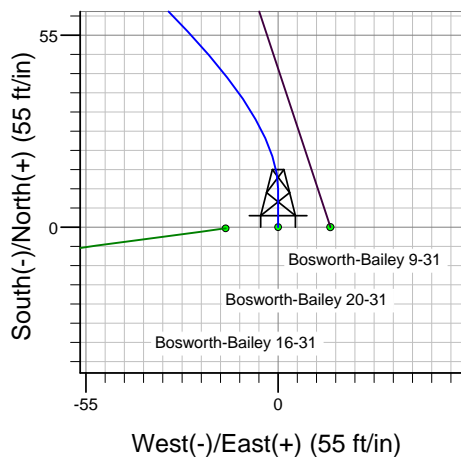
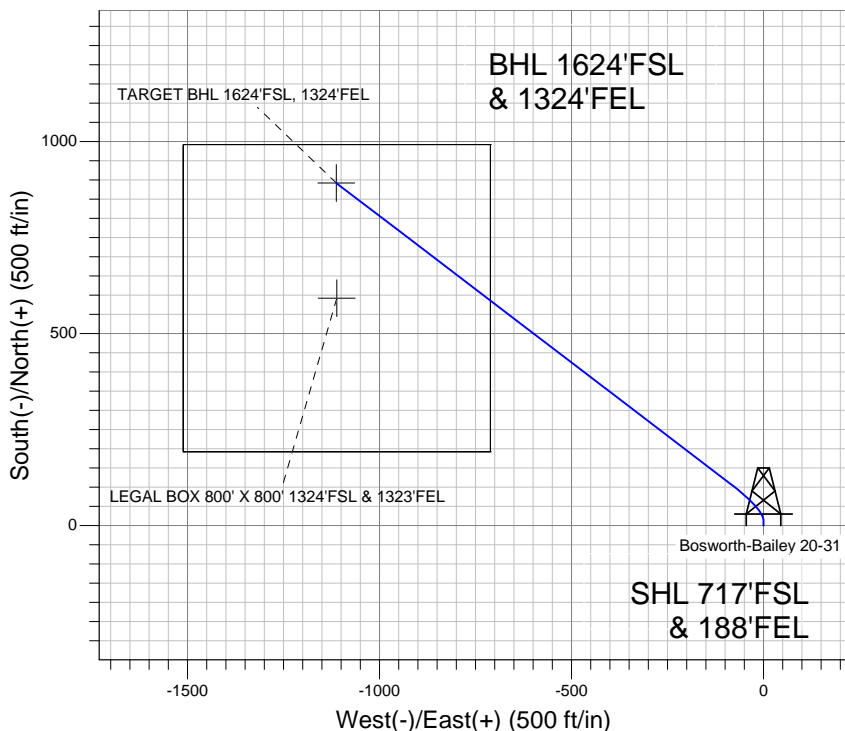
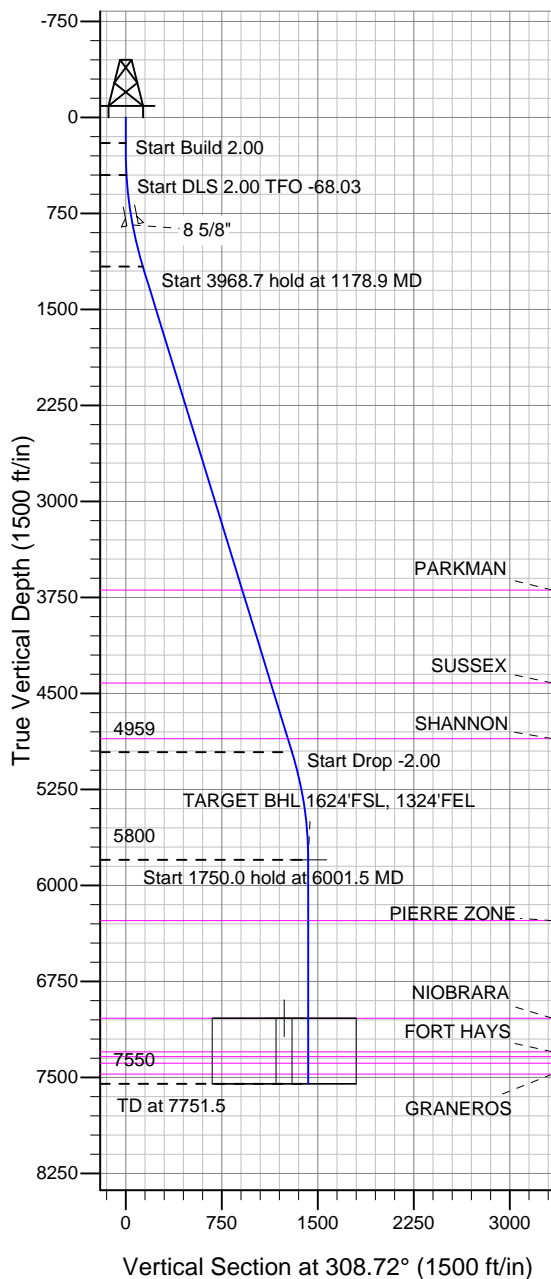


### Well Name: Bosworth-Bailey 20-31

Surface Location: Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W  
 North American Datum 1983, US State Plane 1983 Colorado Northern Zone  
 Ground Elevation: 4875.0  
 +N/-S 0.0 +E/-W 0.0 Northing 1435057.14 Easting 3190775.04 Latitude 40.525606 Longitude -104.813738 Slot  
 Original Well EleWELL @ 4885.0ft (Original Well Elev)

## BAYSWATER EXPLORATION & PRODUCTION



Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W  
 Bosworth-Bailey 20-31  
 Plan #1 (10-24-11)  
 16:13, October 24 2011



Azimuths to True North  
 Magnetic North: 8.85°  
 Magnetic Field  
 Strength: 53153.7snT  
 Dip Angle: 67.13°  
 Date: 10/24/2011  
 Model: IGRF2010

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1624'FSL, 1324'FEL	5800.0	891.9	-1112.3	40.528054	-104.817739	Point
LEGAL BOX 800' X 800' 1324'FSL & 1323'FEL	7038.0	591.9	-1111.3	40.527231	-104.817736	Rectangle (Sides: L800.0 W800.0)

### 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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	450.0	5.00	0.00	449.7	10.9	0.0	2.00	0.00	6.8	
4	1178.9	17.08	307.36	1165.0	108.1	-85.5	2.00	-68.03	134.4	
5	5147.6	17.08	307.36	4958.7	815.3	-1011.9	0.00	0.00	1299.5	
6	6001.5	0.00	0.00	5800.0	891.9	-1112.3	2.00	180.00	1425.7	TARGET BHL 1624'FSL, 1324'FEL
7	7751.5	0.00	0.00	7550.0	891.9	-1112.3	0.00	0.00	1425.7	



# **BAYSWATER EXPLORATION & PRODUCTION**

**SEC.31-T7N-R66W**

**Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W**

**Bosworth-Bailey 20-31**

**Wellbore #1**

**Plan: Plan #1 (10-24-11)**

## **Standard Planning Report**

**24 October, 2011**

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Project:</b>	SEC.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (10-24-11)		

