

Well Name: Brown 11-8

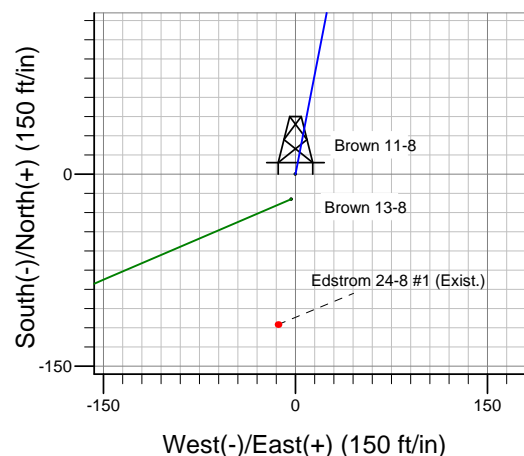
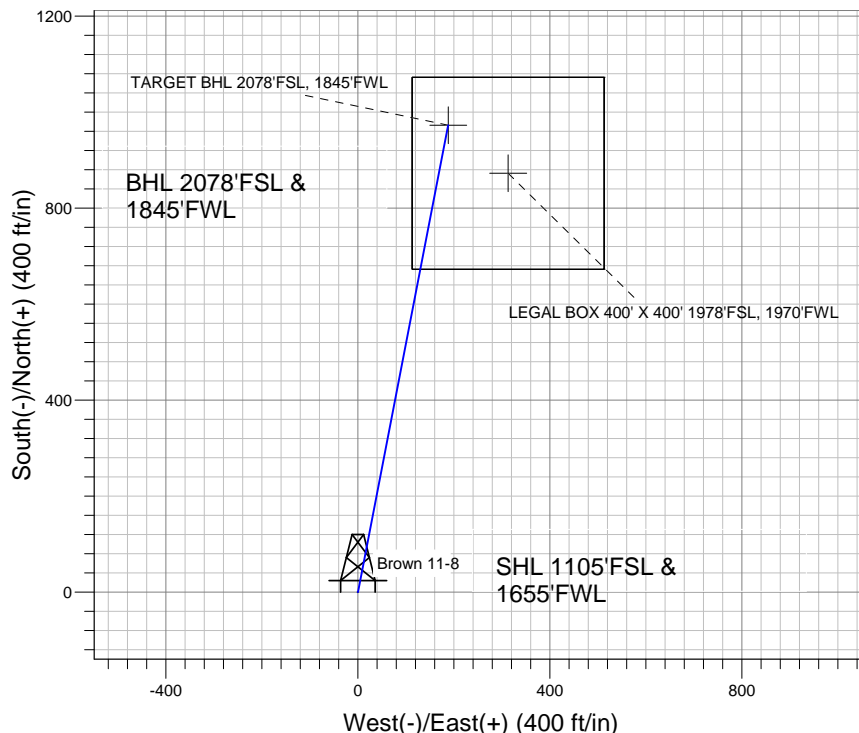
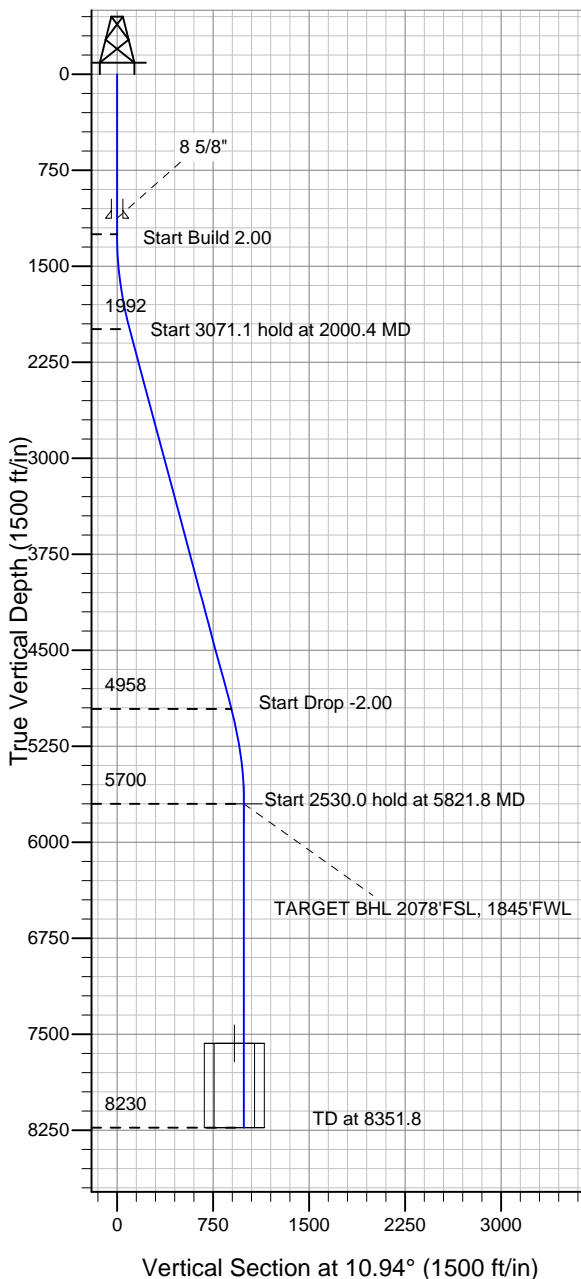
Surface Location: Brown 13-8 Pad Sec.8-T1S-R67W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 5173.0

