

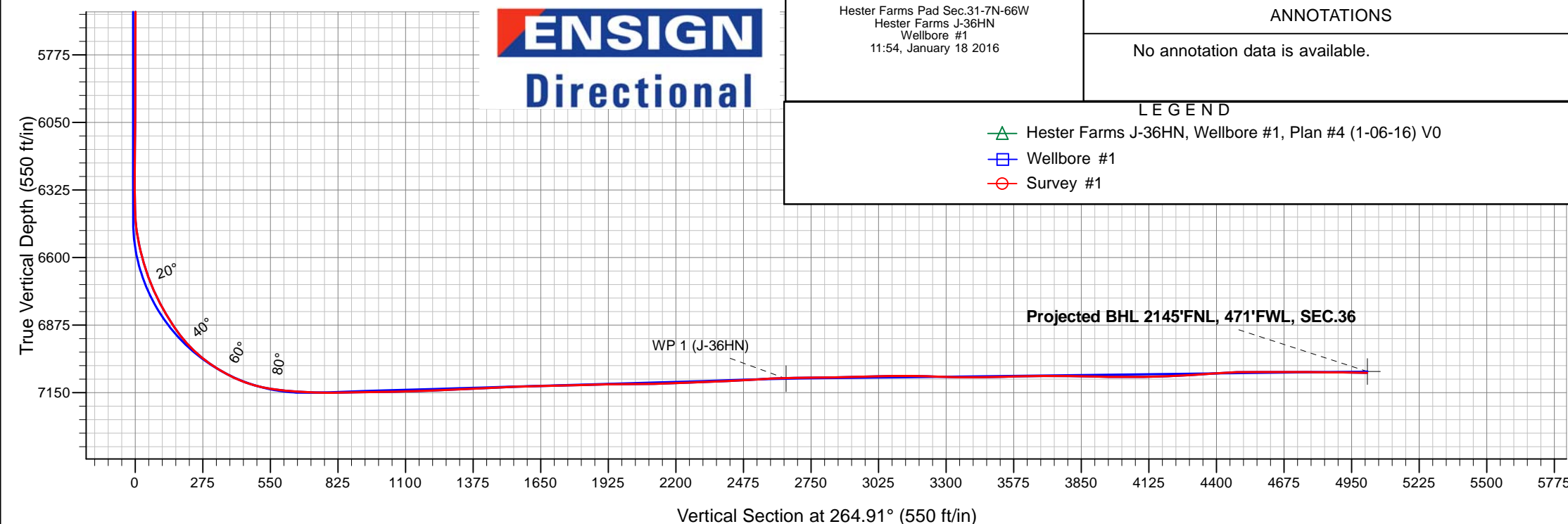
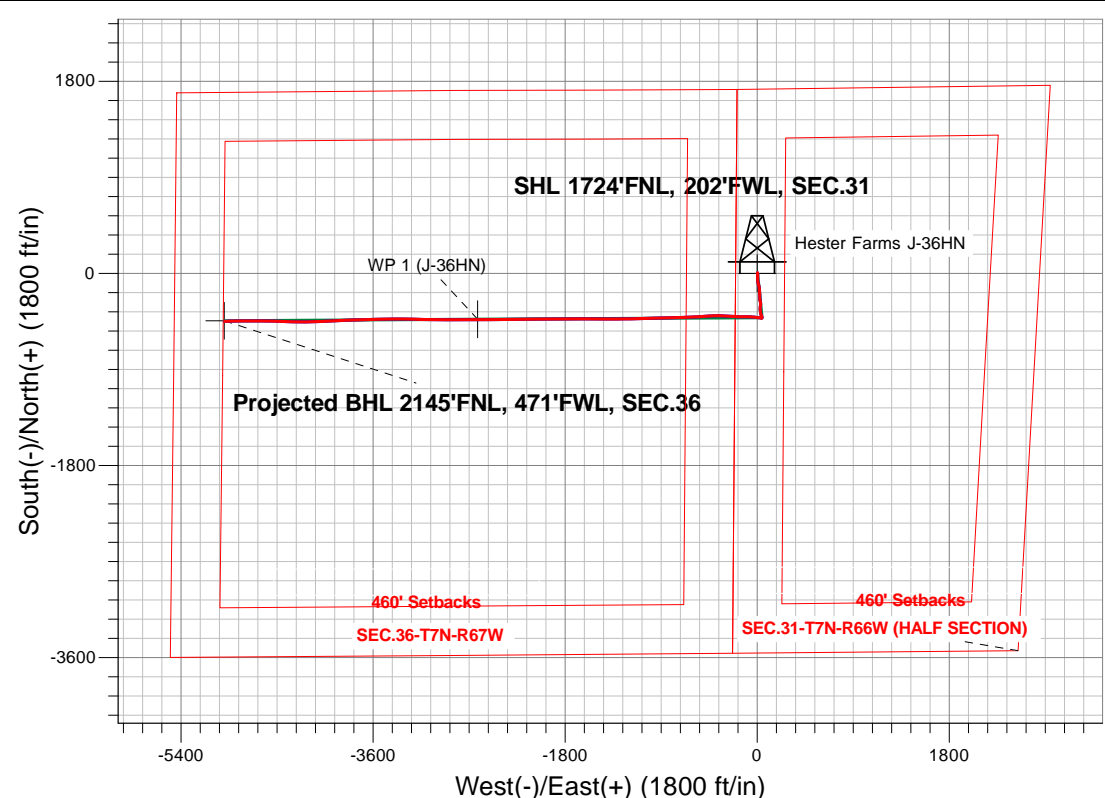
Bayswater Exploration & Production, LLC

