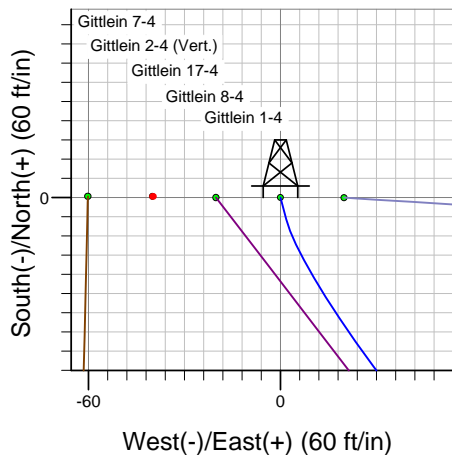
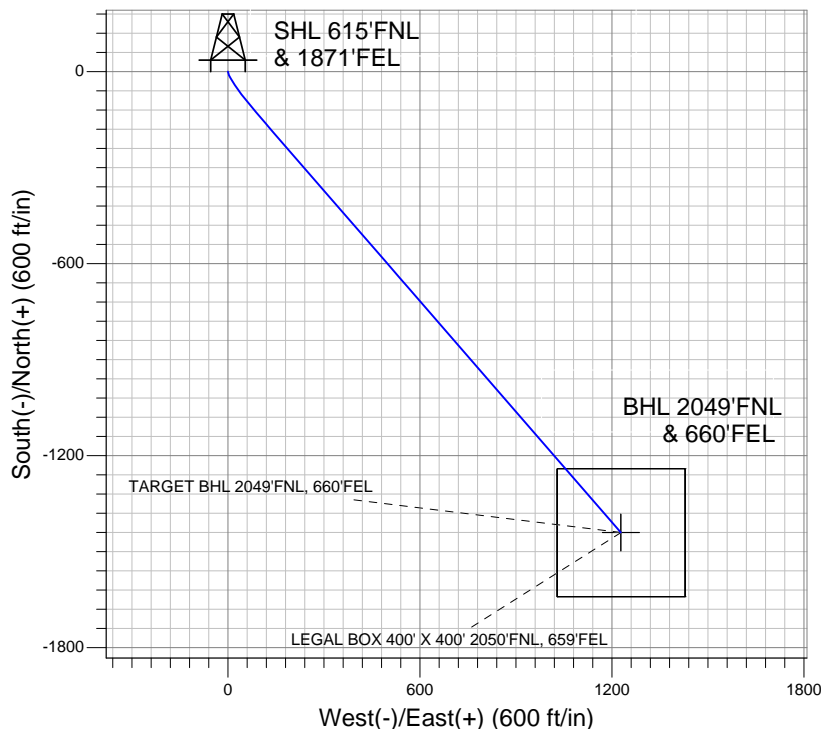
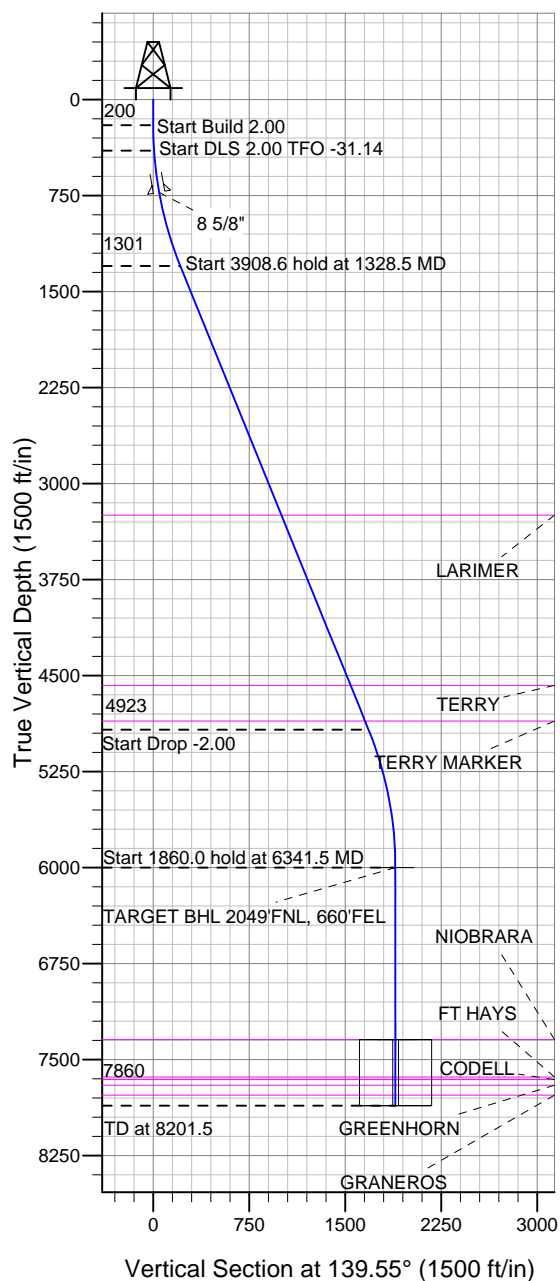


Well Name: Gittlein 8-4

Surface Location: Gittlein 7-4 Pad Sec.4-T1N-R67W
 North American Datum 1983, US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 5006.0
 +N/-S 0.0 +E/-W 0.0 Northing 1274703.09 Easting 3169800.88 Latitude 40.085856 Longitude -104.893132 Slot
 Original Well Elev WELL @ 5018.0ft (Original Well Elev)

BAYSWATER EXPLORATION & PRODUCTION



Gittlein 7-4 Pad Sec.4-T1N-R67W
 Gittlein 8-4
 Plan #1 (11-28-11)
 10:53, November 30 2011



Azimuths to True North
 Magnetic North: 8.84°
 Magnetic Field
 Strength: 52902.7snT
 Dip Angle: 66.76°
 Date: 11/28/2011
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 2049'FNL, 660'FEL	6000.0	-1439.6	1227.3	40.081904	-104.888746	Point
LEGAL BOX 400' X 400' 2050'FNL, 659'FEL	7344.0	-1440.6	1228.3	40.081901	-104.888743	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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	400.0	4.00	165.00	399.8	-6.7	1.8	2.00	165.00	6.3	
4	1328.5	22.09	139.03	1301.1	-171.3	125.7	2.00	-31.14	211.9	
5	5237.1	22.09	139.03	4922.8	-1280.9	1089.5	0.00	0.00	1681.6	
6	6341.5	0.00	0.00	6000.0	-1439.6	1227.3	2.00	180.00	1891.8	TARGET BHL 2049'FNL, 660'FEL
7	8201.5	0.00	0.00	7860.0	-1439.6	1227.3	0.00	0.00	1891.8	



BAYSWATER EXPLORATION & PRODUCTION

SEC.4-T1N-R67W

Gittlein 7-4 Pad Sec.4-T1N-R67W

Gittlein 8-4

Wellbore #1

Plan: Plan #1 (11-28-11)

Standard Planning Report

30 November, 2011

Database:	Landmark	Local Co-ordinate Reference:	Well Gittlein 8-4
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Project:	SEC.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	North Reference:	True
Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-28-11)		

Project	SEC.4-T1N-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	Gittlein 7-4 Pad Sec.4-T1N-R67W		
Site Position:		Northing:	1,274,703.06 ft
From:	Lat/Long	Easting:	3,169,740.73 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.085857
		Longitude:	-104.893347
		Grid Convergence:	0.39 °

Well	Gittlein 8-4		
Well Position	+N/-S	-0.4 ft	Northing:
	+E/-W	60.2 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			ft
			Latitude:
			40.085856
			Longitude:
			-104.893132
			Ground Level:
			5,006.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/28/2011	8.84	66.76	52,903