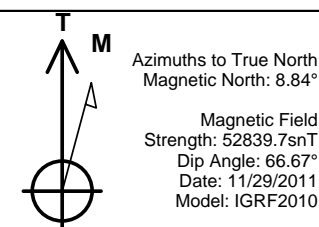
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1234245.59	3163638.72	39.974909	-104.916107	

Original Well Elev WELL @ 5186.0ft (Original Well Elev)

BAYSWATER EXPLORATION & PRODUCTION



Brown 13-8 Pad Sec.8-T1S-R67W
Brown 11-8
Plan #1 (11-29-11)
12:38, December 01 2011



WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 2078'FSL, 1845'FWL	5700.0	972.7	188.1	39.977579	-104.915436	Point
LEGAL BOX 400' X 400' 1978'FSL, 1970'FWL	7572.0	872.7	313.1	39.977305	-104.914990	Rectangle (Sides: L400.0 W400.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1250.0	0.00	0.00	1250.0	0.0	0.0	0.00	0.00	0.0	
3	2000.4	15.01	10.94	1991.8	95.9	18.5	2.00	10.94	97.7	
4	5071.5	15.01	10.94	4958.2	876.7	169.5	0.00	0.00	893.0	
5	5821.8	0.00	0.00	5700.0	972.7	188.1	2.00	180.00	990.7	TARGET BHL 2078'FSL, 1845'FWL
6	8351.8	0.00	0.00	8230.0	972.7	188.1	0.00	0.00	990.7	



Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.8-T1S-R67W

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

Brown 11-8

Wellbore #1

Plan: Plan #1 (11-29-11)

Standard Planning Report

01 December, 2011

Database:	Landmark	Local Co-ordinate Reference:	Well Brown 11-8
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5186.0ft (Original Well Elev)
Project:	SEC.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
Site:	Brown 13-8 Pad Sec.8-T1S-R67W	North Reference:	True
Well:	Brown 11-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-29-11)		

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

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

Well	Brown 11-8					
Well Position	+N/-S	19.7 ft	Northing:	1,234,245.59 ft	Latitude:	39.974909
	+E/-W	3.4 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	11/29/2011	8.85	66.67	52,840

Design	Plan #1 (11-29-11)			
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	10.94

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.4	15.01	10.94	1,991.8	95.9	18.5	2.00	2.00	0.00	10.94	
5,071.5	15.01	10.94	4,958.2	876.7	169.5	0.00	0.00	0.00	0.00	
5,821.8	0.00	0.00	5,700.0	972.7	188.1	2.00	-2.00	0.00	180.00	TARGET BHL 2078
8,351.8	0.00	0.00	8,230.0	972.7	188.1	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Brown 11-8
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5186.0ft (Original Well Elev)
Project:	SEC.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
Site:	Brown 13-8 Pad Sec.8-T1S-R67W	North Reference:	True
Well:	Brown 11-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-29-11)		

Planned 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
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	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
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	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
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	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
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	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
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	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
1,040.0	0.00	0.00	1,040.0	0.0	0.0	0.0	0.00	0.00	0.00
1,080.0	0.00	0.00	1,080.0	0.0	0.0	0.0	0.00	0.00	0.00
1,120.0	0.00	0.00	1,120.0	0.0	0.0	0.0	0.00	0.00	0.00
1,125.0	0.00	0.00	1,125.0	0.0	0.0	0.0	0.00	0.00	0.00
8 5/8"									
1,160.0	0.00	0.00	1,160.0	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
1,240.0	0.00	0.00	1,240.0	0.0	0.0	0.0	0.00	0.00	0.00
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
1,280.0	0.60	10.94	1,280.0	0.2	0.0	0.2	2.00	2.00	0.00
1,320.0	1.40	10.94	1,320.0	0.8	0.2	0.9	2.00	2.00	0.00
1,360.0	2.20	10.94	1,360.0	2.1	0.4	2.1	2.00	2.00	0.00
1,400.0	3.00	10.94	1,399.9	3.9	0.7	3.9	2.00	2.00	0.00
1,440.0	3.80	10.94	1,439.9	6.2	1.2	6.3	2.00	2.00	0.00
1,480.0	4.60	10.94	1,479.8	9.1	1.8	9.2	2.00	2.00	0.00
1,520.0	5.40	10.94	1,519.6	12.5	2.4	12.7	2.00	2.00	0.00
1,560.0	6.20	10.94	1,559.4	16.5	3.2	16.8	2.00	2.00	0.00
1,600.0	7.00	10.94	1,599.1	21.0	4.1	21.4	2.00	2.00	0.00
1,640.0	7.80	10.94	1,638.8	26.0	5.0	26.5	2.00	2.00	0.00
1,680.0	8.60	10.94	1,678.4	31.6	6.1	32.2	2.00	2.00	0.00
1,720.0	9.40	10.94	1,717.9	37.8	7.3	38.5	2.00	2.00	0.00
1,760.0	10.20	10.94	1,757.3	44.5	8.6	45.3	2.00	2.00	0.00
1,800.0	11.00	10.94	1,796.6	51.7	10.0	52.6	2.00	2.00	0.00
1,840.0	11.80	10.94	1,835.8	59.4	11.5	60.5	2.00	2.00	0.00
1,880.0	12.60	10.94	1,874.9	67.7	13.1	69.0	2.00	2.00	0.00
1,920.0	13.40	10.94	1,913.9	76.6	14.8	78.0	2.00	2.00	0.00
1,960.0	14.20	10.94	1,952.8	85.9	16.6	87.5	2.00	2.00	0.00

