

Bayswater Exploration & Production, LLC

Well Name: **Kaiser B-10HC**

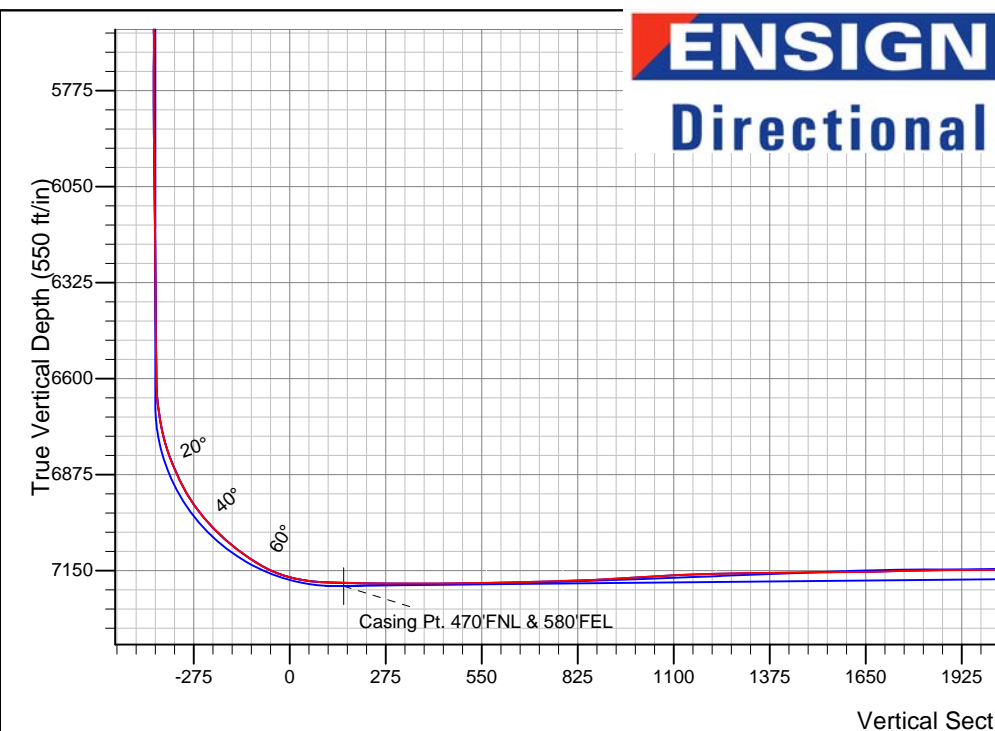
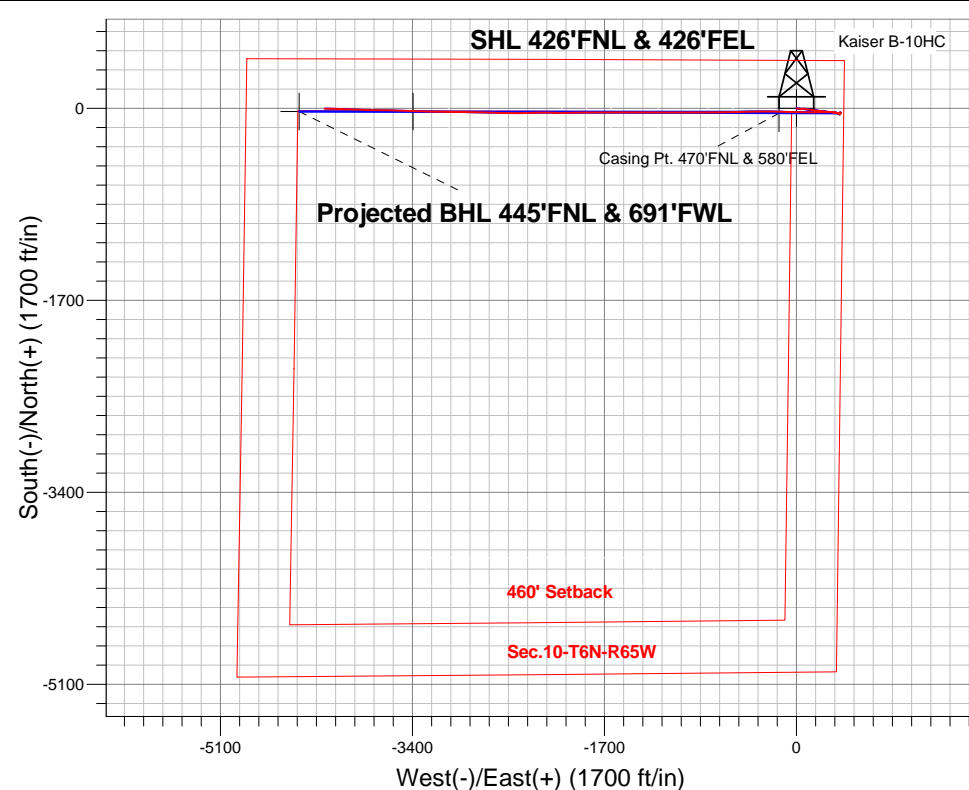
Surface Location: Kaiser 10-D Pad Sec.10-T6N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4801.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1428815.67	3238753.63	40.507327	-104.641375	
RKB - 22.5 WELL @ 4823.5ft (RKB - 22.5)						