<b>Project</b>	SEC.31-T7N-R66W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site						Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W											
Site Position:						Northing:			1,435,057.26ft			Latitude:			40.525606		
From:			Lat/Long			Easting:			3,190,790.05ft			Longitude:			-104.813684		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.44 °		

Well	Bosworth-Bailey 20-31					
Well Position	+N/-S	0.0 ft	Northing:	1,435,057.14 ft	Latitude:	40.525606
	+E/-W	-15.0 ft	Easting:	3,190,775.04 ft	Longitude:	-104.813738
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,875.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	10/24/2011	8.85	67.13	53,154

<b>Design</b>	Plan #1 (10-24-11)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	308.72

<b>Plan Sections</b>										
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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
450.0	5.00	0.00	449.7	10.9	0.0	2.00	2.00	0.00	0.00	
1,178.9	17.08	307.36	1,165.0	108.1	-85.5	2.00	1.66	-7.22	-68.03	
5,147.6	17.08	307.36	4,958.7	815.3	-1,011.9	0.00	0.00	0.00	0.00	
6,001.5	0.00	0.00	5,800.0	891.9	-1,112.3	2.00	-2.00	0.00	180.00	TARGET BHL 1624
7,751.5	0.00	0.00	7,550.0	891.9	-1,112.3	0.00	0.00	0.00	0.00	

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Project:</b>	SEC.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (10-24-11)		

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	0.80	0.00	240.0	0.3	0.0	0.2	2.00	2.00	0.00
280.0	1.60	0.00	280.0	1.1	0.0	0.7	2.00	2.00	0.00
320.0	2.40	0.00	320.0	2.5	0.0	1.6	2.00	2.00	0.00
360.0	3.20	0.00	359.9	4.5	0.0	2.8	2.00	2.00	0.00
400.0	4.00	0.00	399.8	7.0	0.0	4.4	2.00	2.00	0.00
440.0	4.80	0.00	439.7	10.0	0.0	6.3	2.00	2.00	0.00
450.0	5.00	0.00	449.7	10.9	0.0	6.8	2.00	2.00	0.00
480.0	5.25	353.91	479.6	13.6	-0.1	8.6	2.00	0.85	-20.29
520.0	5.67	346.75	519.4	17.3	-0.8	11.5	2.00	1.05	-17.90
560.0	6.17	340.66	559.2	21.3	-2.0	14.8	2.00	1.24	-15.24
600.0	6.72	335.51	598.9	25.4	-3.6	18.8	2.00	1.39	-12.86
640.0	7.32	331.17	638.6	29.8	-5.8	23.2	2.00	1.50	-10.84
680.0	7.96	327.51	678.3	34.4	-8.6	28.2	2.00	1.59	-9.17
720.0	8.62	324.39	717.8	39.1	-11.8	33.7	2.00	1.66	-7.79
760.0	9.30	321.72	757.4	44.1	-15.5	39.7	2.00	1.71	-6.67
800.0	10.00	319.42	796.8	49.3	-19.8	46.3	2.00	1.75	-5.76
840.0	10.72	317.42	836.1	54.7	-24.6	53.4	2.00	1.79	-5.00
843.9	10.79	317.23	840.0	55.2	-25.1	54.1	2.00	1.80	-4.64
<b>8 5/8"</b>									
880.0	11.44	315.66	875.4	60.2	-29.9	61.0	2.00	1.82	-4.35
920.0	12.18	314.12	914.5	66.0	-35.7	69.1	2.00	1.84	-3.86
960.0	12.92	312.75	953.6	72.0	-42.0	77.8	2.00	1.86	-3.43
1,000.0	13.67	311.52	992.5	78.2	-48.8	87.0	2.00	1.87	-3.06
1,040.0	14.43	310.43	1,031.3	84.5	-56.1	96.7	2.00	1.89	-2.75
1,080.0	15.18	309.43	1,070.0	91.1	-64.0	106.9	2.00	1.90	-2.48
1,120.0	15.95	308.54	1,108.5	97.8	-72.3	117.6	2.00	1.91	-2.25
1,160.0	16.71	307.72	1,146.9	104.8	-81.2	128.9	2.00	1.92	-2.05
1,178.9	17.08	307.36	1,165.0	108.1	-85.5	134.4	2.00	1.92	-1.91
1,200.0	17.08	307.36	1,185.2	111.9	-90.5	140.6	0.00	0.00	0.00
1,240.0	17.08	307.36	1,223.4	119.0	-99.8	152.3	0.00	0.00	0.00
1,280.0	17.08	307.36	1,261.6	126.1	-109.1	164.0	0.00	0.00	0.00
1,320.0	17.08	307.36	1,299.9	133.3	-118.5	175.8	0.00	0.00	0.00
1,360.0	17.08	307.36	1,338.1	140.4	-127.8	187.5	0.00	0.00	0.00
1,400.0	17.08	307.36	1,376.3	147.5	-137.1	199.3	0.00	0.00	0.00
1,440.0	17.08	307.36	1,414.6	154.6	-146.5	211.0	0.00	0.00	0.00
1,480.0	17.08	307.36	1,452.8	161.8	-155.8	222.8	0.00	0.00	0.00
1,520.0	17.08	307.36	1,491.1	168.9	-165.1	234.5	0.00	0.00	0.00
1,560.0	17.08	307.36	1,529.3	176.0	-174.5	246.2	0.00	0.00	0.00
1,600.0	17.08	307.36	1,567.5	183.2	-183.8	258.0	0.00	0.00	0.00
1,640.0	17.08	307.36	1,605.8	190.3	-193.2	269.7	0.00	0.00	0.00
1,680.0	17.08	307.36	1,644.0	197.4	-202.5	281.5	0.00	0.00	0.00
1,720.0	17.08	307.36	1,682.2	204.5	-211.8	293.2	0.00	0.00	0.00
1,760.0	17.08	307.36	1,720.5	211.7	-221.2	305.0	0.00	0.00	0.00
1,800.0	17.08	307.36	1,758.7	218.8	-230.5	316.7	0.00	0.00	0.00
1,840.0	17.08	307.36	1,796.9	225.9	-239.8	328.4	0.00	0.00	0.00
1,880.0	17.08	307.36	1,835.2	233.0	-249.2	340.2	0.00	0.00	0.00
1,920.0	17.08	307.36	1,873.4	240.2	-258.5	351.9	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Project:</b>	SEC.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (10-24-11)		