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Well:	Brown 11-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-29-11)		

Planned 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)
2,000.0	15.00	10.94	1,991.5	95.8	18.5	97.6	2.00	2.00	0.00
2,000.4	15.01	10.94	1,991.8	95.9	18.5	97.7	2.00	2.00	0.00
2,040.0	15.01	10.94	2,030.1	106.0	20.5	108.0	0.00	0.00	0.00
2,080.0	15.01	10.94	2,068.7	116.2	22.5	118.3	0.00	0.00	0.00
2,120.0	15.01	10.94	2,107.4	126.3	24.4	128.7	0.00	0.00	0.00
2,160.0	15.01	10.94	2,146.0	136.5	26.4	139.0	0.00	0.00	0.00
2,200.0	15.01	10.94	2,184.6	146.7	28.4	149.4	0.00	0.00	0.00
2,240.0	15.01	10.94	2,223.3	156.9	30.3	159.8	0.00	0.00	0.00
2,280.0	15.01	10.94	2,261.9	167.0	32.3	170.1	0.00	0.00	0.00
2,320.0	15.01	10.94	2,300.5	177.2	34.3	180.5	0.00	0.00	0.00
2,360.0	15.01	10.94	2,339.2	187.4	36.2	190.8	0.00	0.00	0.00
2,400.0	15.01	10.94	2,377.8	197.5	38.2	201.2	0.00	0.00	0.00
2,440.0	15.01	10.94	2,416.5	207.7	40.2	211.5	0.00	0.00	0.00
2,480.0	15.01	10.94	2,455.1	217.9	42.1	221.9	0.00	0.00	0.00
2,520.0	15.01	10.94	2,493.7	228.0	44.1	232.3	0.00	0.00	0.00
2,560.0	15.01	10.94	2,532.4	238.2	46.1	242.6	0.00	0.00	0.00
2,600.0	15.01	10.94	2,571.0	248.4	48.0	253.0	0.00	0.00	0.00
2,640.0	15.01	10.94	2,609.6	258.6	50.0	263.3	0.00	0.00	0.00
2,680.0	15.01	10.94	2,648.3	268.7	52.0	273.7	0.00	0.00	0.00
2,720.0	15.01	10.94	2,686.9	278.9	53.9	284.1	0.00	0.00	0.00
2,760.0	15.01	10.94	2,725.5	289.1	55.9	294.4	0.00	0.00	0.00
2,800.0	15.01	10.94	2,764.2	299.2	57.9	304.8	0.00	0.00	0.00
2,840.0	15.01	10.94	2,802.8	309.4	59.8	315.1	0.00	0.00	0.00
2,880.0	15.01	10.94	2,841.4	319.6	61.8	325.5	0.00	0.00	0.00
2,920.0	15.01	10.94	2,880.1	329.7	63.8	335.8	0.00	0.00	0.00
2,960.0	15.01	10.94	2,918.7	339.9	65.7	346.2	0.00	0.00	0.00
3,000.0	15.01	10.94	2,957.4	350.1	67.7	356.6	0.00	0.00	0.00
3,040.0	15.01	10.94	2,996.0	360.2	69.6	366.9	0.00	0.00	0.00
3,080.0	15.01	10.94	3,034.6	370.4	71.6	377.3	0.00	0.00	0.00
3,120.0	15.01	10.94	3,073.3	380.6	73.6	387.6	0.00	0.00	0.00
3,160.0	15.01	10.94	3,111.9	390.8	75.5	398.0	0.00	0.00	0.00
3,200.0	15.01	10.94	3,150.5	400.9	77.5	408.3	0.00	0.00	0.00
3,240.0	15.01	10.94	3,189.2	411.1	79.5	418.7	0.00	0.00	0.00
3,280.0	15.01	10.94	3,227.8	421.3	81.4	429.1	0.00	0.00	0.00
3,320.0	15.01	10.94	3,266.4	431.4	83.4	439.4	0.00	0.00	0.00
3,360.0	15.01	10.94	3,305.1	441.6	85.4	449.8	0.00	0.00	0.00
3,400.0	15.01	10.94	3,343.7	451.8	87.3	460.1	0.00	0.00	0.00
3,440.0	15.01	10.94	3,382.3	461.9	89.3	470.5	0.00	0.00	0.00
3,480.0	15.01	10.94	3,421.0	472.1	91.3	480.9	0.00	0.00	0.00
3,520.0	15.01	10.94	3,459.6	482.3	93.2	491.2	0.00	0.00	0.00
3,560.0	15.01	10.94	3,498.3	492.4	95.2	501.6	0.00	0.00	0.00
3,600.0	15.01	10.94	3,536.9	502.6	97.2	511.9	0.00	0.00	0.00
3,640.0	15.01	10.94	3,575.5	512.8	99.1	522.3	0.00	0.00	0.00
3,672.6	15.01	10.94	3,607.0	521.1	100.7	530.7	0.00	0.00	0.00
LARIMER									
3,680.0	15.01	10.94	3,614.2	523.0	101.1	532.6	0.00	0.00	0.00
3,720.0	15.01	10.94	3,652.8	533.1	103.1	543.0	0.00	0.00	0.00
3,760.0	15.01	10.94	3,691.4	543.3	105.0	553.4	0.00	0.00	0.00
3,800.0	15.01	10.94	3,730.1	553.5	107.0	563.7	0.00	0.00	0.00
3,840.0	15.01	10.94	3,768.7	563.6	109.0	574.1	0.00	0.00	0.00
3,880.0	15.01	10.94	3,807.3	573.8	110.9	584.4	0.00	0.00	0.00
3,920.0	15.01	10.94	3,846.0	584.0	112.9	594.8	0.00	0.00	0.00
3,960.0	15.01	10.94	3,884.6	594.1	114.9	605.1	0.00	0.00	0.00

