

Well Name: **Booth 3-23**

Surface Location: Booth 10 Pad Sec.23-T7N-R65W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

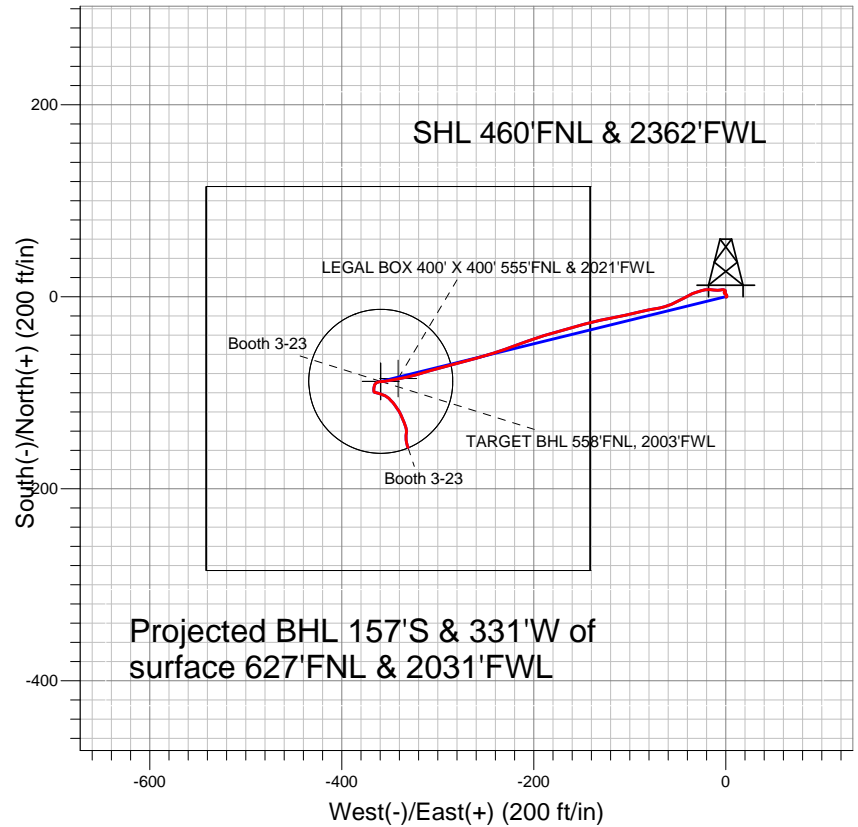
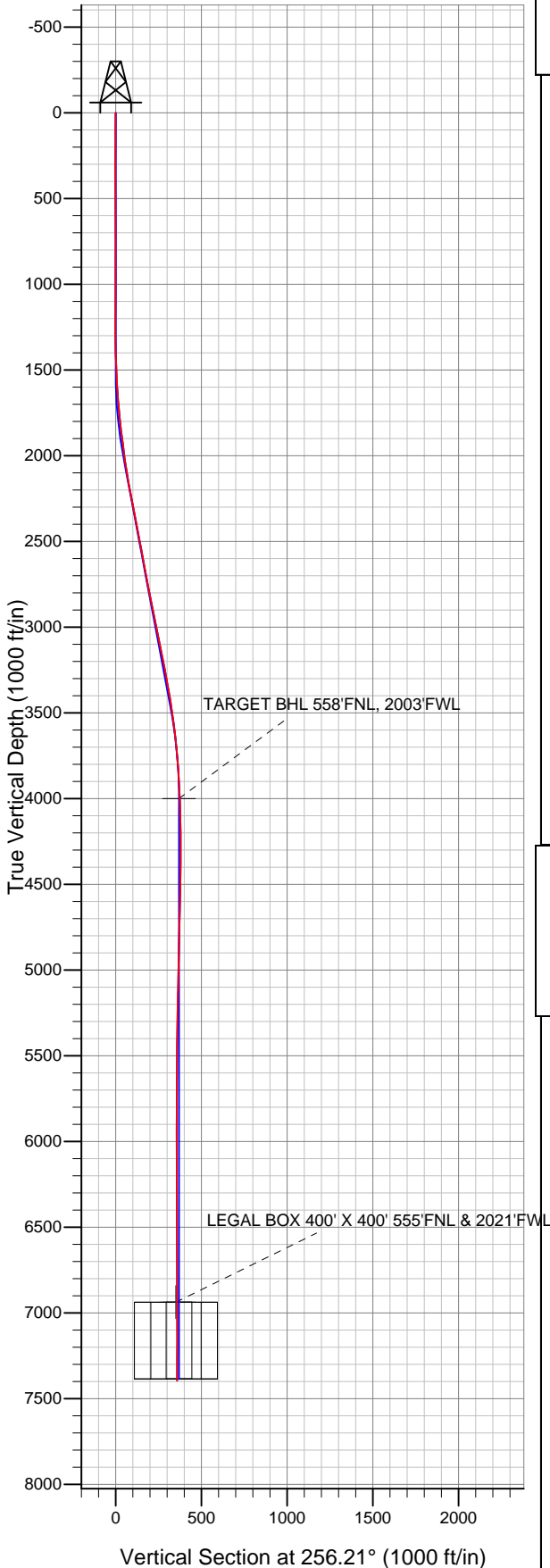
Ground Elevation: 4896.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1449876.97	3241369.26	40.565066	-104.631227