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)
1,960.0	17.08	307.36	1,911.7	247.3	-267.9	363.7	0.00	0.00	0.00
2,000.0	17.08	307.36	1,949.9	254.4	-277.2	375.4	0.00	0.00	0.00
2,040.0	17.08	307.36	1,988.1	261.6	-286.5	387.2	0.00	0.00	0.00
2,080.0	17.08	307.36	2,026.4	268.7	-295.9	398.9	0.00	0.00	0.00
2,120.0	17.08	307.36	2,064.6	275.8	-305.2	410.6	0.00	0.00	0.00
2,160.0	17.08	307.36	2,102.8	282.9	-314.5	422.4	0.00	0.00	0.00
2,200.0	17.08	307.36	2,141.1	290.1	-323.9	434.1	0.00	0.00	0.00
2,240.0	17.08	307.36	2,179.3	297.2	-333.2	445.9	0.00	0.00	0.00
2,280.0	17.08	307.36	2,217.5	304.3	-342.5	457.6	0.00	0.00	0.00
2,320.0	17.08	307.36	2,255.8	311.4	-351.9	469.4	0.00	0.00	0.00
2,360.0	17.08	307.36	2,294.0	318.6	-361.2	481.1	0.00	0.00	0.00
2,400.0	17.08	307.36	2,332.3	325.7	-370.6	492.8	0.00	0.00	0.00
2,440.0	17.08	307.36	2,370.5	332.8	-379.9	504.6	0.00	0.00	0.00
2,480.0	17.08	307.36	2,408.7	340.0	-389.2	516.3	0.00	0.00	0.00
2,520.0	17.08	307.36	2,447.0	347.1	-398.6	528.1	0.00	0.00	0.00
2,560.0	17.08	307.36	2,485.2	354.2	-407.9	539.8	0.00	0.00	0.00
2,600.0	17.08	307.36	2,523.4	361.3	-417.2	551.6	0.00	0.00	0.00
2,640.0	17.08	307.36	2,561.7	368.5	-426.6	563.3	0.00	0.00	0.00
2,680.0	17.08	307.36	2,599.9	375.6	-435.9	575.0	0.00	0.00	0.00
2,720.0	17.08	307.36	2,638.1	382.7	-445.3	586.8	0.00	0.00	0.00
2,760.0	17.08	307.36	2,676.4	389.8	-454.6	598.5	0.00	0.00	0.00
2,800.0	17.08	307.36	2,714.6	397.0	-463.9	610.3	0.00	0.00	0.00
2,840.0	17.08	307.36	2,752.9	404.1	-473.3	622.0	0.00	0.00	0.00
2,880.0	17.08	307.36	2,791.1	411.2	-482.6	633.8	0.00	0.00	0.00
2,920.0	17.08	307.36	2,829.3	418.4	-491.9	645.5	0.00	0.00	0.00
2,960.0	17.08	307.36	2,867.6	425.5	-501.3	657.2	0.00	0.00	0.00
3,000.0	17.08	307.36	2,905.8	432.6	-510.6	669.0	0.00	0.00	0.00
3,040.0	17.08	307.36	2,944.0	439.7	-519.9	680.7	0.00	0.00	0.00
3,080.0	17.08	307.36	2,982.3	446.9	-529.3	692.5	0.00	0.00	0.00
3,120.0	17.08	307.36	3,020.5	454.0	-538.6	704.2	0.00	0.00	0.00
3,160.0	17.08	307.36	3,058.7	461.1	-548.0	716.0	0.00	0.00	0.00
3,200.0	17.08	307.36	3,097.0	468.2	-557.3	727.7	0.00	0.00	0.00
3,240.0	17.08	307.36	3,135.2	475.4	-566.6	739.4	0.00	0.00	0.00
3,280.0	17.08	307.36	3,173.5	482.5	-576.0	751.2	0.00	0.00	0.00
3,320.0	17.08	307.36	3,211.7	489.6	-585.3	762.9	0.00	0.00	0.00
3,360.0	17.08	307.36	3,249.9	496.7	-594.6	774.7	0.00	0.00	0.00
3,400.0	17.08	307.36	3,288.2	503.9	-604.0	786.4	0.00	0.00	0.00
3,440.0	17.08	307.36	3,326.4	511.0	-613.3	798.2	0.00	0.00	0.00
3,480.0	17.08	307.36	3,364.6	518.1	-622.6	809.9	0.00	0.00	0.00
3,520.0	17.08	307.36	3,402.9	525.3	-632.0	821.6	0.00	0.00	0.00
3,560.0	17.08	307.36	3,441.1	532.4	-641.3	833.4	0.00	0.00	0.00
3,600.0	17.08	307.36	3,479.4	539.5	-650.7	845.1	0.00	0.00	0.00
3,640.0	17.08	307.36	3,517.6	546.6	-660.0	856.9	0.00	0.00	0.00
3,680.0	17.08	307.36	3,555.8	553.8	-669.3	868.6	0.00	0.00	0.00
3,720.0	17.08	307.36	3,594.1	560.9	-678.7	880.4	0.00	0.00	0.00
3,760.0	17.08	307.36	3,632.3	568.0	-688.0	892.1	0.00	0.00	0.00
3,800.0	17.08	307.36	3,670.5	575.1	-697.3	903.8	0.00	0.00	0.00
3,823.5	17.08	307.36	3,693.0	579.3	-702.8	910.7	0.00	0.00	0.00
PARKMAN									
3,840.0	17.08	307.36	3,708.8	582.3	-706.7	915.6	0.00	0.00	0.00
3,880.0	17.08	307.36	3,747.0	589.4	-716.0	927.3	0.00	0.00	0.00
3,920.0	17.08	307.36	3,785.2	596.5	-725.4	939.1	0.00	0.00	0.00
3,960.0	17.08	307.36	3,823.5	603.7	-734.7	950.8	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Project:</b>	SEC.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (10-24-11)		

