ENSIGN Directional

Well Name: Kaiser 921-10

Surface Location: Kaiser Pad Sec.10-T6N-R65W

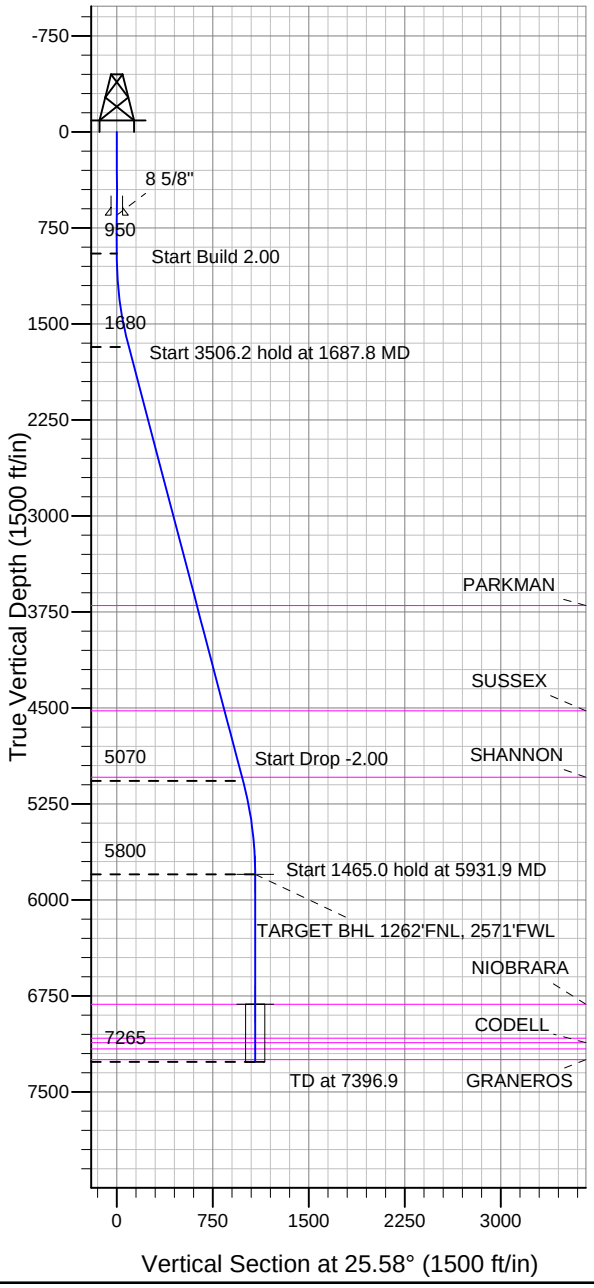
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

