

ENSIGN

Directional

Well Name: Schlotthauer 3-26

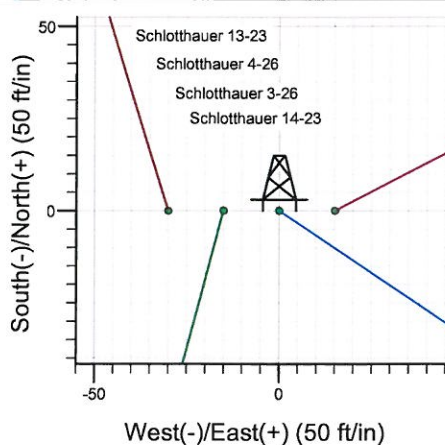
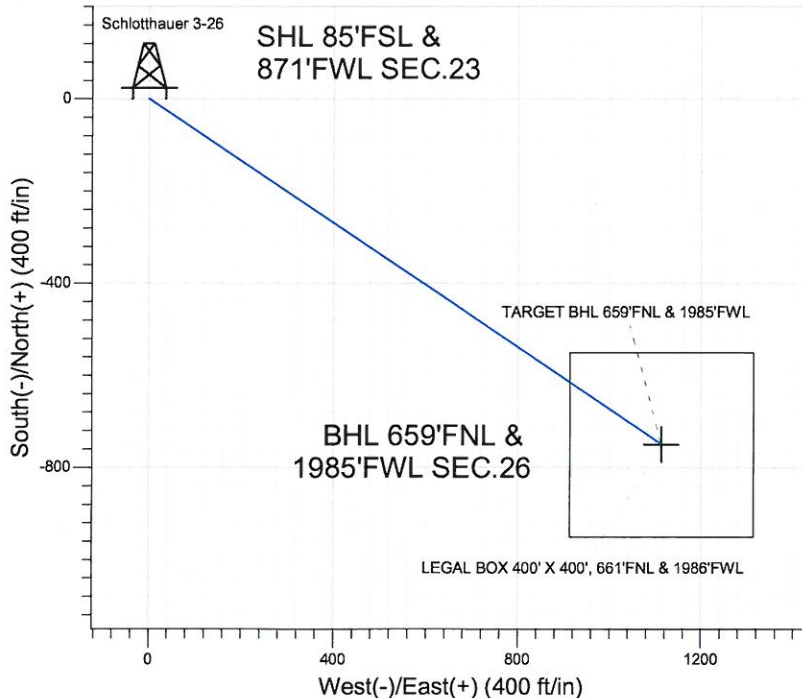
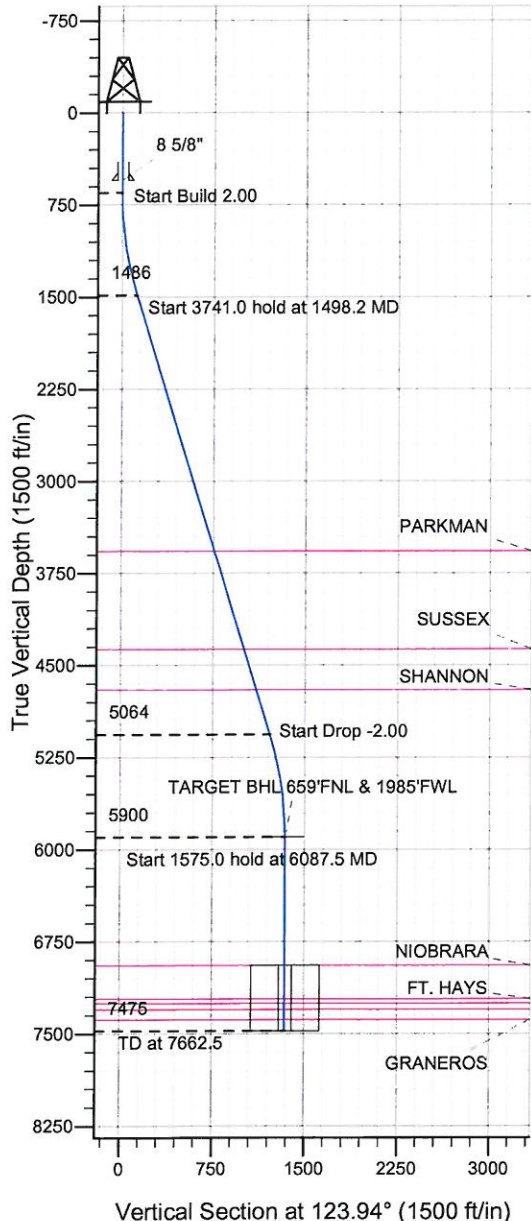
Surface Location: Schlotthauer 13-23 Pad Sec.23-T7N-R67W
North American Datum 1983, US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4966.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1444798.07	3175955.28	40.552646	-104.866796	

Original Well Elev @ 4977.0ft (Original Well Elev)

BAYSWATER EXPLORATION & PRODUCTION



Schlotthauer 13-23 Pad Sec.23-T7N-R67W
Schlotthauer 3-26
Plan #1 (10-27-11)
11:13, October 28 2011



Azimuths to True North
Magnetic North: 8.88°
Magnetic Field
Strength: 53160.5nT
Dip Angle: 67.14°
Date: 10/27/2011
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 659°FNL & 1985°FNL	5900.0	-748.7	1112.4	40.550591	-104.862793	Point
LEGAL BOX 400' X 400', 661°FNL & 1986°FNL	6942.0	-750.7	1113.4	40.550585	-104.862790	Rectangle (Sides: L400.0 W400.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	650.0	0.00	0.00	650.0	0.0	0.0	0.00	0.00	0.0	
3	1498.2	16.96	123.94	1485.9	-69.6	103.4	2.00	123.94	124.7	
4	5239.2	16.96	123.94	5064.1	-679.0	1009.0	0.00	0.00	1216.2	
5	6087.5	0.00	0.00	5900.0	-748.7	1112.4	2.00	180.00	1340.9	TARGET BHL 659°FNL & 1985°FNL
6	7662.5	0.00	0.00	7475.0	-748.7	1112.4	0.00	0.00	1340.9	



Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.23-T7N-R67W

Schlotthauer 13-23 Pad Sec.23-T7N-R67W

Schlotthauer 3-26

Wellbore #1

Plan: Plan #1 (10-27-11)

Standard Planning Report

28 October, 2011

Database:	Landmark	Local Co-ordinate Reference:	Well Schlotthauer 3-26
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 4977.0ft (Original Well Elev)
Project:	SEC.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	North Reference:	True
Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-27-11)		

Project	SEC.23-T7N-R67W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Schlotthauer 13-23 Pad Sec.23-T7N-R67W				
Site Position:		Northing:	1,444,798.08 ft	Latitude:	40.552646
From:	Lat/Long	Easting:	3,175,955.28 ft	Longitude:	-104.866796
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.41 °

Well	Schlotthauer 3-26					
Well Position	+N/-S	0.0 ft	Northing:	1,444,798.07 ft	Latitude:	40.552646
	+E/-W	0.0 ft	Easting:	3,175,955.28 ft	Longitude:	-104.866796
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,966.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2011	8.88	67.14	53,160

Design	Plan #1 (10-27-11)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	123.94

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
650.0	0.00	0.00	650.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,498.2	16.96	123.94	1,485.9	-69.6	103.4	2.00	2.00	0.00	123.94	
5,239.2	16.96	123.94	5,064.1	-679.0	1,009.0	0.00	0.00	0.00	0.00	
6,087.5	0.00	0.00	5,900.0	-748.7	1,112.4	2.00	-2.00	0.00	180.00	TARGET BHL 659'
7,662.5	0.00	0.00	7,475.0	-748.7	1,112.4	0.00	0.00	0.00	0.00	

Database: Landmark
Company: BAYSWATER EXPLORATION & PRODUCTION
Project: SEC.23-T7N-R67W
Site: Schlotthauer 13-23 Pad Sec.23-T7N-R67W
Well: Schlotthauer 3-26
Wellbore: Wellbore #1
Design: Plan #1 (10-27-11)

