

# ENSIGN

## Directional

### Well Name: Schneider 20-36

Surface Location: Baldridge & Schneider Pad Sec.36-T7N-R67W  
North American Datum 1983, US State Plane 1983 Colorado Northern Zone  
Ground Elevation: 4877.0

+N/-S  
0.0

+E/-W  
0.0

Northing  
1434453.28  
Original Well Elev

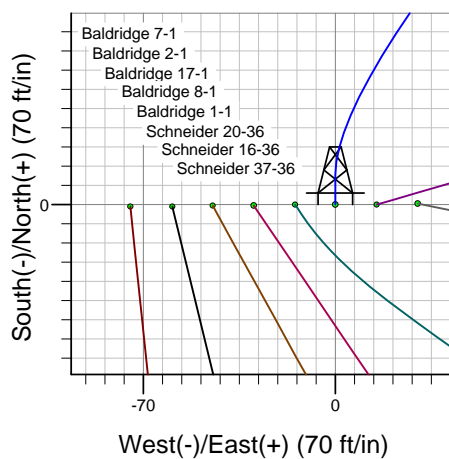
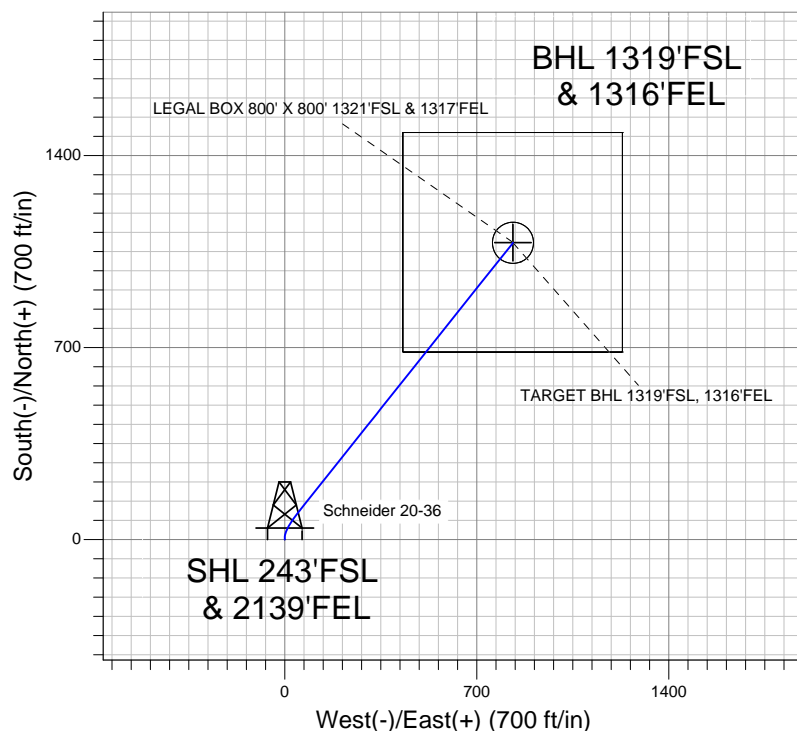
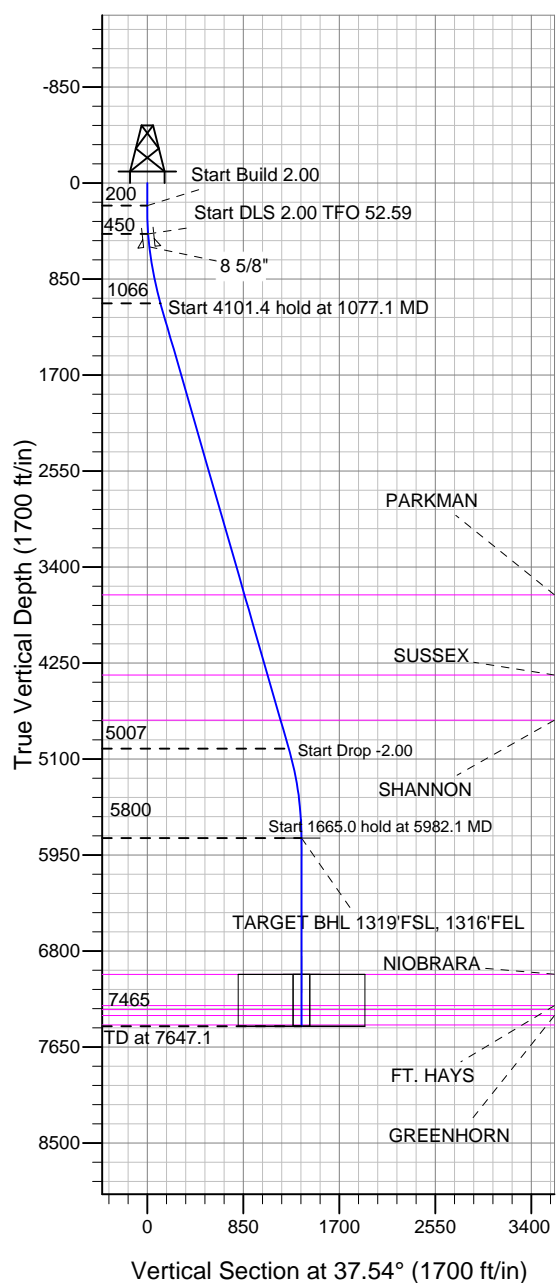
Easting  
3183505.61  
WELL @ 4893.0ft (Original Well Elev)

Latitude  
40.524100

Longitude  
-104.839903

Slot

## BAYSWATER EXPLORATION & PRODUCTION



Baldridge & Schneider Pad Sec.36-T7N-R67W  
Schneider 20-36  
Plan #1 (4-12-12)  
13:32, April 19 2012



Azimuths to True North  
Magnetic North: 8.80°  
Magnetic Field  
Strength: 53100.7snT  
Dip Angle: 67.11°  
Date: 4/12/2012  
Model: IGRF2010

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1319'FSL, 1316'FEL	5800.0	1082.1	831.5	40.527070	-104.836912	Point
LEGAL BOX 800' X 800' 1321'FSL & 1317'FEL	7006.0	1084.1	830.5	40.527076	-104.836916	Rectangle (Sides: L800.0 W800.0)
TARGET CIRCLE 1319'FSL & 1316'FEL	7006.0	1082.1	831.5	40.527070	-104.836912	Circle (Radius: 75.0)

### 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	8.6	
4	1077.1	16.07	38.54	1065.8	106.5	54.3	2.00	52.59	117.5	
5	5178.5	16.07	38.54	5007.0	994.5	761.7	0.00	0.00	1252.7	
6	5982.1	0.00	0.00	5800.0	1082.1	831.5	2.00	180.00	1364.6	TARGET BHL 1319'FSL, 1316'FEL
7	7647.1	0.00	0.00	7465.0	1082.1	831.5	0.00	0.00	1364.6	



# **BAYSWATER EXPLORATION & PRODUCTION**

**SEC.36-T7N-R67W**

**Baldrige & Schneider Pad Sec.36-T7N-R67W**

**Schneider 20-36**

**Wellbore #1**

**Plan: Plan #1 (4-12-12)**

## **Standard Planning Report**

**19 April, 2012**

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Schneider 20-36
<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Project:</b>	SEC.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Schneider 20-36	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-12-12)		

<b>Project</b>	SEC.36-T7N-R67W, 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						Baldrige & Schneider Pad Sec.36-T7N-R67W											
Site Position:						Northing:			1,434,452.01 ft			Latitude:			40.524098		
From:			Lat/Long			Easting:			3,183,430.84 ft			Longitude:			-104.840172		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.43 °		

Well	Schneider 20-36					
Well Position	+N/-S	0.7 ft	Northing:	1,434,453.28 ft	Latitude:	40.524100
	+E/-W	74.8 ft	Easting:	3,183,505.61 ft	Longitude:	-104.839903
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,877.0 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	4/12/2012	8.80	67.11	53,101

<b>Design</b>	Plan #1 (4-12-12)			
<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	37.54

