ENSIGN Directional

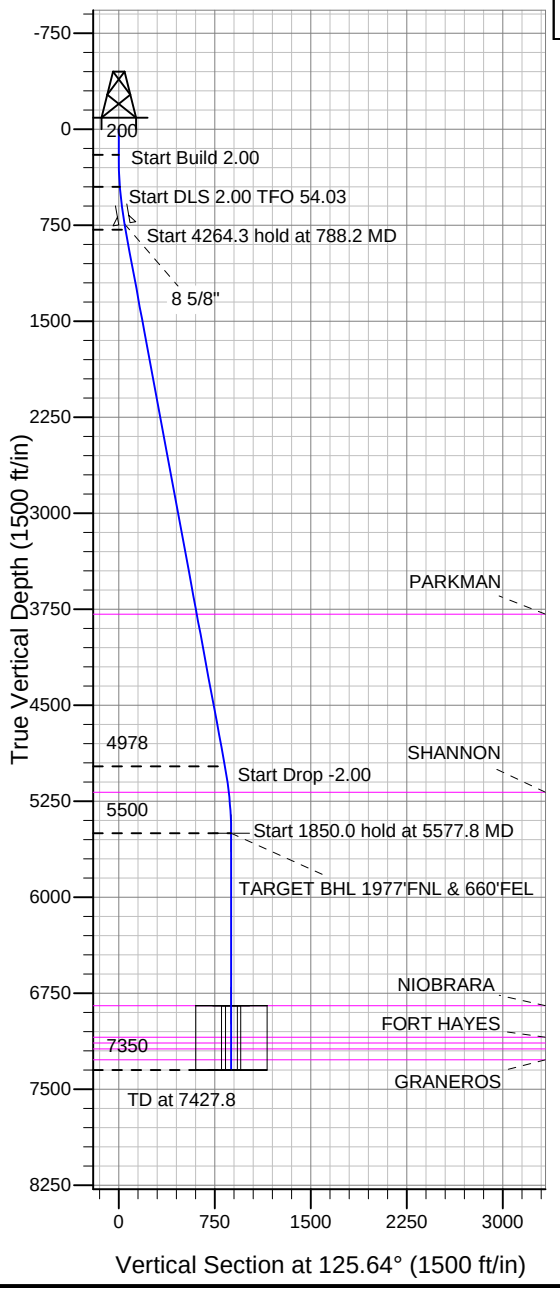
Well Name: Mojack 8-28

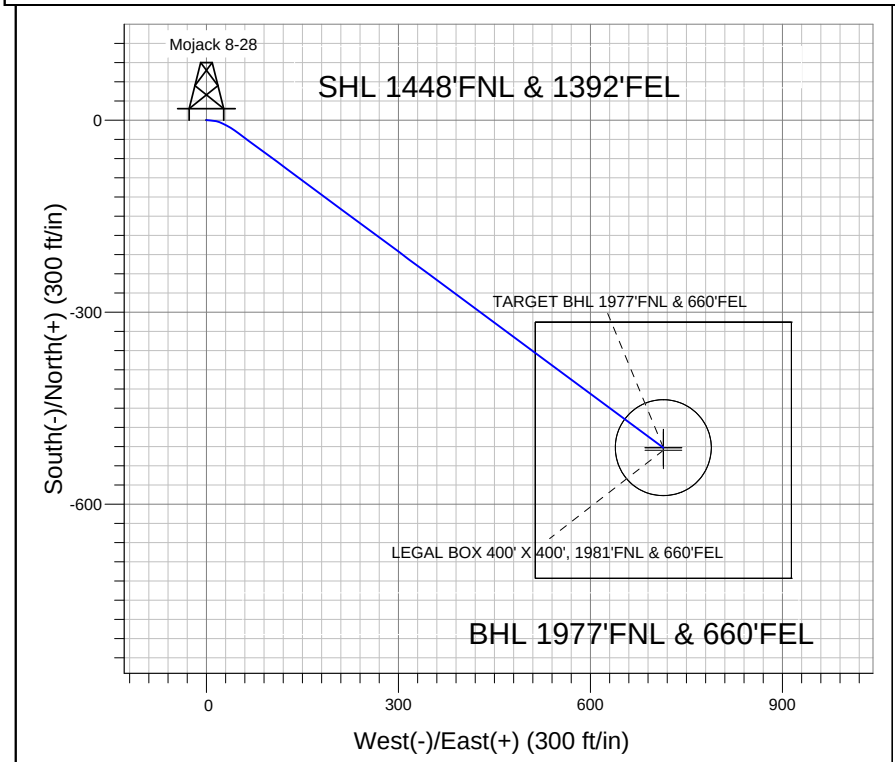
Surface Location: Mojack 24-28 Pad Sec.28-T7N-R64W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4896.0