FINAL SURVEY

Projected Bottom Hole Location
11535'MD 7152'TVD 4'S & 4176'W of SHL
88.99 degree Incl @ 271.37 degree AZM



ENSIGN
Directional

Kaiser 10-D Pad Sec.10-T6N-R65W
Kaiser B-10HC
Wellbore #1
12:03, September 24 2014

ANNOTATIONS

No annotation data is available.

LEGEND

- △ Kaiser B-10HC, Wellbore #1, Plan #3 (8-13-14) V0
- Kaiser B-10HC, Wellbore #1, Plan #5 (9-16-14) V0
- Wellbore #1
- Survey #1



Bayswater Exploration & Production, LLC

SEC.10-T6N-R65W

Kaiser 10-D Pad Sec.10-T6N-R65W

Kaiser B-10HC

Wellbore #1

Survey: Survey #1

Standard Survey Report

24 September, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Kaiser B-10HC
Project:	SEC.10-T6N-R65W	TVD Reference:	WELL @ 4823.5ft (RKB - 22.5)
Site:	Kaiser 10-D Pad Sec.10-T6N-R65W	MD Reference:	WELL @ 4823.5ft (RKB - 22.5)
Well:	Kaiser B-10HC	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.10-T6N-R65W		
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	Kaiser 10-D Pad Sec.10-T6N-R65W		
Site Position:		Northing:	1,428,828.36ft
From:	Lat/Long	Easting:	3,238,745.72ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.507362
		Longitude:	-104.641403
		Grid Convergence:	0.55 °

Well	Kaiser B-10HC		
Well Position	+N/-S	0.0 ft	Northing: 1,428,815.67 ft
	+E/-W	0.0 ft	Easting: 3,238,753.63 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.507327
		Longitude:	-104.641375
		Ground Level:	4,801.0ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	9/16/2014	8.37
			Dip Angle (°) 67.04
			Field Strength (nT) 52,857

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 (°) 269.62

Survey Program	Date	9/24/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
131.0	11,535.0	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	131.10	1.0	0.0	0.0	0.0	0.23	0.23	0.00	
SHL 426'FNL & 426'FEL										
131.0	0.30	131.10	131.0	-0.2	0.3	-0.3	0.23	0.23	0.00	
223.0	0.20	219.40	223.0	-0.5	0.3	-0.3	0.39	-0.11	95.98	
315.0	0.30	316.40	315.0	-0.5	0.1	-0.1	0.41	0.11	105.43	
407.0	0.20	34.60	407.0	-0.2	0.0	0.0	0.35	-0.11	85.00	
499.0	0.30	132.00	499.0	-0.2	0.3	-0.3	0.41	0.11	105.87	
592.0	0.40	128.10	592.0	-0.5	0.7	-0.7	0.11	0.11	-4.19	
684.0	0.40	152.60	684.0	-1.0	1.1	-1.1	0.18	0.00	26.63	
708.0	0.30	96.80	708.0	-1.1	1.2	-1.2	1.41	-0.42	-232.50	
780.0	0.80	285.10	780.0	-1.0	0.9	-0.9	1.52	0.69	-238.47	
875.0	0.30	99.30	875.0	-0.9	0.5	-0.5	1.16	-0.53	183.37	