Well Name: **Hester Farms J-36HN**

Surface Location: Hester Farms Pad Sec.31-7N-66W
North American Datum 1983, US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4913.0
+N/-S+E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 437804.36 3185849.25 40.533250 -104.831382
RKB - 22.5' WELL @ 4935.5ft (RKB - 22.5')

FINAL SURVEY

Projected Bottom Hole Location
11906'MD 7070'TVD 450'S & 4993'W of SHL
88.7 degree Incl @ 269 degree AZM





Bayswater Exploration & Production, LLC

SEC.31-T7N-R66W

Hester Farms Pad Sec.31-7N-66W

Hester Farms J-36HN

Wellbore #1

Survey: Survey #1

Standard Survey Report

21 January, 2016



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hester Farms J-36HN
Project:	SEC.31-T7N-R66W	TVD Reference:	WELL @ 4935.5ft (RKB - 22.5')
Site:	Hester Farms Pad Sec.31-7N-66W	MD Reference:	WELL @ 4935.5ft (RKB - 22.5')
Well:	Hester Farms J-36HN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Project	SEC.31-T7N-R66W, 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		Hester Farms Pad Sec.31-7N-66W			
Site Position:		Northing:	1,437,939.53 usft	Latitude:	40.533621
From:	Lat/Long	Easting:	3,185,849.35 usft	Longitude:	-104.831378
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	Hester Farms J-36HN					
Well Position	+N/-S	0.0 ft	Northing:	1,437,804.36 usft	Latitude:	40.533250
	+E/-W	0.0 ft	Easting:	3,185,849.26 usft	Longitude:	-104.831382
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,913.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/21/2015	8.30	66.99	52,717