Local Co-ordinate Reference: Well Schlotthauer 3-26
TVD Reference: WELL @ 4977.0ft (Original Well Elev)
MD Reference: WELL @ 4977.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
550.0	0.00	0.00	550.0	0.0	0.0	0.0	0.00	0.00	0.00
8 5/8"									
560.0	0.00	0.00	560.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.60	123.94	680.0	-0.1	0.1	0.2	2.00	2.00	0.00
720.0	1.40	123.94	720.0	-0.5	0.7	0.9	2.00	2.00	0.00
760.0	2.20	123.94	760.0	-1.2	1.8	2.1	2.00	2.00	0.00
800.0	3.00	123.94	799.9	-2.2	3.3	3.9	2.00	2.00	0.00
840.0	3.80	123.94	839.9	-3.5	5.2	6.3	2.00	2.00	0.00
880.0	4.60	123.94	879.8	-5.2	7.7	9.2	2.00	2.00	0.00
920.0	5.40	123.94	919.6	-7.1	10.5	12.7	2.00	2.00	0.00
960.0	6.20	123.94	959.4	-9.4	13.9	16.8	2.00	2.00	0.00
1,000.0	7.00	123.94	999.1	-11.9	17.7	21.4	2.00	2.00	0.00
1,040.0	7.80	123.94	1,038.8	-14.8	22.0	26.5	2.00	2.00	0.00
1,080.0	8.60	123.94	1,078.4	-18.0	26.7	32.2	2.00	2.00	0.00
1,120.0	9.40	123.94	1,117.9	-21.5	31.9	38.5	2.00	2.00	0.00
1,160.0	10.20	123.94	1,157.3	-25.3	37.6	45.3	2.00	2.00	0.00
1,200.0	11.00	123.94	1,196.6	-29.4	43.7	52.6	2.00	2.00	0.00
1,240.0	11.80	123.94	1,235.8	-33.8	50.2	60.5	2.00	2.00	0.00
1,280.0	12.60	123.94	1,274.9	-38.5	57.2	69.0	2.00	2.00	0.00
1,320.0	13.40	123.94	1,313.9	-43.5	64.7	78.0	2.00	2.00	0.00
1,360.0	14.20	123.94	1,352.8	-48.9	72.6	87.5	2.00	2.00	0.00
1,400.0	15.00	123.94	1,391.5	-54.5	81.0	97.6	2.00	2.00	0.00
1,440.0	15.80	123.94	1,430.0	-60.4	89.8	108.2	2.00	2.00	0.00
1,480.0	16.60	123.94	1,468.4	-66.7	99.1	119.4	2.00	2.00	0.00
1,498.2	16.96	123.94	1,485.9	-69.6	103.4	124.7	2.00	2.00	0.00
1,520.0	16.96	123.94	1,506.7	-73.1	108.7	131.0	0.00	0.00	0.00
1,560.0	16.96	123.94	1,545.0	-79.7	118.4	142.7	0.00	0.00	0.00
1,600.0	16.96	123.94	1,583.2	-86.2	128.1	154.4	0.00	0.00	0.00
1,640.0	16.96	123.94	1,621.5	-92.7	137.7	166.0	0.00	0.00	0.00
1,680.0	16.96	123.94	1,659.8	-99.2	147.4	177.7	0.00	0.00	0.00
1,720.0	16.96	123.94	1,698.0	-105.7	157.1	189.4	0.00	0.00	0.00
1,760.0	16.96	123.94	1,736.3	-112.2	166.8	201.0	0.00	0.00	0.00
1,800.0	16.96	123.94	1,774.5	-118.8	176.5	212.7	0.00	0.00	0.00
1,840.0	16.96	123.94	1,812.8	-125.3	186.2	224.4	0.00	0.00	0.00
1,880.0	16.96	123.94	1,851.0	-131.8	195.8	236.1	0.00	0.00	0.00
1,920.0	16.96	123.94	1,889.3	-138.3	205.5	247.7	0.00	0.00	0.00

Database: Landmark
Company: BAYSWATER EXPLORATION & PRODUCTION
Project: SEC.23-T7N-R67W
Site: Schlotthauer 13-23 Pad Sec.23-T7N-R67W
Well: Schlotthauer 3-26
Wellbore: Wellbore #1
Design: Plan #1 (10-27-11)

Local Co-ordinate Reference: Well Schlotthauer 3-26
TVD Reference: WELL @ 4977.0ft (Original Well Elev)
MD Reference: WELL @ 4977.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	16.96	123.94	1,927.6	-144.8	215.2	259.4	0.00	0.00	0.00
2,000.0	16.96	123.94	1,965.8	-151.3	224.9	271.1	0.00	0.00	0.00
2,040.0	16.96	123.94	2,004.1	-157.9	234.6	282.7	0.00	0.00	0.00
2,080.0	16.96	123.94	2,042.3	-164.4	244.3	294.4	0.00	0.00	0.00
2,120.0	16.96	123.94	2,080.6	-170.9	253.9	306.1	0.00	0.00	0.00
2,160.0	16.96	123.94	2,118.9	-177.4	263.6	317.8	0.00	0.00	0.00
2,200.0	16.96	123.94	2,157.1	-183.9	273.3	329.4	0.00	0.00	0.00
2,240.0	16.96	123.94	2,195.4	-190.4	283.0	341.1	0.00	0.00	0.00
2,280.0	16.96	123.94	2,233.6	-197.0	292.7	352.8	0.00	0.00	0.00
2,320.0	16.96	123.94	2,271.9	-203.5	302.3	364.4	0.00	0.00	0.00
2,360.0	16.96	123.94	2,310.2	-210.0	312.0	376.1	0.00	0.00	0.00
2,400.0	16.96	123.94	2,348.4	-216.5	321.7	387.8	0.00	0.00	0.00
2,440.0	16.96	123.94	2,386.7	-223.0	331.4	399.5	0.00	0.00	0.00
2,480.0	16.96	123.94	2,424.9	-229.5	341.1	411.1	0.00	0.00	0.00
2,520.0	16.96	123.94	2,463.2	-236.1	350.8	422.8	0.00	0.00	0.00
2,560.0	16.96	123.94	2,501.5	-242.6	360.4	434.5	0.00	0.00	0.00
2,600.0	16.96	123.94	2,539.7	-249.1	370.1	446.1	0.00	0.00	0.00
2,640.0	16.96	123.94	2,578.0	-255.6	379.8	457.8	0.00	0.00	0.00
2,680.0	16.96	123.94	2,616.2	-262.1	389.5	469.5	0.00	0.00	0.00
2,720.0	16.96	123.94	2,654.5	-268.6	399.2	481.2	0.00	0.00	0.00
2,760.0	16.96	123.94	2,692.8	-275.2	408.9	492.8	0.00	0.00	0.00
2,800.0	16.96	123.94	2,731.0	-281.7	418.5	504.5	0.00	0.00	0.00
2,840.0	16.96	123.94	2,769.3	-288.2	428.2	516.2	0.00	0.00	0.00
2,880.0	16.96	123.94	2,807.5	-294.7	437.9	527.8	0.00	0.00	0.00
2,920.0	16.96	123.94	2,845.8	-301.2	447.6	539.5	0.00	0.00	0.00
2,960.0	16.96	123.94	2,884.1	-307.7	457.3	551.2	0.00	0.00	0.00
3,000.0	16.96	123.94	2,922.3	-314.3	467.0	562.9	0.00	0.00	0.00
3,040.0	16.96	123.94	2,960.6	-320.8	476.6	574.5	0.00	0.00	0.00
3,080.0	16.96	123.94	2,998.8	-327.3	486.3	586.2	0.00	0.00	0.00
3,120.0	16.96	123.94	3,037.1	-333.8	496.0	597.9	0.00	0.00	0.00
3,160.0	16.96	123.94	3,075.3	-340.3	505.7	609.5	0.00	0.00	0.00
3,200.0	16.96	123.94	3,113.6	-346.8	515.4	621.2	0.00	0.00	0.00
3,240.0	16.96	123.94	3,151.9	-353.4	525.1	632.9	0.00	0.00	0.00
3,280.0	16.96	123.94	3,190.1	-359.9	534.7	644.6	0.00	0.00	0.00
3,320.0	16.96	123.94	3,228.4	-366.4	544.4	656.2	0.00	0.00	0.00
3,360.0	16.96	123.94	3,266.6	-372.9	554.1	667.9	0.00	0.00	0.00
3,400.0	16.96	123.94	3,304.9	-379.4	563.8	679.6	0.00	0.00	0.00
3,440.0	16.96	123.94	3,343.2	-385.9	573.5	691.2	0.00	0.00	0.00
3,480.0	16.96	123.94	3,381.4	-392.5	583.2	702.9	0.00	0.00	0.00
3,520.0	16.96	123.94	3,419.7	-399.0	592.8	714.6	0.00	0.00	0.00
3,560.0	16.96	123.94	3,457.9	-405.5	602.5	726.3	0.00	0.00	0.00
3,600.0	16.96	123.94	3,496.2	-412.0	612.2	737.9	0.00	0.00	0.00
3,640.0	16.96	123.94	3,534.5	-418.5	621.9	749.6	0.00	0.00	0.00
3,677.2	16.96	123.94	3,570.0	-424.6	630.9	760.4	0.00	0.00	0.00
PARKMAN									
3,680.0	16.96	123.94	3,572.7	-425.0	631.6	761.3	0.00	0.00	0.00
3,720.0	16.96	123.94	3,611.0	-431.6	641.2	772.9	0.00	0.00	0.00
3,760.0	16.96	123.94	3,649.2	-438.1	650.9	784.6	0.00	0.00	0.00
3,800.0	16.96	123.94	3,687.5	-444.6	660.6	796.3	0.00	0.00	0.00
3,840.0	16.96	123.94	3,725.8	-451.1	670.3	808.0	0.00	0.00	0.00
3,880.0	16.96	123.94	3,764.0	-457.6	680.0	819.6	0.00	0.00	0.00
3,920.0	16.96	123.94	3,802.3	-464.1	689.7	831.3	0.00	0.00	0.00
3,960.0	16.96	123.94	3,840.5	-470.6	699.3	843.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Schlotthauer 3-26
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 4977.0ft (Original Well Elev)
Project:	SEC.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	North Reference:	True
Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-27-11)		