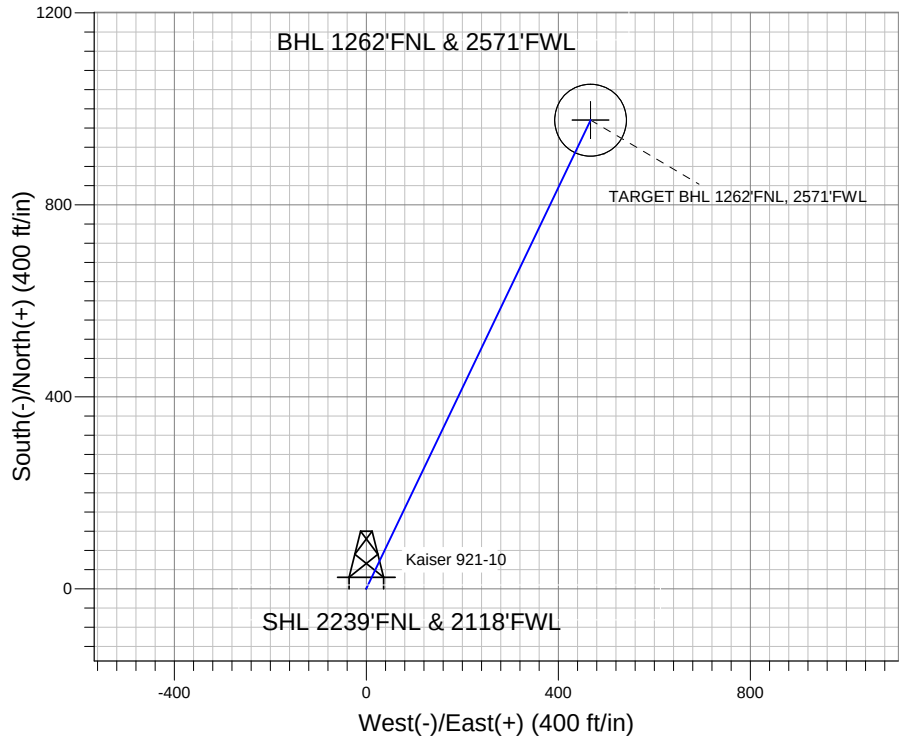
Ground Elevation: 4773.0

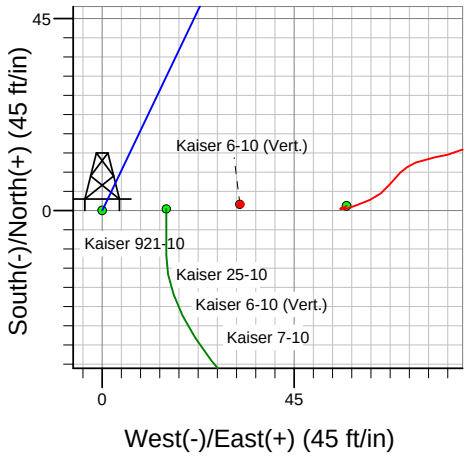
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1426987.55	3235996.42	40.502382	-104.651353	

Original Well Elev WELL @ 4789.0ft (Original Well Elev)

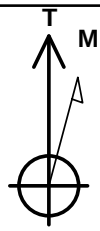
BAYSWATER EXPLORATION & PRODUCTION







Kaiser Pad Sec.10-T6N-R65W
Kaiser 921-10
Plan #1 (9-24-12)



Azimuths to True North
Magnetic North: 8.64°

Magnetic Field
Strength: 53062.7snT
Dip Angle: 67.11°
Date: 9/24/2012
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1262'FNL, 2571'FWL	5800.0	976.0	467.2	40.505061	-104.649673	Point
TARGET CIRCLE 1262'FNL, 2571'FWL	6815.0	976.0	467.2	40.505061	-104.649673	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	950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.0	
3	1687.8	14.76	25.58	1679.7	85.2	40.8	2.00	25.58	94.5	
4	5194.1	14.76	25.58	5070.3	890.8	426.4	0.00	0.00	987.6	
5	5931.9	0.00	0.00	5800.0	976.0	467.2	2.00	180.00	1082.1	TARGET BHL 1262'FNL, 2571'FWL
6	7396.9	0.00	0.00	7265.0	976.0	467.2	0.00	0.00	1082.1	

ENSIGN Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.10-T6N-R65W
Kaiser Pad Sec.10-T6N-R65W
Kaiser 921-10

Wellbore #1

Plan: Plan #1 (9-24-12)

Standard Planning Report

24 September, 2012

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kaiser 921-10
Company:	BAYSWATER EXPLORATION & PRODUCTION	**TVD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Project:	SEC.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site:	Kaiser Pad Sec.10-T6N-R65W	**North Reference:**	True
Well:	Kaiser 921-10	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-24-12)		

Project SEC.10-T6N-R65W

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 Kaiser Pad Sec.10-T6N-R65W

Site Position:		**Northing:**	1,426,989.20 ft	**Latitude:**	40.502385
From:	Lat/Long	**Easting:**	3,236,053.70 ft	**Longitude:**	-104.651147
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.55 °

Well Kaiser 921-10

Well Position	**+N/-S**	-1.1 ft	**Northing:**	1,426,987.55 ft	**Latitude:**	40.502382
	+E/-W	-57.3 ft	**Easting:**	3,235,996.42 ft	**Longitude:**	-104.651353
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,773.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/24/2012	8.64	67.11	53,063

Design Plan #1 (9-24-12)

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	25.58

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	
950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,687.8	14.76	25.58	1,679.7	85.2	40.8	2.00	2.00	0.00	25.58	
5,194.1	14.76	25.58	5,070.3	890.8	426.4	0.00	0.00	0.00	0.00	
5,931.9	0.00	0.00	5,800.0	976.0	467.2	2.00	-2.00	0.00	180.00	TARGET BHL 1262
7,396.9	0.00	0.00	7,265.0	976.0	467.2	0.00	0.00	0.00	0.00	

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kaiser 921-10
Company:	BAYSWATER EXPLORATION & PRODUCTION	**TVD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Project:	SEC.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site:	Kaiser Pad Sec.10-T6N-R65W	**North Reference:**	True
Well:	Kaiser 921-10	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-24-12)		