Design	Plan #1 (11-28-11)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	139.55

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	4.00	165.00	399.8	-6.7	1.8	2.00	2.00	0.00	165.00	
1,328.5	22.09	139.03	1,301.1	-171.3	125.7	2.00	1.95	-2.80	-31.14	
5,237.1	22.09	139.03	4,922.8	-1,280.9	1,089.5	0.00	0.00	0.00	0.00	
6,341.5	0.00	0.00	6,000.0	-1,439.6	1,227.3	2.00	-2.00	0.00	180.00	TARGET BHL 2049
8,201.5	0.00	0.00	7,860.0	-1,439.6	1,227.3	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Gittlein 8-4
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Project:	SEC.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	North Reference:	True
Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-28-11)		

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	165.00	240.0	-0.3	0.1	0.3	2.00	2.00	0.00
280.0	1.60	165.00	280.0	-1.1	0.3	1.0	2.00	2.00	0.00
320.0	2.40	165.00	320.0	-2.4	0.7	2.3	2.00	2.00	0.00
360.0	3.20	165.00	359.9	-4.3	1.2	4.0	2.00	2.00	0.00
400.0	4.00	165.00	399.8	-6.7	1.8	6.3	2.00	2.00	0.00
440.0	4.70	159.95	439.7	-9.6	2.7	9.1	2.00	1.76	-12.63
480.0	5.43	156.23	479.6	-12.9	4.1	12.4	2.00	1.82	-9.30
520.0	6.18	153.40	519.4	-16.6	5.8	16.4	2.00	1.87	-7.08
560.0	6.94	151.18	559.1	-20.6	7.9	20.8	2.00	1.90	-5.55
600.0	7.71	149.39	598.8	-25.0	10.4	25.8	2.00	1.92	-4.45
640.0	8.48	147.93	638.4	-29.8	13.4	31.4	2.00	1.93	-3.65
680.0	9.26	146.72	677.9	-35.0	16.7	37.5	2.00	1.94	-3.04
720.0	10.04	145.69	717.3	-40.6	20.4	44.1	2.00	1.95	-2.57
727.8	10.19	145.51	725.0	-41.7	21.2	45.5	2.00	1.96	-2.34
8 5/8"									
760.0	10.82	144.81	756.7	-46.5	24.6	51.4	2.00	1.96	-2.17
800.0	11.61	144.04	795.9	-52.9	29.1	59.1	2.00	1.97	-1.91
840.0	12.40	143.37	835.0	-59.6	34.0	67.4	2.00	1.97	-1.67
880.0	13.19	142.79	874.0	-66.6	39.3	76.2	2.00	1.97	-1.47
920.0	13.98	142.26	912.9	-74.1	45.1	85.6	2.00	1.98	-1.31
960.0	14.77	141.79	951.7	-81.9	51.2	95.5	2.00	1.98	-1.17
1,000.0	15.56	141.37	990.3	-90.1	57.7	106.0	2.00	1.98	-1.06
1,040.0	16.35	140.99	1,028.7	-98.7	64.6	117.0	2.00	1.98	-0.96
1,080.0	17.15	140.64	1,067.0	-107.6	71.8	128.5	2.00	1.98	-0.87
1,120.0	17.94	140.32	1,105.2	-116.9	79.5	140.6	2.00	1.99	-0.79
1,160.0	18.74	140.03	1,143.1	-126.6	87.6	153.2	2.00	1.99	-0.73
1,200.0	19.53	139.76	1,180.9	-136.6	96.0	166.3	2.00	1.99	-0.67
1,240.0	20.33	139.51	1,218.5	-147.0	104.8	179.9	2.00	1.99	-0.62
1,280.0	21.12	139.28	1,255.9	-157.8	114.1	194.0	2.00	1.99	-0.58
1,320.0	21.92	139.07	1,293.2	-168.9	123.7	208.7	2.00	1.99	-0.54
1,328.5	22.09	139.03	1,301.1	-171.3	125.7	211.9	2.00	1.99	-0.51
1,360.0	22.09	139.03	1,330.2	-180.2	133.5	223.7	0.00	0.00	0.00
1,400.0	22.09	139.03	1,367.3	-191.6	143.4	238.8	0.00	0.00	0.00
1,440.0	22.09	139.03	1,404.4	-202.9	153.2	253.8	0.00	0.00	0.00
1,480.0	22.09	139.03	1,441.4	-214.3	163.1	268.9	0.00	0.00	0.00
1,520.0	22.09	139.03	1,478.5	-225.6	173.0	283.9	0.00	0.00	0.00
1,560.0	22.09	139.03	1,515.5	-237.0	182.8	299.0	0.00	0.00	0.00
1,600.0	22.09	139.03	1,552.6	-248.3	192.7	314.0	0.00	0.00	0.00
1,640.0	22.09	139.03	1,589.7	-259.7	202.5	329.0	0.00	0.00	0.00
1,680.0	22.09	139.03	1,626.7	-271.1	212.4	344.1	0.00	0.00	0.00
1,720.0	22.09	139.03	1,663.8	-282.4	222.3	359.1	0.00	0.00	0.00
1,760.0	22.09	139.03	1,700.9	-293.8	232.1	374.2	0.00	0.00	0.00
1,800.0	22.09	139.03	1,737.9	-305.1	242.0	389.2	0.00	0.00	0.00
1,840.0	22.09	139.03	1,775.0	-316.5	251.9	404.2	0.00	0.00	0.00
1,880.0	22.09	139.03	1,812.1	-327.8	261.7	419.3	0.00	0.00	0.00
1,920.0	22.09	139.03	1,849.1	-339.2	271.6	434.3	0.00	0.00	0.00
1,960.0	22.09	139.03	1,886.2	-350.5	281.4	449.4	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Gittlein 8-4
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Project:	SEC.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	North Reference:	True
Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-28-11)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,000.0	22.09	139.03	1,923.3	-361.9	291.3	464.4	0.00	0.00	0.00
2,040.0	22.09	139.03	1,960.3	-373.3	301.2	479.4	0.00	0.00	0.00
2,080.0	22.09	139.03	1,997.4	-384.6	311.0	494.5	0.00	0.00	0.00
2,120.0	22.09	139.03	2,034.5	-396.0	320.9	509.5	0.00	0.00	0.00
2,160.0	22.09	139.03	2,071.5	-407.3	330.8	524.6	0.00	0.00	0.00
2,200.0	22.09	139.03	2,108.6	-418.7	340.6	539.6	0.00	0.00	0.00
2,240.0	22.09	139.03	2,145.6	-430.0	350.5	554.6	0.00	0.00	0.00
2,280.0	22.09	139.03	2,182.7	-441.4	360.3	569.7	0.00	0.00	0.00
2,320.0	22.09	139.03	2,219.8	-452.7	370.2	584.7	0.00	0.00	0.00
2,360.0	22.09	139.03	2,256.8	-464.1	380.1	599.8	0.00	0.00	0.00
2,400.0	22.09	139.03	2,293.9	-475.5	389.9	614.8	0.00	0.00	0.00
2,440.0	22.09	139.03	2,331.0	-486.8	399.8	629.8	0.00	0.00	0.00
2,480.0	22.09	139.03	2,368.0	-498.2	409.7	644.9	0.00	0.00	0.00
2,520.0	22.09	139.03	2,405.1	-509.5	419.5	659.9	0.00	0.00	0.00
2,560.0	22.09	139.03	2,442.2	-520.9	429.4	675.0	0.00	0.00	0.00
2,600.0	22.09	139.03	2,479.2	-532.2	439.3	690.0	0.00	0.00	0.00
2,640.0	22.09	139.03	2,516.3	-543.6	449.1	705.0	0.00	0.00	0.00
2,680.0	22.09	139.03	2,553.4	-554.9	459.0	720.1	0.00	0.00	0.00
2,720.0	22.09	139.03	2,590.4	-566.3	468.8	735.1	0.00	0.00	0.00
2,760.0	22.09	139.03	2,627.5	-577.7	478.7	750.2	0.00	0.00	0.00
2,800.0	22.09	139.03	2,664.5	-589.0	488.6	765.2	0.00	0.00	0.00
2,840.0	22.09	139.03	2,701.6	-600.4	498.4	780.2	0.00	0.00	0.00
2,880.0	22.09	139.03	2,738.7	-611.7	508.3	795.3	0.00	0.00	0.00
2,920.0	22.09	139.03	2,775.7	-623.1	518.2	810.3	0.00	0.00	0.00
2,960.0	22.09	139.03	2,812.8	-634.4	528.0	825.4	0.00	0.00	0.00
3,000.0	22.09	139.03	2,849.9	-645.8	537.9	840.4	0.00	0.00	0.00
3,040.0	22.09	139.03	2,886.9	-657.2	547.7	855.4	0.00	0.00	0.00
3,080.0	22.09	139.03	2,924.0	-668.5	557.6	870.5	0.00	0.00	0.00
3,120.0	22.09	139.03	2,961.1	-679.9	567.5	885.5	0.00	0.00	0.00
3,160.0	22.09	139.03	2,998.1	-691.2	577.3	900.6	0.00	0.00	0.00
3,200.0	22.09	139.03	3,035.2	-702.6	587.2	915.6	0.00	0.00	0.00
3,240.0	22.09	139.03	3,072.3	-713.9	597.1	930.6	0.00	0.00	0.00
3,280.0	22.09	139.03	3,109.3	-725.3	606.9	945.7	0.00	0.00	0.00
3,320.0	22.09	139.03	3,146.4	-736.6	616.8	960.7	0.00	0.00	0.00
3,360.0	22.09	139.03	3,183.4	-748.0	626.6	975.8	0.00	0.00	0.00
3,400.0	22.09	139.03	3,220.5	-759.4	636.5	990.8	0.00	0.00	0.00
3,427.5	22.09	139.03	3,246.0	-767.2	643.3	1,001.1	0.00	0.00	0.00
LARIMER									
3,440.0	22.09	139.03	3,257.6	-770.7	646.4	1,005.8	0.00	0.00	0.00
3,480.0	22.09	139.03	3,294.6	-782.1	656.2	1,020.9	0.00	0.00	0.00
3,520.0	22.09	139.03	3,331.7	-793.4	666.1	1,035.9	0.00	0.00	0.00
3,560.0	22.09	139.03	3,368.8	-804.8	676.0	1,051.0	0.00	0.00	0.00
3,600.0	22.09	139.03	3,405.8	-816.1	685.8	1,066.0	0.00	0.00	0.00
3,640.0	22.09	139.03	3,442.9	-827.5	695.7	1,081.0	0.00	0.00	0.00
3,680.0	22.09	139.03	3,480.0	-838.8	705.5	1,096.1	0.00	0.00	0.00
3,720.0	22.09	139.03	3,517.0	-850.2	715.4	1,111.1	0.00	0.00	0.00
3,760.0	22.09	139.03	3,554.1	-861.6	725.3	1,126.2	0.00	0.00	0.00
3,800.0	22.09	139.03	3,591.2	-872.9	735.1	1,141.2	0.00	0.00	0.00
3,840.0	22.09	139.03	3,628.2	-884.3	745.0	1,156.2	0.00	0.00	0.00
3,880.0	22.09	139.03	3,665.3	-895.6	754.9	1,171.3	0.00	0.00	0.00
3,920.0	22.09	139.03	3,702.4	-907.0	764.7	1,186.3	0.00	0.00	0.00
3,960.0	22.09	139.03	3,739.4	-918.3	774.6	1,201.4	0.00	0.00	0.00
4,000.0	22.09	139.03	3,776.5	-929.7	784.4	1,216.4	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Gittlein 8-4
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Project:	SEC.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	North Reference:	True
Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-28-11)		

