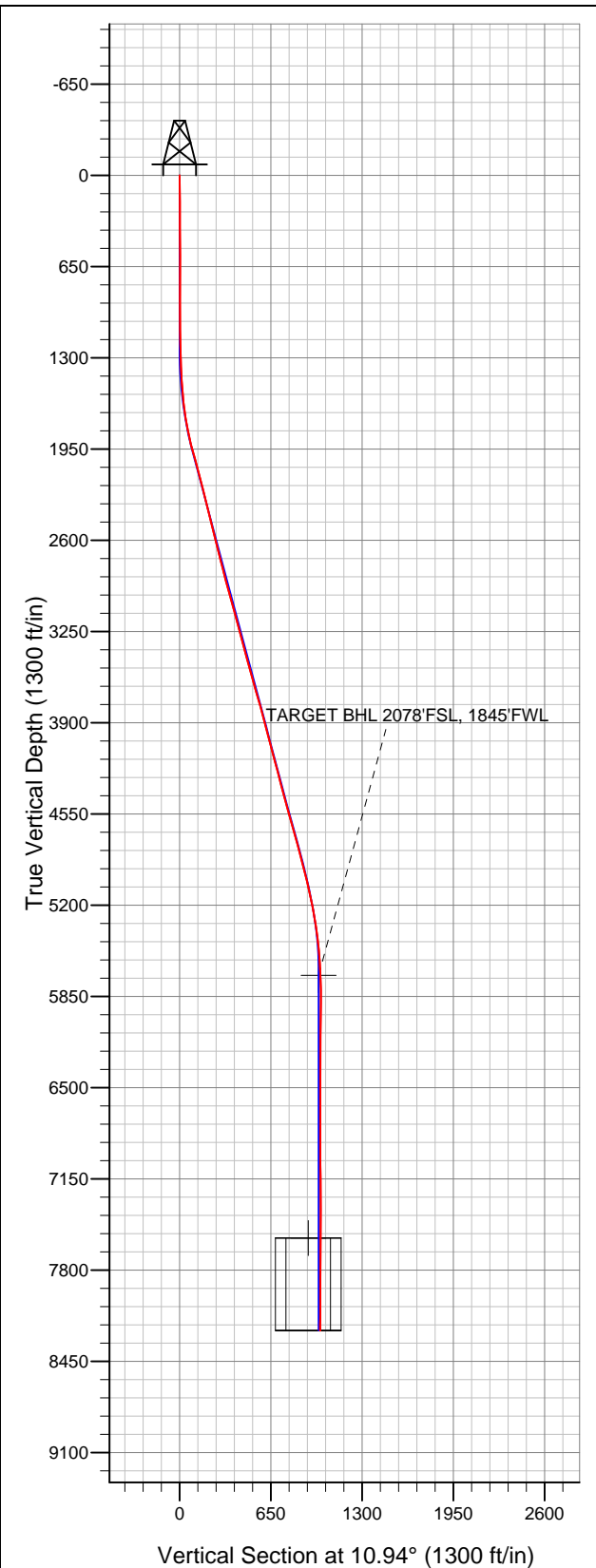


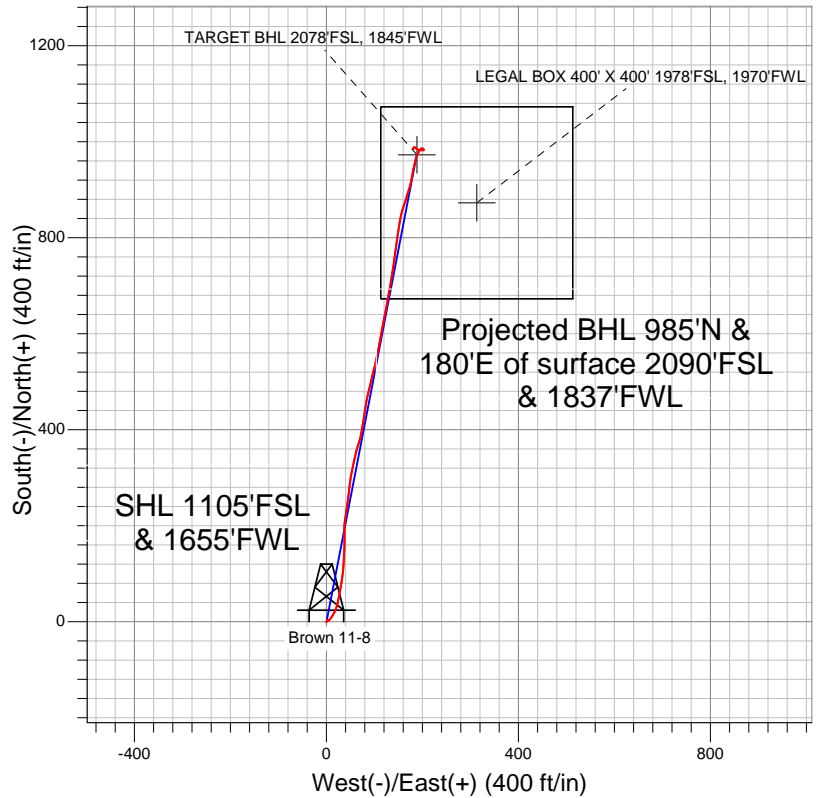
Well Name: Brown 11-8

Surface Location: Brown 13-8 Pad Sec.8-T1S-R67W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 5173.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1234245.59	3163638.72	39.974909	-104.916107	
		Original Well Elev	WELL @ 5186.0ft (Original Well Elev)			



BAYSWATER EXPLORATION & PRODUCTION



LEGEND

- Wellbore #1
- Brown 11-8, Wellbore #1, Plan #1 (4-09-12) R V0
- Survey #1

Final Survey Plot

Projected Final Survey -
8355'MD & 8232'TVD @ 1001'VS
0.70 deg Inc 138.80 deg AZ

Project: SEC.8-T1S-R67W
Site: Brown 13-8 Pad Sec.8-T1S-R67W
Well: Brown 11-8
Plan: Wellbore #1



BAYSWATER EXPLORATION & PRODUCTION

SEC.8-T1S-R67W

Brown 13-8 Pad Sec.8-T1S-R67W

Brown 11-8

Wellbore #1

Survey: Survey #1

Standard Survey Report

17 April, 2012

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Brown 11-8
Project:	SEC.8-T1S-R67W	TVD Reference:	WELL @ 5186.0ft (Original Well Elev)
Site:	Brown 13-8 Pad Sec.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
Well:	Brown 11-8	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.8-T1S-R67W, Adams 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		Brown 13-8 Pad Sec.8-T1S-R67W			
Site Position:		Northing:	1,234,225.91 ft	Latitude:	39.974855