<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	
1,077.1	16.07	38.54	1,065.8	106.5	54.3	2.00	1.77	6.15	52.59	
5,178.5	16.07	38.54	5,007.0	994.5	761.7	0.00	0.00	0.00	0.00	
5,982.1	0.00	0.00	5,800.0	1,082.1	831.5	2.00	-2.00	0.00	180.00	TARGET BHL 1319
7,647.1	0.00	0.00	7,465.0	1,082.1	831.5	0.00	0.00	0.00	0.00	

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<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Project:</b>	SEC.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Schneider 20-36	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-12-12)		

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	0.9	2.00	2.00	0.00
320.0	2.40	0.00	320.0	2.5	0.0	2.0	2.00	2.00	0.00
360.0	3.20	0.00	359.9	4.5	0.0	3.5	2.00	2.00	0.00
400.0	4.00	0.00	399.8	7.0	0.0	5.5	2.00	2.00	0.00
440.0	4.80	0.00	439.7	10.0	0.0	8.0	2.00	2.00	0.00
450.0	5.00	0.00	449.7	10.9	0.0	8.6	2.00	2.00	0.00
480.0	5.39	5.08	479.6	13.6	0.1	10.9	2.00	1.29	16.95
520.0	5.96	10.78	519.4	17.5	0.7	14.3	2.00	1.42	14.24
560.0	6.57	15.45	559.1	21.8	1.7	18.3	2.00	1.54	11.67
565.9	6.67	16.07	565.0	22.4	1.9	18.9	2.00	1.60	10.42
8 5/8"									
600.0	7.23	19.30	598.8	26.3	3.1	22.8	2.00	1.64	9.49
640.0	7.91	22.50	638.5	31.3	5.0	27.8	2.00	1.70	8.01
680.0	8.61	25.19	678.1	36.5	7.3	33.4	2.00	1.75	6.73
720.0	9.32	27.48	717.6	42.1	10.1	39.5	2.00	1.79	5.71
760.0	10.05	29.44	757.0	48.0	13.3	46.2	2.00	1.82	4.90
800.0	10.79	31.13	796.4	54.3	17.0	53.4	2.00	1.85	4.24
840.0	11.54	32.61	835.6	60.8	21.1	61.1	2.00	1.87	3.70
880.0	12.29	33.91	874.7	67.7	25.6	69.3	2.00	1.88	3.25
920.0	13.05	35.06	913.8	75.0	30.6	78.1	2.00	1.90	2.88
960.0	13.81	36.09	952.7	82.5	36.0	87.3	2.00	1.91	2.57
1,000.0	14.58	37.01	991.4	90.4	41.8	97.2	2.00	1.92	2.30
1,040.0	15.35	37.84	1,030.1	98.6	48.1	107.5	2.00	1.93	2.08
1,077.1	16.07	38.54	1,065.8	106.5	54.3	117.5	2.00	1.93	1.89
1,080.0	16.07	38.54	1,068.6	107.1	54.8	118.3	0.00	0.00	0.00
1,120.0	16.07	38.54	1,107.0	115.8	61.7	129.4	0.00	0.00	0.00
1,160.0	16.07	38.54	1,145.5	124.4	68.6	140.5	0.00	0.00	0.00
1,200.0	16.07	38.54	1,183.9	133.1	75.5	151.5	0.00	0.00	0.00
1,240.0	16.07	38.54	1,222.3	141.8	82.4	162.6	0.00	0.00	0.00
1,280.0	16.07	38.54	1,260.8	150.4	89.3	173.7	0.00	0.00	0.00
1,320.0	16.07	38.54	1,299.2	159.1	96.2	184.8	0.00	0.00	0.00
1,360.0	16.07	38.54	1,337.6	167.7	103.1	195.8	0.00	0.00	0.00
1,400.0	16.07	38.54	1,376.1	176.4	110.0	206.9	0.00	0.00	0.00
1,440.0	16.07	38.54	1,414.5	185.1	116.9	218.0	0.00	0.00	0.00
1,480.0	16.07	38.54	1,453.0	193.7	123.8	229.0	0.00	0.00	0.00
1,520.0	16.07	38.54	1,491.4	202.4	130.7	240.1	0.00	0.00	0.00
1,560.0	16.07	38.54	1,529.8	211.1	137.6	251.2	0.00	0.00	0.00
1,600.0	16.07	38.54	1,568.3	219.7	144.5	262.3	0.00	0.00	0.00
1,640.0	16.07	38.54	1,606.7	228.4	151.4	273.3	0.00	0.00	0.00
1,680.0	16.07	38.54	1,645.1	237.0	158.3	284.4	0.00	0.00	0.00
1,720.0	16.07	38.54	1,683.6	245.7	165.2	295.5	0.00	0.00	0.00
1,760.0	16.07	38.54	1,722.0	254.4	172.1	306.5	0.00	0.00	0.00
1,800.0	16.07	38.54	1,760.5	263.0	179.0	317.6	0.00	0.00	0.00
1,840.0	16.07	38.54	1,798.9	271.7	185.9	328.7	0.00	0.00	0.00
1,880.0	16.07	38.54	1,837.3	280.3	192.8	339.8	0.00	0.00	0.00

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<b>Project:</b>	SEC.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Schneider 20-36	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-12-12)		

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)
1,920.0	16.07	38.54	1,875.8	289.0	199.7	350.8	0.00	0.00	0.00
1,960.0	16.07	38.54	1,914.2	297.7	206.6	361.9	0.00	0.00	0.00
2,000.0	16.07	38.54	1,952.6	306.3	213.5	373.0	0.00	0.00	0.00
2,040.0	16.07	38.54	1,991.1	315.0	220.4	384.0	0.00	0.00	0.00
2,080.0	16.07	38.54	2,029.5	323.6	227.3	395.1	0.00	0.00	0.00
2,120.0	16.07	38.54	2,067.9	332.3	234.2	406.2	0.00	0.00	0.00
2,160.0	16.07	38.54	2,106.4	341.0	241.1	417.2	0.00	0.00	0.00
2,200.0	16.07	38.54	2,144.8	349.6	248.0	428.3	0.00	0.00	0.00
2,240.0	16.07	38.54	2,183.3	358.3	254.9	439.4	0.00	0.00	0.00
2,280.0	16.07	38.54	2,221.7	366.9	261.8	450.5	0.00	0.00	0.00
2,320.0	16.07	38.54	2,260.1	375.6	268.7	461.5	0.00	0.00	0.00
2,360.0	16.07	38.54	2,298.6	384.3	275.6	472.6	0.00	0.00	0.00
2,400.0	16.07	38.54	2,337.0	392.9	282.5	483.7	0.00	0.00	0.00
2,440.0	16.07	38.54	2,375.4	401.6	289.4	494.7	0.00	0.00	0.00
2,480.0	16.07	38.54	2,413.9	410.2	296.3	505.8	0.00	0.00	0.00
2,520.0	16.07	38.54	2,452.3	418.9	303.2	516.9	0.00	0.00	0.00
2,560.0	16.07	38.54	2,490.8	427.6	310.1	528.0	0.00	0.00	0.00
2,600.0	16.07	38.54	2,529.2	436.2	317.0	539.0	0.00	0.00	0.00
2,640.0	16.07	38.54	2,567.6	444.9	323.9	550.1	0.00	0.00	0.00
2,680.0	16.07	38.54	2,606.1	453.5	330.8	561.2	0.00	0.00	0.00
2,720.0	16.07	38.54	2,644.5	462.2	337.7	572.2	0.00	0.00	0.00
2,760.0	16.07	38.54	2,682.9	470.9	344.6	583.3	0.00	0.00	0.00
2,800.0	16.07	38.54	2,721.4	479.5	351.5	594.4	0.00	0.00	0.00
2,840.0	16.07	38.54	2,759.8	488.2	358.4	605.5	0.00	0.00	0.00
2,880.0	16.07	38.54	2,798.2	496.8	365.3	616.5	0.00	0.00	0.00
2,920.0	16.07	38.54	2,836.7	505.5	372.2	627.6	0.00	0.00	0.00
2,960.0	16.07	38.54	2,875.1	514.2	379.1	638.7	0.00	0.00	0.00
3,000.0	16.07	38.54	2,913.6	522.8	386.0	649.7	0.00	0.00	0.00
3,040.0	16.07	38.54	2,952.0	531.5	392.9	660.8	0.00	0.00	0.00
3,080.0	16.07	38.54	2,990.4	540.1	399.8	671.9	0.00	0.00	0.00
3,120.0	16.07	38.54	3,028.9	548.8	406.7	683.0	0.00	0.00	0.00
3,160.0	16.07	38.54	3,067.3	557.5	413.6	694.0	0.00	0.00	0.00
3,200.0	16.07	38.54	3,105.7	566.1	420.5	705.1	0.00	0.00	0.00
3,240.0	16.07	38.54	3,144.2	574.8	427.4	716.2	0.00	0.00	0.00
3,280.0	16.07	38.54	3,182.6	583.4	434.3	727.2	0.00	0.00	0.00
3,320.0	16.07	38.54	3,221.1	592.1	441.2	738.3	0.00	0.00	0.00
3,360.0	16.07	38.54	3,259.5	600.8	448.1	749.4	0.00	0.00	0.00
3,400.0	16.07	38.54	3,297.9	609.4	455.0	760.4	0.00	0.00	0.00
3,440.0	16.07	38.54	3,336.4	618.1	461.9	771.5	0.00	0.00	0.00
3,480.0	16.07	38.54	3,374.8	626.8	468.8	782.6	0.00	0.00	0.00
3,520.0	16.07	38.54	3,413.2	635.4	475.7	793.7	0.00	0.00	0.00
3,560.0	16.07	38.54	3,451.7	644.1	482.6	804.7	0.00	0.00	0.00
3,600.0	16.07	38.54	3,490.1	652.7	489.5	815.8	0.00	0.00	0.00
3,640.0	16.07	38.54	3,528.5	661.4	496.4	826.9	0.00	0.00	0.00
3,680.0	16.07	38.54	3,567.0	670.1	503.3	837.9	0.00	0.00	0.00
3,720.0	16.07	38.54	3,605.4	678.7	510.2	849.0	0.00	0.00	0.00
3,760.0	16.07	38.54	3,643.9	687.4	517.1	860.1	0.00	0.00	0.00
3,762.2	16.07	38.54	3,646.0	687.9	517.4	860.7	0.00	0.00	0.00
<b>PARKMAN</b>									
3,800.0	16.07	38.54	3,682.3	696.0	524.0	871.2	0.00	0.00	0.00
3,840.0	16.07	38.54	3,720.7	704.7	530.9	882.2	0.00	0.00	0.00
3,880.0	16.07	38.54	3,759.2	713.4	537.8	893.3	0.00	0.00	0.00