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)
4,040.0	22.09	139.03	3,813.5	-941.0	794.3	1,231.4	0.00	0.00	0.00
4,080.0	22.09	139.03	3,850.6	-952.4	804.2	1,246.5	0.00	0.00	0.00
4,120.0	22.09	139.03	3,887.7	-963.8	814.0	1,261.5	0.00	0.00	0.00
4,160.0	22.09	139.03	3,924.7	-975.1	823.9	1,276.6	0.00	0.00	0.00
4,200.0	22.09	139.03	3,961.8	-986.5	833.8	1,291.6	0.00	0.00	0.00
4,240.0	22.09	139.03	3,998.9	-997.8	843.6	1,306.6	0.00	0.00	0.00
4,280.0	22.09	139.03	4,035.9	-1,009.2	853.5	1,321.7	0.00	0.00	0.00
4,320.0	22.09	139.03	4,073.0	-1,020.5	863.3	1,336.7	0.00	0.00	0.00
4,360.0	22.09	139.03	4,110.1	-1,031.9	873.2	1,351.8	0.00	0.00	0.00
4,400.0	22.09	139.03	4,147.1	-1,043.3	883.1	1,366.8	0.00	0.00	0.00
4,440.0	22.09	139.03	4,184.2	-1,054.6	892.9	1,381.8	0.00	0.00	0.00
4,480.0	22.09	139.03	4,221.3	-1,066.0	902.8	1,396.9	0.00	0.00	0.00
4,520.0	22.09	139.03	4,258.3	-1,077.3	912.7	1,411.9	0.00	0.00	0.00
4,560.0	22.09	139.03	4,295.4	-1,088.7	922.5	1,427.0	0.00	0.00	0.00
4,600.0	22.09	139.03	4,332.4	-1,100.0	932.4	1,442.0	0.00	0.00	0.00
4,640.0	22.09	139.03	4,369.5	-1,111.4	942.2	1,457.0	0.00	0.00	0.00
4,680.0	22.09	139.03	4,406.6	-1,122.7	952.1	1,472.1	0.00	0.00	0.00
4,720.0	22.09	139.03	4,443.6	-1,134.1	962.0	1,487.1	0.00	0.00	0.00
4,760.0	22.09	139.03	4,480.7	-1,145.5	971.8	1,502.2	0.00	0.00	0.00
4,800.0	22.09	139.03	4,517.8	-1,156.8	981.7	1,517.2	0.00	0.00	0.00
4,840.0	22.09	139.03	4,554.8	-1,168.2	991.6	1,532.2	0.00	0.00	0.00
4,862.8	22.09	139.03	4,576.0	-1,174.7	997.2	1,540.8	0.00	0.00	0.00
TERRY									
4,880.0	22.09	139.03	4,591.9	-1,179.5	1,001.4	1,547.3	0.00	0.00	0.00
4,920.0	22.09	139.03	4,629.0	-1,190.9	1,011.3	1,562.3	0.00	0.00	0.00
4,960.0	22.09	139.03	4,666.0	-1,202.2	1,021.1	1,577.4	0.00	0.00	0.00
5,000.0	22.09	139.03	4,703.1	-1,213.6	1,031.0	1,592.4	0.00	0.00	0.00
5,040.0	22.09	139.03	4,740.2	-1,224.9	1,040.9	1,607.5	0.00	0.00	0.00
5,080.0	22.09	139.03	4,777.2	-1,236.3	1,050.7	1,622.5	0.00	0.00	0.00
5,120.0	22.09	139.03	4,814.3	-1,247.7	1,060.6	1,637.5	0.00	0.00	0.00
5,160.0	22.09	139.03	4,851.3	-1,259.0	1,070.5	1,652.6	0.00	0.00	0.00
5,165.0	22.09	139.03	4,856.0	-1,260.4	1,071.7	1,654.5	0.00	0.00	0.00
TERRY MARKER									
5,200.0	22.09	139.03	4,888.4	-1,270.4	1,080.3	1,667.6	0.00	0.00	0.00
5,237.1	22.09	139.03	4,922.8	-1,280.9	1,089.5	1,681.6	0.00	0.00	0.00
5,240.0	22.03	139.03	4,925.5	-1,281.7	1,090.2	1,682.7	2.00	-2.00	0.00
5,280.0	21.23	139.03	4,962.7	-1,292.9	1,099.9	1,697.4	2.00	-2.00	0.00
5,320.0	20.43	139.03	5,000.0	-1,303.6	1,109.2	1,711.6	2.00	-2.00	0.00
5,360.0	19.63	139.03	5,037.6	-1,313.9	1,118.2	1,725.3	2.00	-2.00	0.00
5,400.0	18.83	139.03	5,075.4	-1,323.9	1,126.8	1,738.5	2.00	-2.00	0.00
5,440.0	18.03	139.03	5,113.3	-1,333.4	1,135.1	1,751.1	2.00	-2.00	0.00
5,480.0	17.23	139.03	5,151.5	-1,342.6	1,143.0	1,763.2	2.00	-2.00	0.00
5,520.0	16.43	139.03	5,189.8	-1,351.3	1,150.6	1,774.8	2.00	-2.00	0.00
5,560.0	15.63	139.03	5,228.2	-1,359.7	1,157.9	1,785.9	2.00	-2.00	0.00
5,600.0	14.83	139.03	5,266.8	-1,367.6	1,164.8	1,796.4	2.00	-2.00	0.00
5,640.0	14.03	139.03	5,305.5	-1,375.1	1,171.3	1,806.3	2.00	-2.00	0.00
5,680.0	13.23	139.03	5,344.4	-1,382.2	1,177.5	1,815.8	2.00	-2.00	0.00
5,720.0	12.43	139.03	5,383.4	-1,388.9	1,183.3	1,824.7	2.00	-2.00	0.00
5,760.0	11.63	139.03	5,422.5	-1,395.2	1,188.8	1,833.0	2.00	-2.00	0.00
5,800.0	10.83	139.03	5,461.8	-1,401.1	1,193.9	1,840.8	2.00	-2.00	0.00
5,840.0	10.03	139.03	5,501.1	-1,406.6	1,198.6	1,848.0	2.00	-2.00	0.00
5,880.0	9.23	139.03	5,540.5	-1,411.6	1,203.0	1,854.7	2.00	-2.00	0.00
5,920.0	8.43	139.03	5,580.1	-1,416.3	1,207.0	1,860.8	2.00	-2.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Gittlein 8-4
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Project:	SEC.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	North Reference:	True
Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-28-11)		