From:	Lat/Long	Easting:	3,163,635.49 ft	Longitude:	-104.916119
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.38 °

Well	Brown 11-8					
Well Position	+N-S	0.0 ft	Northing:	1,234,245.59 ft	Latitude:	39.974909
	+E-W	0.0 ft	Easting:	3,163,638.72 ft	Longitude:	-104.916107
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,173.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/9/2012	8.80	66.65	52,802

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 (°)	
	5,700.0	0.0	0.0	10.94	

Survey Program		Date		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.0	8,355.0	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)
Main Wellbore	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	1.00	57.70	100.0	0.5	0.7	0.6	1.00	1.00	0.00
	187.0	1.00	36.30	187.0	1.5	1.8	1.8	0.43	0.00	-24.60
	277.0	0.00	309.90	277.0	2.1	2.3	2.5	1.11	-1.11	0.00
	368.0	0.50	9.00	368.0	2.5	2.4	2.9	0.55	0.55	0.00
	460.0	0.60	319.50	460.0	3.3	2.1	3.6	0.51	0.11	-53.80
	551.0	0.40	110.70	551.0	3.5	2.1	3.9	1.07	-0.22	166.15
	642.0	0.50	311.10	642.0	3.7	2.1	4.0	0.97	0.11	-175.38
	736.0	0.40	241.10	736.0	3.8	1.5	4.0	0.56	-0.11	-74.47
	830.0	1.10	99.70	830.0	3.5	2.1	3.8	1.53	0.74	-150.43
	923.0	0.80	104.30	922.9	3.2	3.6	3.8	0.33	-0.32	4.95
	1,017.0	0.40	113.10	1,016.9	2.9	4.5	3.7	0.44	-0.43	9.36