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<b>Project:</b>	SEC.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Schneider 20-36	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-12-12)		

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)
3,920.0	16.07	38.54	3,797.6	722.0	544.7	904.4	0.00	0.00	0.00
3,960.0	16.07	38.54	3,836.0	730.7	551.6	915.4	0.00	0.00	0.00
4,000.0	16.07	38.54	3,874.5	739.3	558.5	926.5	0.00	0.00	0.00
4,040.0	16.07	38.54	3,912.9	748.0	565.4	937.6	0.00	0.00	0.00
4,080.0	16.07	38.54	3,951.4	756.7	572.3	948.7	0.00	0.00	0.00
4,120.0	16.07	38.54	3,989.8	765.3	579.2	959.7	0.00	0.00	0.00
4,160.0	16.07	38.54	4,028.2	774.0	586.1	970.8	0.00	0.00	0.00
4,200.0	16.07	38.54	4,066.7	782.6	593.0	981.9	0.00	0.00	0.00
4,240.0	16.07	38.54	4,105.1	791.3	599.9	992.9	0.00	0.00	0.00
4,280.0	16.07	38.54	4,143.5	800.0	606.7	1,004.0	0.00	0.00	0.00
4,320.0	16.07	38.54	4,182.0	808.6	613.6	1,015.1	0.00	0.00	0.00
4,360.0	16.07	38.54	4,220.4	817.3	620.5	1,026.2	0.00	0.00	0.00
4,400.0	16.07	38.54	4,258.8	825.9	627.4	1,037.2	0.00	0.00	0.00
4,440.0	16.07	38.54	4,297.3	834.6	634.3	1,048.3	0.00	0.00	0.00
4,480.0	16.07	38.54	4,335.7	843.3	641.2	1,059.4	0.00	0.00	0.00
4,501.1	16.07	38.54	4,356.0	847.8	644.9	1,065.2	0.00	0.00	0.00
<b>SUSSEX</b>									
4,520.0	16.07	38.54	4,374.2	851.9	648.1	1,070.4	0.00	0.00	0.00
4,560.0	16.07	38.54	4,412.6	860.6	655.0	1,081.5	0.00	0.00	0.00
4,600.0	16.07	38.54	4,451.0	869.2	661.9	1,092.6	0.00	0.00	0.00
4,640.0	16.07	38.54	4,489.5	877.9	668.8	1,103.7	0.00	0.00	0.00
4,680.0	16.07	38.54	4,527.9	886.6	675.7	1,114.7	0.00	0.00	0.00
4,720.0	16.07	38.54	4,566.3	895.2	682.6	1,125.8	0.00	0.00	0.00
4,760.0	16.07	38.54	4,604.8	903.9	689.5	1,136.9	0.00	0.00	0.00
4,800.0	16.07	38.54	4,643.2	912.5	696.4	1,147.9	0.00	0.00	0.00
4,840.0	16.07	38.54	4,681.7	921.2	703.3	1,159.0	0.00	0.00	0.00
4,880.0	16.07	38.54	4,720.1	929.9	710.2	1,170.1	0.00	0.00	0.00
4,917.4	16.07	38.54	4,756.0	938.0	716.7	1,180.4	0.00	0.00	0.00
<b>SHANNON</b>									
4,920.0	16.07	38.54	4,758.5	938.5	717.1	1,181.1	0.00	0.00	0.00
4,960.0	16.07	38.54	4,797.0	947.2	724.0	1,192.2	0.00	0.00	0.00
5,000.0	16.07	38.54	4,835.4	955.8	730.9	1,203.3	0.00	0.00	0.00
5,040.0	16.07	38.54	4,873.8	964.5	737.8	1,214.4	0.00	0.00	0.00
5,080.0	16.07	38.54	4,912.3	973.2	744.7	1,225.4	0.00	0.00	0.00
5,120.0	16.07	38.54	4,950.7	981.8	751.6	1,236.5	0.00	0.00	0.00
5,160.0	16.07	38.54	4,989.2	990.5	758.5	1,247.6	0.00	0.00	0.00
5,178.5	16.07	38.54	5,007.0	994.5	761.7	1,252.7	0.00	0.00	0.00
5,200.0	15.64	38.54	5,027.6	999.1	765.4	1,258.6	2.00	-2.00	0.00
5,240.0	14.84	38.54	5,066.2	1,007.3	771.9	1,269.1	2.00	-2.00	0.00
5,280.0	14.04	38.54	5,104.9	1,015.1	778.2	1,279.1	2.00	-2.00	0.00
5,320.0	13.24	38.54	5,143.8	1,022.5	784.0	1,288.5	2.00	-2.00	0.00
5,360.0	12.44	38.54	5,182.8	1,029.4	789.6	1,297.4	2.00	-2.00	0.00
5,400.0	11.64	38.54	5,221.9	1,036.0	794.8	1,305.7	2.00	-2.00	0.00
5,440.0	10.84	38.54	5,261.2	1,042.1	799.6	1,313.5	2.00	-2.00	0.00
5,480.0	10.04	38.54	5,300.5	1,047.7	804.1	1,320.8	2.00	-2.00	0.00
5,520.0	9.24	38.54	5,339.9	1,053.0	808.3	1,327.5	2.00	-2.00	0.00
5,560.0	8.44	38.54	5,379.5	1,057.8	812.2	1,333.6	2.00	-2.00	0.00
5,600.0	7.64	38.54	5,419.1	1,062.2	815.6	1,339.2	2.00	-2.00	0.00
5,640.0	6.84	38.54	5,458.7	1,066.1	818.8	1,344.2	2.00	-2.00	0.00
5,680.0	6.04	38.54	5,498.5	1,069.6	821.6	1,348.7	2.00	-2.00	0.00
5,720.0	5.24	38.54	5,538.3	1,072.7	824.0	1,352.7	2.00	-2.00	0.00
5,760.0	4.44	38.54	5,578.2	1,075.3	826.1	1,356.0	2.00	-2.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Schneider 20-36
<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Project:</b>	SEC.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Schneider 20-36	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-12-12)		