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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)
923.0	2.60	100.90	923.0	-1.1	1.7	-1.7	4.79	4.79	3.33
1,015.0	3.10	104.90	1,014.9	-2.1	6.2	-6.1	0.58	0.54	4.35
1,107.0	2.90	99.40	1,106.7	-3.1	10.9	-10.8	0.38	-0.22	-5.98
1,199.0	2.90	97.30	1,198.6	-3.8	15.5	-15.4	0.12	0.00	-2.28
1,291.0	3.10	97.50	1,290.5	-4.4	20.2	-20.2	0.22	0.22	0.22
1,384.0	3.10	96.30	1,383.3	-5.0	25.2	-25.2	0.07	0.00	-1.29
1,476.0	4.60	98.70	1,475.1	-5.9	31.3	-31.3	1.64	1.63	2.61
1,568.0	5.80	92.20	1,566.8	-6.6	39.6	-39.6	1.45	1.30	-7.07
1,660.0	5.50	88.90	1,658.3	-6.7	48.7	-48.6	0.48	-0.33	-3.59
1,753.0	5.30	85.00	1,750.9	-6.2	57.4	-57.4	0.45	-0.22	-4.19
1,845.0	6.10	86.80	1,842.4	-5.6	66.5	-66.5	0.89	0.87	1.96
1,937.0	6.20	97.70	1,933.9	-6.0	76.3	-76.3	1.27	0.11	11.85
2,029.0	5.70	104.50	2,025.4	-7.8	85.7	-85.6	0.94	-0.54	7.39
2,122.0	5.60	100.00	2,118.0	-9.8	94.6	-94.6	0.49	-0.11	-4.84
2,214.0	5.20	96.80	2,209.6	-11.0	103.2	-103.1	0.54	-0.43	-3.48
2,306.0	4.70	98.40	2,301.2	-12.1	111.1	-111.0	0.56	-0.54	1.74
2,401.0	5.80	97.70	2,395.8	-13.3	119.7	-119.6	1.16	1.16	-0.74
2,497.0	4.80	94.70	2,491.4	-14.3	128.5	-128.4	1.08	-1.04	-3.13
2,592.0	6.00	94.90	2,586.0	-15.0	137.4	-137.3	1.26	1.26	0.21
2,687.0	5.50	94.50	2,680.5	-15.8	146.9	-146.8	0.53	-0.53	-0.42
2,783.0	6.60	97.20	2,776.0	-16.8	156.9	-156.8	1.18	1.15	2.81
2,878.0	7.50	103.30	2,870.3	-19.0	168.4	-168.3	1.23	0.95	6.42
2,973.0	6.70	99.40	2,964.5	-21.3	179.9	-179.7	0.98	-0.84	-4.11
3,069.0	7.70	94.00	3,059.8	-22.6	191.8	-191.7	1.26	1.04	-5.63
3,164.0	6.50	94.50	3,154.0	-23.5	203.5	-203.4	1.26	-1.26	0.53
3,259.0	7.50	99.60	3,248.3	-25.0	215.0	-214.8	1.24	1.05	5.37
3,354.0	6.40	96.30	3,342.6	-26.6	226.4	-226.2	1.23	-1.16	-3.47