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Brown 11-8
Project:	SEC.8-T1S-R67W	TVD Reference:	WELL @ 5186.0ft (Original Well Elev)
Site:	Brown 13-8 Pad Sec.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
Well:	Brown 11-8	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)
1,111.0	0.20	52.00	1,110.9	2.8	5.0	3.7	0.37	-0.21	-65.00
1,169.0	1.00	51.60	1,168.9	3.2	5.5	4.2	1.38	1.38	-0.69
1,236.0	2.20	36.20	1,235.9	4.6	6.7	5.8	1.89	1.79	-22.99
1,361.0	2.60	37.40	1,360.8	8.8	9.8	10.5	0.32	0.32	0.96
1,486.0	3.90	30.80	1,485.6	14.7	13.7	17.0	1.08	1.04	-5.28
1,611.0	5.70	24.60	1,610.2	24.0	18.5	27.1	1.50	1.44	-4.96
1,736.0	9.80	12.10	1,734.0	40.1	23.3	43.8	3.53	3.28	-10.00
1,860.0	12.00	10.30	1,855.8	63.1	27.8	67.2	1.80	1.77	-1.45
1,985.0	15.30	8.10	1,977.2	92.2	32.5	96.7	2.67	2.64	-1.76
2,110.0	15.30	4.30	2,097.8	125.0	36.0	129.5	0.80	0.00	-3.04
2,235.0	14.90	0.90	2,218.5	157.5	37.5	161.7	0.78	-0.32	-2.72
2,360.0	13.90	358.10	2,339.5	188.6	37.3	192.2	0.97	-0.80	-2.24
2,454.0	13.80	7.10	2,430.8	211.0	38.3	214.4	2.29	-0.11	9.57
2,547.0	13.50	8.90	2,521.2	232.7	41.3	236.3	0.56	-0.32	1.94
2,641.0	14.20	8.50	2,612.5	254.9	44.7	258.8	0.75	0.74	-0.43
2,735.0	13.90	4.60	2,703.6	277.6	47.3	281.5	1.06	-0.32	-4.15
2,829.0	15.10	10.40	2,794.7	300.9	50.4	305.0	2.00	1.28	6.17
2,922.0	15.00	11.30	2,884.5	324.6	55.0	329.1	0.27	-0.11	0.97
3,016.0	15.20	13.90	2,975.2	348.5	60.3	353.6	0.75	0.21	2.77
3,110.0	14.60	17.60	3,066.1	371.8	66.9	377.7	1.20	-0.64	3.94
3,203.0	15.20	11.00	3,155.9	394.9	72.7	401.5	1.93	0.65	-7.10
3,300.0	15.20	8.50	3,249.5	420.0	77.1	427.0	0.68	0.00	-2.58
3,394.0	15.80	8.30	3,340.1	444.8	80.7	452.0	0.64	0.64	-0.21
3,487.0	14.60	13.20	3,429.9	468.8	85.2	476.4	1.89	-1.29	5.27
3,581.0	15.20	12.10	3,520.7	492.3	90.5	500.6	0.71	0.64	-1.17
3,675.0	15.60	14.30	3,611.3	516.6	96.2	525.5	0.75	0.43	2.34
3,769.0	16.30	12.50	3,701.7	541.8	102.2	551.3	0.91	0.74	-1.91
3,862.0	15.80	12.80	3,791.1	566.8	107.8	577.0	0.54	-0.54	0.32
3,956.0	15.00	9.10	3,881.7	591.3	112.6	602.0	1.35	-0.85	-3.94
4,050.0	14.20	9.60	3,972.7	614.7	116.4	625.6	0.86	-0.85	0.53
4,143.0	14.70	13.00	4,062.7	637.5	121.0	648.8	1.06	0.54	3.66
4,237.0	15.30	9.30	4,153.5	661.3	125.7	673.2	1.20	0.64	-3.94
4,331.0	14.50	11.50	4,244.4	685.1	130.0	697.3	1.04	-0.85	2.34
4,424.0	14.30	8.90	4,334.5	707.9	134.1	720.4	0.73	-0.22	-2.80
4,518.0	14.50	7.80	4,425.5	731.0	137.5	743.8	0.36	0.21	-1.17
4,612.0	15.20	9.40	4,516.4	754.8	141.1	767.9	0.86	0.74	1.70
4,705.0	16.10	7.70	4,605.9	779.6	144.8	792.9	1.09	0.97	-1.83
4,799.0	17.20	7.50	4,696.0	806.3	148.4	819.8	1.17	1.17	-0.21
4,893.0	15.40	10.20	4,786.2	832.4	152.4	846.2	2.08	-1.91	2.87
4,987.0	13.90	15.40	4,877.1	855.5	157.6	869.9	2.12	-1.60	5.53
5,080.0	13.80	18.30	4,967.4	876.8	164.1	892.0	0.75	-0.11	3.12
5,174.0	13.00	17.30	5,058.9	897.6	170.8	913.7	0.89	-0.85	-1.06
5,268.0	12.40	13.20	5,150.6	917.5	176.2	934.3	1.15	-0.64	-4.36
5,361.0	10.40	9.10	5,241.7	935.5	179.8	952.6	2.32	-2.15	-4.41
5,455.0	8.60	12.60	5,334.5	950.7	182.7	968.1	2.01	-1.91	3.72
5,549.0	6.90	16.90	5,427.6	963.0	185.9	980.8	1.91	-1.81	4.57
5,642.0	5.10	21.70	5,520.1	972.2	189.0	990.4	2.01	-1.94	5.16
5,736.0	4.10	27.30	5,613.8	979.1	192.1	997.7	1.16	-1.06	5.96
5,821.6	2.82	37.76	5,699.2	983.5	194.8	1,002.5	1.66	-1.50	12.21
TARGET BHL 2078'FSL, 1845'FWL									
5,830.0	2.70	39.30	5,707.6	983.8	195.0	1,002.9	1.66	-1.41	18.44
5,923.0	1.80	72.40	5,800.5	985.9	197.8	1,005.5	1.66	-0.97	35.59
6,017.0	1.30	110.80	5,894.5	986.0	200.2	1,006.1	1.20	-0.53	40.85