Planned 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)	
4,000.0	15.01	10.94	3,923.2	604.3	116.8	615.5	0.00	0.00	0.00	
4,040.0	15.01	10.94	3,961.9	614.5	118.8	625.9	0.00	0.00	0.00	
4,080.0	15.01	10.94	4,000.5	624.6	120.8	636.2	0.00	0.00	0.00	
4,120.0	15.01	10.94	4,039.2	634.8	122.7	646.6	0.00	0.00	0.00	
4,160.0	15.01	10.94	4,077.8	645.0	124.7	656.9	0.00	0.00	0.00	
4,200.0	15.01	10.94	4,116.4	655.2	126.7	667.3	0.00	0.00	0.00	
4,240.0	15.01	10.94	4,155.1	665.3	128.6	677.6	0.00	0.00	0.00	
4,280.0	15.01	10.94	4,193.7	675.5	130.6	688.0	0.00	0.00	0.00	
4,320.0	15.01	10.94	4,232.3	685.7	132.6	698.4	0.00	0.00	0.00	
4,360.0	15.01	10.94	4,271.0	695.8	134.5	708.7	0.00	0.00	0.00	
4,400.0	15.01	10.94	4,309.6	706.0	136.5	719.1	0.00	0.00	0.00	
4,440.0	15.01	10.94	4,348.2	716.2	138.5	729.4	0.00	0.00	0.00	
4,480.0	15.01	10.94	4,386.9	726.3	140.4	739.8	0.00	0.00	0.00	
4,520.0	15.01	10.94	4,425.5	736.5	142.4	750.2	0.00	0.00	0.00	
4,560.0	15.01	10.94	4,464.1	746.7	144.4	760.5	0.00	0.00	0.00	
4,600.0	15.01	10.94	4,502.8	756.9	146.3	770.9	0.00	0.00	0.00	
4,640.0	15.01	10.94	4,541.4	767.0	148.3	781.2	0.00	0.00	0.00	
4,680.0	15.01	10.94	4,580.1	777.2	150.3	791.6	0.00	0.00	0.00	
4,720.0	15.01	10.94	4,618.7	787.4	152.2	801.9	0.00	0.00	0.00	
4,760.0	15.01	10.94	4,657.3	797.5	154.2	812.3	0.00	0.00	0.00	
4,800.0	15.01	10.94	4,696.0	807.7	156.2	822.7	0.00	0.00	0.00	
4,840.0	15.01	10.94	4,734.6	817.9	158.1	833.0	0.00	0.00	0.00	
4,880.0	15.01	10.94	4,773.2	828.0	160.1	843.4	0.00	0.00	0.00	
4,920.0	15.01	10.94	4,811.9	838.2	162.1	853.7	0.00	0.00	0.00	
4,960.0	15.01	10.94	4,850.5	848.4	164.0	864.1	0.00	0.00	0.00	
4,961.5	15.01	10.94	4,852.0	848.8	164.1	864.5	0.00	0.00	0.00	
TERRY										
5,000.0	15.01	10.94	4,889.1	858.5	166.0	874.4	0.00	0.00	0.00	
5,040.0	15.01	10.94	4,927.8	868.7	168.0	884.8	0.00	0.00	0.00	
5,071.5	15.01	10.94	4,958.2	876.7	169.5	893.0	0.00	0.00	0.00	
5,080.0	14.84	10.94	4,966.4	878.9	169.9	895.1	2.00	-2.00	0.00	
5,120.0	14.04	10.94	5,005.2	888.7	171.8	905.1	2.00	-2.00	0.00	
5,160.0	13.24	10.94	5,044.0	897.9	173.6	914.5	2.00	-2.00	0.00	
5,200.0	12.44	10.94	5,083.0	906.6	175.3	923.4	2.00	-2.00	0.00	
5,240.0	11.64	10.94	5,122.1	914.8	176.9	931.8	2.00	-2.00	0.00	
5,280.0	10.84	10.94	5,161.4	922.5	178.4	939.6	2.00	-2.00	0.00	
5,316.2	10.11	10.94	5,197.0	929.0	179.6	946.2	2.00	-2.00	0.00	
TERRY MARKER										
5,320.0	10.04	10.94	5,200.7	929.6	179.7	946.8	2.00	-2.00	0.00	
5,360.0	9.24	10.94	5,240.1	936.2	181.0	953.5	2.00	-2.00	0.00	
5,400.0	8.44	10.94	5,279.7	942.2	182.2	959.7	2.00	-2.00	0.00	
5,440.0	7.64	10.94	5,319.3	947.7	183.2	965.3	2.00	-2.00	0.00	
5,480.0	6.84	10.94	5,359.0	952.6	184.2	970.3	2.00	-2.00	0.00	
5,520.0	6.04	10.94	5,398.7	957.1	185.0	974.8	2.00	-2.00	0.00	
5,560.0	5.24	10.94	5,438.5	960.9	185.8	978.7	2.00	-2.00	0.00	
5,600.0	4.44	10.94	5,478.4	964.2	186.4	982.1	2.00	-2.00	0.00	
5,640.0	3.64	10.94	5,518.3	967.0	187.0	984.9	2.00	-2.00	0.00	
5,680.0	2.84	10.94	5,558.2	969.2	187.4	987.2	2.00	-2.00	0.00	
5,720.0	2.04	10.94	5,598.2	970.9	187.7	988.9	2.00	-2.00	0.00	
5,760.0	1.24	10.94	5,638.2	972.0	187.9	990.0	2.00	-2.00	0.00	
5,800.0	0.44	10.94	5,678.2	972.6	188.0	990.6	2.00	-2.00	0.00	
5,821.8	0.00	0.00	5,700.0	972.7	188.1	990.7	2.00	-2.00	0.00	
TARGET BHL 2078'FSL, 1845'FWL										