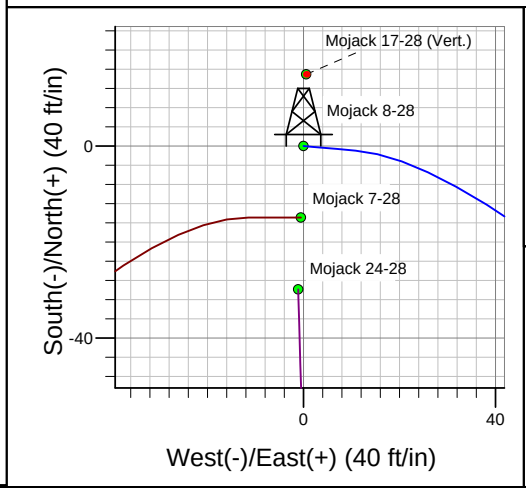
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1443656.84	3263904.35	40.547359	-104.550361	

Original Well Elev WELL @ 4908.0ft (Original Well Elev)

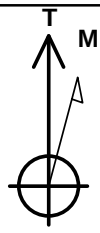
BAYSWATER EXPLORATION & PRODUCTION







Mojack 24-28 Pad Sec.28-T7N-R64W
Mojack 8-28
Plan #1 (3-28-12)
15:21, April 03 2012



Azimuths to True North
Magnetic North: 8.65°

Magnetic Field
Strength: 53146.4snT
Dip Angle: 67.18°
Date: 4/2/2012
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1977'FNL & 660'FEL	5500.0	-511.8	714.0	40.545954	-104.547792	Point
LEGAL BOX 400' X 400', 1981'FNL & 660'FEL	6848.0	-515.8	714.0	40.545943	-104.547792	Rectangle (Sides: L400.0 W400.0)
TARGET CIRCLE 1977'FNL & 660'FEL	6848.0	-511.8	714.0	40.545954	-104.547792	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	450.0	5.00	95.00	449.7	-1.0	10.9	2.00	95.00	9.4	
4	788.2	10.51	126.51	784.8	-20.6	50.4	2.00	54.03	52.9	
5	5052.5	10.51	126.51	4977.6	-483.3	675.4	0.00	0.00	830.5	
6	5577.8	0.00	0.00	5500.0	-511.8	714.0	2.00	180.00	878.5	TARGET BHL 1977'FNL & 660'FEL
7	7427.8	0.00	0.00	7350.0	-511.8	714.0	0.00	0.00	878.5	

BAYSWATER EXPLORATION & PRODUCTION

SEC.28-T7N-R64W
Mojack 24-28 Pad Sec.28-T7N-R64W
Mojack 8-28

Wellbore #1

Plan: Plan #1 (3-28-12)

Standard Planning Report

03 April, 2012

Database:	Landmark	**Local Co-ordinate Reference:**	Well Mojack 8-28
Company:	BAYSWATER EXPLORATION & PRODUCTION	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Project:	SEC.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**North Reference:**	True
Well:	Mojack 8-28	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (3-28-12)		