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Brown 11-8
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Site:	Brown 13-8 Pad Sec.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
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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)
6,111.0	1.10	136.80	5,988.5	984.9	201.8	1,005.3	0.61	-0.21	27.66
6,204.0	0.70	164.60	6,081.5	983.7	202.6	1,004.3	0.62	-0.43	29.89
6,298.0	0.30	170.30	6,175.5	982.9	202.8	1,003.6	0.43	-0.43	6.06
6,392.0	0.40	271.60	6,269.5	982.7	202.5	1,003.3	0.58	0.11	107.77
6,486.0	0.60	246.20	6,363.5	982.5	201.7	1,002.9	0.31	0.21	-27.02
6,579.0	0.70	253.40	6,456.5	982.2	200.7	1,002.4	0.14	0.11	7.74
6,673.0	1.00	280.30	6,550.5	982.1	199.4	1,002.1	0.52	0.32	28.62
6,767.0	1.40	273.20	6,644.4	982.4	197.4	1,002.0	0.45	0.43	-7.55
6,860.0	1.30	275.30	6,737.4	982.5	195.2	1,001.7	0.12	-0.11	2.26
6,954.0	1.10	278.90	6,831.4	982.8	193.3	1,001.6	0.23	-0.21	3.83
7,048.0	1.20	292.10	6,925.4	983.3	191.5	1,001.7	0.30	0.11	14.04
7,141.0	1.20	288.30	7,018.3	983.9	189.7	1,002.0	0.09	0.00	-4.09
7,235.0	1.10	311.20	7,112.3	984.8	188.1	1,002.6	0.50	-0.11	24.36
7,329.0	1.30	306.80	7,206.3	986.1	186.5	1,003.5	0.23	0.21	-4.68
7,422.0	1.70	320.20	7,299.3	987.8	184.8	1,004.9	0.57	0.43	14.41
7,516.0	0.70	293.80	7,393.3	989.1	183.4	1,005.9	1.19	-1.06	-28.09
7,610.0	0.70	231.70	7,487.3	988.9	182.4	1,005.6	0.77	0.00	-66.06
7,694.8	0.51	209.68	7,572.0	988.3	181.8	1,004.8	0.35	-0.22	-25.98
LEGAL BOX 400' X 400' 1978'FSL, 1970'FWL									
7,704.0	0.50	206.40	7,581.2	988.2	181.8	1,004.8	0.35	-0.15	-35.50
7,797.0	0.70	202.70	7,674.2	987.3	181.4	1,003.8	0.22	0.22	-3.98
7,891.0	0.60	211.30	7,768.2	986.4	180.9	1,002.8	0.15	-0.11	9.15
7,985.0	0.30	175.30	7,862.2	985.7	180.7	1,002.1	0.42	-0.32	-38.30
8,078.0	0.40	250.80	7,955.2	985.4	180.4	1,001.7	0.47	0.11	81.18
8,172.0	0.10	338.90	8,049.2	985.3	180.0	1,001.6	0.44	-0.32	93.72
8,266.0	0.20	248.50	8,143.2	985.3	179.8	1,001.6	0.24	0.11	-96.17
8,313.0	0.70	138.80	8,190.2	985.1	180.0	1,001.4	1.68	1.06	-233.40
8,355.0	0.70	138.80	8,232.2	984.7	180.3	1,001.0	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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