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	16.96	123.94	3,878.8	-477.2	709.0	854.6	0.00	0.00	0.00
4,040.0	16.96	123.94	3,917.1	-483.7	718.7	866.3	0.00	0.00	0.00
4,080.0	16.96	123.94	3,955.3	-490.2	728.4	878.0	0.00	0.00	0.00
4,120.0	16.96	123.94	3,993.6	-496.7	738.1	889.7	0.00	0.00	0.00
4,160.0	16.96	123.94	4,031.8	-503.2	747.8	901.3	0.00	0.00	0.00
4,200.0	16.96	123.94	4,070.1	-509.7	757.4	913.0	0.00	0.00	0.00
4,240.0	16.96	123.94	4,108.3	-516.3	767.1	924.7	0.00	0.00	0.00
4,280.0	16.96	123.94	4,146.6	-522.8	776.8	936.3	0.00	0.00	0.00
4,320.0	16.96	123.94	4,184.9	-529.3	786.5	948.0	0.00	0.00	0.00
4,360.0	16.96	123.94	4,223.1	-535.8	796.2	959.7	0.00	0.00	0.00
4,400.0	16.96	123.94	4,261.4	-542.3	805.9	971.4	0.00	0.00	0.00
4,440.0	16.96	123.94	4,299.6	-548.8	815.5	983.0	0.00	0.00	0.00
4,480.0	16.96	123.94	4,337.9	-555.4	825.2	994.7	0.00	0.00	0.00
4,513.6	16.96	123.94	4,370.0	-560.8	833.3	1,004.5	0.00	0.00	0.00
SUSSEX									
4,520.0	16.96	123.94	4,376.2	-561.9	834.9	1,006.4	0.00	0.00	0.00
4,560.0	16.96	123.94	4,414.4	-568.4	844.6	1,018.0	0.00	0.00	0.00
4,600.0	16.96	123.94	4,452.7	-574.9	854.3	1,029.7	0.00	0.00	0.00
4,640.0	16.96	123.94	4,490.9	-581.4	864.0	1,041.4	0.00	0.00	0.00
4,680.0	16.96	123.94	4,529.2	-587.9	873.6	1,053.1	0.00	0.00	0.00
4,720.0	16.96	123.94	4,567.5	-594.5	883.3	1,064.7	0.00	0.00	0.00
4,760.0	16.96	123.94	4,605.7	-601.0	893.0	1,076.4	0.00	0.00	0.00
4,800.0	16.96	123.94	4,644.0	-607.5	902.7	1,088.1	0.00	0.00	0.00
4,840.0	16.96	123.94	4,682.2	-614.0	912.4	1,099.7	0.00	0.00	0.00
4,858.6	16.96	123.94	4,700.0	-617.0	916.9	1,105.2	0.00	0.00	0.00
SHANNON									
4,880.0	16.96	123.94	4,720.5	-620.5	922.1	1,111.4	0.00	0.00	0.00
4,920.0	16.96	123.94	4,758.8	-627.0	931.7	1,123.1	0.00	0.00	0.00
4,960.0	16.96	123.94	4,797.0	-633.6	941.4	1,134.8	0.00	0.00	0.00
5,000.0	16.96	123.94	4,835.3	-640.1	951.1	1,146.4	0.00	0.00	0.00
5,040.0	16.96	123.94	4,873.5	-646.6	960.8	1,158.1	0.00	0.00	0.00
5,080.0	16.96	123.94	4,911.8	-653.1	970.5	1,169.8	0.00	0.00	0.00
5,120.0	16.96	123.94	4,950.1	-659.6	980.1	1,181.4	0.00	0.00	0.00
5,160.0	16.96	123.94	4,988.3	-666.1	989.8	1,193.1	0.00	0.00	0.00
5,200.0	16.96	123.94	5,026.6	-672.7	999.5	1,204.8	0.00	0.00	0.00
5,239.2	16.96	123.94	5,064.1	-679.0	1,009.0	1,216.2	0.00	0.00	0.00
5,240.0	16.95	123.94	5,064.8	-679.2	1,009.2	1,216.5	2.00	-2.00	0.00
5,280.0	16.15	123.94	5,103.2	-685.5	1,018.6	1,227.8	2.00	-2.00	0.00
5,320.0	15.35	123.94	5,141.7	-691.6	1,027.7	1,238.7	2.00	-2.00	0.00
5,360.0	14.55	123.94	5,180.3	-697.4	1,036.2	1,249.0	2.00	-2.00	0.00
5,400.0	13.75	123.94	5,219.1	-702.8	1,044.3	1,258.8	2.00	-2.00	0.00
5,440.0	12.95	123.94	5,258.0	-708.0	1,052.0	1,268.0	2.00	-2.00	0.00
5,480.0	12.15	123.94	5,297.1	-712.8	1,059.2	1,276.7	2.00	-2.00	0.00
5,520.0	11.35	123.94	5,336.2	-717.4	1,066.0	1,284.9	2.00	-2.00	0.00
5,560.0	10.55	123.94	5,375.5	-721.6	1,072.3	1,292.5	2.00	-2.00	0.00
5,600.0	9.75	123.94	5,414.9	-725.6	1,078.1	1,299.5	2.00	-2.00	0.00
5,640.0	8.95	123.94	5,454.3	-729.2	1,083.5	1,306.0	2.00	-2.00	0.00
5,680.0	8.15	123.94	5,493.9	-732.5	1,088.4	1,312.0	2.00	-2.00	0.00
5,720.0	7.35	123.94	5,533.5	-735.5	1,092.9	1,317.4	2.00	-2.00	0.00
5,760.0	6.55	123.94	5,573.2	-738.2	1,096.9	1,322.2	2.00	-2.00	0.00
5,800.0	5.75	123.94	5,613.0	-740.6	1,100.5	1,326.5	2.00	-2.00	0.00
5,840.0	4.95	123.94	5,652.8	-742.7	1,103.6	1,330.2	2.00	-2.00	0.00
5,880.0	4.15	123.94	5,692.7	-744.5	1,106.2	1,333.4	2.00	-2.00	0.00

Database: Landmark
Company: BAYSWATER EXPLORATION & PRODUCTION
Project: SEC.23-T7N-R67W
Site: Schlotthauer 13-23 Pad Sec.23-T7N-R67W
Well: Schlotthauer 3-26
Wellbore: Wellbore #1
Design: Plan #1 (10-27-11)