Project SEC.28-T7N-R64W, Weld County, Colorado

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 Mojack 24-28 Pad Sec.28-T7N-R64W

Site Position:		**Northing:**	1,443,626.98 ft	**Latitude:**	40.547277
From:	Lat/Long	**Easting:**	3,263,903.55 ft	**Longitude:**	-104.550365
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.61 °

Well Mojack 8-28

Well Position	**+N/-S**	29.9 ft	**Northing:**	1,443,656.84 ft	**Latitude:**	40.547359
	+E/-W	1.1 ft	**Easting:**	3,263,904.35 ft	**Longitude:**	-104.550361
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,896.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/2/2012	8.65	67.18	53,146

Design Plan #1 (3-28-12)

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	125.64

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	
450.0	5.00	95.00	449.7	-1.0	10.9	2.00	2.00	0.00	95.00	
788.2	10.51	126.51	784.8	-20.6	50.4	2.00	1.63	9.32	54.03	
5,052.5	10.51	126.51	4,977.6	-483.3	675.4	0.00	0.00	0.00	0.00	
5,577.8	0.00	0.00	5,500.0	-511.8	714.0	2.00	-2.00	0.00	180.00	TARGET BHL 1977
7,427.8	0.00	0.00	7,350.0	-511.8	714.0	0.00	0.00	0.00	0.00	

Database:	Landmark	**Local Co-ordinate Reference:**	Well Mojack 8-28
Company:	BAYSWATER EXPLORATION & PRODUCTION	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Project:	SEC.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**North Reference:**	True
Well:	Mojack 8-28	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (3-28-12)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.80	95.00	240.0	0.0	0.3	0.2	2.00	2.00	0.00
280.0	1.60	95.00	280.0	-0.1	1.1	1.0	2.00	2.00	0.00
320.0	2.40	95.00	320.0	-0.2	2.5	2.2	2.00	2.00	0.00
360.0	3.20	95.00	359.9	-0.4	4.4	3.8	2.00	2.00	0.00
400.0	4.00	95.00	399.8	-0.6	7.0	6.0	2.00	2.00	0.00
440.0	4.80	95.00	439.7	-0.9	10.0	8.6	2.00	2.00	0.00
450.0	5.00	95.00	449.7	-1.0	10.9	9.4	2.00	2.00	0.00
480.0	5.37	100.19	479.6	-1.3	13.5	11.8	2.00	1.25	17.30
520.0	5.93	106.03	519.4	-2.2	17.4	15.4	2.00	1.39	14.60
560.0	6.54	110.83	559.1	-3.6	21.5	19.6	2.00	1.52	12.00
600.0	7.18	114.80	598.8	-5.5	25.9	24.2	2.00	1.61	9.91