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)
5,800.0	3.64	38.54	5,618.1	1,077.5	827.9	1,358.9	2.00	-2.00	0.00
5,840.0	2.84	38.54	5,658.0	1,079.3	829.3	1,361.1	2.00	-2.00	0.00
5,880.0	2.04	38.54	5,698.0	1,080.6	830.4	1,362.8	2.00	-2.00	0.00
5,920.0	1.24	38.54	5,737.9	1,081.5	831.1	1,364.0	2.00	-2.00	0.00
5,960.0	0.44	38.54	5,777.9	1,082.0	831.4	1,364.6	2.00	-2.00	0.00
5,982.1	0.00	0.00	5,800.0	1,082.1	831.5	1,364.6	2.00	-2.00	0.00
<b>TARGET BHL 1319'FSL, 1316'FEL</b>									
6,000.0	0.00	0.00	5,817.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,040.0	0.00	0.00	5,857.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,080.0	0.00	0.00	5,897.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,120.0	0.00	0.00	5,937.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,160.0	0.00	0.00	5,977.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,200.0	0.00	0.00	6,017.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,240.0	0.00	0.00	6,057.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,280.0	0.00	0.00	6,097.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,320.0	0.00	0.00	6,137.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,360.0	0.00	0.00	6,177.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,217.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,440.0	0.00	0.00	6,257.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,480.0	0.00	0.00	6,297.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,520.0	0.00	0.00	6,337.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,560.0	0.00	0.00	6,377.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,417.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,640.0	0.00	0.00	6,457.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,680.0	0.00	0.00	6,497.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,720.0	0.00	0.00	6,537.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,760.0	0.00	0.00	6,577.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,617.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,840.0	0.00	0.00	6,657.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,880.0	0.00	0.00	6,697.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,920.0	0.00	0.00	6,737.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
6,960.0	0.00	0.00	6,777.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,817.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,040.0	0.00	0.00	6,857.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,080.0	0.00	0.00	6,897.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,120.0	0.00	0.00	6,937.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,160.0	0.00	0.00	6,977.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,188.1	0.00	0.00	7,006.0	1,082.1	831.5	1,364.6	0.00	0.00	0.00
<b>NIOBRARA - TARGET CIRCLE 1319'FSL &amp; 1316'FEL - LEGAL BOX 800' X 800' 1321'FSL &amp; 1317'FEL</b>									
7,200.0	0.00	0.00	7,017.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,240.0	0.00	0.00	7,057.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,280.0	0.00	0.00	7,097.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,320.0	0.00	0.00	7,137.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,360.0	0.00	0.00	7,177.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,217.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,440.0	0.00	0.00	7,257.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,464.1	0.00	0.00	7,282.0	1,082.1	831.5	1,364.6	0.00	0.00	0.00
<b>FT. HAYS</b>									
7,480.0	0.00	0.00	7,297.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,500.1	0.00	0.00	7,318.0	1,082.1	831.5	1,364.6	0.00	0.00	0.00
<b>CODELL</b>									
7,520.0	0.00	0.00	7,337.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00



<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Schneider 20-36
<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Project:</b>	SEC.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Schneider 20-36	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-12-12)		

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)
7,552.1	0.00	0.00	7,370.0	1,082.1	831.5	1,364.6	0.00	0.00	0.00
<b>GREENHORN</b>									
7,560.0	0.00	0.00	7,377.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,417.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,636.1	0.00	0.00	7,454.0	1,082.1	831.5	1,364.6	0.00	0.00	0.00
<b>GRANEROS</b>									
7,640.0	0.00	0.00	7,457.9	1,082.1	831.5	1,364.6	0.00	0.00	0.00
7,647.1	0.00	0.00	7,465.0	1,082.1	831.5	1,364.6	0.00	0.00	0.00

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	
- Shape									Latitude Longitude
TARGET CIRCLE 131		0.00	0.00	7,006.0	1,082.1	831.5	1,435,541.46	3,184,329.00	40.527070 -104.836912
- plan hits target center									
- Circle (radius 75.0)									
TARGET BHL 1319'F		0.00	0.00	5,800.0	1,082.1	831.5	1,435,541.46	3,184,329.00	40.527070 -104.836912
- plan hits target center									
- Point									
LEGAL BOX 800' X 800'		0.00	0.00	7,006.0	1,084.1	830.5	1,435,543.50	3,184,327.99	40.527076 -104.836916
- plan misses target center by 2.3ft at 7188.1ft MD (7006.0 TVD, 1082.1 N, 831.5 E)									
- Rectangle (sides W800.0 H800.0 D459.0)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
565.9	565.0	8 5/8"		8-5/8	12-1/4

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,762.2	3,646.0	PARKMAN		0.00		
4,501.1	4,356.0	SUSSEX		0.00		
4,917.4	4,756.0	SHANNON		0.00		
7,188.1	7,006.0	NIOBRARA		0.00		
7,464.1	7,282.0	FT. HAYS		0.00		
7,500.1	7,318.0	CODELL		0.00		
7,552.1	7,370.0	GREENHORN		0.00		
7,636.1	7,454.0	GRANEROS		0.00		





# **BAYSWATER EXPLORATION & PRODUCTION**

**SEC.36-T7N-R67W**

**Baldrige & Schneider Pad Sec.36-T7N-R67W**

**Schneider 20-36**

**Wellbore #1**

**Plan #1 (4-12-12)**

## **Anticollision Report**

**19 April, 2012**

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Schneider 20-36
<b>Project:</b>	SEC.36-T7N-R67W	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Reference Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Schneider 20-36	<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 (4-12-12)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (4-12-12)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<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> 4/12/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	7,647.1	Plan #1 (4-12-12) (Wellbore #1)	MWD	MWD - Standard

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
Baldrige & Schneider Pad Sec.36-T7N-R67W						
Baldrige 1-1 - Wellbore #1 - Plan #1 (4-12-12)	315.4	315.6	14.0	12.9	11.994	CC, ES
Baldrige 1-1 - Wellbore #1 - Plan #1 (4-12-12)	400.0	399.7	16.6	15.1	10.662	SF
Schneider 16-36 - Wellbore #1 - Plan #1 (4-12-12)	200.0	200.0	15.0	14.3	22.264	CC
Schneider 16-36 - Wellbore #1 - Plan #1 (4-12-12)	300.0	300.0	15.1	14.0	13.450	ES
Schneider 16-36 - Wellbore #1 - Plan #1 (4-12-12)	500.0	499.5	21.3	19.3	10.429	SF