Database:	Landmark	Local Co-ordinate Reference:	Well Brown 11-8
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5186.0ft (Original Well Elev)
Project:	SEC.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
Site:	Brown 13-8 Pad Sec.8-T1S-R67W	North Reference:	True
Well:	Brown 11-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-29-11)		

Planned 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)
5,840.0	0.00	0.00	5,718.2	972.7	188.1	990.7	0.00	0.00	0.00
5,880.0	0.00	0.00	5,758.2	972.7	188.1	990.7	0.00	0.00	0.00
5,920.0	0.00	0.00	5,798.2	972.7	188.1	990.7	0.00	0.00	0.00
5,960.0	0.00	0.00	5,838.2	972.7	188.1	990.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,878.2	972.7	188.1	990.7	0.00	0.00	0.00
6,040.0	0.00	0.00	5,918.2	972.7	188.1	990.7	0.00	0.00	0.00
6,080.0	0.00	0.00	5,958.2	972.7	188.1	990.7	0.00	0.00	0.00
6,120.0	0.00	0.00	5,998.2	972.7	188.1	990.7	0.00	0.00	0.00
6,160.0	0.00	0.00	6,038.2	972.7	188.1	990.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,078.2	972.7	188.1	990.7	0.00	0.00	0.00
6,240.0	0.00	0.00	6,118.2	972.7	188.1	990.7	0.00	0.00	0.00
6,280.0	0.00	0.00	6,158.2	972.7	188.1	990.7	0.00	0.00	0.00
6,320.0	0.00	0.00	6,198.2	972.7	188.1	990.7	0.00	0.00	0.00
6,360.0	0.00	0.00	6,238.2	972.7	188.1	990.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,278.2	972.7	188.1	990.7	0.00	0.00	0.00
6,440.0	0.00	0.00	6,318.2	972.7	188.1	990.7	0.00	0.00	0.00
6,480.0	0.00	0.00	6,358.2	972.7	188.1	990.7	0.00	0.00	0.00
6,520.0	0.00	0.00	6,398.2	972.7	188.1	990.7	0.00	0.00	0.00
6,560.0	0.00	0.00	6,438.2	972.7	188.1	990.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,478.2	972.7	188.1	990.7	0.00	0.00	0.00
6,640.0	0.00	0.00	6,518.2	972.7	188.1	990.7	0.00	0.00	0.00
6,680.0	0.00	0.00	6,558.2	972.7	188.1	990.7	0.00	0.00	0.00
6,720.0	0.00	0.00	6,598.2	972.7	188.1	990.7	0.00	0.00	0.00
6,760.0	0.00	0.00	6,638.2	972.7	188.1	990.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,678.2	972.7	188.1	990.7	0.00	0.00	0.00
6,840.0	0.00	0.00	6,718.2	972.7	188.1	990.7	0.00	0.00	0.00
6,880.0	0.00	0.00	6,758.2	972.7	188.1	990.7	0.00	0.00	0.00
6,920.0	0.00	0.00	6,798.2	972.7	188.1	990.7	0.00	0.00	0.00
6,960.0	0.00	0.00	6,838.2	972.7	188.1	990.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,878.2	972.7	188.1	990.7	0.00	0.00	0.00
7,040.0	0.00	0.00	6,918.2	972.7	188.1	990.7	0.00	0.00	0.00
7,080.0	0.00	0.00	6,958.2	972.7	188.1	990.7	0.00	0.00	0.00
7,120.0	0.00	0.00	6,998.2	972.7	188.1	990.7	0.00	0.00	0.00
7,160.0	0.00	0.00	7,038.2	972.7	188.1	990.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,078.2	972.7	188.1	990.7	0.00	0.00	0.00
7,240.0	0.00	0.00	7,118.2	972.7	188.1	990.7	0.00	0.00	0.00
