

Bayswater Exploration & Production, LLC

Well Name: **Ward R-20-19HN**

Surface Location: Ward 20-M Pad Sec. 20-T6N-R66W

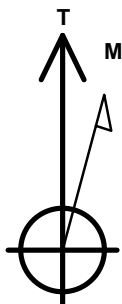
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone

Ground Elevation: 4728.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1413881.99 3196665.70 40.467356 -104.793156
 RKB - 23' WELL @ 4751.0ft (RKB - 23')

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 349'FSL, 213'FEL, SEC.20	1.0	0.0	0.0	Point
BHL 1452'FSL, 470'FWL, SEC.19	6920.0	781.1	-10477.2	Point
Boreline Vertex 1467'FSL	6948.0	936.8	-7821.4	Point
Boreline Vertex 1474'FSL	6958.1	1017.0	-5106.7	Point
LPL 1480'FSL, 470'FEL, SEC.20	6975.0	1127.9	-258.5	Point



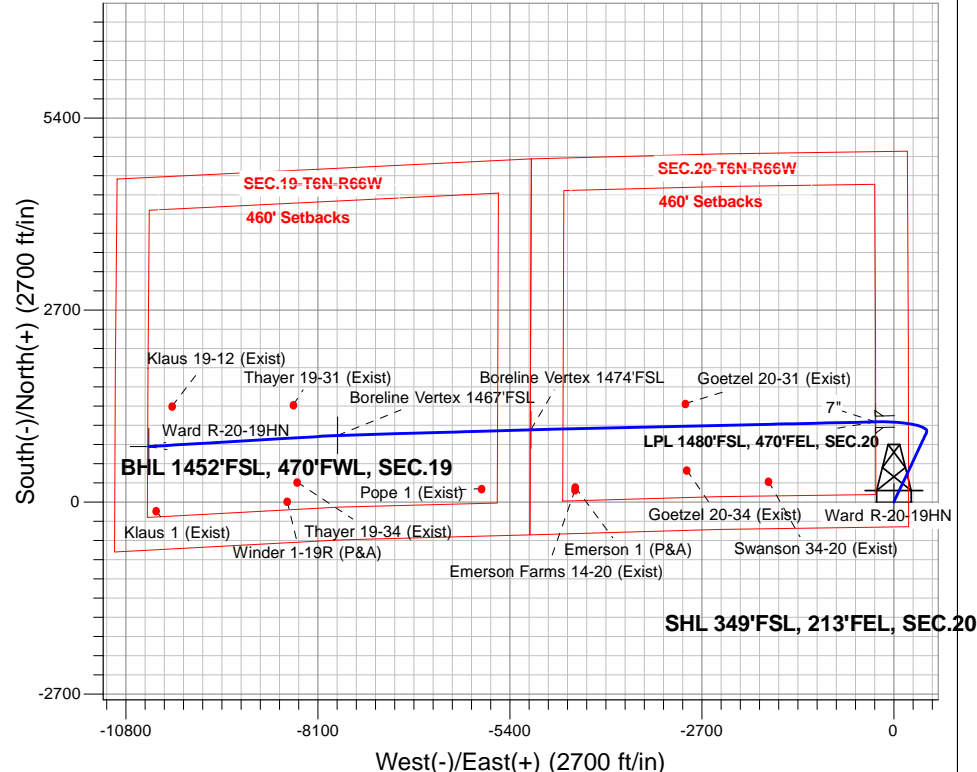
Azimuths to True North
 Magnetic North: 8.21°

Magnetic Field
 Strength: 52637.2snT
 Dip Angle: 66.93°
 Date: 6/16/2016
 Model: IGRF2010

Ward 20-M Pad Sec. 20-T6N-R66W
 Ward R-20-19HN
 Plan #2 (6-14-16)
 8:34, June 16 2016