<b>Offset Design</b>												
Baldrige & Schneider Pad Sec.36-T7N-R67W - Baldrige 1-1 - Wellbore #1 - Plan #1 (4-12-12)												
Survey Program: 0-MWD												
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Distance</b>					
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>	<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>
0.0	0.0	0.0	0.0	0.0	0.0	-89.97	0.0	-14.7	14.7	14.7	0.00	N/A
100.0	100.0	100.0	100.0	0.1	0.1	-89.97	0.0	-14.7	14.7	14.5	0.22	65.555
200.0	200.0	200.0	200.0	0.3	0.3	-89.97	0.0	-14.7	14.7	14.1	0.67	21.852
300.0	300.0	300.2	300.2	0.6	0.5	-103.03	-1.4	-13.7	14.1	13.0	1.10	12.778
315.4	315.4	315.6	315.6	0.6	0.6	-107.53	-1.9	-13.4	14.0	12.9	1.17	11.994 CC, ES
400.0	399.8	399.7	399.5	0.8	0.8	-139.59	-5.7	-10.7	16.6	15.1	1.56	10.662 SF
500.0	499.5	498.2	497.7	1.0	1.0	-175.86	-12.5	-5.7	28.7	26.7	2.06	13.978
600.0	598.8	595.8	594.6	1.3	1.3	161.47	-20.8	2.2	47.3	44.8	2.53	18.692
700.0	697.8	692.2	689.9	1.6	1.6	149.22	-30.2	13.0	70.0	67.0	3.04	23.070
800.0	796.4	787.3	783.5	1.9	1.9	141.71	-40.7	26.5	96.3	92.7	3.59	26.853
900.0	894.3	881.0	875.0	2.3	2.3	136.68	-52.3	42.7	125.9	121.7	4.20	30.007
1,000.0	991.4	973.1	964.4	2.8	2.8	133.07	-64.7	61.2	158.7	153.8	4.87	32.561
1,100.0	1,087.8	1,063.6	1,051.5	3.3	3.3	130.85	-78.0	82.0	194.4	188.8	5.62	34.571
1,200.0	1,183.9	1,152.8	1,136.4	3.8	3.8	130.29	-92.2	105.0	232.1	225.7	6.44	36.070
1,300.0	1,280.0	1,240.5	1,219.2	4.3	4.4	129.37	-107.1	129.9	271.4	264.1	7.29	37.225
1,400.0	1,376.1	1,331.0	1,304.0	4.9	5.0	128.33	-123.2	157.3	311.7	303.5	8.20	38.025
1,500.0	1,472.2	1,422.4	1,389.5	5.4	5.7	127.52	-139.4	185.0	352.2	343.1	9.12	38.624
1,600.0	1,568.3	1,513.7	1,475.0	6.0	6.4	126.87	-155.6	212.7	392.7	382.6	10.05	39.069
1,700.0	1,664.4	1,605.1	1,560.6	6.5	7.0	126.35	-171.8	240.4	433.2	422.2	10.99	39.409
1,800.0	1,760.5	1,696.4	1,646.1	7.1	7.7	125.91	-188.0	268.1	473.8	461.8	11.94	39.676
1,900.0	1,856.5	1,787.8	1,731.6	7.6	8.4	125.55	-204.3	295.7	514.3	501.5	12.89	39.889

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 Schneider 20-36
<b>Project:</b>	SEC.36-T7N-R67W	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Reference Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Schneider 20-36	<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 (4-12-12)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
				Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,000.0	1,952.6	1,879.1	1,817.1	8.2	9.1	125.23	-220.5	323.4	554.9	541.1	13.85	40.063		
2,100.0	2,048.7	1,970.5	1,902.7	8.8	9.7	124.96	-236.7	351.1	595.5	580.7	14.81	40.206		
2,200.0	2,144.8	2,061.8	1,988.2	9.3	10.4	124.73	-252.9	378.8	636.1	620.4	15.78	40.326		
2,300.0	2,240.9	2,153.2	2,073.7	9.9	11.1	124.52	-269.1	406.5	676.8	660.0	16.74	40.427		
2,400.0	2,337.0	2,244.5	2,159.3	10.5	11.8	124.34	-285.4	434.2	717.4	699.7	17.71	40.514		
2,500.0	2,433.1	2,335.9	2,244.8	11.0	12.5	124.17	-301.6	461.9	758.0	739.4	18.68	40.589		
2,600.0	2,529.2	2,427.3	2,330.3	11.6	13.2	124.02	-317.8	489.6	798.7	779.0	19.65	40.653		
2,700.0	2,625.3	2,518.6	2,415.9	12.2	13.8	123.89	-334.0	517.2	839.3	818.7	20.62	40.710		
2,800.0	2,721.4	2,610.0	2,501.4	12.7	14.5	123.77	-350.2	544.9	879.9	858.4	21.59	40.760		
2,900.0	2,817.5	2,701.3	2,586.9	13.3	15.2	123.66	-366.5	572.6	920.6	898.0	22.56	40.804		
3,000.0	2,913.6	2,792.7	2,672.5	13.9	15.9	123.56	-382.7	600.3	961.2	937.7	23.53	40.843		
3,100.0	3,009.7	2,884.0	2,758.0	14.4	16.6	123.47	-398.9	628.0	1,001.9	977.4	24.51	40.878		
3,200.0	3,105.7	2,975.4	2,843.5	15.0	17.3	123.38	-415.1	655.7	1,042.5	1,017.1	25.48	40.910		
3,300.0	3,201.8	3,066.7	2,929.1	15.6	18.0	123.30	-431.3	683.4	1,083.2	1,056.7	26.46	40.938		
3,400.0	3,297.9	3,158.1	3,014.6	16.1	18.7	123.23	-447.6	711.1	1,123.9	1,096.4	27.44	40.964		
3,500.0	3,394.0	3,249.4	3,100.1	16.7	19.3	123.16	-463.8	738.7	1,164.5	1,136.1	28.41	40.987		
3,600.0	3,490.1	3,340.8	3,185.7	17.3	20.0	123.10	-480.0	766.4	1,205.2	1,175.8	29.39	41.009		
3,700.0	3,586.2	3,432.1	3,271.2	17.8	20.7	123.04	-496.2	794.1	1,245.8	1,215.5	30.37	41.028		
3,800.0	3,682.3	3,523.5	3,356.7	18.4	21.4	122.98	-512.4	821.8	1,286.5	1,255.2	31.34	41.046		
3,900.0	3,778.4	3,614.8	3,442.3	19.0	22.1	122.93	-528.6	849.5	1,327.2	1,294.8	32.32	41.063		
4,000.0	3,874.5	3,706.2	3,527.8	19.5	22.8	122.88	-544.9	877.2	1,367.8	1,334.5	33.30	41.078		
4,100.0	3,970.6	3,797.5	3,613.3	20.1	23.5	122.83	-561.1	904.9	1,408.5	1,374.2	34.28	41.092		
4,200.0	4,066.7	3,888.9	3,698.8	20.7	24.2	122.79	-577.3	932.5	1,449.2	1,413.9	35.26	41.105		
4,300.0	4,162.8	3,980.2	3,784.4	21.2	24.8	122.75	-593.5	960.2	1,489.8	1,453.6	36.23	41.117		
4,400.0	4,258.8	4,071.6	3,869.9	21.8	25.5	122.71	-609.7	987.9	1,530.5	1,493.3	37.21	41.128		
4,500.0	4,354.9	4,163.0	3,955.4	22.4	26.2	122.67	-626.0	1,015.6	1,571.2	1,533.0	38.19	41.138		
4,600.0	4,451.0	4,254.3	4,041.0	22.9	26.9	122.64	-642.2	1,043.3	1,611.8	1,572.7	39.17	41.148		
4,700.0	4,547.1	4,345.7	4,126.5	23.5	27.6	122.60	-658.4	1,071.0	1,652.5	1,612.3	40.15	41.157		
4,800.0	4,643.2	4,437.0	4,212.0	24.1	28.3	122.57	-674.6	1,098.7	1,693.2	1,652.0	41.13	41.165		
4,900.0	4,739.3	4,528.4	4,297.6	24.6	29.0	122.54	-690.8	1,126.4	1,733.8	1,691.7	42.11	41.173		
5,000.0	4,835.4	4,619.7	4,383.1	25.2	29.7	122.51	-707.1	1,154.0	1,774.5	1,731.4	43.09	41.180		
5,100.0	4,931.5	4,711.1	4,468.6	25.8	30.4	122.48	-723.3	1,181.7	1,815.2	1,771.1	44.07	41.187		
5,200.0	5,027.6	4,802.4	4,554.2	26.3	31.1	122.46	-739.5	1,209.4	1,855.8	1,810.7	45.09	41.195		
5,300.0	5,124.4	4,894.3	4,640.2	26.7	31.7	123.24	-755.8	1,237.3	1,895.2	1,849.1	46.17	41.046		
5,400.0	5,221.9	4,986.7	4,726.7	27.1	32.4	123.73	-772.2	1,265.3	1,932.9	1,885.7	47.20	40.951		
5,500.0	5,320.2	5,079.7	4,813.7	27.4	33.1	124.11	-788.7	1,293.4	1,968.8	1,920.7	48.17	40.872		
5,600.0	5,419.1	5,181.3	4,909.0	27.7	33.9	124.33	-806.8	1,324.2	2,002.9	1,953.8	49.11	40.785		
5,700.0	5,518.4	5,278.9	5,006.5	28.0	34.9	124.13	-838.0	1,377.6	2,032.5	1,982.3	50.20	40.489		
5,800.0	5,618.1	5,384.7	5,106.0	28.1	35.8	123.93	-863.6	1,421.3	2,055.2	2,004.1	51.10	40.216		
5,900.0	5,717.9	5,497.1	5,205.0	28.3	36.4	123.71	-882.3	1,453.2	2,070.8	2,019.0	51.81	39.969		
6,000.0	5,817.9	5,603.8	5,302.6	28.4	36.9	162.04	-893.3	1,472.0	2,078.9	2,026.6	52.29	39.754		
6,100.0	5,917.9	5,711.2	5,401.9	28.5	37.1	161.93	-896.2	1,476.8	2,080.8	2,028.2	52.61	39.549		
6,200.0	6,017.9	5,811.2	5,501.9	28.6	37.1	161.93	-896.2	1,476.8	2,080.8	2,028.0	52.82	39.395		
6,300.0	6,117.9	5,911.2	5,601.9	28.7	37.2	161.93	-896.2	1,476.8	2,080.8	2,027.8	53.03	39.241		
6,400.0	6,217.9	6,011.2	5,701.9	28.8	37.3	161.93	-896.2	1,476.8	2,080.8	2,027.6	53.24	39.085		
6,500.0	6,317.9	6,111.2	5,801.9	28.9	37.4	161.93	-896.2	1,476.8	2,080.8	2,027.4	53.45	38.929		
6,600.0	6,417.9	6,211.2	5,901.9	29.0	37.4	161.93	-896.2	1,476.8	2,080.8	2,027.2	53.67	38.771		
6,700.0	6,517.9	6,311.2	6,001.9	29.1	37.5	161.93	-896.2	1,476.8	2,080.8	2,026.9	53.89	38.613		
6,800.0	6,617.9	6,411.2	6,101.9	29.2	37.6	161.93	-896.2	1,476.8	2,080.8	2,026.7	54.11	38.454		
6,900.0	6,717.9	6,511.2	6,201.9	29.3	37.7	161.93	-896.2	1,476.8	2,080.8	2,026.5	54.34	38.295		