Local Co-ordinate Reference: Well Schlotthauer 3-26
TVD Reference: WELL @ 4977.0ft (Original Well Elev)
MD Reference: WELL @ 4977.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	3.35	123.94	5,732.6	-745.9	1,108.4	1,336.0	2.00	-2.00	0.00
5,960.0	2.55	123.94	5,772.6	-747.1	1,110.1	1,338.1	2.00	-2.00	0.00
6,000.0	1.75	123.94	5,812.5	-747.9	1,111.3	1,339.6	2.00	-2.00	0.00
6,040.0	0.95	123.94	5,852.5	-748.4	1,112.1	1,340.5	2.00	-2.00	0.00
6,080.0	0.15	123.94	5,892.5	-748.6	1,112.4	1,340.9	2.00	-2.00	0.00
6,087.5	0.00	0.00	5,900.0	-748.7	1,112.4	1,340.9	2.00	-2.00	0.00
TARGET BHL 659'FNL & 1985'FWL									
6,120.0	0.00	0.00	5,932.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,160.0	0.00	0.00	5,972.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,200.0	0.00	0.00	6,012.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,240.0	0.00	0.00	6,052.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,280.0	0.00	0.00	6,092.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,320.0	0.00	0.00	6,132.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,360.0	0.00	0.00	6,172.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,212.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,440.0	0.00	0.00	6,252.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,480.0	0.00	0.00	6,292.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,520.0	0.00	0.00	6,332.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,560.0	0.00	0.00	6,372.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,412.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,640.0	0.00	0.00	6,452.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,680.0	0.00	0.00	6,492.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,720.0	0.00	0.00	6,532.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,760.0	0.00	0.00	6,572.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,612.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,840.0	0.00	0.00	6,652.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,880.0	0.00	0.00	6,692.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,920.0	0.00	0.00	6,732.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
6,960.0	0.00	0.00	6,772.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,000.0	0.00	0.00	6,812.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,040.0	0.00	0.00	6,852.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,080.0	0.00	0.00	6,892.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,120.0	0.00	0.00	6,932.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,129.5	0.00	0.00	6,942.0	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
NIOBRARA - LEGAL BOX 400' X 400', 661'FNL & 1986'FWL									
7,160.0	0.00	0.00	6,972.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,200.0	0.00	0.00	7,012.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,240.0	0.00	0.00	7,052.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,280.0	0.00	0.00	7,092.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,320.0	0.00	0.00	7,132.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,360.0	0.00	0.00	7,172.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,212.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,401.5	0.00	0.00	7,214.0	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
FT. HAYS									
7,439.5	0.00	0.00	7,252.0	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
CODELL									
7,440.0	0.00	0.00	7,252.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,480.0	0.00	0.00	7,292.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,489.5	0.00	0.00	7,302.0	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
GREENHORN									
7,520.0	0.00	0.00	7,332.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,560.0	0.00	0.00	7,372.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Schlotthauer 3-26
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 4977.0ft (Original Well Elev)
Project:	SEC.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	North Reference:	True
Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (10-27-11)		

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)
7,573.5	0.00	0.00	7,386.0	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
GRANEROS									
7,600.0	0.00	0.00	7,412.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,640.0	0.00	0.00	7,452.5	-748.7	1,112.4	1,340.9	0.00	0.00	0.00
7,662.5	0.00	0.00	7,475.0	-748.7	1,112.4	1,340.9	0.00	0.00	0.00

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
LEGAL BOX 400' X 400'	0.00	0.00	6,942.0	-750.7	1,113.4	1,444,055.37	3,177,073.98	40.550585	-104.862790
- plan misses target center by 2.3ft at 7129.5ft MD (6942.0 TVD, -748.7 N, 1112.4 E)									
- Rectangle (sides W400.0 H400.0 D533.0)									
TARGET BHL 659'FN	0.00	0.00	5,900.0	-748.7	1,112.4	1,444,057.41	3,177,073.00	40.550591	-104.862793
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
550.0	550.0	8 5/8"	8-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,677.2	3,570.0	PARKMAN		0.00	
4,513.6	4,370.0	SUSSEX		0.00	
4,858.6	4,700.0	SHANNON		0.00	
7,129.5	6,942.0	NIOBRARA		0.00	
7,401.5	7,214.0	FT. HAYS		0.00	
7,439.5	7,252.0	CODELL		0.00	
7,489.5	7,302.0	GREENHORN		0.00	
7,573.5	7,386.0	GRANEROS		0.00	



Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.23-T7N-R67W

Schlotthauer 13-23 Pad Sec.23-T7N-R67W

Schlotthauer 3-26

Wellbore #1

Plan #1 (10-27-11)

Anticollision Report

28 October, 2011

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Schlotthauer 3-26
Project:	SEC.23-T7N-R67W	TVD Reference:	WELL @ 4977.0ft (Original Well Elev)
Reference Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-27-11)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (10-27-11)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 10/28/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	7,662.5	Plan #1 (10-27-11) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Schlotthauer 13-23 Pad Sec.23-T7N-R67W						
Schlotthauer 14-23 - Wellbore #1 - Plan #1 (10-27-11)	200.0	200.0	15.0	14.3	22.255	CC, ES
Schlotthauer 14-23 - Wellbore #1 - Plan #1 (10-27-11)	400.0	398.8	21.4	19.8	13.657	SF
Schlotthauer 4-26 - Wellbore #1 - Plan #1 (10-27-11)	400.0	400.0	15.0	13.4	9.538	CC, ES
Schlotthauer 4-26 - Wellbore #1 - Plan #1 (10-27-11)	600.0	599.4	18.1	15.7	7.500	SF

Offset Design Schlotthauer 13-23 Pad Sec.23-T7N-R67W - Schlotthauer 14-23 - Wellbore #1 - Plan #1 (10-27-11)												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	
0.0	0.0	0.0	0.0	0.0	0.0	90.15	0.0	15.0	15.0	15.0	0.00	N/A	22.255 CC, ES 14.825 13.657 SF
100.0	100.0	100.0	100.0	0.1	0.1	90.15	0.0	15.0	15.0	14.8	0.22	66.764	
200.0	200.0	200.0	200.0	0.3	0.3	90.15	0.0	15.0	15.0	14.3	0.67		
300.0	300.0	299.5	299.5	0.6	0.6	87.38	0.8	16.5	16.6	15.4	1.12		
400.0	400.0	398.8	398.6	0.8	0.8	81.56	3.1	21.1	21.4	19.8	1.57		
500.0	500.0	497.5	497.0	1.0	1.0	76.16	7.1	28.7	29.7	27.7	2.04		
600.0	600.0	595.6	594.4	1.2	1.3	72.29	12.5	39.2	41.5	39.0	2.53		
650.0	650.0	644.3	642.5	1.3	1.5	70.86	15.8	45.5	48.8	46.0	2.79		
700.0	700.0	692.8	690.4	1.5	1.6	-54.47	19.4	52.5	56.6	53.6	2.94		
800.0	799.9	789.1	785.0	1.6	2.0	-58.08	27.8	68.6	73.4	70.0	3.37		
900.0	899.7	884.4	877.9	1.8	2.4	-62.06	37.4	87.2	92.1	88.3	3.82		
1,000.0	999.1	979.0	969.5	2.1	2.9	-65.99	48.4	108.4	112.9	108.6	4.32		
1,100.0	1,098.2	1,076.3	1,063.3	2.3	3.4	-69.98	60.3	131.2	134.2	129.3	4.86		
1,200.0	1,196.6	1,173.5	1,157.0	2.7	3.9	-74.00	72.1	154.0	155.0	149.6	5.48		
1,300.0	1,294.4	1,270.4	1,250.5	3.0	4.4	-78.07	83.9	176.7	175.9	169.7	6.20		
1,400.0	1,391.5	1,367.1	1,343.7	3.5	4.9	-82.16	95.6	199.4	197.1	190.1	7.02		
1,498.2	1,485.9	1,461.6	1,434.9	3.9	5.4	-86.17	107.1	221.5	218.6	210.7	7.93		
1,500.0	1,487.6	1,463.3	1,436.5	4.0	5.4	-86.25	107.3	221.9	219.0	211.1	7.95		
1,600.0	1,583.2	1,559.2	1,529.1	4.5	6.0	-90.35	119.0	244.4	242.0	233.1	8.95		
1,700.0	1,678.9	1,655.2	1,621.6	5.1	6.5	-93.74	130.7	266.9	266.1	256.1	9.98		
1,800.0	1,774.5	1,751.1	1,714.1	5.6	7.0	-96.57	142.4	289.4	290.8	279.8	11.02		
1,900.0	1,870.2	1,847.1	1,806.7	6.2	7.6	-98.96	154.0	311.9	316.2	304.1	12.07		