3,449.0	6.60	93.60	3,437.0	-27.5	237.1	-236.9	0.38	0.21	-2.84
3,545.0	7.80	97.20	3,532.3	-28.7	249.1	-248.9	1.33	1.25	3.75
3,640.0	6.50	96.10	3,626.5	-30.1	260.8	-260.6	1.38	-1.37	-1.16
3,735.0	7.00	96.60	3,720.9	-31.3	271.9	-271.7	0.53	0.53	0.53
3,830.0	8.50	98.70	3,815.0	-33.0	284.6	-284.4	1.61	1.58	2.21
3,926.0	8.70	96.80	3,909.9	-34.9	298.8	-298.6	0.36	0.21	-1.98
4,021.0	9.20	98.00	4,003.8	-36.9	313.5	-313.2	0.56	0.53	1.26
4,116.0	9.40	95.60	4,097.5	-38.7	328.7	-328.5	0.46	0.21	-2.53
4,211.0	8.10	103.50	4,191.4	-41.0	342.9	-342.7	1.86	-1.37	8.32
4,306.0	5.90	94.90	4,285.7	-43.0	354.3	-354.0	2.56	-2.32	-9.05
4,402.0	5.10	91.70	4,381.2	-43.5	363.5	-363.2	0.89	-0.83	-3.33
4,497.0	4.70	80.80	4,475.9	-43.0	371.6	-371.3	1.06	-0.42	-11.47
4,592.0	3.90	71.30	4,570.6	-41.4	378.5	-378.2	1.12	-0.84	-10.00
4,688.0	3.80	69.60	4,666.4	-39.2	384.5	-384.3	0.16	-0.10	-1.77
4,783.0	2.80	101.20	4,761.3	-38.6	389.8	-389.5	2.14	-1.05	33.26
4,878.0	1.10	103.00	4,856.2	-39.2	392.9	-392.7	1.79	-1.79	1.89
4,974.0	1.10	167.50	4,952.2	-40.3	394.0	-393.8	1.22	0.00	67.19
5,069.0	0.70	130.20	5,047.2	-41.6	394.7	-394.4	0.73	-0.42	-39.26
5,164.0	1.10	284.50	5,142.2	-41.7	394.2	-393.9	1.85	0.42	162.42
5,259.0	1.00	288.20	5,237.2	-41.2	392.6	-392.3	0.13	-0.11	3.89
5,354.0	0.70	240.10	5,332.2	-41.3	391.3	-391.0	0.78	-0.32	-50.63
5,450.0	0.80	218.80	5,428.1	-42.1	390.3	-390.1	0.31	0.10	-22.19
5,545.0	1.40	213.20	5,523.1	-43.6	389.3	-389.0	0.64	0.63	-5.89
5,640.0	1.60	173.80	5,618.1	-45.9	388.8	-388.5	1.08	0.21	-41.47
5,735.0	0.40	59.90	5,713.1	-47.0	389.2	-388.9	1.89	-1.26	-119.89
5,831.0	0.30	66.00	5,809.1	-46.8	389.8	-389.4	0.11	-0.10	6.35
5,926.0	1.10	241.10	5,904.1	-47.1	389.2	-388.9	1.47	0.84	184.32