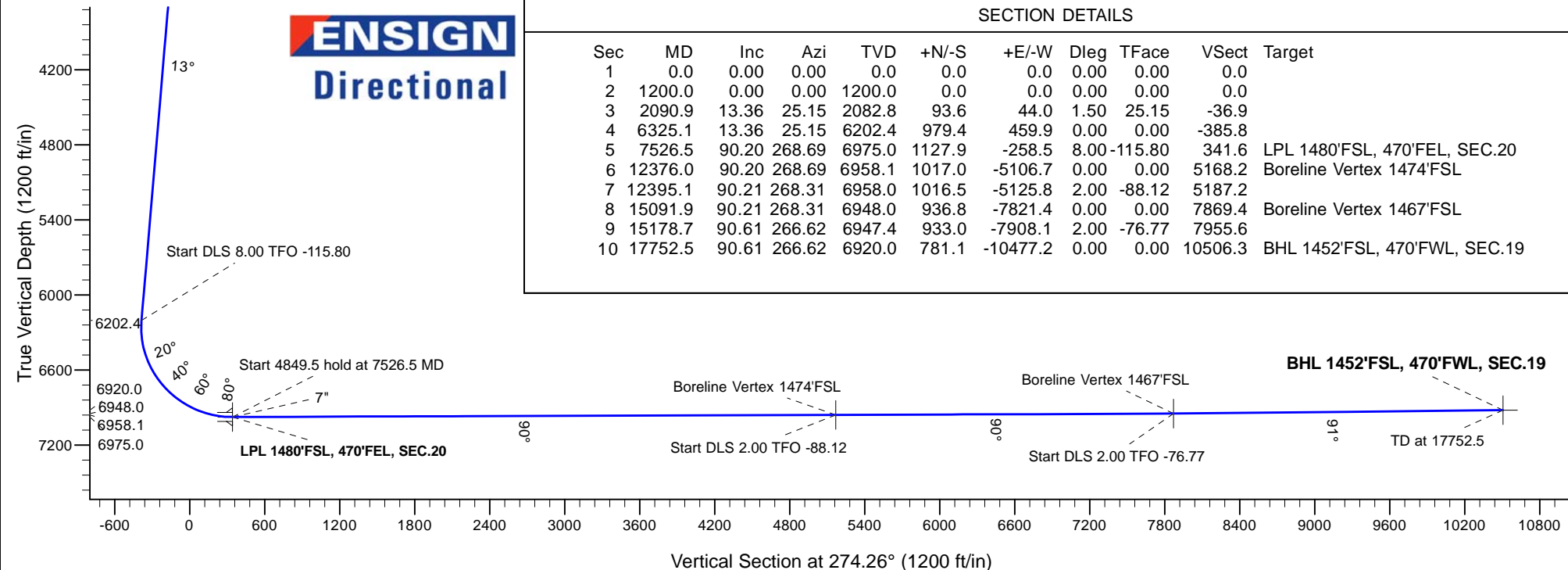
ANNOTATIONS

TVD	MD	Annotation
1200.0	1200.0	KOP - Start Build 1.50
6202.4	6325.1	Start DLS 8.00 TFO -115.80
6975.0	7526.5	Start 4849.5 hold at 7526.5 MD
6958.1	12376.0	Start DLS 2.00 TFO -88.12
6948.0	15091.9	Start DLS 2.00 TFO -76.77
6920.0	17752.5	TD at 17752.5



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	2090.9	13.36	25.15	2082.8	93.6	44.0	1.50	25.15	-36.9	
4	6325.1	13.36	25.15	6202.4	979.4	459.9	0.00	0.00	-385.8	
5	7526.5	90.20	268.69	6975.0	1127.9	-258.5	8.00	-115.80	341.6	LPL 1480'FSL, 470'FEL, SEC.20
6	12376.0	90.20	268.69	6958.1	1017.0	-5106.7	0.00	0.00	5168.2	Boreline Vertex 1474'FSL
7	12395.1	90.21	268.31	6958.0	1016.5	-5125.8	2.00	-88.12	5187.2	
8	15091.9	90.21	268.31	6948.0	936.8	-7821.4	0.00	0.00	7869.4	Boreline Vertex 1467'FSL
9	15178.7	90.61	266.62	6947.4	933.0	-7908.1	2.00	-76.77	7955.6	
10	17752.5	90.61	266.62	6920.0	781.1	-10477.2	0.00	0.00	10506.3	BHL 1452'FSL, 470'FWL, SEC.19





Bayswater Exploration & Production, LLC

SEC.20-T6N-R66W

Ward 20-M Pad Sec. 20-T6N-R66W

Ward R-20-19HN

Wellbore #1

Plan: Plan #2 (6-14-16)

Standard Planning Report

16 June, 2016



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Database:	US_EDM	Local Co-ordinate Reference:	Well Ward R-20-19HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4751.0ft (RKB - 23')
Project:	SEC.20-T6N-R66W	MD Reference:	WELL @ 4751.0ft (RKB - 23')
Site:	Ward 20-M Pad Sec. 20-T6N-R66W	North Reference:	True
Well:	Ward R-20-19HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-14-16)		

