.47	0.42	-0.21
8,789.0	88.60	182.00	7,078.3	-1,741.8	-438.5	1,782.1	3.55	-3.47	-0.74
8,883.0	89.30	181.10	7,080.0	-1,835.7	-441.1	1,875.6	1.21	0.74	-0.96
8,978.0	90.10	181.80	7,080.5	-1,930.7	-443.5	1,970.2	1.12	0.84	0.74
9,072.0	89.10	182.10	7,081.2	-2,024.6	-446.7	2,063.8	1.11	-1.06	0.32
9,166.0	89.60	182.70	7,082.2	-2,118.6	-450.6	2,157.5	0.83	0.53	0.64
9,260.0	90.60	184.40	7,082.1	-2,212.4	-456.4	2,251.4	2.10	1.06	1.81
9,355.0	90.40	185.00	7,081.2	-2,307.0	-464.2	2,346.3	0.67	-0.21	0.63
9,449.0	90.00	183.20	7,080.9	-2,400.8	-470.9	2,440.2	1.96	-0.43	-1.91
9,543.0	91.50	185.00	7,079.7	-2,494.5	-477.6	2,534.0	2.49	1.60	1.91
9,638.0	91.90	185.10	7,076.9	-2,589.1	-486.0	2,628.9	0.43	0.42	0.11
9,732.0	91.20	182.90	7,074.3	-2,682.9	-492.6	2,722.8	2.46	-0.74	-2.34

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9,827.0	89.30	182.30	7,073.9	-2,777.8	-496.9	2,817.5	2.10	-2.00	-0.63
9,921.0	88.80	180.00	7,075.5	-2,871.7	-498.7	2,911.0	2.50	-0.53	-2.45
10,015.0	88.40	179.20	7,077.8	-2,965.7	-498.1	3,004.2	0.95	-0.43	-0.85
10,108.0	89.50	180.00	7,079.5	-3,058.7	-497.4	3,096.4	1.46	1.18	0.86
10,202.0	89.70	180.00	7,080.1	-3,152.7	-497.4	3,189.7	0.21	0.21	0.00
10,296.0	90.40	181.60	7,080.0	-3,246.7	-498.8	3,283.2	1.86	0.74	1.70
10,389.0	91.00	183.60	7,078.9	-3,339.5	-503.0	3,375.9	2.25	0.65	2.15
10,484.0	90.20	182.50	7,077.9	-3,434.4	-508.0	3,470.7	1.43	-0.84	-1.16
10,577.0	89.10	180.90	7,078.5	-3,527.4	-510.8	3,563.3	2.09	-1.18	-1.72
10,672.0	91.60	181.80	7,077.9	-3,622.3	-513.0	3,657.8	2.80	2.63	0.95
10,766.0	91.70	181.30	7,075.2	-3,716.2	-515.6	3,751.3	0.54	0.11	-0.53
10,860.0	90.30	182.50	7,073.6	-3,810.2	-518.7	3,845.0	1.96	-1.49	1.28
10,955.0	90.10	183.40	7,073.2	-3,905.1	-523.6	3,939.7	0.97	-0.21	0.95
11,049.0	90.30	182.90	7,072.9	-3,998.9	-528.7	4,033.5	0.57	0.21	-0.53
11,144.0	91.20	183.00	7,071.7	-4,093.8	-533.6	4,128.3	0.95	0.95	0.11
11,238.0	89.30	182.10	7,071.2	-4,187.7	-537.8	4,222.0	2.24	-2.02	-0.96
11,333.0	90.00	182.10	7,071.8	-4,282.6	-541.3	4,316.6	0.74	0.74	0.00
11,427.0	87.60	181.30	7,073.8	-4,376.5	-544.1	4,410.2	2.69	-2.55	-0.85
11,522.0	88.40	182.50	7,077.1	-4,471.4	-547.2	4,504.8	1.52	0.84	1.26
11,595.0	88.40	182.00	7,079.1	-4,544.3	-550.1	4,577.5	0.68	0.00	-0.68
11,650.0	88.40	182.00	7,080.7	-4,599.3	-552.0	4,632.3	0.00	0.00	0.00
BHL 465'FSL & 2182'FEL									

Checked By: _____	Approved By: _____	Date: _____
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