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Schneider 20-36
<b>Project:</b>	SEC.36-T7N-R67W	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Reference Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Schneider 20-36	<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 (4-12-12)	<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														
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	
7,000.0	6,817.9	7,111.2	6,817.9	29.4	37.7	161.93	-896.2	1,476.8	2,080.8	2,026.3	54.57	38.135		
7,100.0	6,917.9	7,211.2	6,917.9	29.5	37.8	161.93	-896.2	1,476.8	2,080.8	2,026.0	54.80	37.974		
7,200.0	7,017.9	7,311.2	7,017.9	29.6	37.9	161.93	-896.2	1,476.8	2,080.8	2,025.8	55.03	37.813		
7,300.0	7,117.9	7,411.2	7,117.9	29.7	38.0	161.93	-896.2	1,476.8	2,080.8	2,025.6	55.27	37.651		
7,400.0	7,217.9	7,511.2	7,217.9	29.8	38.1	161.93	-896.2	1,476.8	2,080.8	2,025.3	55.50	37.489		
7,500.0	7,317.9	7,611.2	7,317.9	30.0	38.2	161.93	-896.2	1,476.8	2,080.8	2,025.1	55.75	37.327		
7,600.0	7,417.9	7,711.2	7,417.9	30.1	38.2	161.93	-896.2	1,476.8	2,080.8	2,024.8	55.99	37.164		
7,627.1	7,445.1	7,738.4	7,445.1	30.1	38.3	161.93	-896.2	1,476.8	2,080.8	2,024.8	56.06	37.120		
7,647.1	7,465.0	7,748.3	7,455.0	30.1	38.3	161.93	-896.2	1,476.8	2,080.9	2,024.8	56.09	37.095		

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Schneider 20-36
<b>Project:</b>	SEC.36-T7N-R67W	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Reference Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Schneider 20-36	<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 (4-12-12)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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		
0.0	0.0	0.0	0.0	0.0	0.0	89.95	0.0	15.0	15.0	15.0	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	89.95	0.0	15.0	15.0	14.8	0.22	66.792		
200.0	200.0	200.0	200.0	0.3	0.3	89.95	0.0	15.0	15.0	14.3	0.67	22.264 CC		
228.0	228.0	228.0	228.0	0.4	0.4	90.48	0.0	15.0	15.0	14.2	0.80	18.762		
300.0	300.0	300.0	300.0	0.6	0.6	96.58	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	114.84	0.0	15.0	16.6	15.0	1.58	10.467		
500.0	499.5	499.5	499.5	1.0	1.0	128.39	0.0	15.0	21.3	19.3	2.05	10.429 SF		
600.0	598.8	598.8	598.8	1.3	1.2	136.17	0.0	15.0	28.9	26.4	2.51	11.524		
700.0	697.8	697.8	697.8	1.6	1.5	144.09	0.0	15.0	39.8	36.8	2.97	13.393		
800.0	796.4	796.4	796.4	1.9	1.7	150.49	0.0	15.0	54.3	50.8	3.43	15.824		
900.0	894.3	894.3	894.3	2.3	1.9	155.30	0.0	15.0	72.5	68.6	3.89	18.620		
1,000.0	991.4	991.4	991.4	2.8	2.1	158.88	0.0	15.0	94.3	89.9	4.36	21.643		
1,100.0	1,087.8	1,090.1	1,090.0	3.3	2.3	161.54	0.4	16.4	118.7	113.9	4.82	24.637		
1,200.0	1,183.9	1,189.9	1,189.8	3.8	2.5	163.55	1.8	21.1	142.3	137.0	5.29	26.891		
1,300.0	1,280.0	1,291.0	1,290.5	4.3	2.8	164.02	4.1	29.2	163.8	158.0	5.79	28.282		
1,400.0	1,376.1	1,393.0	1,391.8	4.9	3.0	163.50	7.5	40.9	183.2	176.8	6.33	28.935		
1,500.0	1,472.2	1,495.7	1,493.2	5.4	3.3	162.24	12.0	56.1	200.3	193.4	6.92	28.970		
1,600.0	1,568.3	1,598.8	1,594.4	6.0	3.6	160.39	17.4	74.9	215.5	207.9	7.57	28.481		
1,700.0	1,664.4	1,702.1	1,695.1	6.5	4.0	158.02	23.9	97.2	228.9	220.6	8.30	27.560		
1,800.0	1,760.5	1,805.2	1,794.7	7.1	4.4	155.16	31.4	123.0	240.7	231.6	9.15	26.304		
1,900.0	1,856.5	1,908.0	1,892.9	7.6	4.9	151.86	39.9	152.0	251.4	241.2	10.13	24.819		
2,000.0	1,952.6	2,010.2	1,989.4	8.2	5.5	148.13	49.3	184.3	261.3	250.0	11.25	23.222		
2,100.0	2,048.7	2,110.0	2,082.6	8.8	6.1	144.15	59.3	218.6	271.1	258.6	12.51	21.670		
2,200.0	2,144.8	2,207.8	2,173.6	9.3	6.8	140.43	69.2	252.7	281.9	268.1	13.82	20.392		
2,300.0	2,240.9	2,305.5	2,264.7	9.9	7.4	136.98	79.2	286.8	293.9	278.7	15.18	19.361		
2,400.0	2,337.0	2,403.2	2,355.7	10.5	8.1	133.81	89.1	320.9	306.8	290.3	16.56	18.533		
2,500.0	2,433.1	2,501.0	2,446.8	11.0	8.8	130.90	99.0	355.1	320.7	302.7	17.94	17.872		
2,600.0	2,529.2	2,598.7	2,537.8	11.6	9.5	128.23	108.9	389.2	335.3	315.9	19.33	17.345		
2,700.0	2,625.3	2,696.4	2,628.9	12.2	10.2	125.78	118.9	423.3	350.5	329.8	20.71	16.925		
2,800.0	2,721.4	2,794.2	2,719.9	12.7	10.9	123.54	128.8	457.4	366.4	344.3	22.08	16.590		
2,900.0	2,817.5	2,891.9	2,811.0	13.3	11.7	121.48	138.7	491.5	382.7	359.3	23.45	16.324		
3,000.0	2,913.6	2,989.7	2,902.0	13.9	12.4	119.59	148.7	525.6	399.5	374.7	24.80	16.113		
3,100.0	3,009.7	3,087.4	2,993.1	14.4	13.1	117.85	158.6	559.7	416.7	390.6	26.13	15.946		
3,200.0	3,105.7	3,185.1	3,084.2	15.0	13.8	116.25	168.5	593.8	434.3	406.8	27.46	15.815		
3,300.0	3,201.8	3,282.9	3,175.2	15.6	14.6	114.77	178.5	628.0	452.1	423.4	28.77	15.714		
3,400.0	3,297.9	3,380.6	3,266.3	16.1	15.3	113.40	188.4	662.1	470.3	440.2	30.08	15.636		
3,500.0	3,394.0	3,478.4	3,357.3	16.7	16.0	112.14	198.3	696.2	488.7	457.3	31.37	15.577		
3,600.0	3,490.1	3,576.1	3,448.4	17.3	16.8	110.97	208.3	730.3	507.2	474.6	32.65	15.534		
3,700.0	3,586.2	3,673.8	3,539.4	17.8	17.5	109.87	218.2	764.4	526.0	492.1	33.93	15.505		
3,800.0	3,682.3	3,771.6	3,630.5	18.4	18.3	108.86	228.1	798.5	545.0	509.8	35.19	15.486		
3,900.0	3,778.4	3,869.3	3,721.5	19.0	19.0	107.91	238.1	832.6	564.1	527.6	36.45	15.476		
4,000.0	3,874.5	3,967.1	3,812.6	19.5	19.7	107.02	248.0	866.7	583.3	545.6	37.70	15.473		
4,100.0	3,970.6	4,064.8	3,903.6	20.1	20.5	106.19	257.9	900.9	602.7	563.8	38.95	15.476		
4,200.0	4,066.7	4,162.5	3,994.7	20.7	21.2	105.41	267.9	935.0	622.2	582.0	40.19	15.484		
4,300.0	4,162.8	4,260.3	4,085.7	21.2	22.0	104.68	277.8	969.1	641.8	600.4	41.42	15.496		
4,400.0	4,258.8	4,358.0	4,176.8	21.8	22.7	103.99	287.7	1,003.2	661.5	618.9	42.65	15.511		
4,500.0	4,354.9	4,455.7	4,267.8	22.4	23.5	103.35	297.6	1,037.3	681.3	637.4	43.87	15.530		
4,600.0	4,451.0	4,553.5	4,358.9	22.9	24.2	102.73	307.6	1,071.4	701.2	656.1	45.09	15.550		
4,700.0	4,547.1	4,651.2	4,449.9	23.5	24.9	102.15	317.5	1,105.5	721.1	674.8	46.31	15.572		
4,800.0	4,643.2	4,749.0	4,541.0	24.1	25.7	101.61	327.4	1,139.6	741.1	693.6	47.52	15.596		
4,900.0	4,739.3	4,846.7	4,632.0	24.6	26.4	101.09	337.4	1,173.8	761.2	712.4	48.73	15.621		