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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)
6,021.0	1.10	222.10	5,999.1	-48.2	387.8	-387.4	0.38	0.00	-20.00
6,116.0	1.10	209.10	6,094.0	-49.7	386.7	-386.4	0.26	0.00	-13.68
6,211.0	1.20	194.20	6,189.0	-51.4	386.0	-385.7	0.33	0.11	-15.68
6,307.0	0.80	239.50	6,285.0	-52.8	385.2	-384.8	0.89	-0.42	47.19
6,402.0	1.10	202.50	6,380.0	-53.9	384.3	-383.9	0.70	0.32	-38.95
6,497.0	0.80	293.70	6,475.0	-54.5	383.3	-383.0	1.45	-0.32	96.00
6,592.0	0.40	263.30	6,570.0	-54.3	382.4	-382.0	0.52	-0.42	-32.00
6,639.0	1.10	265.90	6,617.0	-54.3	381.8	-381.4	1.49	1.49	5.53
6,688.0	6.90	295.40	6,665.8	-53.1	378.6	-378.3	12.18	11.84	60.20
6,735.0	11.60	309.30	6,712.2	-48.9	372.4	-372.1	11.00	10.00	29.57
6,783.0	13.90	296.10	6,759.1	-43.3	363.5	-363.2	7.70	4.79	-27.50
6,830.0	19.20	282.60	6,804.1	-39.1	350.9	-350.6	13.86	11.28	-28.72
6,878.0	22.90	275.80	6,848.9	-36.5	333.9	-333.6	9.22	7.71	-14.17
6,925.0	25.70	273.10	6,891.7	-35.0	314.6	-314.4	6.41	5.96	-5.74
6,973.0	30.50	270.30	6,934.1	-34.4	292.0	-291.8	10.37	10.00	-5.83
7,020.0	36.50	270.10	6,973.2	-34.3	266.1	-265.9	12.77	12.77	-0.43
7,068.0	42.40	268.90	7,010.3	-34.6	235.6	-235.4	12.39	12.29	-2.50
7,115.0	46.20	268.70	7,043.9	-35.3	202.8	-202.6	8.09	8.09	-0.43
7,164.0	50.40	268.90	7,076.5	-36.0	166.2	-166.0	8.58	8.57	0.41
7,211.0	54.20	269.10	7,105.2	-36.7	129.1	-128.8	8.09	8.09	0.43
7,258.0	59.40	270.70	7,131.0	-36.7	89.7	-89.5	11.42	11.06	3.40
7,305.0	66.40	271.50	7,152.4	-35.9	47.9	-47.7	14.97	14.89	1.70
7,354.0	74.70	271.20	7,168.7	-34.8	1.8	-1.6	16.95	16.94	-0.61
7,415.0	83.50	272.20	7,180.2	-33.0	-58.0	58.2	14.52	14.43	1.64
7,475.0	88.46	271.65	7,184.4	-31.0	-117.8	118.0	8.32	8.27	-0.92
7,570.0	88.99	270.83	7,186.5	-29.0	-212.8	213.0	1.03	0.56	-0.86
7,664.0	90.04	269.35	7,187.3	-28.8	-306.8	307.0	1.93	1.12	-1.57
7,758.0	90.31	268.80	7,187.0	-30.3	-400.8	400.9	0.65	0.29	-0.59
7,853.0	90.66	268.08	7,186.2	-32.9	-495.7	495.9	0.84	0.37	-0.76
7,921.1	90.85	268.88	7,185.3	-34.7	-563.8	564.0	1.21	0.28	1.18
WP1									
7,947.0	90.92	269.19	7,184.9	-35.2	-589.7	589.9	1.21	0.28	1.18
8,042.0	91.71	269.34	7,182.7	-36.4	-684.6	684.9	0.85	0.83	0.16
8,136.0	91.71	269.40	7,179.9	-37.4	-778.6	778.8	0.06	0.00	0.06
8,140.2	91.75	269.41	7,179.8	-37.5	-782.8	783.0	0.96	0.94	0.21
WP2									
8,230.0	92.59	269.60	7,176.4	-38.2	-872.5	872.8	0.96	0.94	0.21
8,325.0	93.65	269.82	7,171.2	-38.7	-967.4	967.6	1.14	1.12	0.23
8,419.0	93.30	270.30	7,165.5	-38.6	-1,061.2	1,061.4	0.63	-0.37	0.51
8,514.0	92.15	270.38	7,161.0	-38.1	-1,156.1	1,156.3	1.21	-1.21	0.08
8,579.7	91.35	270.08	7,159.0	-37.8	-1,221.7	1,222.0	1.30	-1.21	-0.46
WP3									
8,608.0	91.01	269.95	7,158.4	-37.8	-1,250.1	1,250.3	1.30	-1.21	-0.46
8,702.0	90.40	270.00	7,157.3	-37.8	-1,344.1	1,344.3	0.65	-0.65	0.05
8,796.0	91.36	269.90	7,155.8	-37.9	-1,438.0	1,438.3	1.03	1.02	-0.11
8,891.0	89.96	269.41	7,154.7	-38.5	-1,533.0	1,533.3	1.56	-1.47	-0.52
8,985.0	90.75	269.67	7,154.2	-39.2	-1,627.0	1,627.2	0.88	0.84	0.28
8,998.0	90.93	269.77	7,154.0	-39.3	-1,640.0	1,640.2	1.60	1.39	0.80
WP4									
9,080.0	92.07	270.43	7,151.8	-39.2	-1,722.0	1,722.2	1.60	1.39	0.80
9,174.0	90.92	270.23	7,149.4	-38.6	-1,816.0	1,816.2	1.24	-1.22	-0.21
9,218.0	90.55	270.22	7,148.8	-38.4	-1,859.9	1,860.2	0.83	-0.83	-0.02
WP5									
9,269.0	90.13	270.21	7,148.5	-38.2	-1,911.0	1,911.2	0.83	-0.83	-0.02