640.0	7.86	118.10	638.5	-7.8	30.6	29.4	2.00	1.68	8.26
680.0	8.55	120.88	678.1	-10.6	35.5	35.1	2.00	1.74	6.94
720.0	9.26	123.23	717.6	-13.9	40.8	41.2	2.00	1.78	5.89
742.7	9.67	124.42	740.0	-16.0	43.9	45.0	2.00	1.81	5.21
8 5/8"									
760.0	9.99	125.25	757.0	-17.7	46.3	47.9	2.00	1.82	4.84
788.2	10.51	126.51	784.8	-20.6	50.4	52.9	2.00	1.84	4.46
800.0	10.51	126.51	796.4	-21.9	52.1	55.1	0.00	0.00	0.00
840.0	10.51	126.51	835.7	-26.2	58.0	62.4	0.00	0.00	0.00
880.0	10.51	126.51	875.1	-30.6	63.8	69.7	0.00	0.00	0.00
920.0	10.51	126.51	914.4	-34.9	69.7	77.0	0.00	0.00	0.00
960.0	10.51	126.51	953.7	-39.2	75.6	84.3	0.00	0.00	0.00
1,000.0	10.51	126.51	993.0	-43.6	81.4	91.6	0.00	0.00	0.00
1,040.0	10.51	126.51	1,032.4	-47.9	87.3	98.9	0.00	0.00	0.00
1,080.0	10.51	126.51	1,071.7	-52.3	93.1	106.1	0.00	0.00	0.00
1,120.0	10.51	126.51	1,111.0	-56.6	99.0	113.4	0.00	0.00	0.00
1,160.0	10.51	126.51	1,150.4	-60.9	104.9	120.7	0.00	0.00	0.00
1,200.0	10.51	126.51	1,189.7	-65.3	110.7	128.0	0.00	0.00	0.00
1,240.0	10.51	126.51	1,229.0	-69.6	116.6	135.3	0.00	0.00	0.00
1,280.0	10.51	126.51	1,268.3	-74.0	122.5	142.6	0.00	0.00	0.00
1,320.0	10.51	126.51	1,307.7	-78.3	128.3	149.9	0.00	0.00	0.00
1,360.0	10.51	126.51	1,347.0	-82.6	134.2	157.2	0.00	0.00	0.00
1,400.0	10.51	126.51	1,386.3	-87.0	140.0	164.5	0.00	0.00	0.00
1,440.0	10.51	126.51	1,425.7	-91.3	145.9	171.8	0.00	0.00	0.00
1,480.0	10.51	126.51	1,465.0	-95.7	151.8	179.1	0.00	0.00	0.00
1,520.0	10.51	126.51	1,504.3	-100.0	157.6	186.4	0.00	0.00	0.00
1,560.0	10.51	126.51	1,543.7	-104.3	163.5	193.7	0.00	0.00	0.00
1,600.0	10.51	126.51	1,583.0	-108.7	169.4	201.0	0.00	0.00	0.00
1,640.0	10.51	126.51	1,622.3	-113.0	175.2	208.3	0.00	0.00	0.00
1,680.0	10.51	126.51	1,661.6	-117.4	181.1	215.5	0.00	0.00	0.00
1,720.0	10.51	126.51	1,701.0	-121.7	186.9	222.8	0.00	0.00	0.00
1,760.0	10.51	126.51	1,740.3	-126.0	192.8	230.1	0.00	0.00	0.00
1,800.0	10.51	126.51	1,779.6	-130.4	198.7	237.4	0.00	0.00	0.00
1,840.0	10.51	126.51	1,819.0	-134.7	204.5	244.7	0.00	0.00	0.00
1,880.0	10.51	126.51	1,858.3	-139.1	210.4	252.0	0.00	0.00	0.00
1,920.0	10.51	126.51	1,897.6	-143.4	216.3	259.3	0.00	0.00	0.00