7,280.0	0.00	0.00	7,158.2	972.7	188.1	990.7	0.00	0.00	0.00
7,320.0	0.00	0.00	7,198.2	972.7	188.1	990.7	0.00	0.00	0.00
7,360.0	0.00	0.00	7,238.2	972.7	188.1	990.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,278.2	972.7	188.1	990.7	0.00	0.00	0.00
7,440.0	0.00	0.00	7,318.2	972.7	188.1	990.7	0.00	0.00	0.00
7,480.0	0.00	0.00	7,358.2	972.7	188.1	990.7	0.00	0.00	0.00
7,520.0	0.00	0.00	7,398.2	972.7	188.1	990.7	0.00	0.00	0.00
7,560.0	0.00	0.00	7,438.2	972.7	188.1	990.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,478.2	972.7	188.1	990.7	0.00	0.00	0.00
7,640.0	0.00	0.00	7,518.2	972.7	188.1	990.7	0.00	0.00	0.00
7,680.0	0.00	0.00	7,558.2	972.7	188.1	990.7	0.00	0.00	0.00
7,693.8	0.00	0.00	7,572.0	972.7	188.1	990.7	0.00	0.00	0.00
NIOBRARA - LEGAL BOX 400' X 400' 1978'FSL, 1970'FWL									
7,720.0	0.00	0.00	7,598.2	972.7	188.1	990.7	0.00	0.00	0.00
7,760.0	0.00	0.00	7,638.2	972.7	188.1	990.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,678.2	972.7	188.1	990.7	0.00	0.00	0.00

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")
1,125.0	1,125.0	8 5/8"		8-5/8	12-1/4

Database:	Landmark	Local Co-ordinate Reference:	Well Brown 11-8
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5186.0ft (Original Well Elev)
Project:	SEC.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
Site:	Brown 13-8 Pad Sec.8-T1S-R67W	North Reference:	True
Well:	Brown 11-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-29-11)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,672.6	3,607.0	LARIMER		0.00		
4,961.5	4,852.0	TERRY		0.00		
5,316.2	5,197.0	TERRY MARKER		0.00		
7,693.8	7,572.0	NIOBRARA		0.00		
8,109.8	7,988.0	FT HAYS		0.00		
8,133.8	8,012.0	CODELL		0.00		
8,167.8	8,046.0	GREENHORN		0.00		
8,253.8	8,132.0	GRANEROS		0.00		



Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.8-T1S-R67W

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

Brown 11-8

Wellbore #1

Plan #1 (11-29-11)

Anticollision Report

01 December, 2011

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)
Reference Site:	Brown 13-8 Pad Sec.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Brown 11-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (11-29-11)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (11-29-11)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	12/1/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	8,351.8	Plan #1 (11-29-11) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Separation Factor	Warning	
Offset Well - Wellbore - Design						
Brown 13-8 Pad Sec.8-T1S-R67W						
Brown 13-8 - Wellbore #1 - Plan #2 (12-1-11)	200.0	199.0	20.0	19.3	29.702	CC, ES
Brown 13-8 - Wellbore #1 - Plan #2 (12-1-11)	500.0	496.8	31.2	29.2	15.546	SF