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	264.91	

Survey Program	Date	1/18/2016			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
23.0	11,906.0	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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00	
SHL 1724'FNL, 202'FWL, SEC.31										
23.0	0.00	79.66	23.0	0.0	0.0	0.0	0.00	0.00	0.00	
123.0	1.21	79.66	123.0	0.2	1.0	-1.1	1.21	1.21	0.00	
217.0	0.85	60.83	217.0	0.7	2.6	-2.7	0.52	-0.38	-20.03	
311.0	0.44	260.28	311.0	1.0	2.9	-3.0	1.35	-0.44	-170.80	
403.0	0.59	256.97	403.0	0.8	2.1	-2.1	0.17	0.16	-3.60	
497.0	0.22	202.36	497.0	0.5	1.5	-1.6	0.53	-0.39	-58.10	
591.0	0.59	170.09	591.0	-0.1	1.5	-1.5	0.45	0.39	-34.33	
685.0	0.26	9.44	685.0	-0.4	1.7	-1.6	0.89	-0.35	-170.90	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hester Farms J-36HN
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Site:	Hester Farms Pad Sec.31-7N-66W	MD Reference:	WELL @ 4935.5ft (RKB - 22.5')
Well:	Hester Farms J-36HN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
780.0	0.31	29.60	780.0	0.1	1.8	-1.8	0.12	0.05	21.22
1,014.0	0.40	352.30	1,014.0	1.4	2.0	-2.1	0.10	0.04	-15.94
1,109.0	2.20	170.00	1,108.9	0.0	2.3	-2.3	2.74	1.89	187.05
1,203.0	3.60	166.90	1,202.8	-4.7	3.3	-2.9	1.50	1.49	-3.30
1,297.0	5.00	183.70	1,296.6	-11.7	3.7	-2.6	1.99	1.49	17.87
1,391.0	7.00	178.30	1,390.0	-21.5	3.6	-1.7	2.21	2.13	-5.74
1,486.0	7.80	183.20	1,484.2	-33.7	3.4	-0.4	1.07	0.84	5.16
1,581.0	8.10	181.10	1,578.3	-46.8	2.9	1.3	0.44	0.32	-2.21
1,674.0	8.40	172.80	1,670.4	-60.1	3.6	1.7	1.32	0.32	-8.92
1,768.0	8.40	172.80	1,763.4	-73.7	5.4	1.2	0.00	0.00	0.00
1,863.0	7.60	171.20	1,857.4	-86.8	7.2	0.5	0.87	-0.84	-1.68
1,957.0	7.00	166.70	1,950.7	-98.5	9.5	-0.7	0.88	-0.64	-4.79
2,052.0	8.00	166.30	2,044.9	-110.6	12.4	-2.5	1.05	1.05	-0.42