Original Well Elev WELL @ 4912.0ft (Original Well Elev)

Slot

BAYSWATER EXPLORATION & PRODUCTION



LEGEND

- △ Booth 3-23, Wellbore #1, Plan #1 (11-21-12) R V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7427' MD & 7395' TVD @ 359' VS
0.5 deg Inc 155.4 deg AZ

Project: SEC.23-T7N-R65W
Site: Booth 10 Pad Sec.23-T7N-R65W
Well: Booth 3-23
Plan: Wellbore #1



Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.23-T7N-R65W

Booth 10 Pad Sec.23-T7N-R65W

Booth 3-23

Wellbore #1

Survey: Survey #1

Standard Survey Report

03 December, 2012

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Booth 3-23
Project:	SEC.23-T7N-R65W	TVD Reference:	WELL @ 4912.0ft (Original Well Elev)
Site:	Booth 10 Pad Sec.23-T7N-R65W	MD Reference:	WELL @ 4912.0ft (Original Well Elev)
Well:	Booth 3-23	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.23-T7N-R65W, Weld County, CO		
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		Booth 10 Pad Sec.23-T7N-R65W			
Site Position:		Northing:	1,449,951.39ft	Latitude:	40.565271
From:	Lat/Long	Easting:	3,241,340.20ft	Longitude:	-104.631329
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.56 °

Well	Booth 3-23					
Well Position	+N-S	0.0 ft	Northing:	1,449,876.97 ft	Latitude:	40.565066
	+E-W	0.0 ft	Easting:	3,241,369.26 ft	Longitude:	-104.631227
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,896.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/21/2012	8.61	67.16	53,080

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	256.21	

Survey Program	Date	12/3/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
96.0	7,427.0	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	
96.0	0.70	120.40	96.0	-0.3	0.5	-0.4	0.73	0.73	0.00	
183.0	0.40	5.10	183.0	-0.3	1.0	-0.9	1.08	-0.34	-132.53	
273.0	0.70	10.20	273.0	0.6	1.1	-1.2	0.34	0.33	5.67	
364.0	0.40	338.40	364.0	1.4	1.1	-1.4	0.46	-0.33	-34.95	
455.0	0.40	337.90	455.0	2.0	0.9	-1.3	0.00	0.00	-0.55	
546.0	0.50	283.90	546.0	2.4	0.4	-0.9	0.46	0.11	-59.34	
639.0	0.60	300.60	639.0	2.8	-0.5	-0.2	0.20	0.11	17.96	
735.0	0.90	330.70	735.0	3.7	-1.3	0.3	0.51	0.31	31.35	
828.0	0.20	61.50	828.0	4.4	-1.5	0.4	0.99	-0.75	97.63	
922.0	0.50	46.80	922.0	4.7	-1.0	-0.1	0.33	0.32	-15.64	
1,016.0	0.70	157.90	1,016.0	4.5	-0.5	-0.6	1.06	0.21	118.19	