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

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Schlotthauer 3-26
Project:	SEC.23-T7N-R67W	TVD Reference:	WELL @ 4977.0ft (Original Well Elev)
Reference Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-27-11)	Offset TVD Reference:	Offset Datum

Offset Design Schlotthauer 13-23 Pad Sec.23-T7N-R67W - Schlotthauer 14-23 - Wellbore #1 - Plan #1 (10-27-11)													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 (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
2,000.0	1,965.8	1,943.0	1,899.2	6.8	8.1	-100.99	165.7	334.4	342.0	328.9	13.12	26.062	
2,100.0	2,061.5	2,038.9	1,991.8	7.4	8.6	-102.75	177.4	356.9	368.1	353.9	14.17	25.977	
2,200.0	2,157.1	2,134.9	2,084.3	8.0	9.1	-104.27	189.0	379.4	394.5	379.3	15.22	25.923	
2,300.0	2,252.8	2,230.8	2,176.8	8.6	9.7	-105.60	200.7	401.9	421.2	404.9	16.27	25.892	
2,400.0	2,348.4	2,326.8	2,269.4	9.2	10.2	-106.77	212.4	424.4	448.0	430.7	17.31	25.878	
2,500.0	2,444.1	2,422.7	2,361.9	9.9	10.7	-107.81	224.1	446.9	475.0	456.7	18.36	25.876	
2,600.0	2,539.7	2,518.7	2,454.4	10.5	11.3	-108.74	235.7	469.4	502.2	482.8	19.40	25.884	
2,700.0	2,635.4	2,614.6	2,547.0	11.1	11.8	-109.58	247.4	491.8	529.4	509.0	20.44	25.897	
2,800.0	2,731.0	2,710.6	2,639.5	11.7	12.3	-110.33	259.1	514.3	556.7	535.3	21.48	25.916	
2,900.0	2,826.7	2,806.5	2,732.1	12.3	12.9	-111.02	270.7	536.8	584.2	561.6	22.52	25.937	
3,000.0	2,922.3	2,902.5	2,824.6	12.9	13.4	-111.64	282.4	559.3	611.6	588.1	23.56	25.961	
3,100.0	3,018.0	2,998.4	2,917.1	13.6	13.9	-112.21	294.1	581.8	639.2	614.6	24.60	25.987	
3,200.0	3,113.6	3,094.3	3,009.7	14.2	14.5	-112.73	305.8	604.3	666.8	641.1	25.63	26.013	
3,300.0	3,209.3	3,190.3	3,102.2	14.8	15.0	-113.21	317.4	626.8	694.4	667.8	26.67	26.040	
3,400.0	3,304.9	3,286.2	3,194.8	15.4	15.5	-113.65	329.1	649.3	722.1	694.4	27.70	26.067	
3,500.0	3,400.6	3,382.2	3,287.3	16.1	16.1	-114.07	340.8	671.8	749.8	721.1	28.74	26.094	
3,600.0	3,496.2	3,478.1	3,379.8	16.7	16.6	-114.45	352.4	694.3	777.6	747.8	29.77	26.121	
3,700.0	3,591.8	3,574.1	3,472.4	17.3	17.1	-114.80	364.1	716.8	805.4	774.6	30.80	26.147	
3,800.0	3,687.5	3,670.0	3,564.9	17.9	17.7	-115.13	375.8	739.3	833.2	801.4	31.83	26.173	
3,900.0	3,783.1	3,766.0	3,657.4	18.5	18.2	-115.45	387.5	761.8	861.0	828.2	32.87	26.199	
4,000.0	3,878.8	3,861.9	3,750.0	19.2	18.7	-115.74	399.1	784.2	888.9	855.0	33.90	26.224	
4,100.0	3,974.4	3,957.9	3,842.5	19.8	19.3	-116.01	410.8	806.7	916.8	881.9	34.93	26.248	
4,200.0	4,070.1	4,053.8	3,935.1	20.4	19.8	-116.27	422.5	829.2	944.7	908.7	35.96	26.272	
4,300.0	4,165.7	4,149.7	4,027.6	21.0	20.3	-116.51	434.2	851.7	972.6	935.6	36.99	26.295	
4,400.0	4,261.4	4,245.7	4,120.1	21.7	20.9	-116.74	445.8	874.2	1,000.5	962.5	38.02	26.317	
4,500.0	4,357.0	4,341.6	4,212.7	22.3	21.4	-116.96	457.5	896.7	1,028.5	989.4	39.05	26.339	
4,600.0	4,452.7	4,437.6	4,305.2	22.9	21.9	-117.16	469.2	919.2	1,056.4	1,016.4	40.08	26.360	
4,700.0	4,548.3	4,533.5	4,397.8	23.5	22.5	-117.36	480.8	941.7	1,084.4	1,043.3	41.11	26.380	
4,800.0	4,644.0	4,629.5	4,490.3	24.2	23.0	-117.54	492.5	964.2	1,112.4	1,070.3	42.14	26.400	
4,900.0	4,739.6	4,725.4	4,582.8	24.8	23.5	-117.72	504.2	986.7	1,140.4	1,097.2	43.16	26.419	
5,000.0	4,835.3	4,821.4	4,675.4	25.4	24.1	-117.88	515.9	1,009.2	1,168.4	1,124.2	44.19	26.438	
5,100.0	4,930.9	4,924.3	4,774.7	26.1	24.6	-118.06	528.3	1,033.1	1,196.3	1,151.1	45.22	26.457	
5,200.0	5,026.6	5,047.2	4,894.3	26.7	25.1	-118.42	541.5	1,058.5	1,222.7	1,176.5	46.19	26.471	
5,239.2	5,064.1	5,095.7	4,941.7	26.9	25.3	-118.62	546.0	1,067.2	1,232.5	1,185.9	46.56	26.471	
5,300.0	5,122.4	5,171.1	5,015.8	27.2	25.5	-119.20	552.3	1,079.4	1,246.7	1,199.6	47.12	26.459	
5,400.0	5,219.1	5,296.1	5,139.5	27.7	25.9	-120.12	560.8	1,095.8	1,267.2	1,219.3	47.90	26.455	
5,500.0	5,316.6	5,422.0	5,264.7	28.0	26.1	-120.99	566.8	1,107.4	1,283.8	1,235.2	48.56	26.437	
5,600.0	5,414.9	5,548.5	5,390.9	28.4	26.3	-121.82	570.3	1,114.1	1,296.6	1,247.5	49.11	26.405	
5,700.0	5,513.7	5,671.3	5,513.7	28.6	26.5	-122.59	571.3	1,116.0	1,305.6	1,256.0	49.54	26.356	
5,800.0	5,613.0	5,770.6	5,613.0	28.9	26.6	-123.13	571.3	1,116.0	1,312.0	1,262.1	49.89	26.299	
5,900.0	5,712.7	5,870.2	5,712.7	29.0	26.7	-123.51	571.3	1,116.0	1,316.5	1,266.3	50.19	26.230	
6,000.0	5,812.5	5,970.1	5,812.5	29.2	26.8	-123.73	571.3	1,116.0	1,319.2	1,268.7	50.45	26.147	
6,087.5	5,900.0	6,057.6	5,900.0	29.3	26.9	0.15	571.3	1,116.0	1,319.9	1,269.3	50.65	26.061	
6,100.0	5,912.5	6,070.1	5,912.5	29.3	26.9	0.15	571.3	1,116.0	1,319.9	1,269.3	50.67	26.048	
6,200.0	6,012.5	6,170.1	6,012.5	29.4	27.0	0.15	571.3	1,116.0	1,319.9	1,269.1	50.89	25.938	
6,300.0	6,112.5	6,270.1	6,112.5	29.5	27.1	0.15	571.3	1,116.0	1,319.9	1,268.8	51.11	25.827	
6,400.0	6,212.5	6,370.1	6,212.5	29.6	27.2	0.15	571.3	1,116.0	1,319.9	1,268.6	51.33	25.716	
6,500.0	6,312.5	6,470.1	6,312.5	29.6	27.3	0.15	571.3	1,116.0	1,319.9	1,268.4	51.55	25.604	
6,600.0	6,412.5	6,570.1	6,412.5	29.7	27.4	0.15	571.3	1,116.0	1,319.9	1,268.2	51.78	25.492	
6,700.0	6,512.5	6,670.1	6,512.5	29.8	27.5	0.15	571.3	1,116.0	1,319.9	1,267.9	52.01	25.380	
6,800.0	6,612.5	6,770.1	6,612.5	29.9	27.6	0.15	571.3	1,116.0	1,319.9	1,267.7	52.24	25.267	