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)
5,960.0	7.63	139.03	5,619.7	-1,420.5	1,210.7	1,866.4	2.00	-2.00	0.00
6,000.0	6.83	139.03	5,659.3	-1,424.3	1,214.0	1,871.5	2.00	-2.00	0.00
6,040.0	6.03	139.03	5,699.1	-1,427.7	1,216.9	1,875.9	2.00	-2.00	0.00
6,080.0	5.23	139.03	5,738.9	-1,430.6	1,219.5	1,879.9	2.00	-2.00	0.00
6,120.0	4.43	139.03	5,778.8	-1,433.2	1,221.7	1,883.2	2.00	-2.00	0.00
6,160.0	3.63	139.03	5,818.7	-1,435.3	1,223.6	1,886.0	2.00	-2.00	0.00
6,200.0	2.83	139.03	5,858.6	-1,437.0	1,225.0	1,888.3	2.00	-2.00	0.00
6,240.0	2.03	139.03	5,898.6	-1,438.3	1,226.2	1,890.0	2.00	-2.00	0.00
6,280.0	1.23	139.03	5,938.5	-1,439.1	1,226.9	1,891.1	2.00	-2.00	0.00
6,320.0	0.43	139.03	5,978.5	-1,439.6	1,227.3	1,891.7	2.00	-2.00	0.00
6,341.5	0.00	0.00	6,000.0	-1,439.6	1,227.3	1,891.8	2.00	-2.00	0.00
TARGET BHL 2049'FNL, 660'FEL									
6,360.0	0.00	0.00	6,018.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,058.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,440.0	0.00	0.00	6,098.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,480.0	0.00	0.00	6,138.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,520.0	0.00	0.00	6,178.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,560.0	0.00	0.00	6,218.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,258.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,640.0	0.00	0.00	6,298.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,680.0	0.00	0.00	6,338.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,720.0	0.00	0.00	6,378.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,760.0	0.00	0.00	6,418.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,458.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,840.0	0.00	0.00	6,498.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,880.0	0.00	0.00	6,538.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,920.0	0.00	0.00	6,578.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
6,960.0	0.00	0.00	6,618.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,658.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,040.0	0.00	0.00	6,698.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,080.0	0.00	0.00	6,738.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,120.0	0.00	0.00	6,778.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,160.0	0.00	0.00	6,818.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,200.0	0.00	0.00	6,858.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,240.0	0.00	0.00	6,898.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,280.0	0.00	0.00	6,938.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,320.0	0.00	0.00	6,978.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,360.0	0.00	0.00	7,018.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,058.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,440.0	0.00	0.00	7,098.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,480.0	0.00	0.00	7,138.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,520.0	0.00	0.00	7,178.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,560.0	0.00	0.00	7,218.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,258.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,640.0	0.00	0.00	7,298.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,680.0	0.00	0.00	7,338.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,685.5	0.00	0.00	7,344.0	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
NIORARA - LEGAL BOX 400' X 400' 2050'FNL, 659'FEL									
7,720.0	0.00	0.00	7,378.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,760.0	0.00	0.00	7,418.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,458.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,840.0	0.00	0.00	7,498.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Gittlein 8-4
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Project:	SEC.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	North Reference:	True
Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-28-11)		

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)
7,880.0	0.00	0.00	7,538.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,920.0	0.00	0.00	7,578.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,960.0	0.00	0.00	7,618.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
7,977.5	0.00	0.00	7,636.0	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
FT HAYS									
7,997.5	0.00	0.00	7,656.0	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
CODELL									
8,000.0	0.00	0.00	7,658.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
8,040.0	0.00	0.00	7,698.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
8,041.5	0.00	0.00	7,700.0	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
GREENHORN									
8,080.0	0.00	0.00	7,738.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
8,119.5	0.00	0.00	7,778.0	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
GRANEROS									
8,120.0	0.00	0.00	7,778.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
8,160.0	0.00	0.00	7,818.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
8,200.0	0.00	0.00	7,858.5	-1,439.6	1,227.3	1,891.8	0.00	0.00	0.00
8,201.5	0.00	0.00	7,860.0	-1,439.6	1,227.3	1,891.8	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	7,344.0	-1,440.6	1,228.3	1,273,270.99	3,171,038.96	40.081901	-104.888743
- plan misses target center by 1.4ft at 7685.5ft MD (7344.0 TVD, -1439.6 N, 1227.3 E)									
- Rectangle (sides W400.0 H400.0 D516.0)									
TARGET BHL 2049'F	0.00	0.00	6,000.0	-1,439.6	1,227.3	1,273,271.95	3,171,037.99	40.081904	-104.888746
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
727.8	725.0	8 5/8"	8-5/8	12-1/4