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)
4,000.0	17.08	307.36	3,861.7	610.8	-744.0	962.6	0.00	0.00	0.00
4,040.0	17.08	307.36	3,900.0	617.9	-753.4	974.3	0.00	0.00	0.00
4,080.0	17.08	307.36	3,938.2	625.0	-762.7	986.0	0.00	0.00	0.00
4,120.0	17.08	307.36	3,976.4	632.2	-772.0	997.8	0.00	0.00	0.00
4,160.0	17.08	307.36	4,014.7	639.3	-781.4	1,009.5	0.00	0.00	0.00
4,200.0	17.08	307.36	4,052.9	646.4	-790.7	1,021.3	0.00	0.00	0.00
4,240.0	17.08	307.36	4,091.1	653.5	-800.0	1,033.0	0.00	0.00	0.00
4,280.0	17.08	307.36	4,129.4	660.7	-809.4	1,044.8	0.00	0.00	0.00
4,320.0	17.08	307.36	4,167.6	667.8	-818.7	1,056.5	0.00	0.00	0.00
4,360.0	17.08	307.36	4,205.8	674.9	-828.1	1,068.2	0.00	0.00	0.00
4,400.0	17.08	307.36	4,244.1	682.1	-837.4	1,080.0	0.00	0.00	0.00
4,440.0	17.08	307.36	4,282.3	689.2	-846.7	1,091.7	0.00	0.00	0.00
4,480.0	17.08	307.36	4,320.6	696.3	-856.1	1,103.5	0.00	0.00	0.00
4,520.0	17.08	307.36	4,358.8	703.4	-865.4	1,115.2	0.00	0.00	0.00
4,560.0	17.08	307.36	4,397.0	710.6	-874.7	1,127.0	0.00	0.00	0.00
4,581.9	17.08	307.36	4,418.0	714.5	-879.9	1,133.4	0.00	0.00	0.00
SUSSEX									
4,600.0	17.08	307.36	4,435.3	717.7	-884.1	1,138.7	0.00	0.00	0.00
4,640.0	17.08	307.36	4,473.5	724.8	-893.4	1,150.4	0.00	0.00	0.00
4,680.0	17.08	307.36	4,511.7	731.9	-902.8	1,162.2	0.00	0.00	0.00
4,720.0	17.08	307.36	4,550.0	739.1	-912.1	1,173.9	0.00	0.00	0.00
4,760.0	17.08	307.36	4,588.2	746.2	-921.4	1,185.7	0.00	0.00	0.00
4,800.0	17.08	307.36	4,626.4	753.3	-930.8	1,197.4	0.00	0.00	0.00
4,840.0	17.08	307.36	4,664.7	760.5	-940.1	1,209.2	0.00	0.00	0.00
4,880.0	17.08	307.36	4,702.9	767.6	-949.4	1,220.9	0.00	0.00	0.00
4,920.0	17.08	307.36	4,741.2	774.7	-958.8	1,232.6	0.00	0.00	0.00
4,960.0	17.08	307.36	4,779.4	781.8	-968.1	1,244.4	0.00	0.00	0.00
5,000.0	17.08	307.36	4,817.6	789.0	-977.4	1,256.1	0.00	0.00	0.00
5,037.0	17.08	307.36	4,853.0	795.6	-986.1	1,267.0	0.00	0.00	0.00
SHANNON									
5,040.0	17.08	307.36	4,855.9	796.1	-986.8	1,267.9	0.00	0.00	0.00
5,080.0	17.08	307.36	4,894.1	803.2	-996.1	1,279.6	0.00	0.00	0.00
5,120.0	17.08	307.36	4,932.3	810.3	-1,005.5	1,291.4	0.00	0.00	0.00
5,147.6	17.08	307.36	4,958.7	815.3	-1,011.9	1,299.5	0.00	0.00	0.00
5,160.0	16.83	307.36	4,970.6	817.5	-1,014.8	1,303.1	2.00	-2.00	0.00
5,200.0	16.03	307.36	5,008.9	824.3	-1,023.8	1,314.4	2.00	-2.00	0.00
5,240.0	15.23	307.36	5,047.5	830.9	-1,032.3	1,325.2	2.00	-2.00	0.00
5,280.0	14.43	307.36	5,086.1	837.1	-1,040.5	1,335.4	2.00	-2.00	0.00
5,320.0	13.63	307.36	5,124.9	843.0	-1,048.2	1,345.1	2.00	-2.00	0.00
5,360.0	12.83	307.36	5,163.9	848.5	-1,055.5	1,354.2	2.00	-2.00	0.00
5,400.0	12.03	307.36	5,202.9	853.7	-1,062.3	1,362.8	2.00	-2.00	0.00
5,440.0	11.23	307.36	5,242.1	858.6	-1,068.7	1,370.9	2.00	-2.00	0.00
5,480.0	10.43	307.36	5,281.4	863.2	-1,074.7	1,378.4	2.00	-2.00	0.00
5,520.0	9.63	307.36	5,320.8	867.4	-1,080.2	1,385.4	2.00	-2.00	0.00
5,560.0	8.83	307.36	5,360.3	871.3	-1,085.3	1,391.8	2.00	-2.00	0.00
5,600.0	8.03	307.36	5,399.8	874.9	-1,090.0	1,397.7	2.00	-2.00	0.00
5,640.0	7.23	307.36	5,439.5	878.1	-1,094.2	1,403.0	2.00	-2.00	0.00
5,680.0	6.43	307.36	5,479.2	881.0	-1,098.0	1,407.7	2.00	-2.00	0.00
5,720.0	5.63	307.36	5,519.0	883.5	-1,101.3	1,411.9	2.00	-2.00	0.00
5,760.0	4.83	307.36	5,558.8	885.7	-1,104.2	1,415.6	2.00	-2.00	0.00
5,800.0	4.03	307.36	5,598.7	887.6	-1,106.7	1,418.6	2.00	-2.00	0.00
5,840.0	3.23	307.36	5,638.6	889.1	-1,108.7	1,421.2	2.00	-2.00	0.00
5,880.0	2.43	307.36	5,678.6	890.3	-1,110.3	1,423.2	2.00	-2.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Project:</b>	SEC.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (10-24-11)		

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)
5,920.0	1.63	307.36	5,718.5	891.2	-1,111.4	1,424.6	2.00	-2.00	0.00
5,960.0	0.83	307.36	5,758.5	891.7	-1,112.1	1,425.4	2.00	-2.00	0.00
6,000.0	0.03	307.36	5,798.5	891.9	-1,112.3	1,425.7	2.00	-2.00	0.00
6,001.5	0.00	0.00	5,800.0	891.9	-1,112.3	1,425.7	2.00	-2.00	0.00
TARGET BHL 1624'FSL, 1324'FEL									
6,040.0	0.00	0.00	5,838.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,080.0	0.00	0.00	5,878.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,120.0	0.00	0.00	5,918.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,160.0	0.00	0.00	5,958.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,200.0	0.00	0.00	5,998.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,240.0	0.00	0.00	6,038.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,280.0	0.00	0.00	6,078.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,320.0	0.00	0.00	6,118.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,360.0	0.00	0.00	6,158.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,198.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,440.0	0.00	0.00	6,238.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,476.5	0.00	0.00	6,275.0	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
PIERRE ZONE									
6,480.0	0.00	0.00	6,278.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,520.0	0.00	0.00	6,318.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,560.0	0.00	0.00	6,358.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,398.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,640.0	0.00	0.00	6,438.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,680.0	0.00	0.00	6,478.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,720.0	0.00	0.00	6,518.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,760.0	0.00	0.00	6,558.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,598.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,840.0	0.00	0.00	6,638.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,880.0	0.00	0.00	6,678.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,920.0	0.00	0.00	6,718.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
6,960.0	0.00	0.00	6,758.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,798.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,040.0	0.00	0.00	6,838.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,080.0	0.00	0.00	6,878.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,120.0	0.00	0.00	6,918.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,160.0	0.00	0.00	6,958.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,200.0	0.00	0.00	6,998.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,239.5	0.00	0.00	7,038.0	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
NIOBRARA - LEGAL BOX 800' X 800' 1324'FSL & 1323'FEL									
7,240.0	0.00	0.00	7,038.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,280.0	0.00	0.00	7,078.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,320.0	0.00	0.00	7,118.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,360.0	0.00	0.00	7,158.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,198.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,440.0	0.00	0.00	7,238.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,480.0	0.00	0.00	7,278.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,501.5	0.00	0.00	7,300.0	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
FORT HAYS									
7,520.0	0.00	0.00	7,318.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,539.5	0.00	0.00	7,338.0	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
CODELL									
7,560.0	0.00	0.00	7,358.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00



<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Project:</b>	SEC.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (10-24-11)		

## 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)
7,589.5	0.00	0.00	7,388.0	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
GREENHORN									
7,600.0	0.00	0.00	7,398.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,640.0	0.00	0.00	7,438.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,675.5	0.00	0.00	7,474.0	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
GRANEROS									
7,680.0	0.00	0.00	7,478.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,720.0	0.00	0.00	7,518.5	891.9	-1,112.3	1,425.7	0.00	0.00	0.00
7,751.5	0.00	0.00	7,550.0	891.9	-1,112.3	1,425.7	0.00	0.00	0.00

## Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target - Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
LEGAL BOX 800' X 800' - plan misses target center by 300.0ft at 7239.5ft MD (7038.0 TVD, 891.9 N, -1112.3 E) - Rectangle (sides W800.0 H800.0 D512.0)	0.00	0.00	7,038.0	591.9	-1,111.3	1,435,640.40	3,189,659.23	40.527231	-104.817736
TARGET BHL 1624'F - plan hits target center - Point	0.00	0.00	5,800.0	891.9	-1,112.3	1,435,940.37	3,189,655.91	40.528054	-104.817739

## Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
843.9	840.0	8 5/8"	8-5/8	12-1/4

## Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,823.5	3,693.0	PARKMAN		0.00	
4,581.9	4,418.0	SUSSEX		0.00	
5,037.0	4,853.0	SHANNON		0.00	
6,476.5	6,275.0	PIERRE ZONE		0.00	
7,239.5	7,038.0	NIOBRARA		0.00	
7,501.5	7,300.0	FORT HAYS		0.00	
7,539.5	7,338.0	CODELL		0.00	
7,589.5	7,388.0	GREENHORN		0.00	
7,675.5	7,474.0	GRANEROS		0.00	





**Directional**

# **BAYSWATER EXPLORATION & PRODUCTION**

**SEC.31-T7N-R66W**

**Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W**

**Bosworth-Bailey 20-31**

**Wellbore #1**

**Plan #1 (10-24-11)**

## **Anticollision Report**

**24 October, 2011**

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Project:</b>	SEC.31-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Reference Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-24-11)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (10-24-11)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b>	10/24/2011		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	7,751.5	Plan #1 (10-24-11) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W						
Bosworth-Bailey 16-31 - Wellbore #1 - Plan #1 (10-24-11)	200.0	200.0	15.0	14.3	22.270	CC
Bosworth-Bailey 16-31 - Wellbore #1 - Plan #1 (10-24-11)	300.0	300.0	15.2	14.0	13.491	ES
Bosworth-Bailey 16-31 - Wellbore #1 - Plan #1 (10-24-11)	450.0	449.7	18.8	16.9	10.326	SF
Bosworth-Bailey 9-31 - Wellbore #1 - Plan #1 (10-24-11)	200.0	200.0	15.0	14.3	22.263	CC
Bosworth-Bailey 9-31 - Wellbore #1 - Plan #1 (10-24-11)	300.0	300.0	15.1	14.0	13.450	ES
Bosworth-Bailey 9-31 - Wellbore #1 - Plan #1 (10-24-11)	450.0	449.7	18.5	16.7	10.213	SF

Offset Design		Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W - Bosworth-Bailey 16-31 - Wellbore #1 - Plan #1 (10-24-11)										Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
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	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-91.37	-0.4	-15.0	15.0	15.0	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	-91.37	-0.4	-15.0	15.0	14.8	0.22	66.810		
200.0	200.0	200.0	200.0	0.3	0.3	-91.37	-0.4	-15.0	15.0	14.3	0.67	22.270	CC	
213.5	213.5	213.5	213.5	0.4	0.4	-91.50	-0.4	-15.0	15.0	14.3	0.73	20.437		
300.0	300.0	300.0	300.0	0.6	0.6	-97.98	-0.4	-15.0	15.2	14.0	1.12	13.491	ES	
400.0	399.8	399.8	399.8	0.8	0.8	-116.00	-0.4	-15.0	16.7	15.1	1.58	10.562		
450.0	449.7	449.7	449.7	0.9	0.9	-126.77	-0.4	-15.0	18.8	16.9	1.82	10.326	SF	
500.0	499.5	499.5	499.5	1.0	1.0	-127.28	-0.4	-15.0	21.5	19.5	2.05	10.511		
600.0	598.9	598.9	598.9	1.3	1.2	-131.52	-0.4	-15.0	28.2	25.7	2.50	11.276		
700.0	698.1	698.1	698.1	1.6	1.5	-138.06	-0.4	-15.0	37.4	34.5	2.96	12.654		
800.0	796.8	796.8	796.8	1.9	1.7	-144.51	-0.4	-15.0	49.9	46.5	3.41	14.612		
900.0	895.0	895.0	895.0	2.3	1.9	-149.92	-0.4	-15.0	65.9	62.0	3.87	17.015		
1,000.0	992.5	992.5	992.5	2.7	2.1	-154.17	-0.4	-15.0	85.5	81.2	4.33	19.731		
1,100.0	1,089.3	1,089.3	1,089.3	3.2	2.3	-157.47	-0.4	-15.0	108.6	103.9	4.79	22.659		
1,178.9	1,165.0	1,165.0	1,165.0	3.6	2.5	-159.55	-0.4	-15.0	129.4	124.2	5.16	25.072		
1,200.0	1,185.2	1,185.2	1,185.2	3.7	2.6	-160.46	-0.4	-15.0	135.2	130.0	5.26	25.706		
1,300.0	1,280.8	1,283.1	1,283.1	4.3	2.8	-163.58	-0.5	-16.2	162.7	157.0	5.73	28.389		
1,400.0	1,376.3	1,382.6	1,382.4	4.9	3.0	-164.91	-1.1	-20.8	188.9	182.7	6.21	30.421		
1,500.0	1,471.9	1,483.1	1,482.7	5.4	3.2	-165.09	-2.2	-28.9	213.3	206.6	6.71	31.791		
1,600.0	1,567.5	1,584.5	1,583.4	6.0	3.4	-164.47	-3.8	-40.6	236.0	228.8	7.25	32.557		
1,700.0	1,663.1	1,685.5	1,683.2	6.6	3.7	-163.28	-5.8	-55.6	257.1	249.3	7.84	32.816		