Offset Design												
Brown 13-8 Pad Sec.8-T1S-R67W - Brown 13-8 - Wellbore #1 - Plan #2 (12-1-11)												
Survey Program: 0-MWD												
Reference	Offset	Semi Major Axis		Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	-170.30	-19.7	-3.4	20.0	20.0	0.00	N/A
100.0	100.0	99.0	99.0	0.1	0.1	-170.30	-19.7	-3.4	20.0	19.7	0.22	89.253
200.0	200.0	199.0	199.0	0.3	0.3	-170.30	-19.7	-3.4	20.0	19.3	0.67	29.702 CC, ES
300.0	300.0	298.6	298.6	0.6	0.5	-166.40	-20.3	-4.9	20.9	19.8	1.11	18.925
400.0	400.0	397.9	397.8	0.8	0.8	-156.68	-22.4	-9.6	24.4	22.8	1.55	15.762
500.0	500.0	496.8	496.3	1.0	1.0	-145.81	-25.7	-17.5	31.2	29.2	2.01	15.546 SF
600.0	600.0	595.0	593.7	1.2	1.3	-137.00	-30.4	-28.3	41.9	39.4	2.48	16.895
700.0	700.0	692.2	689.8	1.5	1.6	-130.76	-36.3	-42.1	56.4	53.4	2.96	19.069
800.0	800.0	788.3	784.2	1.7	2.0	-126.49	-43.4	-58.7	74.5	71.0	3.44	21.670
900.0	900.0	883.1	876.7	1.9	2.4	-123.55	-51.6	-77.9	96.1	92.1	3.92	24.484
1,000.0	1,000.0	979.3	969.9	2.1	2.9	-121.49	-60.9	-99.4	120.1	115.7	4.41	27.219
1,100.0	1,100.0	1,076.2	1,063.9	2.4	3.4	-120.09	-70.2	-121.2	144.4	139.5	4.90	29.467
1,200.0	1,200.0	1,173.2	1,157.9	2.6	3.9	-119.10	-79.6	-143.0	168.7	163.3	5.39	31.316
1,250.0	1,250.0	1,221.7	1,205.0	2.7	4.1	-118.70	-84.2	-153.9	180.9	175.2	5.63	32.118
1,300.0	1,300.0	1,270.1	1,251.9	2.8	4.4	-129.20	-88.9	-164.7	193.3	187.5	5.77	33.500
1,400.0	1,399.9	1,366.5	1,345.4	3.0	4.9	-128.92	-98.2	-186.4	219.8	213.6	6.24	35.214
1,500.0	1,499.7	1,462.3	1,438.2	3.3	5.4	-129.23	-107.5	-207.9	248.4	241.7	6.71	37.021
1,600.0	1,599.1	1,557.3	1,530.4	3.5	5.9	-129.91	-116.6	-229.3	279.2	272.1	7.18	38.895
1,700.0	1,698.2	1,651.4	1,621.6	3.7	6.4	-130.83	-125.7	-250.4	312.3	304.6	7.65	40.814
1,800.0	1,796.6	1,744.5	1,711.9	4.0	6.8	-131.89	-134.7	-271.4	347.7	339.6	8.13	42.759
1,900.0	1,894.4	1,836.4	1,801.1	4.3	7.3	-133.01	-143.5	-292.0	385.6	376.9	8.62	44.715
2,000.4	1,991.8	1,927.5	1,889.4	4.7	7.8	-134.16	-152.3	-312.5	426.1	416.9	9.13	46.677
2,100.0	2,088.1	2,017.3	1,976.4	5.1	8.3	-135.79	-161.0	-332.7	467.7	458.0	9.70	48.222
2,200.0	2,184.6	2,107.4	2,063.8	5.5	8.8	-137.15	-169.7	-352.9	509.7	499.5	10.29	49.554