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	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
8 5/8"									
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
950.0	0.00	0.00	950.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.20	25.58	960.0	0.0	0.0	0.0	2.00	2.00	0.00
1,000.0	1.00	25.58	1,000.0	0.4	0.2	0.4	2.00	2.00	0.00
1,040.0	1.80	25.58	1,040.0	1.3	0.6	1.4	2.00	2.00	0.00
1,080.0	2.60	25.58	1,080.0	2.7	1.3	2.9	2.00	2.00	0.00
1,120.0	3.40	25.58	1,119.9	4.5	2.2	5.0	2.00	2.00	0.00
1,160.0	4.20	25.58	1,159.8	6.9	3.3	7.7	2.00	2.00	0.00
1,200.0	5.00	25.58	1,199.7	9.8	4.7	10.9	2.00	2.00	0.00
1,240.0	5.80	25.58	1,239.5	13.2	6.3	14.7	2.00	2.00	0.00
1,280.0	6.60	25.58	1,279.3	17.1	8.2	19.0	2.00	2.00	0.00
1,320.0	7.40	25.58	1,319.0	21.5	10.3	23.9	2.00	2.00	0.00
1,360.0	8.20	25.58	1,358.6	26.4	12.6	29.3	2.00	2.00	0.00
1,400.0	9.00	25.58	1,398.2	31.8	15.2	35.3	2.00	2.00	0.00
1,440.0	9.80	25.58	1,437.6	37.7	18.0	41.8	2.00	2.00	0.00
1,480.0	10.60	25.58	1,477.0	44.1	21.1	48.9	2.00	2.00	0.00
1,520.0	11.40	25.58	1,516.2	51.0	24.4	56.5	2.00	2.00	0.00
1,560.0	12.20	25.58	1,555.4	58.4	27.9	64.7	2.00	2.00	0.00
1,600.0	13.00	25.58	1,594.4	66.2	31.7	73.4	2.00	2.00	0.00
1,640.0	13.80	25.58	1,633.3	74.6	35.7	82.7	2.00	2.00	0.00
1,680.0	14.60	25.58	1,672.1	83.4	39.9	92.5	2.00	2.00	0.00
1,687.8	14.76	25.58	1,679.7	85.2	40.8	94.5	2.00	2.00	0.00
1,720.0	14.76	25.58	1,710.8	92.6	44.3	102.7	0.00	0.00	0.00
1,760.0	14.76	25.58	1,749.5	101.8	48.7	112.9	0.00	0.00	0.00
1,800.0	14.76	25.58	1,788.2	111.0	53.1	123.1	0.00	0.00	0.00
1,840.0	14.76	25.58	1,826.9	120.2	57.5	133.3	0.00	0.00	0.00
1,880.0	14.76	25.58	1,865.5	129.4	61.9	143.4	0.00	0.00	0.00
1,920.0	14.76	25.58	1,904.2	138.6	66.3	153.6	0.00	0.00	0.00

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Project:	SEC.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site:	Kaiser Pad Sec.10-T6N-R65W	**North Reference:**	True
Well:	Kaiser 921-10	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-24-12)		