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9,363.0	90.40	268.58	7,148.1	-39.2	-2,004.9	2,005.2	1.76	0.29	-1.73
9,436.8	90.19	269.60	7,147.7	-40.4	-2,078.8	2,079.0	1.41	-0.29	1.38
WP6									
9,457.0	90.13	269.88	7,147.6	-40.5	-2,098.9	2,099.2	1.41	-0.29	1.38
9,552.0	90.13	270.41	7,147.4	-40.3	-2,193.9	2,194.1	0.56	0.00	0.56
9,646.0	90.66	269.86	7,146.8	-40.0	-2,287.9	2,288.1	0.81	0.56	-0.59
9,741.0	90.22	269.04	7,146.0	-41.0	-2,382.9	2,383.1	0.98	-0.46	-0.86
9,835.0	90.40	269.43	7,145.5	-42.2	-2,476.9	2,477.1	0.46	0.19	0.41
9,930.0	90.40	271.06	7,144.9	-41.8	-2,571.9	2,572.1	1.72	0.00	1.72
10,024.0	89.43	270.58	7,145.0	-40.5	-2,665.9	2,666.1	1.15	-1.03	-0.51
10,119.0	88.11	271.98	7,147.0	-38.3	-2,760.8	2,761.0	2.03	-1.39	1.47
10,213.0	89.08	271.90	7,149.3	-35.2	-2,854.8	2,854.9	1.04	1.03	-0.09
10,308.0	89.08	270.23	7,150.9	-33.4	-2,949.7	2,949.9	1.76	0.00	-1.76
10,402.0	91.19	270.64	7,150.7	-32.7	-3,043.7	3,043.9	2.29	2.24	0.44
10,434.2	91.37	270.53	7,149.9	-32.3	-3,075.9	3,076.1	0.66	0.55	-0.35
WP7									
10,496.0	91.71	270.31	7,148.3	-31.9	-3,137.7	3,137.8	0.66	0.55	-0.35
10,591.0	91.45	271.15	7,145.7	-30.7	-3,232.6	3,232.8	0.93	-0.27	0.88
10,685.0	90.75	272.08	7,143.8	-28.0	-3,326.6	3,326.7	1.24	-0.74	0.99
10,753.1	89.93	272.40	7,143.4	-25.4	-3,394.6	3,394.7	1.30	-1.21	0.46
WP8									
10,780.0	89.60	272.52	7,143.6	-24.2	-3,421.5	3,421.6	1.30	-1.21	0.46
10,874.0	89.25	271.60	7,144.5	-20.8	-3,515.4	3,515.5	1.05	-0.37	-0.98
10,969.0	89.60	270.33	7,145.5	-19.2	-3,610.4	3,610.5	1.39	0.37	-1.34
11,063.0	89.69	271.16	7,146.0	-18.0	-3,704.4	3,704.4	0.89	0.10	0.88
11,114.2	89.50	271.52	7,146.4	-16.8	-3,755.5	3,755.6	0.80	-0.37	0.71
WP9									
11,158.0	89.34	271.83	7,146.8	-15.5	-3,799.4	3,799.4	0.80	-0.37	0.71
11,251.0	89.87	271.85	7,147.5	-12.6	-3,892.3	3,892.3	0.57	0.57	0.02
11,346.0	88.99	272.08	7,148.4	-9.3	-3,987.3	3,987.2	0.96	-0.93	0.24
11,453.0	88.99	271.37	7,150.3	-6.1	-4,094.2	4,094.1	0.66	0.00	-0.66
11,535.0	88.99	271.37	7,151.8	-4.1	-4,176.2	4,176.1	0.00	0.00	0.00
BHL 470'FNL & 465'FWL									

Checked By: _____ Approved By: _____ Date: _____