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

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Project:</b>	SEC.31-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Reference Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-24-11)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W - Bosworth-Bailey 16-31 - Wellbore #1 - Plan #1 (10-24-11)													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 (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		
1,800.0	1,758.7	1,783.2	1,779.6	7.2	3.9	-162.11	-7.9	-71.2	277.8	269.4	8.46	32.854		
1,900.0	1,854.3	1,880.8	1,876.0	7.8	4.2	-161.10	-9.9	-86.8	298.6	289.5	9.10	32.812		
2,000.0	1,949.9	1,978.5	1,972.4	8.4	4.5	-160.22	-12.0	-102.4	319.5	309.7	9.77	32.716		
2,100.0	2,045.5	2,076.2	2,068.8	9.1	4.9	-159.45	-14.1	-117.9	340.4	330.0	10.44	32.595		
2,200.0	2,141.1	2,173.9	2,165.2	9.7	5.2	-158.77	-16.2	-133.5	361.4	350.2	11.14	32.445		
2,300.0	2,236.7	2,271.6	2,261.7	10.3	5.5	-158.16	-18.3	-149.1	382.4	370.6	11.84	32.288		
2,400.0	2,332.3	2,369.3	2,358.1	10.9	5.8	-157.62	-20.3	-164.7	403.5	390.9	12.56	32.127		
2,500.0	2,427.8	2,467.0	2,454.5	11.5	6.2	-157.13	-22.4	-180.3	424.6	411.3	13.28	31.967		
2,600.0	2,523.4	2,564.7	2,550.9	12.1	6.5	-156.69	-24.5	-195.9	445.7	431.7	14.01	31.809		
2,700.0	2,619.0	2,662.4	2,647.3	12.7	6.9	-156.29	-26.6	-211.5	466.8	452.1	14.75	31.656		
2,800.0	2,714.6	2,760.0	2,743.7	13.3	7.2	-155.92	-28.7	-227.0	488.0	472.5	15.49	31.508		
2,900.0	2,810.2	2,857.7	2,840.1	14.0	7.6	-155.58	-30.7	-242.6	509.2	492.9	16.23	31.366		
3,000.0	2,905.8	2,955.4	2,936.6	14.6	7.9	-155.27	-32.8	-258.2	530.3	513.4	16.98	31.231		
3,100.0	3,001.4	3,053.1	3,033.0	15.2	8.3	-154.98	-34.9	-273.8	551.6	533.8	17.73	31.102		
3,200.0	3,097.0	3,150.8	3,129.4	15.8	8.6	-154.72	-37.0	-289.4	572.8	554.3	18.49	30.979		
3,300.0	3,192.6	3,248.5	3,225.8	16.4	9.0	-154.47	-39.1	-305.0	594.0	574.8	19.25	30.862		
3,400.0	3,288.2	3,346.2	3,322.2	17.0	9.4	-154.24	-41.1	-320.6	615.2	595.2	20.01	30.751		
3,500.0	3,383.8	3,443.9	3,418.6	17.6	9.7	-154.03	-43.2	-336.2	636.5	615.7	20.77	30.645		
3,600.0	3,479.4	3,541.6	3,515.1	18.3	10.1	-153.83	-45.3	-351.7	657.8	636.2	21.53	30.544		
3,700.0	3,574.9	3,639.3	3,611.5	18.9	10.5	-153.64	-47.4	-367.3	679.0	656.7	22.30	30.449		
3,800.0	3,670.5	3,736.9	3,707.9	19.5	10.8	-153.46	-49.5	-382.9	700.3	677.2	23.07	30.358		
3,900.0	3,766.1	3,834.6	3,804.3	20.1	11.2	-153.30	-51.5	-398.5	721.6	697.7	23.84	30.271		
4,000.0	3,861.7	3,932.3	3,900.7	20.7	11.5	-153.14	-53.6	-414.1	742.9	718.2	24.61	30.189		
4,100.0	3,957.3	4,030.0	3,997.1	21.3	11.9	-152.99	-55.7	-429.7	764.1	738.8	25.38	30.110		
4,200.0	4,052.9	4,123.2	4,089.2	22.0	12.2	-152.89	-57.6	-444.1	785.6	759.5	26.09	30.115		
4,300.0	4,148.5	4,212.6	4,177.9	22.6	12.4	-152.97	-59.1	-455.4	807.9	781.3	26.68	30.282		
4,400.0	4,244.1	4,300.0	4,264.8	23.2	12.6	-153.23	-60.3	-463.9	831.3	804.1	27.21	30.548		
4,500.0	4,339.7	4,399.7	4,354.3	23.8	12.8	-153.67	-61.1	-469.8	855.6	827.9	27.68	30.907		
4,600.0	4,435.3	4,476.9	4,441.5	24.4	13.0	-154.24	-61.5	-472.8	881.0	853.0	28.10	31.359		
4,700.0	4,530.9	4,566.3	4,530.9	25.1	13.1	-154.95	-61.6	-473.4	907.5	879.1	28.46	31.885		
4,800.0	4,626.4	4,661.9	4,626.4	25.7	13.3	-155.70	-61.6	-473.4	934.4	905.6	28.83	32.413		
4,900.0	4,722.0	4,757.5	4,722.0	26.3	13.4	-156.42	-61.6	-473.4	961.5	932.3	29.20	32.924		
5,000.0	4,817.6	4,853.1	4,817.6	26.9	13.6	-157.09	-61.6	-473.4	988.6	959.1	29.58	33.421		
5,100.0	4,913.2	4,948.7	4,913.2	27.5	13.7	-157.74	-61.6	-473.4	1,015.9	986.0	29.96	33.904		
5,147.6	4,958.7	4,994.2	4,958.7	27.8	13.8	-158.03	-61.6	-473.4	1,029.0	998.8	30.15	34.129		
5,200.0	5,008.9	5,044.4	5,008.9	28.1	13.9	-158.44	-61.6	-473.4	1,042.9	1,012.5	30.35	34.357		
5,300.0	5,105.5	5,141.0	5,105.5	28.5	14.0	-159.13	-61.6	-473.4	1,067.2	1,036.5	30.70	34.760		
5,400.0	5,202.9	5,238.4	5,202.9	28.9	14.2	-159.70	-61.6	-473.4	1,088.3	1,057.3	31.04	35.068		
5,500.0	5,301.1	5,336.5	5,301.1	29.3	14.4	-160.17	-61.6	-473.4	1,106.4	1,075.0	31.35	35.288		
5,600.0	5,399.8	5,435.3	5,399.8	29.5	14.5	-160.54	-61.6	-473.4	1,121.2	1,089.5	31.65	35.425		
5,700.0	5,499.1	5,534.5	5,499.1	29.8	14.7	-160.82	-61.6	-473.4	1,132.7	1,100.8	31.92	35.484		
5,800.0	5,598.7	5,634.1	5,598.7	30.0	14.9	-161.02	-61.6	-473.4	1,141.0	1,108.8	32.17	35.467		
5,900.0	5,698.6	5,734.0	5,698.6	30.1	15.1	-161.14	-61.6	-473.4	1,146.0	1,113.6	32.39	35.376		
6,001.5	5,800.0	5,835.4	5,800.0	30.2	15.2	146.18	-61.6	-473.4	1,147.7	1,115.1	32.60	35.209		
6,100.0	5,898.5	5,934.0	5,898.5	30.3	15.4	146.18	-61.6	-473.4	1,147.7	1,114.8	32.91	34.871		
6,200.0	5,998.5	6,034.0	5,998.5	30.4	15.6	146.18	-61.6	-473.4	1,147.7	1,114.5	33.25	34.520		
6,300.0	6,098.5	6,134.0	6,098.5	30.5	15.8	146.18	-61.6	-473.4	1,147.7	1,114.1	33.59	34.173		
6,400.0	6,198.5	6,234.0	6,198.5	30.6	16.0	146.18	-61.6	-473.4	1,147.7	1,113.8	33.93	33.830		
6,500.0	6,298.5	6,334.0	6,298.5	30.7	16.1	146.18	-61.6	-473.4	1,147.7	1,113.4	34.27	33.492		
6,600.0	6,398.5	6,434.0	6,398.5	30.8	16.3	146.18	-61.6	-473.4	1,147.7	1,113.1	34.61	33.158		
6,700.0	6,498.5	6,534.0	6,498.5	30.9	16.5	146.18	-61.6	-473.4	1,147.7	1,112.7	34.96	32.829		