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)
1,960.0	14.76	25.58	1,942.9	147.8	70.7	163.8	0.00	0.00	0.00
2,000.0	14.76	25.58	1,981.6	157.0	75.1	174.0	0.00	0.00	0.00
2,040.0	14.76	25.58	2,020.3	166.1	79.5	184.2	0.00	0.00	0.00
2,080.0	14.76	25.58	2,058.9	175.3	83.9	194.4	0.00	0.00	0.00
2,120.0	14.76	25.58	2,097.6	184.5	88.3	204.6	0.00	0.00	0.00
2,160.0	14.76	25.58	2,136.3	193.7	92.7	214.8	0.00	0.00	0.00
2,200.0	14.76	25.58	2,175.0	202.9	97.1	224.9	0.00	0.00	0.00
2,240.0	14.76	25.58	2,213.7	212.1	101.5	235.1	0.00	0.00	0.00
2,280.0	14.76	25.58	2,252.3	221.3	105.9	245.3	0.00	0.00	0.00
2,320.0	14.76	25.58	2,291.0	230.5	110.3	255.5	0.00	0.00	0.00
2,360.0	14.76	25.58	2,329.7	239.7	114.7	265.7	0.00	0.00	0.00
2,400.0	14.76	25.58	2,368.4	248.9	119.1	275.9	0.00	0.00	0.00
2,440.0	14.76	25.58	2,407.1	258.0	123.5	286.1	0.00	0.00	0.00
2,480.0	14.76	25.58	2,445.7	267.2	127.9	296.3	0.00	0.00	0.00
2,520.0	14.76	25.58	2,484.4	276.4	132.3	306.5	0.00	0.00	0.00
2,560.0	14.76	25.58	2,523.1	285.6	136.7	316.6	0.00	0.00	0.00
2,600.0	14.76	25.58	2,561.8	294.8	141.1	326.8	0.00	0.00	0.00
2,640.0	14.76	25.58	2,600.5	304.0	145.5	337.0	0.00	0.00	0.00
2,680.0	14.76	25.58	2,639.1	313.2	149.9	347.2	0.00	0.00	0.00
2,720.0	14.76	25.58	2,677.8	322.4	154.3	357.4	0.00	0.00	0.00
2,760.0	14.76	25.58	2,716.5	331.6	158.7	367.6	0.00	0.00	0.00
2,800.0	14.76	25.58	2,755.2	340.8	163.1	377.8	0.00	0.00	0.00
2,840.0	14.76	25.58	2,793.9	349.9	167.5	388.0	0.00	0.00	0.00
2,880.0	14.76	25.58	2,832.5	359.1	171.9	398.2	0.00	0.00	0.00
2,920.0	14.76	25.58	2,871.2	368.3	176.3	408.3	0.00	0.00	0.00
2,960.0	14.76	25.58	2,909.9	377.5	180.7	418.5	0.00	0.00	0.00
3,000.0	14.76	25.58	2,948.6	386.7	185.1	428.7	0.00	0.00	0.00
3,040.0	14.76	25.58	2,987.3	395.9	189.5	438.9	0.00	0.00	0.00
3,080.0	14.76	25.58	3,026.0	405.1	193.9	449.1	0.00	0.00	0.00
3,120.0	14.76	25.58	3,064.6	414.3	198.3	459.3	0.00	0.00	0.00
3,160.0	14.76	25.58	3,103.3	423.5	202.7	469.5	0.00	0.00	0.00
3,200.0	14.76	25.58	3,142.0	432.7	207.1	479.7	0.00	0.00	0.00
3,240.0	14.76	25.58	3,180.7	441.8	211.5	489.9	0.00	0.00	0.00
3,280.0	14.76	25.58	3,219.4	451.0	215.9	500.0	0.00	0.00	0.00
3,320.0	14.76	25.58	3,258.0	460.2	220.3	510.2	0.00	0.00	0.00
3,360.0	14.76	25.58	3,296.7	469.4	224.7	520.4	0.00	0.00	0.00
3,400.0	14.76	25.58	3,335.4	478.6	229.1	530.6	0.00	0.00	0.00
3,440.0	14.76	25.58	3,374.1	487.8	233.5	540.8	0.00	0.00	0.00
3,480.0	14.76	25.58	3,412.8	497.0	237.9	551.0	0.00	0.00	0.00
3,520.0	14.76	25.58	3,451.4	506.2	242.3	561.2	0.00	0.00	0.00
3,560.0	14.76	25.58	3,490.1	515.4	246.7	571.4	0.00	0.00	0.00
3,600.0	14.76	25.58	3,528.8	524.6	251.1	581.5	0.00	0.00	0.00
3,640.0	14.76	25.58	3,567.5	533.7	255.5	591.7	0.00	0.00	0.00
3,680.0	14.76	25.58	3,606.2	542.9	259.9	601.9	0.00	0.00	0.00
3,720.0	14.76	25.58	3,644.8	552.1	264.3	612.1	0.00	0.00	0.00
3,760.0	14.76	25.58	3,683.5	561.3	268.7	622.3	0.00	0.00	0.00
3,777.0	14.76	25.58	3,700.0	565.2	270.6	626.6	0.00	0.00	0.00
PARKMAN									
3,800.0	14.76	25.58	3,722.2	570.5	273.1	632.5	0.00	0.00	0.00
3,840.0	14.76	25.58	3,760.9	579.7	277.5	642.7	0.00	0.00	0.00
3,880.0	14.76	25.58	3,799.6	588.9	281.9	652.9	0.00	0.00	0.00
3,920.0	14.76	25.58	3,838.2	598.1	286.3	663.1	0.00	0.00	0.00
3,960.0	14.76	25.58	3,876.9	607.3	290.7	673.2	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kaiser 921-10
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Project:	SEC.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site:	Kaiser Pad Sec.10-T6N-R65W	**North Reference:**	True
Well:	Kaiser 921-10	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-24-12)		