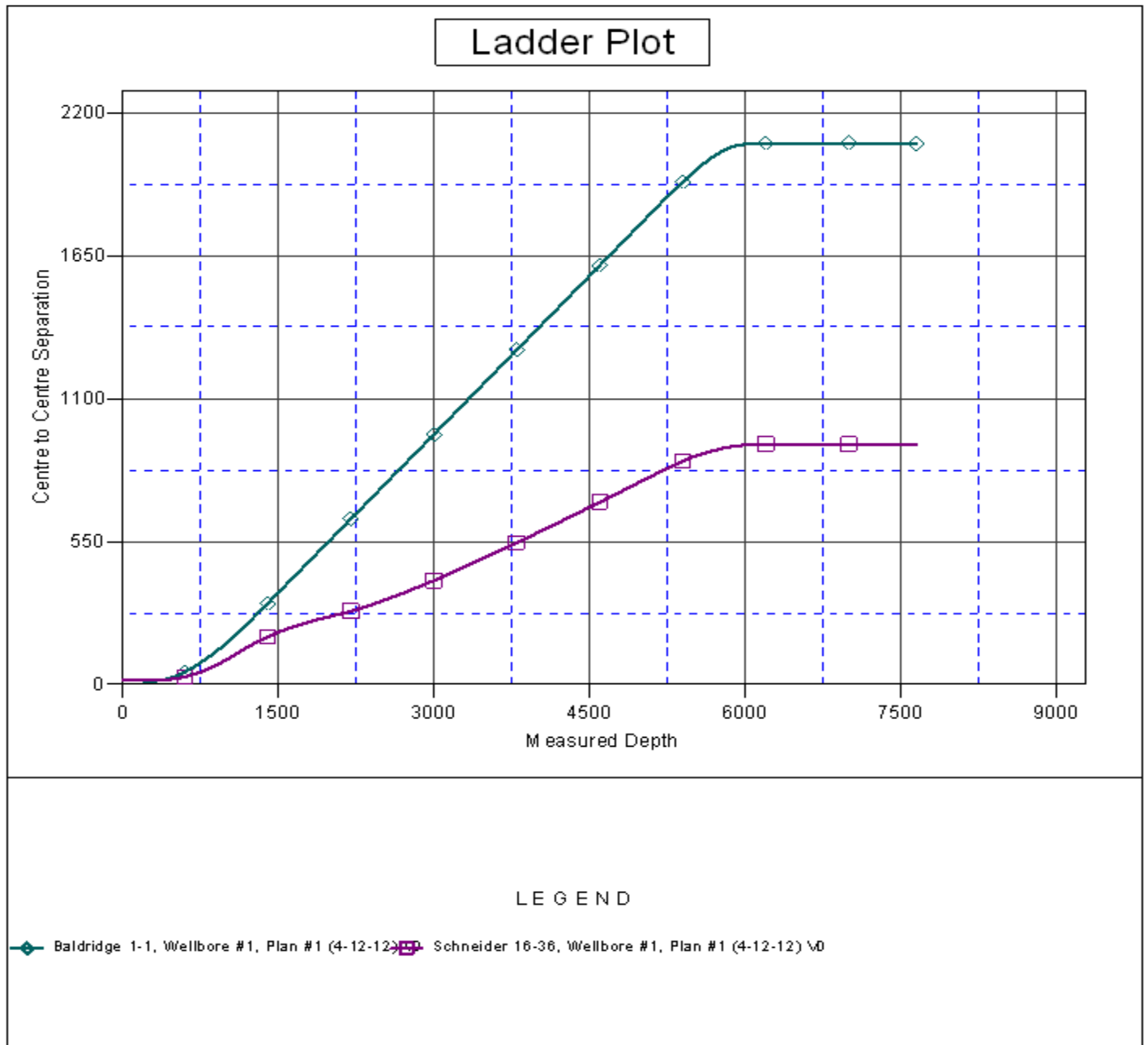
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Schneider 20-36
<b>Project:</b>	SEC.36-T7N-R67W	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Reference Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Schneider 20-36	<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 (4-12-12)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
5,000.0	4,835.4	4,944.4	4,723.1	25.2	27.2	100.60	347.3	1,207.9	781.3	731.3	49.93	15.646			
5,100.0	4,931.5	5,042.2	4,814.2	25.8	27.9	100.13	357.2	1,242.0	801.4	750.3	51.14	15.673			
5,200.0	5,027.6	5,139.9	4,905.2	26.3	28.7	99.77	367.2	1,276.1	821.7	769.3	52.34	15.700			
5,300.0	5,124.4	5,243.2	5,001.6	26.7	29.4	99.56	377.6	1,311.8	841.4	788.0	53.40	15.758			
5,400.0	5,221.9	5,355.3	5,107.4	27.1	30.0	99.25	387.9	1,347.3	859.3	805.0	54.33	15.818			
5,500.0	5,320.2	5,468.5	5,215.6	27.4	30.6	98.92	397.2	1,379.2	875.1	820.0	55.16	15.866			
5,600.0	5,419.1	5,582.7	5,326.1	27.7	31.1	98.58	405.3	1,407.1	888.8	832.9	55.88	15.906			
5,700.0	5,518.4	5,697.9	5,438.5	28.0	31.5	98.22	412.2	1,430.9	900.2	843.7	56.49	15.936			
5,800.0	5,618.1	5,813.9	5,552.7	28.1	31.9	97.83	418.0	1,450.5	909.4	852.4	56.98	15.960			
5,900.0	5,717.9	5,930.6	5,668.3	28.3	32.2	97.42	422.4	1,465.8	916.3	859.0	57.36	15.975			
6,000.0	5,817.9	6,048.0	5,785.2	28.4	32.4	135.51	425.5	1,476.5	921.0	863.3	57.62	15.982			
6,100.0	5,917.9	6,166.0	5,902.9	28.5	32.6	135.16	427.3	1,482.7	923.6	865.7	57.84	15.967			
6,200.0	6,017.9	6,281.0	6,017.9	28.6	32.7	135.07	427.8	1,484.3	924.2	866.2	58.04	15.923			
6,300.0	6,117.9	6,381.0	6,117.9	28.7	32.8	135.07	427.8	1,484.3	924.2	866.0	58.24	15.870			
6,400.0	6,217.9	6,481.0	6,217.9	28.8	32.9	135.07	427.8	1,484.3	924.2	865.8	58.43	15.817			
6,500.0	6,317.9	6,581.0	6,317.9	28.9	33.0	135.07	427.8	1,484.3	924.2	865.6	58.63	15.764			
6,600.0	6,417.9	6,681.0	6,417.9	29.0	33.1	135.07	427.8	1,484.3	924.2	865.4	58.83	15.710			
6,700.0	6,517.9	6,781.0	6,517.9	29.1	33.2	135.07	427.8	1,484.3	924.2	865.2	59.04	15.655			
6,800.0	6,617.9	6,881.0	6,617.9	29.2	33.2	135.07	427.8	1,484.3	924.2	865.0	59.24	15.601			
6,900.0	6,717.9	6,981.0	6,717.9	29.3	33.3	135.07	427.8	1,484.3	924.2	864.8	59.45	15.546			
7,000.0	6,817.9	7,081.0	6,817.9	29.4	33.4	135.07	427.8	1,484.3	924.2	864.6	59.67	15.490			
7,100.0	6,917.9	7,181.0	6,917.9	29.5	33.5	135.07	427.8	1,484.3	924.2	864.4	59.88	15.435			
7,200.0	7,017.9	7,281.0	7,017.9	29.6	33.6	135.07	427.8	1,484.3	924.2	864.1	60.10	15.379			
7,300.0	7,117.9	7,381.0	7,117.9	29.7	33.7	135.07	427.8	1,484.3	924.2	863.9	60.32	15.323			
7,400.0	7,217.9	7,481.0	7,217.9	29.8	33.8	135.07	427.8	1,484.3	924.2	863.7	60.54	15.266			
7,500.0	7,317.9	7,581.0	7,317.9	30.0	33.9	135.07	427.8	1,484.3	924.2	863.5	60.77	15.210			
7,600.0	7,417.9	7,681.0	7,417.9	30.1	34.0	135.07	427.8	1,484.3	924.2	863.2	60.99	15.153			
7,647.1	7,465.0	7,728.0	7,465.0	30.1	34.1	135.07	427.8	1,484.3	924.2	863.1	61.10	15.126			