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

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Schlotthauer 3-26
Project:	SEC.23-T7N-R67W	TVD Reference:	WELL @ 4977.0ft (Original Well Elev)
Reference Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-27-11)	Offset TVD Reference:	Offset Datum

Offset Design Schlotthauer 13-23 Pad Sec.23-T7N-R67W - Schlotthauer 14-23 - Wellbore #1 - Plan #1 (10-27-11)												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
6,900.0	6,712.5	6,870.1	6,712.5	30.0	27.7	0.15	571.3	1,116.0	1,319.9	1,267.5	52.48	25.153	
7,000.0	6,812.5	6,970.1	6,812.5	30.1	27.9	0.15	571.3	1,116.0	1,319.9	1,267.2	52.71	25.040	
7,100.0	6,912.5	7,070.1	6,912.5	30.2	28.0	0.15	571.3	1,116.0	1,319.9	1,267.0	52.96	24.926	
7,200.0	7,012.5	7,170.1	7,012.5	30.3	28.1	0.15	571.3	1,116.0	1,319.9	1,266.7	53.20	24.812	
7,300.0	7,112.5	7,270.1	7,112.5	30.4	28.2	0.15	571.3	1,116.0	1,319.9	1,266.5	53.44	24.697	
7,400.0	7,212.5	7,370.1	7,212.5	30.5	28.3	0.15	571.3	1,116.0	1,319.9	1,266.2	53.69	24.583	
7,500.0	7,312.5	7,470.1	7,312.5	30.6	28.5	0.15	571.3	1,116.0	1,319.9	1,266.0	53.95	24.468	
7,600.0	7,412.5	7,570.1	7,412.5	30.8	28.6	0.15	571.3	1,116.0	1,319.9	1,265.7	54.20	24.354	
7,662.5	7,475.0	7,632.6	7,475.0	30.8	28.7	0.15	571.3	1,116.0	1,319.9	1,265.6	54.36	24.282	

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Schlotthauer 3-26
Project:	SEC.23-T7N-R67W	TVD Reference:	WELL @ 4977.0ft (Original Well Elev)
Reference Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-27-11)	Offset TVD Reference:	Offset Datum

Offset Design Schlotthauer 13-23 Pad Sec.23-T7N-R67W - Schlotthauer 4-26 - Wellbore #1 - Plan #1 (10-27-11)													Offset Site Error: 0.0 ft
Survey Program: 0-MWD													Offset Well Error: 0.0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		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	-90.08	0.0	-15.0	15.0	15.0	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-90.08	0.0	-15.0	15.0	14.8	0.22	66.764	
200.0	200.0	200.0	200.0	0.3	0.3	-90.08	0.0	-15.0	15.0	14.3	0.67	22.255	
300.0	300.0	300.0	300.0	0.6	0.6	-90.08	0.0	-15.0	15.0	13.9	1.12	13.353	
400.0	400.0	400.0	400.0	0.8	0.8	-90.08	0.0	-15.0	15.0	13.4	1.57	9.538 CC, ES	
500.0	500.0	499.8	499.8	1.0	1.0	-96.29	-1.7	-15.4	15.5	13.5	2.00	7.785	
600.0	600.0	599.4	599.2	1.2	1.2	-111.86	-6.7	-16.8	18.1	15.7	2.41	7.500 SF	
650.0	650.0	649.0	648.7	1.3	1.3	-120.54	-10.5	-17.8	20.7	18.0	2.63	7.849	
700.0	700.0	698.5	698.0	1.5	1.4	108.53	-15.0	-19.0	24.4	21.6	2.84	8.601	
800.0	799.9	797.0	795.7	1.6	1.6	101.71	-26.6	-22.0	35.4	32.1	3.26	10.852	
900.0	899.7	894.7	892.2	1.8	1.9	100.10	-41.2	-25.9	50.1	46.4	3.71	13.501	
1,000.0	999.1	992.4	988.3	2.1	2.3	100.80	-58.5	-30.4	67.9	63.7	4.21	16.139	
1,100.0	1,098.2	1,090.5	1,084.7	2.3	2.7	103.23	-76.2	-35.1	86.7	81.9	4.75	18.259	
1,200.0	1,196.6	1,188.3	1,180.8	2.7	3.0	106.49	-93.8	-39.7	106.5	101.2	5.35	19.911	
1,300.0	1,294.4	1,285.7	1,276.5	3.0	3.4	110.07	-111.3	-44.3	127.9	121.8	6.02	21.242	
1,400.0	1,391.5	1,382.5	1,371.6	3.5	3.8	113.72	-128.8	-48.9	151.0	144.2	6.75	22.376	
1,498.2	1,485.9	1,477.0	1,464.4	3.9	4.2	117.21	-145.8	-53.4	175.7	168.2	7.51	23.388	
1,500.0	1,487.6	1,478.6	1,466.0	4.0	4.2	117.28	-146.1	-53.5	176.1	168.6	7.53	23.405	
1,600.0	1,583.2	1,574.4	1,560.1	4.5	4.6	120.72	-163.3	-58.0	202.8	194.4	8.34	24.307	
1,700.0	1,678.9	1,670.2	1,654.2	5.1	5.0	123.36	-180.5	-62.6	229.9	220.8	9.16	25.088	
1,800.0	1,774.5	1,765.9	1,748.3	5.6	5.4	125.44	-197.8	-67.1	257.4	247.5	9.99	25.770	
1,900.0	1,870.2	1,861.7	1,842.4	6.2	5.8	127.12	-215.0	-71.7	285.2	274.4	10.82	26.365	
2,000.0	1,965.8	1,957.4	1,936.5	6.8	6.2	128.51	-232.3	-76.2	313.2	301.5	11.65	26.890	
2,100.0	2,061.5	2,053.2	2,030.5	7.4	6.6	129.66	-249.5	-80.8	341.3	328.8	12.48	27.353	
2,200.0	2,157.1	2,149.0	2,124.6	8.0	7.0	130.65	-266.7	-85.3	369.5	356.2	13.31	27.765	
2,300.0	2,252.8	2,244.7	2,218.7	8.6	7.4	131.49	-284.0	-89.9	397.8	383.6	14.14	28.133	
2,400.0	2,348.4	2,340.5	2,312.8	9.2	7.8	132.22	-301.2	-94.4	426.1	411.2	14.97	28.464	
2,500.0	2,444.1	2,436.2	2,406.9	9.9	8.2	132.86	-318.5	-98.9	454.6	438.8	15.80	28.763	
2,600.0	2,539.7	2,532.0	2,501.0	10.5	8.6	133.42	-335.7	-103.5	483.0	466.4	16.64	29.033	
2,700.0	2,635.4	2,627.8	2,595.1	11.1	9.0	133.93	-352.9	-108.0	511.5	494.1	17.47	29.280	
2,800.0	2,731.0	2,723.5	2,689.1	11.7	9.4	134.38	-370.2	-112.6	540.1	521.8	18.30	29.505	
2,900.0	2,826.7	2,819.3	2,783.2	12.3	9.8	134.78	-387.4	-117.1	568.6	549.5	19.14	29.711	
3,000.0	2,922.3	2,915.0	2,877.3	12.9	10.2	135.14	-404.7	-121.7	597.2	577.3	19.97	29.901	
3,100.0	3,018.0	3,010.8	2,971.4	13.6	10.6	135.48	-421.9	-126.2	625.8	605.0	20.81	30.077	
3,200.0	3,113.6	3,106.6	3,065.5	14.2	11.0	135.78	-439.1	-130.8	654.5	632.8	21.64	30.239	
3,300.0	3,209.3	3,202.3	3,159.6	14.8	11.4	136.06	-456.4	-135.3	683.1	660.6	22.48	30.389	
3,400.0	3,304.9	3,298.1	3,253.7	15.4	11.8	136.31	-473.6	-139.8	711.8	688.4	23.31	30.529	
3,500.0	3,400.6	3,393.8	3,347.7	16.1	12.2	136.55	-490.9	-144.4	740.4	716.3	24.15	30.660	
3,600.0	3,496.2	3,489.6	3,441.8	16.7	12.6	136.77	-508.1	-148.9	769.1	744.1	24.99	30.782	
3,700.0	3,591.8	3,585.4	3,535.9	17.3	13.0	136.97	-525.3	-153.5	797.8	772.0	25.82	30.896	
3,800.0	3,687.5	3,681.1	3,630.0	17.9	13.4	137.16	-542.6	-158.0	826.5	799.8	26.66	31.004	
3,900.0	3,783.1	3,776.9	3,724.1	18.5	13.8	137.33	-559.8	-162.6	855.2	827.7	27.49	31.105	
4,000.0	3,878.8	3,872.6	3,818.2	19.2	14.2	137.50	-577.1	-167.1	883.9	855.6	28.33	31.200	
4,100.0	3,974.4	3,968.4	3,912.3	19.8	14.6	137.65	-594.3	-171.7	912.6	883.4	29.17	31.289	
4,200.0	4,070.1	4,064.2	4,006.3	20.4	15.0	137.80	-611.5	-176.2	941.3	911.3	30.00	31.374	
4,300.0	4,165.7	4,159.9	4,100.4	21.0	15.4	137.93	-628.8	-180.7	970.1	939.2	30.84	31.454	
4,400.0	4,261.4	4,255.7	4,194.5	21.7	15.8	138.06	-646.0	-185.3	998.8	967.1	31.68	31.530	
4,500.0	4,357.0	4,351.4	4,288.6	22.3	16.2	138.18	-663.3	-189.8	1,027.5	995.0	32.51	31.602	
4,600.0	4,452.7	4,447.2	4,382.7	22.9	16.6	138.30	-680.5	-194.4	1,056.3	1,022.9	33.35	31.670	
4,700.0	4,548.3	4,544.6	4,478.3	23.5	17.0	138.41	-698.0	-199.0	1,085.0	1,050.8	34.19	31.738	
4,800.0	4,644.0	4,655.5	4,587.8	24.2	17.4	138.66	-715.5	-203.6	1,113.0	1,078.0	34.94	31.854	