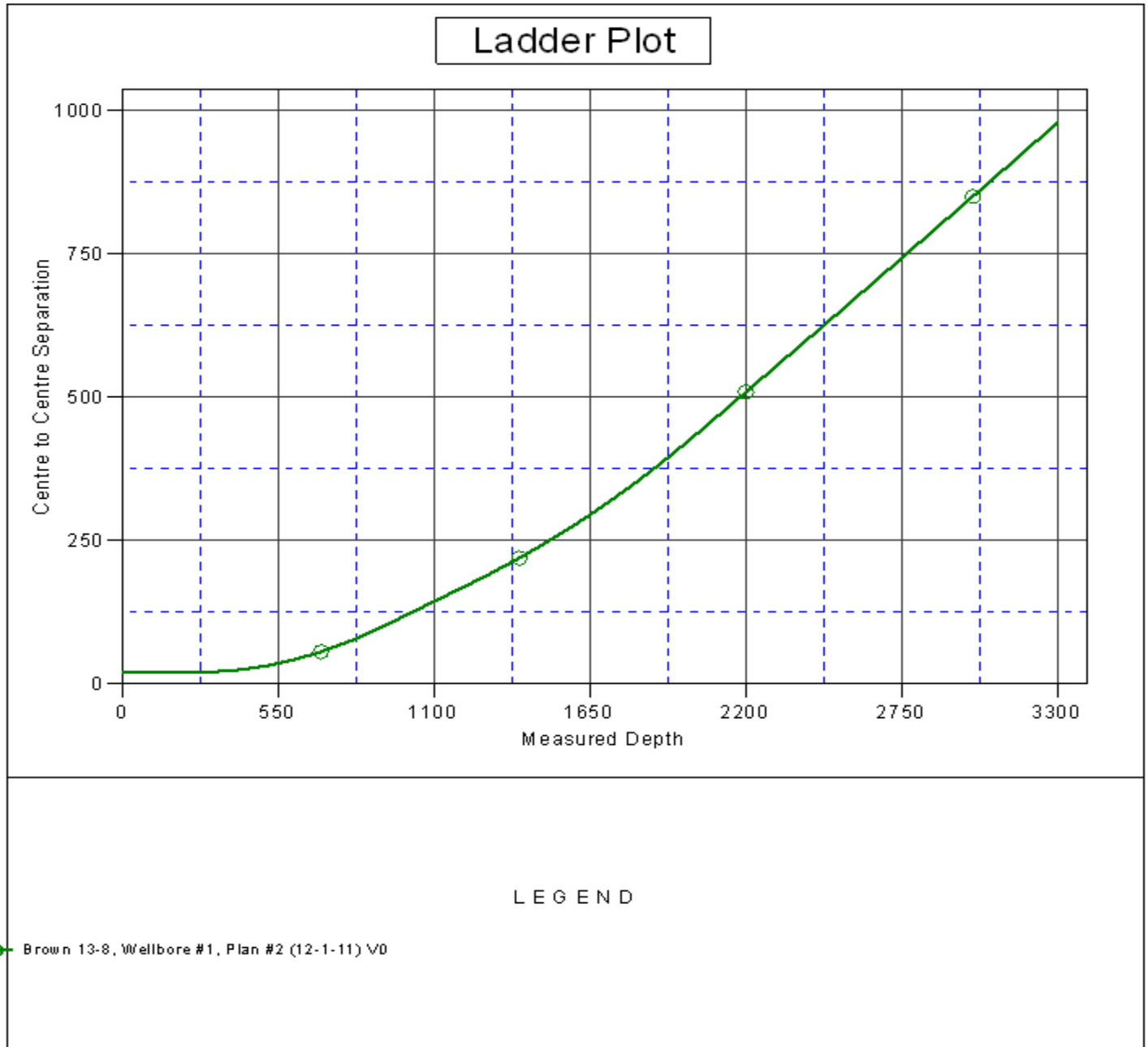
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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)
Reference Site:	Brown 13-8 Pad Sec.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Brown 11-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (11-29-11)	Offset TVD Reference:	Offset Datum

Offset Design											Brown 13-8 Pad Sec.8-T1S-R67W - Brown 13-8 - Wellbore #1 - Plan #2 (12-1-11)			Offset Site Error:		0.0 ft
Survey Program: 0-MWD											Offset Well Error:					0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
2,300.0	2,281.2	2,197.5	2,151.1	5.9	9.2	-138.32	-178.4	-373.2	552.0	541.1	10.89	50.711				
2,400.0	2,377.8	2,287.6	2,238.5	6.4	9.7	-139.31	-187.0	-393.4	594.4	582.9	11.49	51.723				
2,500.0	2,474.4	2,377.7	2,325.9	6.8	10.2	-140.18	-195.7	-413.7	637.0	624.9	12.11	52.616				
2,600.0	2,571.0	2,467.8	2,413.2	7.3	10.7	-140.94	-204.4	-433.9	679.6	666.9	12.72	53.411				
2,700.0	2,667.6	2,557.9	2,500.6	7.7	11.1	-141.61	-213.1	-454.2	722.4	709.0	13.35	54.123				
2,800.0	2,764.2	2,648.0	2,588.0	8.2	11.6	-142.20	-221.8	-474.5	765.2	751.2	13.97	54.764				
2,900.0	2,860.8	2,738.1	2,675.3	8.7	12.1	-142.74	-230.5	-494.7	808.1	793.5	14.60	55.345				
3,000.0	2,957.4	2,828.2	2,762.7	9.2	12.6	-143.22	-239.2	-515.0	851.0	835.8	15.23	55.872				
3,100.0	3,053.9	2,918.3	2,850.0	9.7	13.1	-143.65	-247.9	-535.2	894.0	878.1	15.86	56.354				
3,200.0	3,150.5	3,008.4	2,937.4	10.2	13.5	-144.04	-256.6	-555.5	937.0	920.5	16.50	56.796				
3,300.0	3,247.1	3,098.5	3,024.8	10.7	14.0	-144.40	-265.3	-575.7	980.0	962.9	17.13	57.203				

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)
Reference Site:	Brown 13-8 Pad Sec.8-T1S-R67W	MD Reference:	WELL @ 5186.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Brown 11-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (11-29-11)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5186.0ft (Original Well Elev) Coordinates are relative to: Brown 11-8
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.38°



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