2,146.0	7.30	161.20	2,138.0	-122.6	15.8	-4.9	1.04	-0.74	-5.43
2,241.0	7.60	174.40	2,232.2	-134.6	18.4	-6.4	1.82	0.32	13.89
2,336.0	7.00	175.60	2,326.5	-146.6	19.4	-6.4	0.65	-0.63	1.26
2,430.0	6.20	178.30	2,419.8	-157.4	20.0	-6.0	0.91	-0.85	2.87
2,525.0	7.00	174.40	2,514.2	-168.3	20.8	-5.7	0.96	0.84	-4.11
2,619.0	6.30	172.80	2,607.6	-179.1	22.0	-6.0	0.77	-0.74	-1.70
2,713.0	6.70	178.50	2,701.0	-189.7	22.7	-5.8	0.81	0.43	6.06
2,806.0	8.40	178.30	2,793.2	-201.9	23.1	-5.1	1.83	1.83	-0.22
2,901.0	8.00	177.20	2,887.2	-215.4	23.6	-4.4	0.45	-0.42	-1.16
2,996.0	6.50	176.90	2,981.4	-227.4	24.2	-4.0	1.58	-1.58	-0.32
3,090.0	6.50	180.90	3,074.8	-238.0	24.4	-3.2	0.48	0.00	4.26
3,183.0	7.20	172.70	3,167.2	-249.1	25.1	-2.9	1.29	0.75	-8.82
3,277.0	5.80	169.30	3,260.6	-259.6	26.7	-3.6	1.54	-1.49	-3.62
3,371.0	6.40	164.20	3,354.0	-269.3	29.0	-5.0	0.86	0.64	-5.43
3,463.0	6.90	173.90	3,445.4	-279.7	31.0	-6.1	1.33	0.54	10.54
3,558.0	7.50	179.70	3,539.7	-291.6	31.7	-5.7	0.99	0.63	6.11
3,650.0	6.80	189.00	3,630.9	-303.0	30.8	-3.8	1.47	-0.76	10.11
3,743.0	6.90	185.10	3,723.3	-314.0	29.5	-1.5	0.51	0.11	-4.19
3,837.0	8.80	185.70	3,816.4	-326.8	28.3	0.8	2.02	2.02	0.64
3,932.0	11.10	177.60	3,910.0	-343.1	27.9	2.6	2.83	2.42	-8.53
4,027.0	10.90	168.60	4,003.2	-361.1	30.1	2.1	1.82	-0.21	-9.47
4,121.0	10.70	167.90	4,095.6	-378.3	33.7	0.0	0.25	-0.21	-0.74
4,216.0	8.30	163.20	4,189.3	-393.5	37.5	-2.4	2.65	-2.53	-4.95
4,309.0	6.10	155.30	4,281.5	-404.4	41.5	-5.5	2.59	-2.37	-8.49
4,403.0	3.90	160.40	4,375.2	-412.0	44.7	-7.9	2.39	-2.34	5.43
4,498.0	1.80	176.70	4,470.0	-416.5	45.8	-8.7	2.35	-2.21	17.16
4,592.0	0.20	87.40	4,564.0	-418.0	46.1	-8.8	1.92	-1.70	-95.00
4,685.0	0.20	248.80	4,657.0	-418.0	46.1	-8.8	0.42	0.00	173.55
4,778.0	1.70	255.30	4,750.0	-418.5	44.6	-7.3	1.61	1.61	6.99
4,873.0	1.80	256.90	4,845.0	-419.1	41.8	-4.5	0.12	0.11	1.68