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Booth 3-23
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Site:	Booth 10 Pad Sec.23-T7N-R65W	MD Reference:	WELL @ 4912.0ft (Original Well Elev)
Well:	Booth 3-23	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)
1,110.0	1.10	355.10	1,110.0	4.9	-0.4	-0.8	1.89	0.43	-173.19
1,203.0	0.40	9.00	1,202.9	6.1	-0.4	-1.1	0.77	-0.75	14.95
1,297.0	0.40	317.60	1,296.9	6.6	-0.6	-1.0	0.37	0.00	-54.68
1,391.0	1.80	281.40	1,390.9	7.2	-2.2	0.5	1.59	1.49	-38.51
1,484.0	2.30	253.70	1,483.9	6.9	-5.5	3.7	1.18	0.54	-29.79
1,578.0	3.10	277.60	1,577.8	6.7	-9.8	7.9	1.45	0.85	25.43
1,672.0	4.80	274.40	1,671.5	7.4	-16.2	14.0	1.82	1.81	-3.40
1,765.0	5.90	255.20	1,764.1	6.5	-24.7	22.5	2.24	1.18	-20.65
1,859.0	6.70	247.50	1,857.6	3.1	-34.5	32.7	1.24	0.85	-8.19
1,953.0	7.70	239.90	1,950.8	-2.1	-45.0	44.2	1.47	1.06	-8.09
2,046.0	8.50	246.60	2,042.9	-8.0	-56.7	57.0	1.33	0.86	7.20
2,140.0	10.00	260.30	2,135.7	-12.1	-71.1	71.9	2.82	1.60	14.57
2,234.0	10.90	257.20	2,228.1	-15.5	-87.8	89.0	1.13	0.96	-3.30
2,328.0	10.60	257.00	2,320.5	-19.4	-104.9	106.5	0.32	-0.32	-0.21
2,421.0	10.50	259.80	2,411.9	-22.8	-121.6	123.5	0.56	-0.11	3.01
2,515.0	11.50	255.90	2,504.2	-26.6	-139.1	141.4	1.33	1.06	-4.15
2,609.0	9.90	254.40	2,596.5	-31.1	-156.0	158.9	1.73	-1.70	-1.60
2,702.0	10.60	254.50	2,688.1	-35.5	-171.9	175.4	0.75	0.75	0.11
2,796.0	11.60	252.40	2,780.3	-40.7	-189.3	193.5	1.15	1.06	-2.23
2,890.0	10.90	251.00	2,872.5	-46.4	-206.7	211.8	0.80	-0.74	-1.49
2,983.0	11.50	249.10	2,963.7	-52.6	-223.6	229.7	0.76	0.65	-2.04
3,077.0	11.30	252.30	3,055.9	-58.7	-241.2	248.2	0.71	-0.21	3.40
3,171.0	12.20	255.80	3,147.9	-64.0	-259.6	267.3	1.22	0.96	3.72
3,264.0	10.70	254.00	3,239.1	-68.8	-277.4	285.8	1.66	-1.61	-1.94
3,358.0	9.80	255.10	3,331.6	-73.2	-293.5	302.5	0.98	-0.96	1.17
3,452.0	9.20	254.40	3,424.3	-77.3	-308.5	318.0	0.65	-0.64	-0.74
3,546.0	8.00	254.20	3,517.2	-81.1	-322.0	332.1	1.28	-1.28	-0.21
3,639.0	6.80	257.90	3,609.4	-84.0	-333.6	344.0	1.39	-1.29	3.98
3,733.0	5.60	258.60	3,702.9	-86.1	-343.6	354.2	1.28	-1.28	0.74
3,827.0	4.80	260.70	3,796.5	-87.6	-351.9	362.7	0.87	-0.85	2.23
3,920.0	3.40	268.10	3,889.2	-88.3	-358.5	369.3	1.61	-1.51	7.96
4,014.0	2.30	242.80	3,983.1	-89.3	-363.0	373.8	1.75	-1.17	-26.91
4,030.7	2.18	237.94	3,999.9	-89.6	-363.6	374.5	1.34	-0.71	-29.03
TARGET BHL 558'FNL, 2003'FWL									
4,108.0	1.90	209.70	4,077.1	-91.5	-365.5	376.7	1.34	-0.36	-36.55
4,201.0	2.10	182.10	4,170.0	-94.6	-366.3	378.3	1.05	0.22	-29.68
4,295.0	1.10	190.40	4,264.0	-97.2	-366.5	379.1	1.09	-1.06	8.83
4,389.0	1.10	159.60	4,358.0	-98.9	-366.4	379.4	0.62	0.00	-32.77
4,482.0	1.00	94.40	4,451.0	-99.8	-365.2	378.5	1.22	-0.11	-70.11
4,576.0	1.20	110.70	4,544.9	-100.2	-363.5	376.9	0.39	0.21	17.34
4,670.0	1.50	102.30	4,638.9	-100.8	-361.4	375.0	0.38	0.32	-8.94
4,763.0	1.60	107.60	4,731.9	-101.5	-359.0	372.8	0.19	0.11	5.70
4,857.0	1.70	116.90	4,825.8	-102.5	-356.5	370.6	0.30	0.11	9.89
4,951.0	1.60	114.80	4,919.8	-103.7	-354.0	368.5	0.12	-0.11	-2.23
5,045.0	2.00	132.40	5,013.8	-105.3	-351.6	366.6	0.72	0.43	18.72
5,138.0	2.30	134.00	5,106.7	-107.7	-349.1	364.7	0.33	0.32	1.72
5,232.0	2.30	139.60	5,200.6	-110.5	-346.5	362.8	0.24	0.00	5.96
5,326.0	2.40	144.90	5,294.5	-113.5	-344.1	361.3	0.25	0.11	5.64
5,419.0	2.10	147.30	5,387.5	-116.6	-342.1	360.0	0.34	-0.32	2.58
5,513.0	2.10	145.90	5,481.4	-119.4	-340.2	358.9	0.05	0.00	-1.49
5,607.0	1.80	155.40	5,575.3	-122.2	-338.6	358.0	0.47	-0.32	10.11
5,700.0	2.00	161.90	5,668.3	-125.1	-337.5	357.6	0.32	0.22	6.99
5,794.0	2.50	155.90	5,762.2	-128.5	-336.2	357.1	0.59	0.53	-6.38