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

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Project:</b>	SEC.31-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Reference Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-24-11)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD													<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
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		
6,800.0	6,598.5	6,634.0	6,598.5	31.0	16.7	146.18	-61.6	-473.4	1,147.7	1,112.4	35.31	32.504		
6,900.0	6,698.5	6,734.0	6,698.5	31.1	16.9	146.18	-61.6	-473.4	1,147.7	1,112.0	35.66	32.184		
7,000.0	6,798.5	6,834.0	6,798.5	31.2	17.1	146.18	-61.6	-473.4	1,147.7	1,111.7	36.01	31.867		
7,100.0	6,898.5	6,934.0	6,898.5	31.3	17.3	146.18	-61.6	-473.4	1,147.7	1,111.3	36.37	31.556		
7,200.0	6,998.5	7,034.0	6,998.5	31.4	17.5	146.18	-61.6	-473.4	1,147.7	1,111.0	36.73	31.248		
7,300.0	7,098.5	7,134.0	7,098.5	31.5	17.7	146.18	-61.6	-473.4	1,147.7	1,110.6	37.09	30.945		
7,400.0	7,198.5	7,234.0	7,198.5	31.6	17.8	146.18	-61.6	-473.4	1,147.7	1,110.2	37.45	30.646		
7,500.0	7,298.5	7,334.0	7,298.5	31.7	18.0	146.18	-61.6	-473.4	1,147.7	1,109.9	37.81	30.352		
7,600.0	7,398.5	7,434.0	7,398.5	31.8	18.2	146.18	-61.6	-473.4	1,147.7	1,109.5	38.18	30.061		
7,700.0	7,498.5	7,534.0	7,498.5	32.0	18.4	146.18	-61.6	-473.4	1,147.7	1,109.2	38.55	29.775		
7,751.5	7,550.0	7,585.4	7,550.0	32.0	18.5	146.18	-61.6	-473.4	1,147.7	1,109.0	38.74	29.629		

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Project:</b>	SEC.31-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Reference Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-24-11)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W - Bosworth-Bailey 9-31 - Wellbore #1 - Plan #1 (10-24-11)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	89.97	0.0	15.0	15.0	15.0	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	89.97	0.0	15.0	15.0	14.8	0.22	66.790		
200.0	200.0	200.0	200.0	0.3	0.3	89.97	0.0	15.0	15.0	14.3	0.67	22.263 CC		
227.9	227.9	227.9	227.9	0.4	0.4	90.49	0.0	15.0	15.0	14.2	0.80	18.778		
300.0	300.0	300.0	300.0	0.6	0.6	96.60	0.0	15.0	15.1	14.0	1.12	13.450 ES		
400.0	399.8	399.8	399.8	0.8	0.8	114.85	0.0	15.0	16.6	15.0	1.58	10.468		
450.0	449.7	449.7	449.7	0.9	0.9	125.86	0.0	15.0	18.5	16.7	1.82	10.213 SF		
500.0	499.5	499.5	499.5	1.0	1.0	144.68	0.0	15.0	21.8	19.8	2.05	10.644		
600.0	598.9	598.9	598.9	1.3	1.2	168.14	0.0	15.0	31.5	29.0	2.50	12.625		
700.0	698.1	698.1	698.1	1.6	1.5	179.73	0.0	15.0	44.5	41.5	2.95	15.102		
800.0	796.8	796.8	796.8	1.9	1.7	-174.57	0.0	15.0	60.3	56.9	3.40	17.766		
900.0	895.0	895.0	895.0	2.3	1.9	-171.79	0.0	15.0	79.1	75.3	3.85	20.553		
1,000.0	992.5	994.0	994.0	2.7	2.1	-170.60	0.3	14.9	100.6	96.3	4.30	23.371		
1,100.0	1,089.3	1,095.0	1,095.0	3.2	2.3	-170.78	3.5	13.9	122.6	117.8	4.76	25.751		
1,178.9	1,165.0	1,175.1	1,174.9	3.6	2.5	-171.60	8.4	12.2	140.0	134.9	5.12	27.335		
1,200.0	1,185.2	1,196.6	1,196.3	3.7	2.6	-172.29	10.1	11.7	144.6	139.4	5.22	27.693		
1,300.0	1,280.8	1,299.0	1,298.2	4.3	2.8	-175.42	20.2	8.4	165.0	159.3	5.72	28.845		
1,400.0	1,376.3	1,402.5	1,400.6	4.9	3.1	-178.47	33.9	3.8	182.7	176.5	6.24	29.259		
1,500.0	1,471.9	1,506.5	1,503.0	5.4	3.4	178.40	51.2	-1.9	197.9	191.1	6.81	29.069		
1,600.0	1,567.5	1,611.0	1,605.2	6.0	3.7	175.08	72.1	-8.8	210.7	203.2	7.43	28.371		
1,700.0	1,663.1	1,715.7	1,706.6	6.6	4.1	171.52	96.6	-16.9	221.3	213.2	8.12	27.242		
1,800.0	1,758.7	1,820.2	1,806.9	7.2	4.6	167.64	124.5	-26.1	230.2	221.2	8.94	25.760		
1,900.0	1,854.3	1,924.2	1,905.6	7.8	5.1	163.41	155.8	-36.4	237.5	227.7	9.88	24.038		
2,000.0	1,949.9	2,024.4	1,999.7	8.4	5.7	159.05	188.5	-47.2	244.3	233.4	10.96	22.285		
2,100.0	2,045.5	2,122.5	2,091.6	9.1	6.3	154.97	220.8	-57.9	252.3	240.1	12.13	20.791		
2,200.0	2,141.1	2,220.6	2,183.6	9.7	6.9	151.16	253.1	-68.6	261.5	248.1	13.38	19.541		
2,300.0	2,236.7	2,318.6	2,275.6	10.3	7.5	147.62	285.3	-79.2	271.7	257.1	14.68	18.507		
2,400.0	2,332.3	2,416.7	2,367.6	10.9	8.2	144.33	317.6	-89.9	283.0	267.0	16.03	17.660		
2,500.0	2,427.8	2,514.8	2,459.6	11.5	8.8	141.30	349.9	-100.5	295.1	277.8	17.39	16.969		
2,600.0	2,523.4	2,612.8	2,551.6	12.1	9.4	138.52	382.2	-111.2	308.0	289.3	18.77	16.407		
2,700.0	2,619.0	2,710.9	2,643.6	12.7	10.1	135.95	414.4	-121.8	321.6	301.5	20.16	15.951		
2,800.0	2,714.6	2,809.0	2,735.6	13.3	10.7	133.60	446.7	-132.5	335.8	314.2	21.55	15.580		
2,900.0	2,810.2	2,907.0	2,827.6	14.0	11.4	131.43	479.0	-143.2	350.5	327.5	22.94	15.278		
3,000.0	2,905.8	3,005.1	2,919.5	14.6	12.0	129.44	511.3	-153.8	365.6	341.3	24.32	15.033		
3,100.0	3,001.4	3,103.2	3,011.5	15.2	12.7	127.61	543.5	-164.5	381.2	355.5	25.69	14.834		
3,200.0	3,097.0	3,201.2	3,103.5	15.8	13.4	125.92	575.8	-175.1	397.1	370.0	27.06	14.672		
3,300.0	3,192.6	3,299.3	3,195.5	16.4	14.0	124.36	608.1	-185.8	413.3	384.9	28.42	14.542		
3,400.0	3,288.2	3,397.4	3,287.5	17.0	14.7	122.92	640.3	-196.5	429.8	400.0	29.77	14.437		
3,500.0	3,383.8	3,495.4	3,379.5	17.6	15.4	121.58	672.6	-207.1	446.5	415.4	31.11	14.352		
3,600.0	3,479.4	3,593.5	3,471.5	18.3	16.0	120.34	704.9	-217.8	463.5	431.0	32.44	14.285		
3,700.0	3,574.9	3,691.6	3,563.5	18.9	16.7	119.19	737.2	-228.4	480.6	446.9	33.77	14.232		
3,800.0	3,670.5	3,789.7	3,655.5	19.5	17.4	118.12	769.4	-239.1	498.0	462.9	35.09	14.191		
3,900.0	3,766.1	3,887.7	3,747.5	20.1	18.1	117.12	801.7	-249.7	515.5	479.1	36.40	14.160		
4,000.0	3,861.7	3,985.8	3,839.4	20.7	18.7	116.18	834.0	-260.4	533.1	495.4	37.71	14.137		
4,100.0	3,957.3	4,083.9	3,931.4	21.3	19.4	115.30	866.2	-271.1	550.9	511.9	39.01	14.121		
4,200.0	4,052.9	4,181.9	4,023.4	22.0	20.1	114.48	898.5	-281.7	568.8	528.5	40.31	14.111		
4,300.0	4,148.5	4,280.0	4,115.4	22.6	20.8	113.71	930.8	-292.4	586.8	545.2	41.60	14.106		
4,400.0	4,244.1	4,378.1	4,207.4	23.2	21.4	112.98	963.1	-303.0	604.9	562.0	42.88	14.105		
4,500.0	4,339.7	4,476.1	4,299.4	23.8	22.1	112.30	995.3	-313.7	623.0	578.9	44.16	14.107		
4,600.0	4,435.3	4,574.2	4,391.4	24.4	22.8	111.66	1,027.6	-324.3	641.3	595.9	45.44	14.112		
4,700.0	4,530.9	4,672.3	4,483.4	25.1	23.5	111.05	1,059.9	-335.0	659.6	612.9	46.72	14.120		