Database:	Landmark	Local Co-ordinate Reference:	Well Gittlein 8-4
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Project:	SEC.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	North Reference:	True
Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-28-11)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,427.5	3,246.0	LARIMER		0.00		
4,862.8	4,576.0	TERRY		0.00		
5,165.0	4,856.0	TERRY MARKER		0.00		
7,685.5	7,344.0	NIOBRARA		0.00		
7,977.5	7,636.0	FT HAYS		0.00		
7,997.5	7,656.0	CODELL		0.00		
8,041.5	7,700.0	GREENHORN		0.00		
8,119.5	7,778.0	GRANEROS		0.00		



BAYSWATER EXPLORATION & PRODUCTION

SEC.4-T1N-R67W

Gittlein 7-4 Pad Sec.4-T1N-R67W

Gittlein 8-4

Wellbore #1

Plan #1 (11-28-11)

Anticollision Report

01 December, 2011

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Gittlein 8-4
Project:	SEC.4-T1N-R67W	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Reference Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (11-28-11)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (11-28-11)		
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	11/29/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	8,201.5	Plan #1 (11-28-11) (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						
Gittlein 7-4 Pad Sec.4-T1N-R67W						
Gittlein 1-4 - Wellbore #1 - Plan #1 (11-28-11)	371.9	371.8	19.2	17.8	13.597	CC
Gittlein 1-4 - Wellbore #1 - Plan #1 (11-28-11)	400.0	399.8	19.3	17.7	12.574	ES
Gittlein 1-4 - Wellbore #1 - Plan #1 (11-28-11)	500.0	499.5	21.0	19.0	10.506	SF
Gittlein 17-4 - Wellbore #1 - Plan #1 (11-28-11)	200.0	200.0	20.1	19.5	29.878	CC, ES
Gittlein 17-4 - Wellbore #1 - Plan #1 (11-28-11)	500.0	499.5	29.0	27.0	14.530	SF

Offset Design	Gittlein 7-4 Pad Sec.4-T1N-R67W - Gittlein 1-4 - Wellbore #1 - Plan #1 (11-28-11)												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	90.04	0.0	19.9	19.9	19.9	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	90.04	0.0	19.9	19.9	19.6	0.22	88.388		
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	19.9	19.9	19.2	0.67	29.463		
300.0	300.0	300.0	300.0	0.5	0.6	-79.93	0.0	19.9	19.5	18.4	1.10	17.706		
371.9	371.8	371.8	371.8	0.7	0.7	-90.00	0.0	19.9	19.2	17.8	1.41	13.597	CC	
400.0	399.8	399.8	399.8	0.8	0.8	-95.42	0.0	19.9	19.3	17.7	1.53	12.574	ES	
500.0	499.5	499.5	499.5	1.0	1.0	-109.00	0.0	19.9	21.0	19.0	2.00	10.506	SF	
600.0	598.8	598.8	598.8	1.3	1.2	-128.50	0.0	19.9	26.7	24.3	2.47	10.824		
700.0	697.6	697.6	697.6	1.6	1.5	-143.75	0.0	19.9	37.8	34.8	2.93	12.881		
800.0	795.9	795.9	795.9	2.0	1.7	-153.47	0.0	19.9	53.7	50.3	3.39	15.825		
900.0	893.5	893.9	893.9	2.4	1.9	-159.35	0.0	20.2	73.6	69.8	3.84	19.156		
1,000.0	990.3	992.3	992.2	2.9	2.1	-161.71	-0.2	23.4	96.2	91.9	4.29	22.418		
1,100.0	1,086.1	1,090.8	1,090.5	3.5	2.3	-162.15	-0.6	30.0	120.7	115.9	4.76	25.324		
1,200.0	1,180.9	1,189.4	1,188.6	4.1	2.5	-161.60	-1.2	39.9	146.7	141.5	5.27	27.824		
1,300.0	1,274.6	1,287.9	1,286.2	4.8	2.8	-160.53	-2.1	53.2	174.4	168.6	5.83	29.893		
1,328.5	1,301.1	1,316.0	1,313.9	5.0	2.9	-160.16	-2.3	57.6	182.6	176.6	6.01	30.398		
1,400.0	1,367.3	1,386.5	1,383.4	5.6	3.1	-159.55	-3.1	69.9	202.9	196.5	6.48	31.331		
1,500.0	1,460.0	1,485.7	1,480.5	6.3	3.4	-158.18	-4.3	90.0	230.2	223.0	7.21	31.925		
1,600.0	1,552.6	1,585.3	1,577.3	7.1	3.8	-156.38	-5.8	113.5	256.3	248.3	8.05	31.841		
1,700.0	1,645.3	1,685.0	1,673.3	7.9	4.3	-154.24	-7.5	140.5	281.4	272.4	9.01	31.239		
1,800.0	1,737.9	1,784.7	1,768.2	8.6	4.8	-151.82	-9.3	170.7	305.8	295.7	10.10	30.270		