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)
4,000.0	14.76	25.58	3,915.6	616.5	295.1	683.4	0.00	0.00	0.00
4,040.0	14.76	25.58	3,954.3	625.6	299.5	693.6	0.00	0.00	0.00
4,080.0	14.76	25.58	3,993.0	634.8	303.9	703.8	0.00	0.00	0.00
4,120.0	14.76	25.58	4,031.6	644.0	308.3	714.0	0.00	0.00	0.00
4,160.0	14.76	25.58	4,070.3	653.2	312.7	724.2	0.00	0.00	0.00
4,200.0	14.76	25.58	4,109.0	662.4	317.1	734.4	0.00	0.00	0.00
4,240.0	14.76	25.58	4,147.7	671.6	321.5	744.6	0.00	0.00	0.00
4,280.0	14.76	25.58	4,186.4	680.8	325.9	754.8	0.00	0.00	0.00
4,320.0	14.76	25.58	4,225.1	690.0	330.3	764.9	0.00	0.00	0.00
4,360.0	14.76	25.58	4,263.7	699.2	334.7	775.1	0.00	0.00	0.00
4,400.0	14.76	25.58	4,302.4	708.4	339.1	785.3	0.00	0.00	0.00
4,440.0	14.76	25.58	4,341.1	717.5	343.5	795.5	0.00	0.00	0.00
4,480.0	14.76	25.58	4,379.8	726.7	347.9	805.7	0.00	0.00	0.00
4,520.0	14.76	25.58	4,418.5	735.9	352.3	815.9	0.00	0.00	0.00
4,560.0	14.76	25.58	4,457.1	745.1	356.7	826.1	0.00	0.00	0.00
4,600.0	14.76	25.58	4,495.8	754.3	361.1	836.3	0.00	0.00	0.00
4,627.1	14.76	25.58	4,522.0	760.5	364.0	843.2	0.00	0.00	0.00
SUSSEX									
4,640.0	14.76	25.58	4,534.5	763.5	365.5	846.5	0.00	0.00	0.00
4,680.0	14.76	25.58	4,573.2	772.7	369.9	856.6	0.00	0.00	0.00
4,720.0	14.76	25.58	4,611.9	781.9	374.3	866.8	0.00	0.00	0.00
4,760.0	14.76	25.58	4,650.5	791.1	378.7	877.0	0.00	0.00	0.00
4,800.0	14.76	25.58	4,689.2	800.3	383.1	887.2	0.00	0.00	0.00
4,840.0	14.76	25.58	4,727.9	809.4	387.5	897.4	0.00	0.00	0.00
4,880.0	14.76	25.58	4,766.6	818.6	391.9	907.6	0.00	0.00	0.00
4,920.0	14.76	25.58	4,805.3	827.8	396.3	917.8	0.00	0.00	0.00
4,960.0	14.76	25.58	4,843.9	837.0	400.6	928.0	0.00	0.00	0.00
5,000.0	14.76	25.58	4,882.6	846.2	405.0	938.1	0.00	0.00	0.00
5,040.0	14.76	25.58	4,921.3	855.4	409.4	948.3	0.00	0.00	0.00
5,080.0	14.76	25.58	4,960.0	864.6	413.8	958.5	0.00	0.00	0.00
5,120.0	14.76	25.58	4,998.7	873.8	418.2	968.7	0.00	0.00	0.00
5,160.0	14.76	25.58	5,037.3	883.0	422.6	978.9	0.00	0.00	0.00
5,163.8	14.76	25.58	5,041.0	883.8	423.1	979.9	0.00	0.00	0.00
SHANNON									
5,194.1	14.76	25.58	5,070.3	890.8	426.4	987.6	0.00	0.00	0.00
5,200.0	14.64	25.58	5,076.0	892.1	427.0	989.1	2.00	-2.00	0.00
5,240.0	13.84	25.58	5,114.8	901.0	431.3	998.9	2.00	-2.00	0.00
5,280.0	13.04	25.58	5,153.7	909.4	435.3	1,008.2	2.00	-2.00	0.00
5,320.0	12.24	25.58	5,192.7	917.3	439.1	1,017.0	2.00	-2.00	0.00
5,360.0	11.44	25.58	5,231.9	924.7	442.6	1,025.2	2.00	-2.00	0.00
5,400.0	10.64	25.58	5,271.1	931.6	445.9	1,032.8	2.00	-2.00	0.00
5,440.0	9.84	25.58	5,310.5	938.0	449.0	1,039.9	2.00	-2.00	0.00
5,480.0	9.04	25.58	5,350.0	943.9	451.8	1,046.5	2.00	-2.00	0.00
5,520.0	8.24	25.58	5,389.5	949.4	454.4	1,052.5	2.00	-2.00	0.00
5,560.0	7.44	25.58	5,429.1	954.3	456.8	1,058.0	2.00	-2.00	0.00
5,600.0	6.64	25.58	5,468.8	958.7	458.9	1,062.9	2.00	-2.00	0.00
5,640.0	5.84	25.58	5,508.6	962.6	460.8	1,067.2	2.00	-2.00	0.00
5,680.0	5.04	25.58	5,548.4	966.0	462.4	1,071.0	2.00	-2.00	0.00
5,720.0	4.24	25.58	5,588.3	969.0	463.8	1,074.2	2.00	-2.00	0.00
5,760.0	3.44	25.58	5,628.2	971.4	465.0	1,076.9	2.00	-2.00	0.00
5,800.0	2.64	25.58	5,668.1	973.3	465.9	1,079.0	2.00	-2.00	0.00
5,840.0	1.84	25.58	5,708.1	974.7	466.6	1,080.6	2.00	-2.00	0.00
5,880.0	1.04	25.58	5,748.1	975.6	467.0	1,081.6	2.00	-2.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kaiser 921-10
Company:	BAYSWATER EXPLORATION & PRODUCTION	**TVD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Project:	SEC.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site:	Kaiser Pad Sec.10-T6N-R65W	**North Reference:**	True
Well:	Kaiser 921-10	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-24-12)		