<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Schneider 20-36
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<b>Reference Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Schneider 20-36	<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 (4-12-12)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4893.0ft (Original Well Elev) Coordinates are relative to: Schneider 20-36  
 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: 0.43°

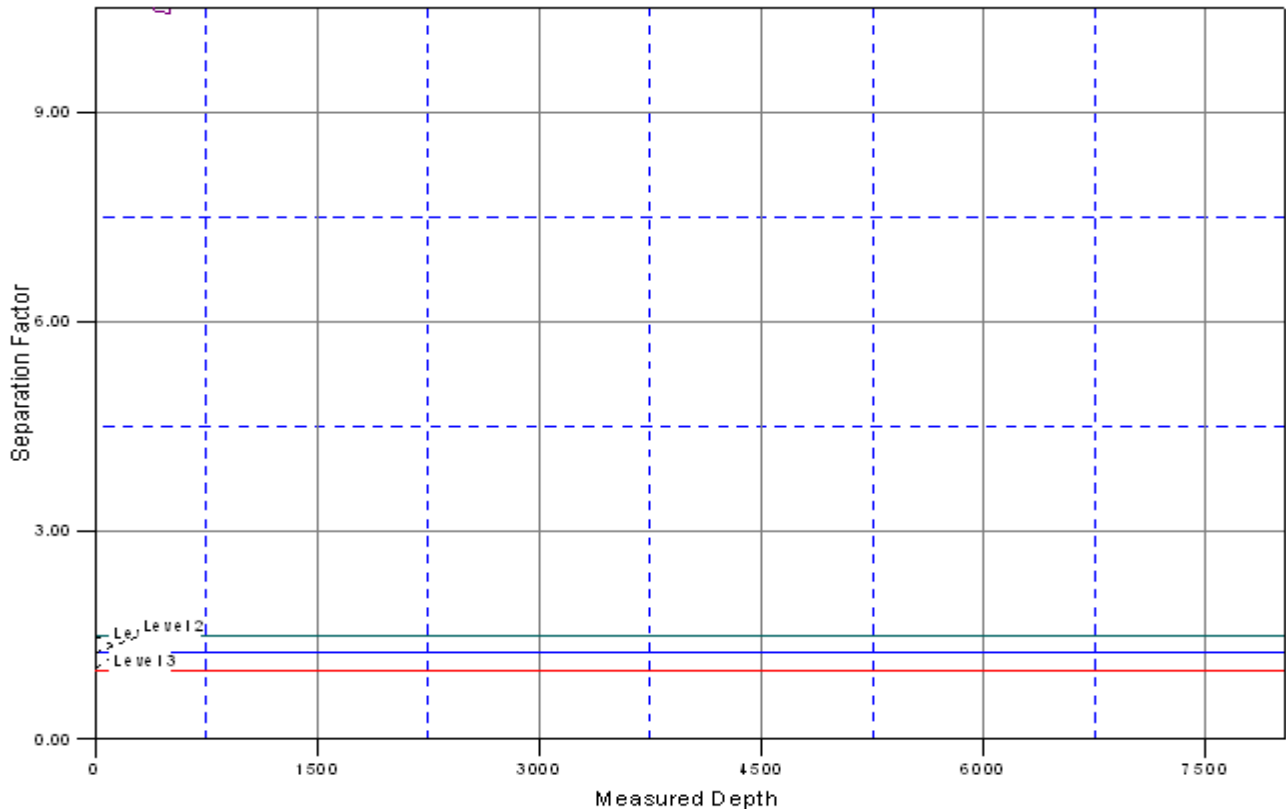




<b>Company:</b>	BAYSWATER EXPLORATION & PRODUCTION	<b>Local Co-ordinate Reference:</b>	Well Schneider 20-36
<b>Project:</b>	SEC.36-T7N-R67W	<b>TVD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Reference Site:</b>	Baldrige & Schneider Pad Sec.36-T7N-R67W	<b>MD Reference:</b>	WELL @ 4893.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Schneider 20-36	<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 (4-12-12)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4893.0ft (Original Well Elev) Coordinates are relative to: Schneider 20-36  
 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: 0.43°

### Separation Factor Plot



### LEGEND

—◆— Baldrige 1-1, Wellbore #1, Plan #1 (4-12-12)
 —◆— Schneider 16-36, Wellbore #1, Plan #1 (4-12-12)