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 Gittlein 8-4
Project:	SEC.4-T1N-R67W	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Reference Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (11-28-11)	Offset TVD Reference:	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 +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
1,900.0	1,830.6	1,882.2	1,860.2	9.4	5.4	-149.33	-11.3	203.0	329.8	318.5	11.30	29.174		
2,000.0	1,923.3	1,978.4	1,950.8	10.2	6.0	-147.16	-13.3	235.1	354.2	341.6	12.56	28.210		
2,100.0	2,015.9	2,074.5	2,041.4	11.0	6.6	-145.26	-15.3	267.2	379.0	365.2	13.84	27.391		
2,200.0	2,108.6	2,170.6	2,132.0	11.8	7.2	-143.59	-17.2	299.4	404.2	389.1	15.14	26.693		
2,300.0	2,201.2	2,266.8	2,222.6	12.6	7.9	-142.12	-19.2	331.5	429.7	413.2	16.46	26.099		
2,400.0	2,293.9	2,362.9	2,313.2	13.3	8.5	-140.82	-21.2	363.6	455.4	437.6	17.80	25.589		
2,500.0	2,386.6	2,459.1	2,403.8	14.1	9.2	-139.65	-23.2	395.7	481.3	462.2	19.14	25.150		
2,600.0	2,479.2	2,555.2	2,494.4	14.9	9.8	-138.60	-25.2	427.9	507.4	486.9	20.49	24.769		
2,700.0	2,571.9	2,651.3	2,584.9	15.7	10.5	-137.65	-27.2	460.0	533.6	511.8	21.84	24.436		
2,800.0	2,664.5	2,747.5	2,675.5	16.5	11.1	-136.79	-29.1	492.1	560.0	536.8	23.19	24.145		
2,900.0	2,757.2	2,843.6	2,766.1	17.3	11.8	-136.01	-31.1	524.2	586.5	561.9	24.55	23.887		
3,000.0	2,849.9	2,939.8	2,856.7	18.1	12.5	-135.29	-33.1	556.3	613.0	587.1	25.91	23.659		
3,100.0	2,942.5	3,035.9	2,947.3	18.9	13.1	-134.64	-35.1	588.5	639.7	612.4	27.27	23.455		
3,200.0	3,035.2	3,132.0	3,037.9	19.7	13.8	-134.04	-37.1	620.6	666.4	637.7	28.63	23.272		
3,300.0	3,127.9	3,228.2	3,128.5	20.5	14.5	-133.48	-39.0	652.7	693.1	663.1	30.00	23.107		
3,400.0	3,220.5	3,324.3	3,219.1	21.3	15.2	-132.96	-41.0	684.8	720.0	688.6	31.36	22.958		
3,500.0	3,313.2	3,420.4	3,309.7	22.0	15.8	-132.48	-43.0	717.0	746.8	714.1	32.72	22.823		
3,600.0	3,405.8	3,516.6	3,400.3	22.8	16.5	-132.04	-45.0	749.1	773.8	739.7	34.09	22.700		
3,700.0	3,498.5	3,612.7	3,490.9	23.6	17.2	-131.62	-47.0	781.2	800.7	765.3	35.45	22.588		
3,800.0	3,591.2	3,708.9	3,581.5	24.4	17.9	-131.23	-48.9	813.3	827.7	790.9	36.81	22.484		
3,900.0	3,683.8	3,805.0	3,672.0	25.2	18.6	-130.87	-50.9	845.4	854.8	816.6	38.18	22.389		
4,000.0	3,776.5	3,901.1	3,762.6	26.0	19.2	-130.53	-52.9	877.6	881.8	842.3	39.54	22.302		
4,100.0	3,869.1	3,997.3	3,853.2	26.8	19.9	-130.21	-54.9	909.7	908.9	868.0	40.90	22.220		
4,200.0	3,961.8	4,093.4	3,943.8	27.6	20.6	-129.90	-56.9	941.8	936.0	893.8	42.27	22.145		
4,300.0	4,054.5	4,189.5	4,034.4	28.4	21.3	-129.62	-58.8	973.9	963.2	919.5	43.63	22.078		
4,400.0	4,147.1	4,285.7	4,125.0	29.2	22.0	-129.35	-60.8	1,006.1	990.3	945.3	44.99	22.010		
4,500.0	4,239.8	4,381.8	4,215.6	30.0	22.6	-129.09	-62.8	1,038.2	1,017.5	971.2	46.36	21.949		
4,600.0	4,332.4	4,479.9	4,308.3	30.8	23.3	-128.89	-64.8	1,070.1	1,044.7	997.0	47.65	21.921		
4,700.0	4,425.1	4,578.9	4,402.9	31.6	23.8	-128.89	-66.6	1,099.2	1,071.6	1,022.8	48.79	21.961		
4,800.0	4,517.8	4,678.0	4,498.5	32.4	24.2	-129.06	-68.2	1,125.1	1,098.2	1,048.4	49.82	22.042		
4,900.0	4,610.4	4,776.9	4,594.8	33.1	24.6	-129.41	-69.6	1,147.6	1,124.7	1,073.9	50.76	22.157		
5,000.0	4,703.1	4,875.3	4,691.3	33.9	24.9	-129.92	-70.7	1,166.7	1,150.9	1,099.3	51.60	22.306		
5,100.0	4,795.8	4,973.1	4,787.8	34.7	25.2	-130.56	-71.7	1,182.4	1,177.1	1,124.8	52.34	22.490		
5,200.0	4,888.4	5,069.9	4,883.9	35.5	25.5	-131.33	-72.5	1,194.7	1,203.4	1,150.4	52.98	22.712		
5,237.1	4,922.8	5,105.6	4,919.4	35.8	25.6	-131.65	-72.7	1,198.4	1,213.1	1,159.9	53.20	22.802		
5,300.0	4,981.3	5,166.0	4,979.5	36.2	25.7	-132.44	-73.0	1,203.7	1,229.3	1,175.8	53.51	22.973		
5,400.0	5,075.4	5,261.8	5,075.2	36.8	25.8	-133.67	-73.4	1,209.4	1,253.2	1,199.4	53.86	23.269		
5,500.0	5,170.6	5,357.4	5,170.7	37.3	25.9	-134.85	-73.5	1,212.0	1,275.1	1,221.0	54.11	23.564		
5,600.0	5,266.8	5,453.5	5,266.8	37.7	26.0	-135.96	-73.5	1,212.2	1,294.9	1,240.6	54.30	23.849		
5,700.0	5,363.9	5,550.6	5,363.9	38.1	26.1	-136.92	-73.5	1,212.2	1,312.5	1,258.0	54.46	24.098		
5,800.0	5,461.8	5,648.4	5,461.8	38.5	26.2	-137.72	-73.5	1,212.2	1,327.7	1,273.1	54.62	24.307		
5,900.0	5,560.3	5,747.0	5,560.3	38.8	26.3	-138.38	-73.5	1,212.2	1,340.5	1,285.7	54.77	24.475		
6,000.0	5,659.3	5,846.0	5,659.3	39.0	26.4	-138.90	-73.5	1,212.2	1,350.7	1,295.8	54.91	24.600		
6,100.0	5,758.8	5,945.5	5,758.8	39.2	26.5	-139.28	-73.5	1,212.2	1,358.4	1,303.4	55.04	24.681		
6,200.0	5,858.6	6,045.3	5,858.6	39.4	26.6	-139.53	-73.5	1,212.2	1,363.5	1,308.4	55.16	24.717		
6,300.0	5,958.5	6,145.2	5,958.5	39.4	26.7	-139.65	-73.5	1,212.2	1,365.9	1,310.7	55.28	24.708		
6,341.5	6,000.0	6,186.7	6,000.0	39.5	26.8	-0.64	-73.5	1,212.2	1,366.2	1,310.8	55.34	24.689		
6,400.0	6,058.5	6,245.2	6,058.5	39.5	26.8	-0.64	-73.5	1,212.2	1,366.2	1,310.7	55.45	24.638		
6,500.0	6,158.5	6,345.2	6,158.5	39.6	26.9	-0.64	-73.5	1,212.2	1,366.2	1,310.5	55.65	24.552		
6,600.0	6,258.5	6,445.2	6,258.5	39.6	27.0	-0.64	-73.5	1,212.2	1,366.2	1,310.3	55.84	24.464		
6,700.0	6,358.5	6,545.2	6,358.5	39.7	27.1	-0.64	-73.5	1,212.2	1,366.2	1,310.1	56.05	24.376		

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 Gittlein 8-4
Project:	SEC.4-T1N-R67W	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Reference Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (11-28-11)	Offset TVD Reference:	Offset Datum

Offset Design												Gittlein 7-4 Pad Sec.4-T1N-R67W - Gittlein 1-4 - Wellbore #1 - Plan #1 (11-28-11)		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				
6,800.0	6,458.5	6,645.2	6,458.5	39.8	27.3	-0.64	-73.5	1,212.2	1,366.2	1,309.9	56.25	24.288				
6,900.0	6,558.5	6,745.2	6,558.5	39.8	27.4	-0.64	-73.5	1,212.2	1,366.2	1,309.7	56.46	24.199				
7,000.0	6,658.5	6,845.2	6,658.5	39.9	27.5	-0.64	-73.5	1,212.2	1,366.2	1,309.5	56.67	24.109				
7,100.0	6,758.5	6,945.2	6,758.5	40.0	27.6	-0.64	-73.5	1,212.2	1,366.2	1,309.3	56.88	24.019				
7,200.0	6,858.5	7,045.2	6,858.5	40.1	27.7	-0.64	-73.5	1,212.2	1,366.2	1,309.1	57.10	23.928				
7,300.0	6,958.5	7,145.2	6,958.5	40.1	27.8	-0.64	-73.5	1,212.2	1,366.2	1,308.9	57.31	23.837				
7,400.0	7,058.5	7,245.2	7,058.5	40.2	28.0	-0.64	-73.5	1,212.2	1,366.2	1,308.6	57.53	23.745				
7,500.0	7,158.5	7,345.2	7,158.5	40.3	28.1	-0.64	-73.5	1,212.2	1,366.2	1,308.4	57.76	23.653				
7,600.0	7,258.5	7,445.2	7,258.5	40.3	28.2	-0.64	-73.5	1,212.2	1,366.2	1,308.2	57.98	23.561				
7,700.0	7,358.5	7,545.2	7,358.5	40.4	28.3	-0.64	-73.5	1,212.2	1,366.2	1,308.0	58.21	23.469				
7,800.0	7,458.5	7,645.2	7,458.5	40.5	28.5	-0.64	-73.5	1,212.2	1,366.2	1,307.7	58.44	23.376				
7,900.0	7,558.5	7,745.2	7,558.5	40.6	28.6	-0.64	-73.5	1,212.2	1,366.2	1,307.5	58.68	23.283				
8,000.0	7,658.5	7,845.2	7,658.5	40.7	28.7	-0.64	-73.5	1,212.2	1,366.2	1,307.3	58.91	23.189				
8,100.0	7,758.5	7,945.2	7,758.5	40.7	28.8	-0.64	-73.5	1,212.2	1,366.2	1,307.0	59.15	23.096				
8,163.9	7,822.5	8,009.2	7,822.5	40.8	28.9	-0.64	-73.5	1,212.2	1,366.2	1,306.9	59.31	23.036				
8,201.5	7,860.0	8,036.7	7,850.0	40.8	29.0	-0.64	-73.5	1,212.2	1,366.2	1,306.8	59.38	23.006				
8,201.8	7,860.4	8,036.7	7,850.0	40.8	29.0	-0.64	-73.5	1,212.2	1,366.2	1,306.8	59.39	23.006				