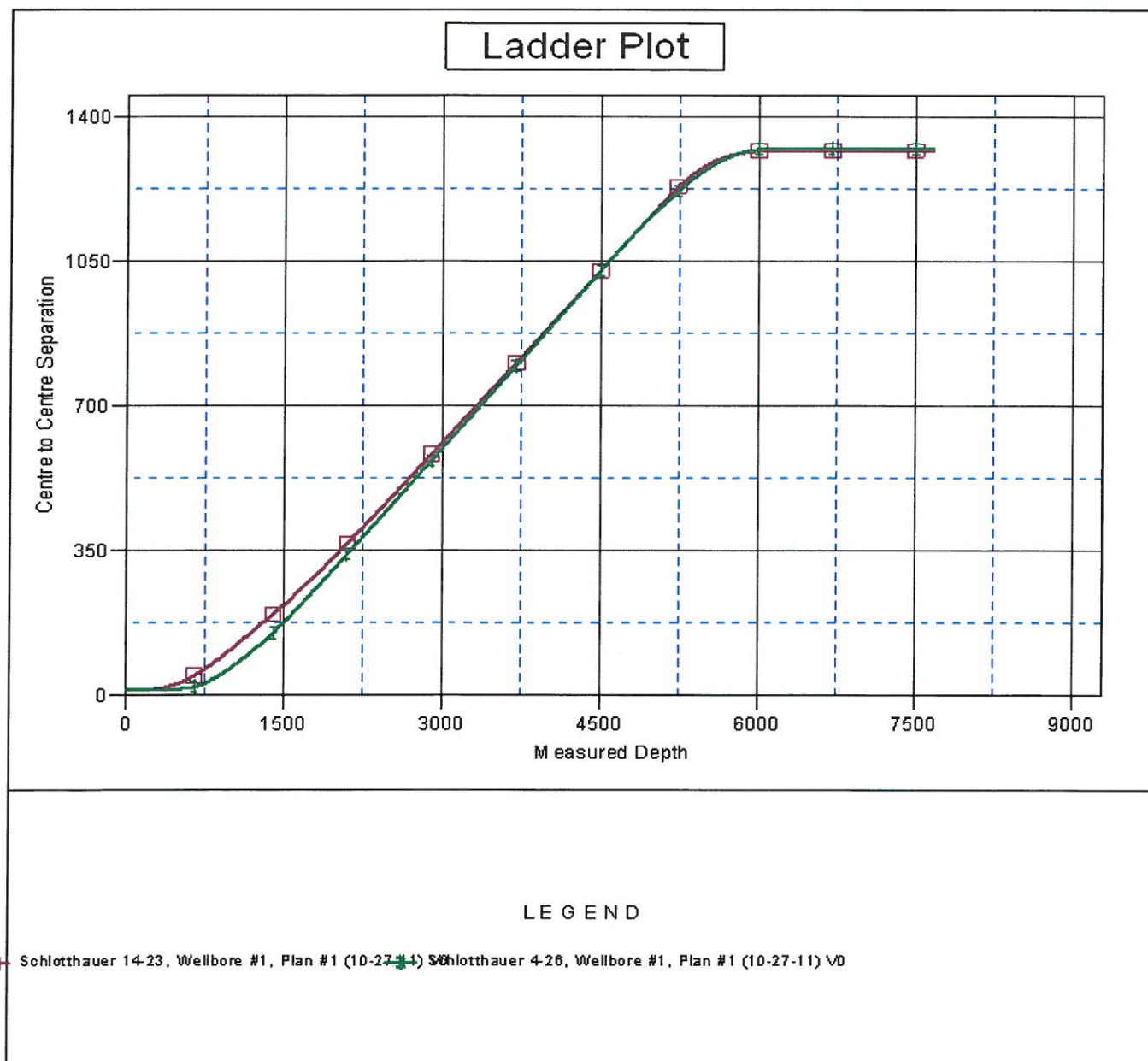
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Schlotthauer 3-26
Project:	SEC.23-T7N-R67W	TVD Reference:	WELL @ 4977.0ft (Original Well Elev)
Reference Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-27-11)	Offset TVD Reference:	Offset Datum