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

Survey									
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5,888.0	1.90	154.30	5,856.1	-131.8	-334.7	356.4	0.64	-0.64	-1.70
5,981.0	1.40	161.00	5,949.1	-134.2	-333.6	356.0	0.58	-0.54	7.20
6,075.0	1.10	168.60	6,043.1	-136.2	-333.1	355.9	0.36	-0.32	8.09
6,169.0	1.10	172.30	6,137.1	-138.0	-332.8	356.1	0.08	0.00	3.94
6,263.0	1.00	179.50	6,231.1	-139.7	-332.6	356.3	0.18	-0.11	7.66
6,356.0	1.10	178.20	6,324.0	-141.4	-332.6	356.7	0.11	0.11	-1.40
6,450.0	1.10	191.80	6,418.0	-143.2	-332.8	357.3	0.28	0.00	14.47
6,544.0	1.00	185.80	6,512.0	-144.9	-333.0	358.0	0.16	-0.11	-6.38
6,637.0	1.10	179.30	6,605.0	-146.6	-333.1	358.4	0.17	0.11	-6.99
6,731.0	1.00	173.70	6,699.0	-148.3	-333.0	358.7	0.15	-0.11	-5.96
6,825.0	0.90	166.30	6,793.0	-149.8	-332.7	358.9	0.17	-0.11	-7.87
6,918.0	0.90	175.10	6,886.0	-151.3	-332.5	359.0	0.15	0.00	9.46
6,968.0	0.90	169.83	6,935.9	-152.1	-332.4	359.1	0.17	-0.01	-10.53
LEGAL BOX 400' X 400' 555'FNL & 2021'FWL - TARGET CIRCLE 558'FNL & 2003'FWL									
7,012.0	0.90	165.20	6,979.9	-152.7	-332.2	359.1	0.17	0.01	-10.53
7,106.0	0.70	173.20	7,073.9	-154.0	-332.0	359.1	0.24	-0.21	8.51
7,199.0	0.60	161.90	7,166.9	-155.0	-331.8	359.2	0.17	-0.11	-12.15
7,293.0	0.60	150.10	7,260.9	-155.9	-331.4	359.0	0.13	0.00	-12.55
7,387.0	0.40	155.40	7,354.9	-156.7	-331.0	358.8	0.22	-0.21	5.64
7,427.0	0.50	155.40	7,394.9	-156.9	-330.9	358.7	0.25	0.25	0.00

Checked By: _____ Approved By: _____ Date: _____