Gittlein 7-4 Pad Sec.4-T1N-R67W - Gittlein 17-4 - Wellbore #1 - Plan #1 (11-28-11)													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	-89.96	0.0	-20.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.96	0.0	-20.1	20.1	19.9	0.22	89.633		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-20.1	20.1	19.5	0.67	29.878 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.6	109.70	0.0	-20.1	20.7	19.6	1.10	18.770		
400.0	399.8	399.8	399.8	0.8	0.8	122.04	0.0	-20.1	23.0	21.4	1.54	14.962		
500.0	499.5	499.5	499.5	1.0	1.0	145.57	0.0	-20.1	29.0	27.0	2.00	14.530 SF		
600.0	598.8	598.8	598.8	1.3	1.2	159.74	0.0	-20.1	39.5	37.1	2.46	16.066		
700.0	697.6	697.6	697.6	1.6	1.5	167.98	0.0	-20.1	54.1	51.1	2.92	18.504		
800.0	795.9	795.9	795.9	2.0	1.7	172.85	0.0	-20.1	72.3	68.9	3.38	21.368		
900.0	893.5	893.5	893.5	2.4	1.9	175.84	0.0	-20.1	94.0	90.1	3.84	24.448		
1,000.0	990.3	990.3	990.3	2.9	2.1	177.74	0.0	-20.1	119.1	114.8	4.31	27.647		
1,100.0	1,086.1	1,090.8	1,090.7	3.5	2.3	178.98	-1.1	-19.3	146.2	141.4	4.75	30.752		
1,200.0	1,180.9	1,192.7	1,192.6	4.1	2.5	179.75	-5.1	-16.2	173.3	168.1	5.18	33.442		
1,300.0	1,274.6	1,295.7	1,295.2	4.8	2.7	-179.79	-12.1	-10.9	200.2	194.6	5.62	35.608		
1,328.5	1,301.1	1,325.3	1,324.6	5.0	2.8	-179.70	-14.6	-8.9	207.9	202.2	5.75	36.131		
1,400.0	1,367.3	1,400.0	1,398.7	5.6	2.9	-179.87	-22.1	-3.2	226.2	220.1	6.11	37.032		
1,500.0	1,460.0	1,506.2	1,503.6	6.3	3.2	179.88	-35.4	7.0	248.8	242.2	6.63	37.529		
1,600.0	1,552.6	1,614.1	1,609.4	7.1	3.6	179.61	-52.0	19.8	267.7	260.5	7.17	37.315		
1,700.0	1,645.3	1,723.5	1,715.8	7.9	4.0	179.33	-72.0	35.2	282.9	275.2	7.74	36.536		
1,800.0	1,737.9	1,828.2	1,816.8	8.6	4.4	179.03	-93.9	52.0	294.8	286.5	8.33	35.411		
1,900.0	1,830.6	1,927.5	1,912.5	9.4	4.9	178.76	-115.1	68.3	306.2	297.3	8.91	34.374		
2,000.0	1,923.3	2,026.9	2,008.2	10.2	5.3	178.52	-136.2	84.5	317.7	308.2	9.50	33.444		
2,100.0	2,015.9	2,126.2	2,103.9	11.0	5.8	178.29	-157.3	100.7	329.1	319.0	10.10	32.583		
2,200.0	2,108.6	2,225.5	2,199.6	11.8	6.4	178.08	-178.5	117.0	340.6	329.9	10.71	31.802		
2,300.0	2,201.2	2,324.9	2,295.3	12.6	6.9	177.88	-199.6	133.2	352.0	340.7	11.32	31.090		
2,400.0	2,293.9	2,424.2	2,391.0	13.3	7.4	177.69	-220.8	149.4	363.5	351.6	11.94	30.438		
2,500.0	2,386.6	2,523.5	2,486.7	14.1	7.9	177.51	-241.9	165.7	375.0	362.4	12.57	29.841		
2,600.0	2,479.2	2,622.9	2,582.4	14.9	8.5	177.35	-263.0	181.9	386.4	373.2	13.19	29.293		
2,700.0	2,571.9	2,722.2	2,678.0	15.7	9.0	177.19	-284.2	198.2	397.9	384.1	13.82	28.787		
2,800.0	2,664.5	2,821.5	2,773.7	16.5	9.6	177.04	-305.3	214.4	409.4	394.9	14.46	28.319		
2,900.0	2,757.2	2,920.9	2,869.4	17.3	10.1	176.90	-326.5	230.6	420.8	405.7	15.09	27.886		
3,000.0	2,849.9	3,020.2	2,965.1	18.1	10.7	176.77	-347.6	246.9	432.3	416.6	15.73	27.484		
3,100.0	2,942.5	3,119.5	3,060.8	18.9	11.2	176.65	-368.7	263.1	443.8	427.4	16.37	27.110		
3,200.0	3,035.2	3,218.9	3,156.5	19.7	11.8	176.53	-389.9	279.3	455.3	438.3	17.01	26.761		
3,300.0	3,127.9	3,318.2	3,252.2	20.5	12.3	176.42	-411.0	295.6	466.8	449.1	17.66	26.435		
3,400.0	3,220.5	3,417.5	3,347.9	21.3	12.9	176.31	-432.1	311.8	478.2	459.9	18.30	26.129		
3,500.0	3,313.2	3,516.9	3,443.6	22.0	13.4	176.21	-453.3	328.0	489.7	470.8	18.95	25.843		
3,600.0	3,405.8	3,616.2	3,539.3	22.8	14.0	176.11	-474.4	344.3	501.2	481.6	19.60	25.573		
3,700.0	3,498.5	3,715.5	3,635.0	23.6	14.6	176.02	-495.6	360.5	512.7	492.5	20.25	25.320		
3,800.0	3,591.2	3,814.9	3,730.7	24.4	15.1	175.93	-516.7	376.8	524.2	503.3	20.90	25.080		
3,900.0	3,683.8	3,914.2	3,826.3	25.2	15.7	175.84	-537.8	393.0	535.7	514.1	21.55	24.854		
4,000.0	3,776.5	4,013.6	3,922.0	26.0	16.2	175.76	-559.0	409.2	547.2	525.0	22.21	24.641		
4,100.0	3,869.1	4,112.9	4,017.7	26.8	16.8	175.68	-580.1	425.5	558.7	535.8	22.86	24.438		
4,200.0	3,961.8	4,212.2	4,113.4	27.6	17.4	175.61	-601.3	441.7	570.2	546.6	23.52	24.246		
4,300.0	4,054.5	4,311.6	4,209.1	28.4	17.9	175.53	-622.4	457.9	581.7	557.5	24.17	24.063		
4,400.0	4,147.1	4,410.9	4,304.8	29.2	18.5	175.46	-643.5	474.2	593.2	568.3	24.83	23.890		
4,500.0	4,239.8	4,510.2	4,400.5	30.0	19.1	175.40	-664.7	490.4	604.7	579.2	25.49	23.725		
4,600.0	4,332.4	4,600.0	4,487.1	30.8	19.5	175.35	-683.3	504.7	616.8	590.7	26.10	23.631		
4,700.0	4,425.1	4,679.1	4,564.0	31.6	19.8	175.33	-698.1	516.1	631.6	604.9	26.65	23.696		
4,800.0	4,517.8	4,759.7	4,642.8	32.4	20.1	175.34	-711.4	526.3	649.2	622.0	27.20	23.868		
4,900.0	4,610.4	4,839.4	4,721.2	33.1	20.4	175.38	-722.8	535.1	669.4	641.7	27.73	24.143		