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

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Project:</b>	SEC.31-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Reference Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-24-11)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W - Bosworth-Bailey 9-31 - Wellbore #1 - Plan #1 (10-24-11)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,800.0	4,626.4	4,770.3	4,575.4	25.7	24.1	110.47		1,092.2	-345.7	678.1	630.1	47.99	14.130	
4,900.0	4,722.0	4,868.4	4,667.4	26.3	24.8	109.92		1,124.4	-356.3	696.5	647.3	49.26	14.141	
5,000.0	4,817.6	4,966.5	4,759.3	26.9	25.5	109.41		1,156.7	-367.0	715.1	664.5	50.52	14.154	
5,100.0	4,913.2	5,064.5	4,851.3	27.5	26.2	108.91		1,189.0	-377.6	733.6	681.9	51.78	14.168	
5,147.6	4,958.7	5,111.2	4,895.1	27.8	26.5	108.69		1,204.3	-382.7	742.5	690.1	52.38	14.175	
5,200.0	5,008.9	5,165.3	4,946.0	28.1	26.8	108.60		1,221.9	-388.5	752.1	699.0	53.01	14.188	
5,300.0	5,105.5	5,270.9	5,046.1	28.5	27.4	108.43		1,253.5	-398.9	768.8	714.8	54.01	14.235	
5,400.0	5,202.9	5,377.2	5,148.2	28.9	27.9	108.25		1,281.8	-408.3	783.6	728.7	54.89	14.274	
5,500.0	5,301.1	5,484.2	5,251.9	29.3	28.3	108.06		1,306.6	-416.5	796.3	740.6	55.68	14.300	
5,600.0	5,399.8	5,591.8	5,357.2	29.5	28.7	107.87		1,327.9	-423.5	807.0	750.6	56.38	14.314	
5,700.0	5,499.1	5,699.9	5,463.7	29.8	29.0	107.66		1,345.4	-429.3	815.6	758.6	56.97	14.317	
5,800.0	5,598.7	5,808.5	5,571.4	30.0	29.3	107.45		1,359.2	-433.8	822.1	764.6	57.45	14.310	
5,900.0	5,698.6	5,917.5	5,679.8	30.1	29.5	107.22		1,369.1	-437.1	826.5	768.6	57.83	14.291	
6,001.5	5,800.0	6,028.4	5,790.5	30.2	29.7	54.33		1,375.2	-439.1	828.7	770.6	58.11	14.261	
6,100.0	5,898.5	6,136.3	5,898.4	30.3	29.8	54.19		1,377.1	-439.8	829.3	771.0	58.32	14.221	
6,200.0	5,998.5	6,236.4	5,998.5	30.4	29.9	54.19		1,377.1	-439.8	829.3	770.8	58.50	14.175	
6,300.0	6,098.5	6,336.4	6,098.5	30.5	30.0	54.19		1,377.1	-439.8	829.3	770.6	58.69	14.129	
6,400.0	6,198.5	6,436.4	6,198.5	30.6	30.1	54.19		1,377.1	-439.8	829.3	770.4	58.89	14.082	
6,500.0	6,298.5	6,536.4	6,298.5	30.7	30.2	54.19		1,377.1	-439.8	829.3	770.2	59.09	14.035	
6,600.0	6,398.5	6,636.4	6,398.5	30.8	30.3	54.19		1,377.1	-439.8	829.3	770.0	59.29	13.988	
6,700.0	6,498.5	6,736.4	6,498.5	30.9	30.4	54.19		1,377.1	-439.8	829.3	769.8	59.49	13.940	
6,800.0	6,598.5	6,836.4	6,598.5	31.0	30.5	54.19		1,377.1	-439.8	829.3	769.6	59.70	13.892	
6,900.0	6,698.5	6,936.4	6,698.5	31.1	30.6	54.19		1,377.1	-439.8	829.3	769.4	59.90	13.844	
7,000.0	6,798.5	7,036.4	6,798.5	31.2	30.7	54.19		1,377.1	-439.8	829.3	769.2	60.12	13.795	
7,100.0	6,898.5	7,136.4	6,898.5	31.3	30.8	54.19		1,377.1	-439.8	829.3	769.0	60.33	13.747	
7,200.0	6,998.5	7,236.4	6,998.5	31.4	30.9	54.19		1,377.1	-439.8	829.3	768.8	60.54	13.697	
7,300.0	7,098.5	7,336.4	7,098.5	31.5	31.0	54.19		1,377.1	-439.8	829.3	768.5	60.76	13.648	
7,400.0	7,198.5	7,436.4	7,198.5	31.6	31.1	54.19		1,377.1	-439.8	829.3	768.3	60.98	13.599	
7,500.0	7,298.5	7,536.4	7,298.5	31.7	31.2	54.19		1,377.1	-439.8	829.3	768.1	61.21	13.549	
7,600.0	7,398.5	7,636.4	7,398.5	31.8	31.3	54.19		1,377.1	-439.8	829.3	767.9	61.43	13.499	
7,700.0	7,498.5	7,736.4	7,498.5	32.0	31.4	54.19		1,377.1	-439.8	829.3	767.6	61.66	13.449	
7,751.5	7,550.0	7,787.9	7,550.0	32.0	31.5	54.19		1,377.1	-439.8	829.3	767.5	61.78	13.423	

Reference Depths are relative to WELL @ 4885.0ft (Original Well Elev) Coordinates are relative to: Bosworth-Bailey 20-31  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.44°





<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Bosworth-Bailey 20-31
<b>Project:</b>	SEC.31-T7N-R66W	<b>TVD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Reference Site:</b>	Bosworth-Bailey 9-31 Pad Sec.31-T7N-R66W	<b>MD Reference:</b>	WELL @ 4885.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Bosworth-Bailey 20-31	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (10-24-11)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4885.0ft (Original Well Elev) Coordinates are relative to: Bosworth-Bailey 20-31  
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 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.44°