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)
5,920.0	0.24	25.58	5,788.1	976.0	467.2	1,082.0	2.00	-2.00	0.00
5,931.9	0.00	0.00	5,800.0	976.0	467.2	1,082.1	2.00	-2.00	0.00
5,960.0	0.00	0.00	5,828.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,868.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,040.0	0.00	0.00	5,908.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,080.0	0.00	0.00	5,948.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,120.0	0.00	0.00	5,988.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,160.0	0.00	0.00	6,028.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,068.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,240.0	0.00	0.00	6,108.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,280.0	0.00	0.00	6,148.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,320.0	0.00	0.00	6,188.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,360.0	0.00	0.00	6,228.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,268.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,440.0	0.00	0.00	6,308.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,480.0	0.00	0.00	6,348.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,520.0	0.00	0.00	6,388.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,560.0	0.00	0.00	6,428.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,468.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,640.0	0.00	0.00	6,508.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,680.0	0.00	0.00	6,548.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,720.0	0.00	0.00	6,588.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,760.0	0.00	0.00	6,628.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,668.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,840.0	0.00	0.00	6,708.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,880.0	0.00	0.00	6,748.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,920.0	0.00	0.00	6,788.1	976.0	467.2	1,082.1	0.00	0.00	0.00
6,946.9	0.00	0.00	6,815.0	976.0	467.2	1,082.1	0.00	0.00	0.00
NIOBRARA									
6,960.0	0.00	0.00	6,828.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,868.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,040.0	0.00	0.00	6,908.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,080.0	0.00	0.00	6,948.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,120.0	0.00	0.00	6,988.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,160.0	0.00	0.00	7,028.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,068.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,211.9	0.00	0.00	7,080.0	976.0	467.2	1,082.1	0.00	0.00	0.00
FORT HAYS									
7,240.0	0.00	0.00	7,108.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,245.9	0.00	0.00	7,114.0	976.0	467.2	1,082.1	0.00	0.00	0.00
CODELL									
7,280.0	0.00	0.00	7,148.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,295.9	0.00	0.00	7,164.0	976.0	467.2	1,082.1	0.00	0.00	0.00
GREENHORN									
7,320.0	0.00	0.00	7,188.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,360.0	0.00	0.00	7,228.1	976.0	467.2	1,082.1	0.00	0.00	0.00
7,379.9	0.00	0.00	7,248.0	976.0	467.2	1,082.1	0.00	0.00	0.00
GRANEROS									
7,396.9	0.00	0.00	7,265.0	976.0	467.2	1,082.1	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kaiser 921-10
Company:	BAYSWATER EXPLORATION & PRODUCTION	**TVD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Project:	SEC.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site:	Kaiser Pad Sec.10-T6N-R65W	**North Reference:**	True
Well:	Kaiser 921-10	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-24-12)		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
650.0	650.0	8 5/8"	8-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,777.0	3,700.0	PARKMAN		0.00	
4,627.1	4,522.0	SUSSEX		0.00	
5,163.8	5,041.0	SHANNON		0.00	
6,946.9	6,815.0	NIOBRARA		0.00	
7,211.9	7,080.0	FORT HAYS		0.00	
7,245.9	7,114.0	CODELL		0.00	
7,295.9	7,164.0	GREENHORN		0.00	
7,379.9	7,248.0	GRANEROS		0.00	

ENSIGN Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.10-T6N-R65W
Kaiser Pad Sec.10-T6N-R65W
Kaiser 921-10

Wellbore #1
Plan #1 (9-24-12)

Anticollision Report

24 September, 2012

Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Kaiser 921-10
Project:	SEC.10-T6N-R65W	**TVD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Reference Site:	Kaiser Pad Sec.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kaiser 921-10	**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 (9-24-12)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 (9-24-12)

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

Survey Tool Program **Date** 9/24/2012

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	7,396.9	Plan #1 (9-24-12) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Kaiser Pad Sec.10-T6N-R65W						
Kaiser 25-10 - Wellbore #1 - Plan #1 (9-24-12)	800.0	800.0	15.0	11.7	4.474	CC, ES
Kaiser 25-10 - Wellbore #1 - Plan #1 (9-24-12)	900.0	899.9	15.4	11.7	4.109	SF

Offset Design Kaiser Pad Sec.10-T6N-R65W - Kaiser 25-10 - Wellbore #1 - Plan #1 (9-24-12)