Project	SEC.20-T6N-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		Ward 20-M Pad Sec. 20-T6N-R66W			
Site Position:		Northing:	1,413,957.04 usft	Latitude:	40.467562
From:	Lat/Long	Easting:	3,196,665.10 usft	Longitude:	-104.793156
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46

Well	Ward R-20-19HN					
Well Position	+N/-S	-75.1 ft	Northing:	1,413,881.99 usft	Latitude:	40.467356
	+E/-W	0.0 ft	Easting:	3,196,665.70 usft	Longitude:	-104.793156
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,728.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/16/2016	8.21	66.93	52,637

Design	Plan #2 (6-14-16)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	274.26

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,090.9	13.36	25.15	2,082.8	93.6	44.0	1.50	1.50	0.00	25.15	
6,325.1	13.36	25.15	6,202.4	979.4	459.9	0.00	0.00	0.00	0.00	
7,526.5	90.20	268.69	6,975.0	1,127.9	-258.5	8.00	6.40	-9.69	-115.80	LPL 1480'FSL, 470'F
12,376.0	90.20	268.69	6,958.1	1,017.0	-5,106.7	0.00	0.00	0.00	0.00	Boreline Vertex 1474'
12,395.1	90.21	268.31	6,958.0	1,016.5	-5,125.8	2.00	0.07	-2.00	-88.12	
15,091.9	90.21	268.31	6,948.0	936.8	-7,821.4	0.00	0.00	0.00	0.00	Boreline Vertex 1467'
15,178.7	90.61	266.62	6,947.4	933.0	-7,908.1	2.00	0.46	-1.95	-76.77	
17,752.5	90.61	266.62	6,920.0	781.1	-10,477.2	0.00	0.00	0.00	0.00	BHL 1452'FSL, 470'F

Database:	US_EDM	Local Co-ordinate Reference:	Well Ward R-20-19HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4751.0ft (RKB - 23')
Project:	SEC.20-T6N-R66W	MD Reference:	WELL @ 4751.0ft (RKB - 23')
Site:	Ward 20-M Pad Sec. 20-T6N-R66W	North Reference:	True
Well:	Ward R-20-19HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-14-16)		