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Site:	Hester Farms Pad Sec.31-7N-66W	MD Reference:	WELL @ 4935.5ft (RKB - 22.5')
Well:	Hester Farms J-36HN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,968.0	0.60	324.90	4,939.9	-419.1	40.1	-2.7	1.76	-1.26	71.58
5,062.0	0.60	308.90	5,033.9	-418.4	39.4	-2.1	0.18	0.00	-17.02
5,154.0	0.70	332.10	5,125.9	-417.6	38.7	-1.6	0.30	0.11	25.22
5,247.0	1.00	343.30	5,218.9	-416.3	38.3	-1.2	0.37	0.32	12.04
5,341.0	0.80	336.10	5,312.9	-414.9	37.7	-0.8	0.24	-0.21	-7.66
5,437.0	0.70	320.00	5,408.9	-413.8	37.1	-0.2	0.24	-0.10	-16.77
5,531.0	0.60	302.70	5,502.9	-413.1	36.3	0.5	0.23	-0.11	-18.40
5,626.0	1.10	355.10	5,597.9	-412.0	35.8	0.9	0.92	0.53	55.16
5,720.0	1.10	161.60	5,691.9	-411.9	36.0	0.6	2.32	0.00	177.13
5,813.0	1.20	160.20	5,784.9	-413.7	36.6	0.2	0.11	0.11	-1.51
5,907.0	1.10	162.50	5,878.8	-415.5	37.2	-0.2	0.12	-0.11	2.45
6,001.0	1.10	187.60	5,972.8	-417.2	37.4	-0.2	0.51	0.00	26.70
6,092.0	1.10	107.40	6,063.8	-418.3	38.1	-0.9	1.56	0.00	-88.13
6,187.0	0.40	144.20	6,158.8	-418.9	39.2	-1.9	0.86	-0.74	38.74
6,281.0	0.30	194.30	6,252.8	-419.4	39.3	-2.0	0.33	-0.11	53.30
6,375.0	0.80	121.90	6,346.8	-420.0	39.8	-2.4	0.81	0.53	-77.02
6,469.0	4.70	294.30	6,440.7	-418.7	36.9	0.4	5.84	4.15	183.40
6,563.0	11.40	274.80	6,533.7	-416.4	24.1	13.0	7.60	7.13	-20.74
6,656.0	16.70	277.80	6,623.9	-413.8	1.7	35.1	5.75	5.70	3.23
6,751.0	22.50	273.90	6,713.4	-410.7	-30.0	66.3	6.26	6.11	-4.11
6,845.0	29.30	273.40	6,797.9	-408.1	-71.0	106.9	7.24	7.23	-0.53
6,939.0	33.30	268.50	6,878.2	-407.4	-119.8	155.4	5.04	4.26	-5.21
7,032.0	42.10	269.70	6,951.7	-408.3	-176.6	212.1	9.49	9.46	1.29
7,124.0	52.80	275.80	7,013.9	-404.7	-244.1	279.0	12.60	11.63	6.63
7,219.0	60.30	273.60	7,066.2	-398.3	-323.0	357.1	8.13	7.89	-2.32
7,312.0	69.20	266.70	7,105.9	-398.2	-407.0	440.7	11.68	9.57	-7.42
7,407.0	79.70	265.50	7,131.3	-404.5	-498.2	532.1	11.12	11.05	-1.26
7,501.0	85.40	268.30	7,143.5	-409.5	-591.2	625.2	6.74	6.06	2.98
7,575.0	86.90	268.30	7,148.5	-411.7	-665.0	698.9	2.03	2.03	0.00
7,585.8	87.29	268.25	7,149.0	-412.0	-675.8	709.7	3.69	3.65	-0.48
LPL 2140°FNL, 470°FEL, SEC.36									
7,679.0	90.70	267.80	7,150.6	-415.2	-768.9	802.7	3.69	3.65	-0.48
7,771.0	91.20	268.10	7,149.1	-418.5	-860.8	894.6	0.63	0.54	0.33
7,863.0	90.70	268.50	7,147.6	-421.3	-952.8	986.4	0.70	-0.54	0.43
7,955.0	91.50	268.60	7,145.8	-423.6	-1,044.7	1,078.2	0.88	0.87	0.11
8,046.0	91.60	268.30	7,143.4	-426.0	-1,135.7	1,169.0	0.35	0.11	-0.33
8,138.0	92.90	269.50	7,139.8	-427.8	-1,227.6	1,260.7	1.92	1.41	1.30
8,230.0	92.70	269.70	7,135.3	-428.4	-1,319.5	1,352.3	0.31	-0.22	0.22
8,325.0	92.80	270.20	7,130.7	-428.5	-1,414.3	1,446.8	0.54	0.11	0.53
8,421.0	92.10	270.20	7,126.6	-428.2	-1,510.3	1,542.3	0.73	-0.73	0.00
8,516.0	91.30	270.40	7,123.8	-427.7	-1,605.2	1,636.8	0.87	-0.84	0.21
8,611.0	91.30	270.40	7,121.6	-427.0	-1,700.2	1,731.4	0.00	0.00	0.00
8,707.0	91.50	269.90	7,119.3	-426.8	-1,796.2	1,826.9	0.56	0.21	-0.52