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Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Gittlein 8-4
Project:	SEC.4-T1N-R67W	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Reference Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (11-28-11)	Offset TVD Reference:	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 +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,703.1	4,918.2	4,799.1	33.9	20.6	175.45	-732.4	542.5	692.4	664.1	28.24	24.515		
5,100.0	4,795.8	5,000.0	4,880.2	34.7	20.8	175.53	-740.6	548.7	718.0	689.2	28.75	24.970		
5,200.0	4,888.4	5,072.5	4,952.3	35.5	20.9	175.63	-746.3	553.1	746.1	716.9	29.23	25.524		
5,237.1	4,922.8	5,100.0	4,979.8	35.8	21.0	175.66	-748.1	554.5	757.2	727.8	29.41	25.746		
5,300.0	4,981.3	5,148.0	5,027.6	36.2	21.1	175.76	-750.7	556.5	776.1	746.4	29.73	26.103		
5,400.0	5,075.4	5,223.0	5,102.6	36.8	21.2	175.91	-753.5	558.6	805.6	775.4	30.19	26.685		
5,500.0	5,170.6	5,300.0	5,179.6	37.3	21.3	176.06	-754.7	559.6	834.1	803.5	30.59	27.267		
5,600.0	5,266.8	5,387.2	5,266.8	37.7	21.4	176.21	-754.8	559.6	861.2	830.3	30.96	27.814		
5,700.0	5,363.9	5,484.3	5,363.9	38.1	21.5	176.34	-754.8	559.6	885.1	853.8	31.30	28.277		
5,800.0	5,461.8	5,582.2	5,461.8	38.5	21.6	176.45	-754.8	559.6	905.5	873.9	31.59	28.661		
5,900.0	5,560.3	5,680.7	5,560.3	38.8	21.7	176.54	-754.8	559.6	922.6	890.7	31.85	28.970		
6,000.0	5,659.3	5,779.8	5,659.3	39.0	21.8	176.61	-754.8	559.6	936.2	904.1	32.05	29.207		
6,100.0	5,758.8	5,879.3	5,758.8	39.2	21.9	176.65	-754.8	559.6	946.3	914.1	32.21	29.375		
6,200.0	5,858.6	5,979.0	5,858.6	39.4	22.0	176.69	-754.8	559.6	953.0	920.6	32.33	29.475		
6,300.0	5,958.5	6,079.0	5,958.5	39.4	22.1	176.70	-754.8	559.6	956.2	923.8	32.40	29.508		
6,341.5	6,000.0	6,120.4	6,000.0	39.5	22.2	-44.27	-754.8	559.6	956.5	924.0	32.42	29.498		
6,400.0	6,058.5	6,179.0	6,058.5	39.5	22.3	-44.27	-754.8	559.6	956.5	923.9	32.61	29.332		
6,500.0	6,158.5	6,279.0	6,158.5	39.6	22.4	-44.27	-754.8	559.6	956.5	923.5	32.91	29.059		
6,600.0	6,258.5	6,379.0	6,258.5	39.6	22.5	-44.27	-754.8	559.6	956.5	923.2	33.22	28.788		
6,700.0	6,358.5	6,479.0	6,358.5	39.7	22.6	-44.27	-754.8	559.6	956.5	922.9	33.54	28.519		
6,800.0	6,458.5	6,579.0	6,458.5	39.8	22.7	-44.27	-754.8	559.6	956.5	922.6	33.85	28.253		
6,900.0	6,558.5	6,679.0	6,558.5	39.8	22.9	-44.27	-754.8	559.6	956.5	922.3	34.17	27.990		
7,000.0	6,658.5	6,779.0	6,658.5	39.9	23.0	-44.27	-754.8	559.6	956.5	922.0	34.49	27.729		
7,100.0	6,758.5	6,879.0	6,758.5	40.0	23.1	-44.27	-754.8	559.6	956.5	921.6	34.82	27.471		
7,200.0	6,858.5	6,979.0	6,858.5	40.1	23.2	-44.27	-754.8	559.6	956.5	921.3	35.14	27.216		
7,300.0	6,958.5	7,079.0	6,958.5	40.1	23.4	-44.27	-754.8	559.6	956.5	921.0	35.47	26.963		
7,400.0	7,058.5	7,179.0	7,058.5	40.2	23.5	-44.27	-754.8	559.6	956.5	920.7	35.80	26.713		
7,500.0	7,158.5	7,279.0	7,158.5	40.3	23.6	-44.27	-754.8	559.6	956.5	920.3	36.14	26.466		
7,600.0	7,258.5	7,379.0	7,258.5	40.3	23.8	-44.27	-754.8	559.6	956.5	920.0	36.48	26.222		
7,700.0	7,358.5	7,479.0	7,358.5	40.4	23.9	-44.27	-754.8	559.6	956.5	919.6	36.81	25.981		
7,800.0	7,458.5	7,579.0	7,458.5	40.5	24.0	-44.27	-754.8	559.6	956.5	919.3	37.16	25.742		
7,900.0	7,558.5	7,679.0	7,558.5	40.6	24.2	-44.27	-754.8	559.6	956.5	919.0	37.50	25.507		
8,000.0	7,658.5	7,779.0	7,658.5	40.7	24.3	-44.27	-754.8	559.6	956.5	918.6	37.84	25.274		
8,100.0	7,758.5	7,879.0	7,758.5	40.7	24.5	-44.27	-754.8	559.6	956.5	918.3	38.19	25.044		
8,201.5	7,860.0	7,980.4	7,860.0	40.8	24.6	-44.27	-754.8	559.6	956.5	917.9	38.55	24.814		
8,201.8	7,860.4	7,980.4	7,860.0	40.8	24.6	-44.27	-754.8	559.6	956.5	917.9	38.55	24.813		

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Gittlein 8-4
Project:	SEC.4-T1N-R67W	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Reference Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (11-28-11)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5018.0ft (Original Well Elev) Coordinates are relative to: Gittlein 8-4
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: 0.39°



Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Gittlein 8-4
Project:	SEC.4-T1N-R67W	TVD Reference:	WELL @ 5018.0ft (Original Well Elev)
Reference Site:	Gittlein 7-4 Pad Sec.4-T1N-R67W	MD Reference:	WELL @ 5018.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gittlein 8-4	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (11-28-11)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5018.0ft (Original Well Elev) Coordinates are relative to: Gittlein 8-4
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Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.39°