Planned 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
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
1,300.0	1.50	25.15	1,300.0	1.2	0.6	-0.5	1.50	1.50	0.00
1,400.0	3.00	25.15	1,399.9	4.7	2.2	-1.9	1.50	1.50	0.00
1,500.0	4.50	25.15	1,499.7	10.7	5.0	-4.2	1.50	1.50	0.00
1,600.0	6.00	25.15	1,599.3	18.9	8.9	-7.5	1.50	1.50	0.00
1,700.0	7.50	25.15	1,698.6	29.6	13.9	-11.7	1.50	1.50	0.00
1,800.0	9.00	25.15	1,797.5	42.6	20.0	-16.8	1.50	1.50	0.00
1,900.0	10.50	25.15	1,896.1	57.9	27.2	-22.8	1.50	1.50	0.00
2,000.0	12.00	25.15	1,994.2	75.6	35.5	-29.8	1.50	1.50	0.00
2,090.9	13.36	25.15	2,082.8	93.6	44.0	-36.9	1.50	1.50	0.00
2,100.0	13.36	25.15	2,091.7	95.5	44.9	-37.6	0.00	0.00	0.00
2,200.0	13.36	25.15	2,189.0	116.4	54.7	-45.9	0.00	0.00	0.00
2,300.0	13.36	25.15	2,286.3	137.4	64.5	-54.1	0.00	0.00	0.00
2,400.0	13.36	25.15	2,383.6	158.3	74.3	-62.4	0.00	0.00	0.00
2,500.0	13.36	25.15	2,480.9	179.2	84.2	-70.6	0.00	0.00	0.00
2,600.0	13.36	25.15	2,578.2	200.1	94.0	-78.8	0.00	0.00	0.00
2,700.0	13.36	25.15	2,675.5	221.0	103.8	-87.1	0.00	0.00	0.00
2,800.0	13.36	25.15	2,772.7	242.0	113.6	-95.3	0.00	0.00	0.00
2,900.0	13.36	25.15	2,870.0	262.9	123.5	-103.6	0.00	0.00	0.00
3,000.0	13.36	25.15	2,967.3	283.8	133.3	-111.8	0.00	0.00	0.00
3,100.0	13.36	25.15	3,064.6	304.7	143.1	-120.0	0.00	0.00	0.00
3,200.0	13.36	25.15	3,161.9	325.6	152.9	-128.3	0.00	0.00	0.00
3,300.0	13.36	25.15	3,259.2	346.6	162.7	-136.5	0.00	0.00	0.00
3,400.0	13.36	25.15	3,356.5	367.5	172.6	-144.8	0.00	0.00	0.00
3,500.0	13.36	25.15	3,453.8	388.4	182.4	-153.0	0.00	0.00	0.00
3,600.0	13.36	25.15	3,551.1	409.3	192.2	-161.3	0.00	0.00	0.00
3,700.0	13.36	25.15	3,648.4	430.2	202.0	-169.5	0.00	0.00	0.00
3,800.0	13.36	25.15	3,745.7	451.2	211.9	-177.7	0.00	0.00	0.00
3,900.0	13.36	25.15	3,843.0	472.1	221.7	-186.0	0.00	0.00	0.00
4,000.0	13.36	25.15	3,940.3	493.0	231.5	-194.2	0.00	0.00	0.00
4,100.0	13.36	25.15	4,037.5	513.9	241.3	-202.5	0.00	0.00	0.00
4,200.0	13.36	25.15	4,134.8	534.8	251.2	-210.7	0.00	0.00	0.00
4,300.0	13.36	25.15	4,232.1	555.8	261.0	-218.9	0.00	0.00	0.00
4,400.0	13.36	25.15	4,329.4	576.7	270.8	-227.2	0.00	0.00	0.00
4,500.0	13.36	25.15	4,426.7	597.6	280.6	-235.4	0.00	0.00	0.00
4,600.0	13.36	25.15	4,524.0	618.5	290.5	-243.7	0.00	0.00	0.00
4,700.0	13.36	25.15	4,621.3	639.4	300.3	-251.9	0.00	0.00	0.00
4,800.0	13.36	25.15	4,718.6	660.4	310.1	-260.2	0.00	0.00	0.00
4,900.0	13.36	25.15	4,815.9	681.3	319.9	-268.4	0.00	0.00	0.00
5,000.0	13.36	25.15	4,913.2	702.2	329.8	-276.6	0.00	0.00	0.00
5,100.0	13.36	25.15	5,010.5	723.1	339.6	-284.9	0.00	0.00	0.00

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Site:	Ward 20-M Pad Sec. 20-T6N-R66W	North Reference:	True
Well:	Ward R-20-19HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-14-16)		