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,802.0	91.50	269.30	7,116.8	-427.4	-1,891.1	1,921.6	0.63	0.00	-0.63
8,897.0	89.90	268.30	7,115.6	-429.4	-1,986.1	2,016.4	1.99	-1.68	-1.05
8,993.0	91.60	269.20	7,114.4	-431.5	-2,082.1	2,112.1	2.00	1.77	0.94
9,088.0	92.10	269.90	7,111.3	-432.3	-2,177.0	2,206.8	0.91	0.53	0.74
9,183.0	92.10	269.20	7,107.8	-433.0	-2,271.9	2,301.4	0.74	0.00	-0.74
9,279.0	92.80	270.20	7,103.7	-433.5	-2,367.8	2,397.0	1.27	0.73	1.04
9,374.0	93.70	269.90	7,098.3	-433.4	-2,462.7	2,491.4	1.00	0.95	-0.32
9,469.0	92.80	270.00	7,093.0	-433.5	-2,557.5	2,585.9	0.95	-0.95	0.11
9,531.8	91.36	270.13	7,090.7	-433.5	-2,620.3	2,648.4	2.30	-2.29	0.21
WP 1 (J-36HN)									
9,565.0	90.60	270.20	7,090.1	-433.4	-2,653.5	2,681.5	2.30	-2.29	0.21
9,660.0	90.50	269.20	7,089.2	-433.9	-2,748.5	2,776.1	1.06	-0.11	-1.05
9,756.0	91.50	269.00	7,087.5	-435.4	-2,844.5	2,871.9	1.06	1.04	-0.21
9,851.0	91.30	269.70	7,085.2	-436.4	-2,939.4	2,966.5	0.77	-0.21	0.74
9,946.0	91.50	271.30	7,082.9	-435.6	-3,034.4	3,061.1	1.70	0.21	1.68
10,041.0	89.20	271.80	7,082.3	-433.0	-3,129.3	3,155.4	2.48	-2.42	0.53
10,136.0	87.80	271.10	7,084.8	-430.6	-3,224.3	3,249.8	1.65	-1.47	-0.74
10,231.0	89.00	270.70	7,087.4	-429.1	-3,319.2	3,344.2	1.33	1.26	-0.42
10,326.0	90.90	269.70	7,087.5	-428.8	-3,414.2	3,438.8	2.26	2.00	-1.05
10,422.0	91.00	268.60	7,085.9	-430.2	-3,510.2	3,534.5	1.15	0.10	-1.15
10,517.0	91.50	268.50	7,083.9	-432.6	-3,605.1	3,629.3	0.54	0.53	-0.11
10,612.0	90.20	268.30	7,082.4	-435.3	-3,700.1	3,724.1	1.38	-1.37	-0.21
10,707.0	89.00	267.60	7,083.1	-438.7	-3,795.0	3,819.0	1.46	-1.26	-0.74
10,802.0	88.50	267.80	7,085.2	-442.5	-3,889.9	3,913.8	0.57	-0.53	0.21
10,898.0	89.90	267.80	7,086.5	-446.2	-3,985.8	4,009.7	1.46	1.46	0.00
10,993.0	90.60	267.80	7,086.1	-449.8	-4,080.8	4,104.6	0.74	0.74	0.00
11,088.0	92.20	266.90	7,083.8	-454.2	-4,175.6	4,199.5	1.93	1.68	-0.95
11,183.0	93.70	270.20	7,078.9	-456.6	-4,270.5	4,294.1	3.81	1.58	3.47
11,278.0	94.00	273.00	7,072.5	-454.0	-4,365.2	4,388.3	2.96	0.32	2.95
11,373.0	92.20	271.10	7,067.4	-450.6	-4,460.0	4,482.4	2.75	-1.89	-2.00
11,467.0	88.80	271.30	7,066.6	-448.6	-4,554.0	4,575.8	3.62	-3.62	0.21
11,562.0	91.30	270.20	7,066.5	-447.4	-4,648.9	4,670.3	2.88	2.63	-1.16
11,658.0	88.90	270.00	7,066.3	-447.2	-4,744.9	4,765.9	2.51	-2.50	-0.21
11,753.0	89.70	269.50	7,067.5	-447.6	-4,839.9	4,860.5	0.99	0.84	-0.53
11,853.0	88.70	269.00	7,068.9	-448.9	-4,939.9	4,960.3	1.12	-1.00	-0.50
11,906.0	88.70	269.00	7,070.1	-449.9	-4,992.9	5,013.1	0.00	0.00	0.00
BHL 2140'FNL, 470'FWL, SEC.36-T7N-R67W									

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hester Farms J-36HN
Project:	SEC.31-T7N-R66W	TVD Reference:	WELL @ 4935.5ft (RKB - 22.5')
Site:	Hester Farms Pad Sec.31-7N-66W	MD Reference:	WELL @ 4935.5ft (RKB - 22.5')
Well:	Hester Farms J-36HN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL 1724'FNL, 202'FWL - survey hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,437,804.37	3,185,849.26	40.533250	-104.831382
BHL 2140'FNL, 470'FWL - survey misses target center by 7.7ft at 11906.0ft MD (7070.1 TVD, -449.9 N, -4992.9 E) - Point	0.00	0.00	7,064.5	-444.7	-4,993.9	1,437,322.05	3,180,859.06	40.532028	-104.849347
WP 1 (J-36HN) - survey misses target center by 3.7ft at 9531.9ft MD (7090.7 TVD, -433.5 N, -2620.4 E) - Point	0.00	0.00	7,093.5	-431.1	-2,620.4	1,437,353.53	3,183,232.27	40.532066	-104.840809

Checked By: _____	Approved By: _____	Date: _____
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