Offset Design Schlotthauer 13-23 Pad Sec.23-T7N-R67W - Schlotthauer 4-26 - Wellbore #1 - Plan #1 (10-27-11)													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 (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	
4,900.0	4,739.6	4,766.8	4,698.2	24.8	17.6	139.10	-728.9	-207.1	1,139.6	1,104.1	35.60	32.016		
5,000.0	4,835.3	4,878.2	4,809.2	25.4	17.8	139.73	-738.2	-209.6	1,165.1	1,128.9	36.18	32.200		
5,100.0	4,930.9	4,989.3	4,920.2	26.1	18.0	140.53	-743.2	-210.9	1,189.5	1,152.8	36.70	32.414		
5,200.0	5,026.6	5,095.7	5,026.6	26.7	18.2	141.44	-744.3	-211.2	1,212.8	1,175.7	37.15	32.646		
5,239.2	5,064.1	5,133.2	5,064.1	26.9	18.2	141.77	-744.3	-211.2	1,222.0	1,184.6	37.32	32.746		
5,300.0	5,122.4	5,191.5	5,122.4	27.2	18.3	142.42	-744.3	-211.2	1,235.7	1,198.1	37.58	32.877		
5,400.0	5,219.1	5,288.2	5,219.1	27.7	18.4	143.37	-744.3	-211.2	1,256.2	1,218.3	37.95	33.102		
5,500.0	5,316.6	5,385.8	5,316.6	28.0	18.5	144.17	-744.3	-211.2	1,274.2	1,235.9	38.29	33.278		
5,600.0	5,414.9	5,484.0	5,414.9	28.4	18.6	144.84	-744.3	-211.2	1,289.5	1,250.8	38.60	33.403		
5,700.0	5,513.7	5,582.8	5,513.7	28.6	18.7	145.36	-744.3	-211.2	1,302.0	1,263.1	38.89	33.478		
5,800.0	5,613.0	5,682.1	5,613.0	28.9	18.8	145.76	-744.3	-211.2	1,311.7	1,272.5	39.15	33.503		
5,900.0	5,712.7	5,781.8	5,712.7	29.0	18.9	146.04	-744.3	-211.2	1,318.6	1,279.2	39.39	33.478		
6,000.0	5,812.5	5,881.7	5,812.5	29.2	19.0	146.20	-744.3	-211.2	1,322.5	1,282.9	39.59	33.403		
6,087.5	5,900.0	5,969.1	5,900.0	29.3	19.1	-89.81	-744.3	-211.2	1,323.6	1,283.9	39.76	33.287		
6,100.0	5,912.5	5,981.7	5,912.5	29.3	19.2	-89.81	-744.3	-211.2	1,323.6	1,283.9	39.80	33.262		
6,200.0	6,012.5	6,081.7	6,012.5	29.4	19.3	-89.81	-744.3	-211.2	1,323.6	1,283.6	40.03	33.064		
6,300.0	6,112.5	6,181.7	6,112.5	29.5	19.4	-89.81	-744.3	-211.2	1,323.6	1,283.4	40.28	32.865		
6,400.0	6,212.5	6,281.7	6,212.5	29.6	19.5	-89.81	-744.3	-211.2	1,323.6	1,283.1	40.52	32.666		
6,500.0	6,312.5	6,381.7	6,312.5	29.6	19.7	-89.81	-744.3	-211.2	1,323.6	1,282.9	40.77	32.466		
6,600.0	6,412.5	6,481.7	6,412.5	29.7	19.8	-89.81	-744.3	-211.2	1,323.6	1,282.6	41.02	32.266		
6,700.0	6,512.5	6,581.7	6,512.5	29.8	19.9	-89.81	-744.3	-211.2	1,323.6	1,282.4	41.28	32.067		
6,800.0	6,612.5	6,681.7	6,612.5	29.9	20.0	-89.81	-744.3	-211.2	1,323.6	1,282.1	41.54	31.867		
6,900.0	6,712.5	6,781.7	6,712.5	30.0	20.2	-89.81	-744.3	-211.2	1,323.6	1,281.8	41.80	31.667		
7,000.0	6,812.5	6,881.7	6,812.5	30.1	20.3	-89.81	-744.3	-211.2	1,323.6	1,281.6	42.06	31.467		
7,100.0	6,912.5	6,981.7	6,912.5	30.2	20.5	-89.81	-744.3	-211.2	1,323.6	1,281.3	42.33	31.267		
7,200.0	7,012.5	7,081.7	7,012.5	30.3	20.6	-89.81	-744.3	-211.2	1,323.6	1,281.0	42.61	31.068		
7,300.0	7,112.5	7,181.7	7,112.5	30.4	20.7	-89.81	-744.3	-211.2	1,323.6	1,280.8	42.88	30.869		
7,400.0	7,212.5	7,281.7	7,212.5	30.5	20.9	-89.81	-744.3	-211.2	1,323.6	1,280.5	43.16	30.670		
7,500.0	7,312.5	7,381.7	7,312.5	30.6	21.0	-89.81	-744.3	-211.2	1,323.6	1,280.2	43.44	30.472		
7,600.0	7,412.5	7,481.7	7,412.5	30.8	21.2	-89.81	-744.3	-211.2	1,323.6	1,279.9	43.72	30.275		
7,662.5	7,475.0	7,544.1	7,475.0	30.8	21.3	-89.81	-744.3	-211.2	1,323.6	1,279.7	43.90	30.152		

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Schlotthauer 3-26
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Reference Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-27-11)	Offset TVD Reference:	Offset Datum

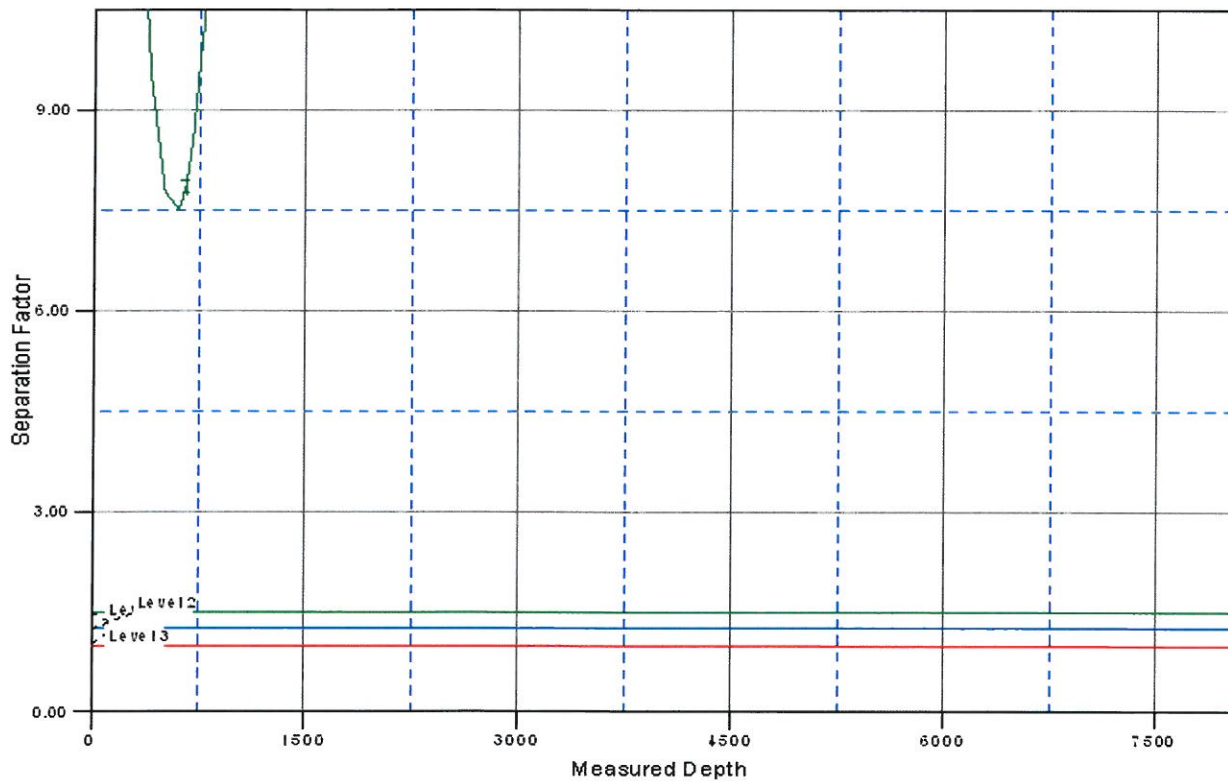
Reference Depths are relative to WELL @ 4977.0ft (Original Well Elev) Coordinates are relative to: Schlotthauer 3-26
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.41°



Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Schlotthauer 3-26
Project:	SEC.23-T7N-R67W	TVD Reference:	WELL @ 4977.0ft (Original Well Elev)
Reference Site:	Schlotthauer 13-23 Pad Sec.23-T7N-R67W	MD Reference:	WELL @ 4977.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Schlotthauer 3-26	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (10-27-11)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4977.0ft (Original Well Elev) Coordinates are relative to: Schlotthauer 3-26
 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: 0.41°

Separation Factor Plot



LEGEND

3 Schlotthauer 14-23, Wellbore #1, Plan #1 (10-27-11) 4 Schlotthauer 4-26, Wellbore #1, Plan #1 (10-27-11) VD