Planned 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)
5,200.0	13.36	25.15	5,107.8	744.1	349.4	-293.1	0.00	0.00	0.00
5,300.0	13.36	25.15	5,205.1	765.0	359.2	-301.4	0.00	0.00	0.00
5,400.0	13.36	25.15	5,302.3	785.9	369.1	-309.6	0.00	0.00	0.00
5,500.0	13.36	25.15	5,399.6	806.8	378.9	-317.8	0.00	0.00	0.00
5,600.0	13.36	25.15	5,496.9	827.7	388.7	-326.1	0.00	0.00	0.00
5,700.0	13.36	25.15	5,594.2	848.7	398.5	-334.3	0.00	0.00	0.00
5,800.0	13.36	25.15	5,691.5	869.6	408.4	-342.6	0.00	0.00	0.00
5,900.0	13.36	25.15	5,788.8	890.5	418.2	-350.8	0.00	0.00	0.00
6,000.0	13.36	25.15	5,886.1	911.4	428.0	-359.1	0.00	0.00	0.00
6,100.0	13.36	25.15	5,983.4	932.3	437.8	-367.3	0.00	0.00	0.00
6,200.0	13.36	25.15	6,080.7	953.3	447.6	-375.5	0.00	0.00	0.00
6,300.0	13.36	25.15	6,178.0	974.2	457.5	-383.8	0.00	0.00	0.00
6,325.1	13.36	25.15	6,202.4	979.4	459.9	-385.8	0.00	0.00	0.00
Start DLS 8.00 TFO -115.80									
6,400.0	12.01	358.32	6,275.5	995.1	463.4	-388.1	8.00	-1.81	-35.83
6,500.0	14.45	324.41	6,373.0	1,015.6	455.8	-379.0	8.00	2.43	-33.91
6,600.0	19.98	304.54	6,468.6	1,035.5	434.5	-356.3	8.00	5.53	-19.86
6,700.0	26.75	293.69	6,560.4	1,054.3	399.7	-320.2	8.00	6.77	-10.85
6,800.0	34.03	287.09	6,646.6	1,071.6	352.3	-271.6	8.00	7.28	-6.60
6,900.0	41.55	282.62	6,725.6	1,087.1	293.1	-211.4	8.00	7.52	-4.47
7,000.0	49.20	279.31	6,795.8	1,100.4	223.2	-140.8	8.00	7.65	-3.31
7,100.0	56.93	276.70	6,855.8	1,111.5	144.1	-61.1	8.00	7.72	-2.62
7,200.0	64.69	274.50	6,904.6	1,119.9	57.3	26.1	8.00	7.77	-2.19
7,300.0	72.49	272.58	6,941.0	1,125.6	-35.5	119.1	8.00	7.80	-1.92
7,400.0	80.31	270.81	6,964.5	1,128.5	-132.6	216.1	8.00	7.81	-1.77
7,500.0	88.13	269.13	6,974.6	1,128.4	-232.0	315.3	8.00	7.82	-1.68
7,526.5	90.20	268.69	6,975.0	1,127.9	-258.5	341.6	7.99	7.82	-1.66
Start 4849.5 hold at 7526.5 MD									
7,600.0	90.20	268.69	6,974.7	1,126.2	-332.0	414.8	0.00	0.00	0.00
7,700.0	90.20	268.69	6,974.4	1,124.0	-431.9	514.3	0.00	0.00	0.00
7,800.0	90.20	268.69	6,974.0	1,121.7	-531.9	613.8	0.00	0.00	0.00
7,900.0	90.20	268.69	6,973.7	1,119.4	-631.9	713.4	0.00	0.00	0.00
8,000.0	90.20	268.69	6,973.3	1,117.1	-731.9	812.9	0.00	0.00	0.00
8,100.0	90.20	268.69	6,973.0	1,114.8	-831.8	912.4	0.00	0.00	0.00
8,200.0	90.20	268.69	6,972.6	1,112.5	-931.8	1,011.9	0.00	0.00	0.00
8,300.0	90.20	268.69	6,972.3	1,110.2	-1,031.8	1,111.5	0.00	0.00	0.00
8,400.0	90.20	268.69	6,972.0	1,107.9	-1,131.8	1,211.0	0.00	0.00	0.00
8,500.0	90.20	268.69	6,971.6	1,105.6	-1,231.7	1,310.5	0.00	0.00	0.00
8,600.0	90.20	268.69	6,971.3	1,103.4	-1,331.7	1,410.1	0.00	0.00	0.00
8,700.0	90.20	268.69	6,970.9	1,101.1	-1,431.7	1,509.6	0.00	0.00	0.00
8,800.0	90.20	268.69	6,970.6	1,098.8	-1,531.7	1,609.1	0.00	0.00	0.00
8,900.0	90.20	268.69	6,970.2	1,096.5	-1,631.6	1,708.6	0.00	0.00	0.00
9,000.0	90.20	268.69	6,969.9	1,094.2	-1,731.6	1,808.2	0.00	0.00	0.00
9,100.0	90.20	268.69	6,969.5	1,091.9	-1,831.6	1,907.7	0.00	0.00	0.00
9,200.0	90.20	268.69	6,969.2	1,089.6	-1,931.5	2,007.2	0.00	0.00	0.00
9,300.0	90.20	268.69	6,968.8	1,087.3	-2,031.5	2,106.7	0.00	0.00	0.00
9,400.0	90.20	268.69	6,968.5	1,085.1	-2,131.5	2,206.3	0.00	0.00	0.00
9,500.0	90.20	268.69	6,968.1	1,082.8	-2,231.5	2,305.8	0.00	0.00	0.00
9,600.0	90.20	268.69	6,967.8	1,080.5	-2,331.4	2,405.3	0.00	0.00	0.00
9,700.0	90.20	268.69	6,967.4	1,078.2	-2,431.4	2,504.8	0.00	0.00	0.00
9,800.0	90.20	268.69	6,967.1	1,075.9	-2,531.4	2,604.4	0.00	0.00	0.00
9,900.0	90.20	268.69	6,966.7	1,073.6	-2,631.4	2,703.9	0.00	0.00	0.00
10,000.0	90.20	268.69	6,966.4	1,071.3	-2,731.3	2,803.4	0.00	0.00	0.00
10,100.0	90.20	268.69	6,966.0	1,069.0	-2,831.3	2,903.0	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Ward R-20-19HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4751.0ft (RKB - 23')
Project:	SEC.20-T6N-R66W	MD Reference:	WELL @ 4751.0ft (RKB - 23')
Site:	Ward 20-M Pad Sec. 20-T6N-R66W	North Reference:	True
Well:	Ward R-20-19HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-14-16)		