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	88.61	0.4	15.0	15.0	15.0	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	88.61	0.4	15.0	15.0	14.8	0.22	66.833	
200.0	200.0	200.0	200.0	0.3	0.3	88.61	0.4	15.0	15.0	14.3	0.67	22.278	
300.0	300.0	300.0	300.0	0.6	0.6	88.61	0.4	15.0	15.0	13.9	1.12	13.367	
400.0	400.0	400.0	400.0	0.8	0.8	88.61	0.4	15.0	15.0	13.4	1.57	9.548	
500.0	500.0	500.0	500.0	1.0	1.0	88.61	0.4	15.0	15.0	13.0	2.02	7.426	
600.0	600.0	600.0	600.0	1.2	1.2	88.61	0.4	15.0	15.0	12.5	2.47	6.076	
700.0	700.0	700.0	700.0	1.5	1.5	88.61	0.4	15.0	15.0	12.1	2.92	5.141	
783.5	783.5	783.5	783.5	1.6	1.6	89.36	0.2	15.0	15.0	11.7	3.29	4.568	
800.0	800.0	800.0	800.0	1.7	1.7	90.27	-0.1	15.0	15.0	11.7	3.36	4.474	CC, ES
900.0	900.0	899.9	899.8	1.9	1.8	103.32	-3.6	15.0	15.4	11.7	3.76	4.109	SF
950.0	950.0	949.7	949.5	2.0	1.9	113.70	-6.6	15.0	16.4	12.4	3.96	4.140	
1,000.0	1,000.0	999.4	999.0	2.1	2.0	100.62	-10.5	15.0	18.4	14.2	4.17	4.415	
1,100.0	1,099.9	1,098.0	1,097.2	2.4	2.2	121.19	-19.5	16.6	27.6	23.0	4.60	5.998	
1,200.0	1,199.7	1,195.8	1,194.4	2.6	2.5	130.69	-29.3	21.5	42.9	37.9	5.04	8.521	
1,300.0	1,299.1	1,292.6	1,290.3	2.8	2.7	134.66	-39.9	29.4	63.2	57.7	5.48	11.522	
1,400.0	1,398.2	1,388.1	1,384.5	3.1	3.0	136.25	-51.2	40.3	87.8	81.8	5.94	14.783	
1,500.0	1,496.6	1,483.4	1,478.2	3.4	3.3	137.08	-63.0	53.6	116.2	109.8	6.41	18.121	
1,600.0	1,594.4	1,578.4	1,571.5	3.7	3.7	138.28	-74.9	67.0	147.2	140.3	6.90	21.331	
1,687.8	1,679.7	1,661.1	1,652.7	4.0	4.0	139.48	-85.2	78.6	176.6	169.3	7.35	24.031	
1,700.0	1,691.5	1,672.5	1,663.9	4.1	4.0	139.70	-86.6	80.2	180.8	173.4	7.42	24.383	
1,800.0	1,788.2	1,766.1	1,755.8	4.5	4.4	141.19	-98.2	93.4	215.5	207.6	7.97	27.031	
1,900.0	1,884.9	1,859.8	1,847.8	4.9	4.7	142.27	-109.9	106.6	250.3	241.8	8.55	29.284	
2,000.0	1,981.6	1,953.5	1,939.8	5.4	5.1	143.09	-121.6	119.8	285.2	276.0	9.14	31.211	

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

Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Kaiser 921-10
Project:	SEC.10-T6N-R65W	**TVD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Reference Site:	Kaiser Pad Sec.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kaiser 921-10	**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 (9-24-12)	**Offset TVD Reference:**	Offset Datum

Offset Design Kaiser Pad Sec.10-T6N-R65W - Kaiser 25-10 - Wellbore #1 - Plan #1 (9-24-12)