Planned 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)
10,200.0	90.20	268.69	6,965.7	1,066.8	-2,931.3	3,002.5	0.00	0.00	0.00
10,300.0	90.20	268.69	6,965.3	1,064.5	-3,031.3	3,102.0	0.00	0.00	0.00
10,400.0	90.20	268.69	6,965.0	1,062.2	-3,131.2	3,201.5	0.00	0.00	0.00
10,500.0	90.20	268.69	6,964.6	1,059.9	-3,231.2	3,301.1	0.00	0.00	0.00
10,600.0	90.20	268.69	6,964.3	1,057.6	-3,331.2	3,400.6	0.00	0.00	0.00
10,700.0	90.20	268.69	6,963.9	1,055.3	-3,431.1	3,500.1	0.00	0.00	0.00
10,800.0	90.20	268.69	6,963.6	1,053.0	-3,531.1	3,599.6	0.00	0.00	0.00
10,900.0	90.20	268.69	6,963.2	1,050.7	-3,631.1	3,699.2	0.00	0.00	0.00
11,000.0	90.20	268.69	6,962.9	1,048.5	-3,731.1	3,798.7	0.00	0.00	0.00
11,100.0	90.20	268.69	6,962.5	1,046.2	-3,831.0	3,898.2	0.00	0.00	0.00
11,200.0	90.20	268.69	6,962.2	1,043.9	-3,931.0	3,997.7	0.00	0.00	0.00
11,300.0	90.20	268.69	6,961.8	1,041.6	-4,031.0	4,097.3	0.00	0.00	0.00
11,400.0	90.20	268.69	6,961.5	1,039.3	-4,131.0	4,196.8	0.00	0.00	0.00
11,500.0	90.20	268.69	6,961.1	1,037.0	-4,230.9	4,296.3	0.00	0.00	0.00
11,600.0	90.20	268.69	6,960.8	1,034.7	-4,330.9	4,395.8	0.00	0.00	0.00
11,700.0	90.20	268.69	6,960.4	1,032.4	-4,430.9	4,495.4	0.00	0.00	0.00
11,800.0	90.20	268.69	6,960.1	1,030.2	-4,530.9	4,594.9	0.00	0.00	0.00
11,900.0	90.20	268.69	6,959.7	1,027.9	-4,630.8	4,694.4	0.00	0.00	0.00
12,000.0	90.20	268.69	6,959.4	1,025.6	-4,730.8	4,794.0	0.00	0.00	0.00
12,100.0	90.20	268.69	6,959.0	1,023.3	-4,830.8	4,893.5	0.00	0.00	0.00
12,200.0	90.20	268.69	6,958.7	1,021.0	-4,930.7	4,993.0	0.00	0.00	0.00
12,300.0	90.20	268.69	6,958.3	1,018.7	-5,030.7	5,092.5	0.00	0.00	0.00
12,376.0	90.20	268.69	6,958.1	1,017.0	-5,106.7	5,168.2	0.00	0.00	0.00
Start DLS 2.00 TFO -88.12									
12,395.1	90.21	268.31	6,958.0	1,016.5	-5,125.8	5,187.2	2.00	0.07	-2.00
12,400.0	90.21	268.31	6,958.0	1,016.3	-5,130.7	5,192.1	0.00	0.00	0.00
12,500.0	90.21	268.31	6,957.6	1,013.4	-5,230.6	5,291.5	0.00	0.00	0.00
12,600.0	90.21	268.31	6,957.2	1,010.4	-5,330.6	5,391.0	0.00	0.00	0.00
12,700.0	90.21	268.31	6,956.9	1,007.5	-5,430.6	5,490.4	0.00	0.00	0.00
12,800.0	90.21	268.31	6,956.5	1,004.5	-5,530.5	5,589.9	0.00	0.00	0.00
12,900.0	90.21	268.31	6,956.1	1,001.6	-5,630.5	5,689.3	0.00	0.00	0.00
13,000.0	90.21	268.31	6,955.8	998.6	-5,730.4	5,788.8	0.00	0.00	0.00
13,100.0	90.21	268.31	6,955.4	995.7	-5,830.4	5,888.3	0.00	0.00	0.00
13,200.0	90.21	268.31	6,955.0	992.7	-5,930.3	5,987.7	0.00	0.00	0.00
13,300.0	90.21	268.31	6,954.6	989.7	-6,030.3	6,087.2	0.00	0.00	0.00
13,400.0	90.21	268.31	6,954.3	986.8	-6,130.2	6,186.6	0.00	0.00	0.00
13,500.0	90.21	268.31	6,953.9	983.8	-6,230.2	6,286.1	0.00	0.00	0.00
13,600.0	90.21	268.31	6,953.5	980.9	-6,330.2	6,385.6	0.00	0.00	0.00
13,700.0	90.21	268.31	6,953.2	977.9	-6,430.1	6,485.0	0.00	0.00	0.00
13,800.0	90.21	268.31	6,952.8	975.0	-6,530.1	6,584.5	0.00	0.00	0.00
13,900.0	90.21	268.31	6,952.4	972.0	-6,630.0	6,683.9	0.00	0.00	0.00
14,000.0	90.21	268.31	6,952.1	969.1	-6,730.0	6,783.4	0.00	0.00	0.00
14,100.0	90.21	268.31	6,951.7	966.1	-6,829.9	6,882.9	0.00	0.00	0.00
14,200.0	90.21	268.31	6,951.3	963.2	-6,929.9	6,982.3	0.00	0.00	0.00
14,300.0	90.21	268.31	6,950.9	960.2	-7,029.8	7,081.8	0.00	0.00	0.00
14,400.0	90.21	268.31	6,950.6	957.2	-7,129.8	7,181.2	0.00	0.00	0.00
14,500.0	90.21	268.31	6,950.2	954.3	-7,229.8	7,280.7	0.00	0.00	0.00
14,600.0	90.21	268.31	6,949.8	951.3	-7,329.7	7,380.2	0.00	0.00	0.00
14,700.0	90.21	268.31	6,949.5	948.4	-7,429.7	7,479.6	0.00	0.00	0.00
14,800.0	90.21	268.31	6,949.1	945.4	-7,529.6	7,579.1	0.00	0.00	0.00
14,900.0	90.21	268.31	6,948.7	942.5	-7,629.6	7,678.5	0.00	0.00	0.00
15,000.0	90.21	268.31	6,948.3	939.5	-7,729.5	7,778.0	0.00	0.00	0.00
15,091.9	90.21	268.31	6,948.0	936.8	-7,821.4	7,869.4	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Ward R-20-19HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4751.0ft (RKB - 23')
Project:	SEC.20-T6N-R66W	MD Reference:	WELL @ 4751.0ft (RKB - 23')
Site:	Ward 20-M Pad Sec. 20-T6N-R66W	North Reference:	True
Well:	Ward R-20-19HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-14-16)		

Planned 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)
Start DLS 2.00 TFO -76.77									
15,100.0	90.25	268.15	6,948.0	936.6	-7,829.5	7,877.5	1.99	0.46	-1.94
15,178.7	90.61	266.62	6,947.4	933.0	-7,908.1	7,955.6	2.00	0.46	-1.95
15,200.0	90.61	266.62	6,947.2	931.7	-7,929.4	7,976.7	0.00	0.00	0.00
15,300.0	90.61	266.62	6,946.1	925.8	-8,029.2	8,075.8	0.00	0.00	0.00
15,400.0	90.61	266.62	6,945.0	919.9	-8,129.0	8,174.9	0.00	0.00	0.00
15,500.0	90.61	266.62	6,944.0	914.0	-8,228.8	8,274.0	0.00	0.00	0.00
15,600.0	90.61	266.62	6,942.9	908.1	-8,328.6	8,373.1	0.00	0.00	0.00
15,700.0	90.61	266.62	6,941.8	902.2	-8,428.5	8,472.2	0.00	0.00	0.00
15,800.0	90.61	266.62	6,940.8	896.3	-8,528.3	8,571.3	0.00	0.00	0.00
15,900.0	90.61	266.62	6,939.7	890.4	-8,628.1	8,670.4	0.00	0.00	0.00
16,000.0	90.61	266.62	6,938.6	884.5	-8,727.9	8,769.5	0.00	0.00	0.00
16,100.0	90.61	266.62	6,937.6	878.6	-8,827.7	8,868.6	0.00	0.00	0.00
16,200.0	90.61	266.62	6,936.5	872.7	-8,927.6	8,967.7	0.00	0.00	0.00
16,300.0	90.61	266.62	6,935.4	866.8	-9,027.4	9,066.8	0.00	0.00	0.00
16,400.0	90.61	266.62	6,934.4	860.9	-9,127.2	9,166.0	0.00	0.00	0.00
16,500.0	90.61	266.62	6,933.3	855.0	-9,227.0	9,265.1	0.00	0.00	0.00
16,600.0	90.61	266.62	6,932.3	849.1	-9,326.8	9,364.2	0.00	0.00	0.00
16,700.0	90.61	266.62	6,931.2	843.2	-9,426.7	9,463.3	0.00	0.00	0.00
16,800.0	90.61	266.62	6,930.1	837.3	-9,526.5	9,562.4	0.00	0.00	0.00
16,900.0	90.61	266.62	6,929.1	831.4	-9,626.3	9,661.5	0.00	0.00	0.00
17,000.0	90.61	266.62	6,928.0	825.5	-9,726.1	9,760.6	0.00	0.00	0.00
17,100.0	90.61	266.62	6,926.9	819.6	-9,825.9	9,859.7	0.00	0.00	0.00
17,200.0	90.61	266.62	6,925.9	813.7	-9,925.8	9,958.8	0.00	0.00	0.00
17,300.0	90.61	266.62	6,924.8	807.8	-10,025.6	10,057.9	0.00	0.00	0.00
17,400.0	90.61	266.62	6,923.7	801.9	-10,125.4	10,157.0	0.00	0.00	0.00
17,500.0	90.61	266.62	6,922.7	796.0	-10,225.2	10,256.1	0.00	0.00	0.00
17,600.0	90.61	266.62	6,921.6	790.1	-10,325.0	10,355.2	0.00	0.00	0.00
17,700.0	90.61	266.62	6,920.6	784.2	-10,424.9	10,454.3	0.00	0.00	0.00
17,752.5	90.61	266.62	6,920.0	781.1	-10,477.2	10,506.3	0.00	0.00	0.00
TD at 17752.5									