Offset Site Error: 0.0 ft

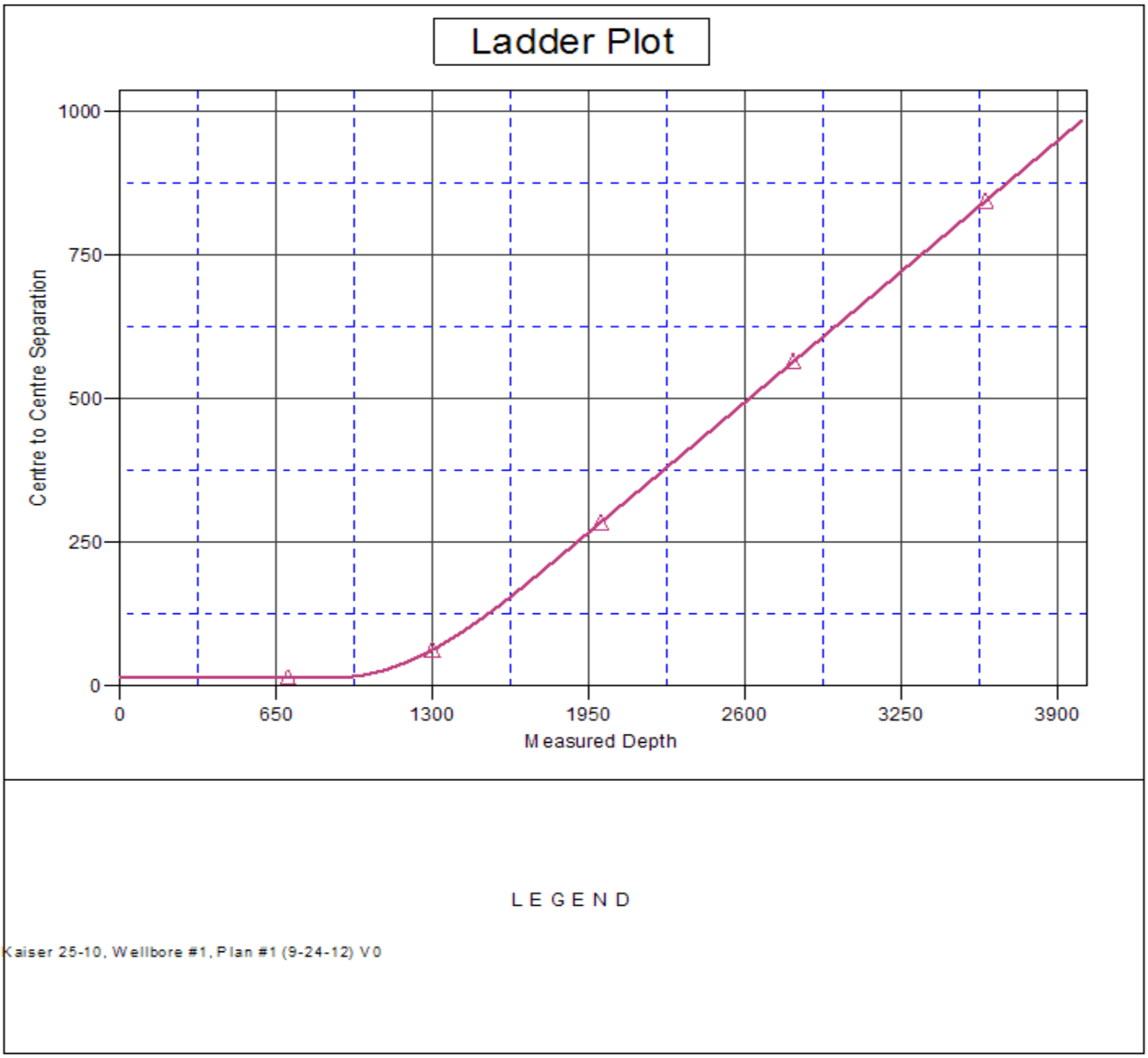
Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
2,100.0	2,078.3	2,047.1	2,031.8	5.8	5.5	143.73	-133.3	132.9	320.1	310.3	9.74	32.868	
2,200.0	2,175.0	2,140.8	2,123.8	6.3	5.8	144.24	-144.9	146.1	355.0	344.6	10.35	34.303	
2,300.0	2,271.7	2,234.4	2,215.8	6.8	6.2	144.66	-156.6	159.3	389.9	379.0	10.97	35.554	
2,400.0	2,368.4	2,328.1	2,307.8	7.3	6.6	145.01	-168.3	172.5	424.9	413.3	11.59	36.651	
2,500.0	2,465.1	2,421.8	2,399.8	7.8	7.0	145.31	-180.0	185.7	459.9	447.6	12.22	37.620	
2,600.0	2,561.8	2,515.4	2,491.8	8.3	7.4	145.57	-191.6	198.9	494.8	482.0	12.86	38.480	
2,700.0	2,658.5	2,609.1	2,583.8	8.8	7.8	145.79	-203.3	212.0	529.8	516.3	13.50	39.247	
2,800.0	2,755.2	2,702.7	2,675.7	9.3	8.1	145.99	-215.0	225.2	564.8	550.7	14.14	39.935	
2,900.0	2,851.9	2,796.4	2,767.7	9.8	8.5	146.16	-226.7	238.4	599.8	585.0	14.79	40.555	
3,000.0	2,948.6	2,890.1	2,859.7	10.3	8.9	146.31	-238.3	251.6	634.8	619.4	15.44	41.116	
3,100.0	3,045.3	2,983.7	2,951.7	10.8	9.3	146.45	-250.0	264.8	669.8	653.7	16.09	41.625	
3,200.0	3,142.0	3,077.4	3,043.7	11.3	9.7	146.57	-261.7	278.0	704.8	688.1	16.75	42.090	
3,300.0	3,238.7	3,171.1	3,135.7	11.8	10.1	146.68	-273.4	291.2	739.9	722.5	17.40	42.515	
3,400.0	3,335.4	3,264.7	3,227.7	12.3	10.5	146.79	-285.0	304.3	774.9	756.8	18.06	42.906	
3,500.0	3,432.1	3,358.4	3,319.7	12.8	10.9	146.88	-296.7	317.5	809.9	791.2	18.72	43.266	
3,600.0	3,528.8	3,452.0	3,411.7	13.3	11.3	146.96	-308.4	330.7	844.9	825.5	19.38	43.598	
3,700.0	3,625.5	3,545.7	3,503.7	13.9	11.7	147.04	-320.1	343.9	879.9	859.9	20.04	43.905	
3,800.0	3,722.2	3,639.4	3,595.7	14.4	12.1	147.11	-331.7	357.1	914.9	894.2	20.70	44.191	
3,900.0	3,818.9	3,733.0	3,687.6	14.9	12.5	147.18	-343.4	370.3	950.0	928.6	21.37	44.457	
4,000.0	3,915.6	3,826.7	3,779.6	15.4	12.9	147.24	-355.1	383.4	985.0	963.0	22.03	44.705	

Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Kaiser 921-10
Project:	SEC.10-T6N-R65W	**TVD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Reference Site:	Kaiser Pad Sec.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kaiser 921-10	**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 (9-24-12)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4789.0ft (Original Well Elev) Coordinates are relative to: Kaiser 921-10
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: 0.55°



Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Kaiser 921-10
Project:	SEC.10-T6N-R65W	**TVD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Reference Site:	Kaiser Pad Sec.10-T6N-R65W	**MD Reference:**	WELL @ 4789.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kaiser 921-10	**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 (9-24-12)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4789.0ft (Original Well Elev) Coordinates are relative to: Kaiser 921-10
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: 0.55°