Database:	US_EDM	Local Co-ordinate Reference:	Well Ward R-20-19HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4751.0ft (RKB - 23')
Project:	SEC.20-T6N-R66W	MD Reference:	WELL @ 4751.0ft (RKB - 23')
Site:	Ward 20-M Pad Sec. 20-T6N-R66W	North Reference:	True
Well:	Ward R-20-19HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (6-14-16)		

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 349'FSL, 213'FEL, : - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,413,881.99	3,196,665.70	40.467356	-104.793156	
BHL 1452'FSL, 470'FWL - plan hits target center - Point	0.00	0.00	6,920.0	781.1	-10,477.2	1,414,579.56	3,186,182.97	40.469494	-104.830812	
Boreline Vertex 1467'FS - plan hits target center - Point	0.00	0.00	6,948.0	936.8	-7,821.4	1,414,756.39	3,188,837.35	40.469924	-104.821267	
Boreline Vertex 1474'FS - plan hits target center - Point	0.00	0.00	6,958.1	1,017.0	-5,106.7	1,414,858.19	3,191,551.26	40.470146	-104.811510	
LPL 1480'FSL, 470'FEL, - plan hits target center - Point	0.00	0.00	6,975.0	1,127.9	-258.5	1,415,007.77	3,196,398.25	40.470452	-104.794085	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,526.5	6,975.0	7"	7	8-3/4	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,200.0	1,200.0	0.0	0.0	KOP - Start Build 1.50	
6,325.1	6,202.4	93.6	44.0	Start DLS 8.00 TFO -115.80	
7,526.5	6,975.0	979.4	459.9	Start 4849.5 hold at 7526.5 MD	
12,376.0	6,958.1	1,127.9	-258.5	Start DLS 2.00 TFO -88.12	
15,091.9	6,948.0	1,017.0	-5,106.7	Start DLS 2.00 TFO -76.77	
17,752.5	6,920.0	1,016.5	-5,125.8	TD at 17752.5	