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Project:	SEC.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**North Reference:**	True
Well:	Mojack 8-28	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (3-28-12)		

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	10.51	126.51	1,936.9	-147.7	222.1	266.6	0.00	0.00	0.00
2,000.0	10.51	126.51	1,976.3	-152.1	228.0	273.9	0.00	0.00	0.00
2,040.0	10.51	126.51	2,015.6	-156.4	233.8	281.2	0.00	0.00	0.00
2,080.0	10.51	126.51	2,054.9	-160.8	239.7	288.5	0.00	0.00	0.00
2,120.0	10.51	126.51	2,094.3	-165.1	245.6	295.8	0.00	0.00	0.00
2,160.0	10.51	126.51	2,133.6	-169.4	251.4	303.1	0.00	0.00	0.00
2,200.0	10.51	126.51	2,172.9	-173.8	257.3	310.4	0.00	0.00	0.00
2,240.0	10.51	126.51	2,212.3	-178.1	263.2	317.7	0.00	0.00	0.00
2,280.0	10.51	126.51	2,251.6	-182.5	269.0	324.9	0.00	0.00	0.00
2,320.0	10.51	126.51	2,290.9	-186.8	274.9	332.2	0.00	0.00	0.00
2,360.0	10.51	126.51	2,330.2	-191.1	280.7	339.5	0.00	0.00	0.00
2,400.0	10.51	126.51	2,369.6	-195.5	286.6	346.8	0.00	0.00	0.00
2,440.0	10.51	126.51	2,408.9	-199.8	292.5	354.1	0.00	0.00	0.00
2,480.0	10.51	126.51	2,448.2	-204.2	298.3	361.4	0.00	0.00	0.00
2,520.0	10.51	126.51	2,487.6	-208.5	304.2	368.7	0.00	0.00	0.00
2,560.0	10.51	126.51	2,526.9	-212.8	310.1	376.0	0.00	0.00	0.00
2,600.0	10.51	126.51	2,566.2	-217.2	315.9	383.3	0.00	0.00	0.00
2,640.0	10.51	126.51	2,605.5	-221.5	321.8	390.6	0.00	0.00	0.00
2,680.0	10.51	126.51	2,644.9	-225.9	327.6	397.9	0.00	0.00	0.00
2,720.0	10.51	126.51	2,684.2	-230.2	333.5	405.2	0.00	0.00	0.00
2,760.0	10.51	126.51	2,723.5	-234.5	339.4	412.5	0.00	0.00	0.00
2,800.0	10.51	126.51	2,762.9	-238.9	345.2	419.8	0.00	0.00	0.00
2,840.0	10.51	126.51	2,802.2	-243.2	351.1	427.1	0.00	0.00	0.00
2,880.0	10.51	126.51	2,841.5	-247.6	357.0	434.3	0.00	0.00	0.00
2,920.0	10.51	126.51	2,880.8	-251.9	362.8	441.6	0.00	0.00	0.00
2,960.0	10.51	126.51	2,920.2	-256.2	368.7	448.9	0.00	0.00	0.00
3,000.0	10.51	126.51	2,959.5	-260.6	374.5	456.2	0.00	0.00	0.00
3,040.0	10.51	126.51	2,998.8	-264.9	380.4	463.5	0.00	0.00	0.00
3,080.0	10.51	126.51	3,038.2	-269.3	386.3	470.8	0.00	0.00	0.00
3,120.0	10.51	126.51	3,077.5	-273.6	392.1	478.1	0.00	0.00	0.00
3,160.0	10.51	126.51	3,116.8	-277.9	398.0	485.4	0.00	0.00	0.00
3,200.0	10.51	126.51	3,156.2	-282.3	403.9	492.7	0.00	0.00	0.00
3,240.0	10.51	126.51	3,195.5	-286.6	409.7	500.0	0.00	0.00	0.00
3,280.0	10.51	126.51	3,234.8	-291.0	415.6	507.3	0.00	0.00	0.00
3,320.0	10.51	126.51	3,274.1	-295.3	421.4	514.6	0.00	0.00	0.00
3,360.0	10.51	126.51	3,313.5	-299.6	427.3	521.9	0.00	0.00	0.00
3,400.0	10.51	126.51	3,352.8	-304.0	433.2	529.2	0.00	0.00	0.00
3,440.0	10.51	126.51	3,392.1	-308.3	439.0	536.4	0.00	0.00	0.00
3,480.0	10.51	126.51	3,431.5	-312.7	444.9	543.7	0.00	0.00	0.00
3,520.0	10.51	126.51	3,470.8	-317.0	450.8	551.0	0.00	0.00	0.00
3,560.0	10.51	126.51	3,510.1	-321.3	456.6	558.3	0.00	0.00	0.00
3,600.0	10.51	126.51	3,549.4	-325.7	462.5	565.6	0.00	0.00	0.00
3,640.0	10.51	126.51	3,588.8	-330.0	468.3	572.9	0.00	0.00	0.00
3,680.0	10.51	126.51	3,628.1	-334.3	474.2	580.2	0.00	0.00	0.00
3,720.0	10.51	126.51	3,667.4	-338.7	480.1	587.5	0.00	0.00	0.00
3,760.0	10.51	126.51	3,706.8	-343.0	485.9	594.8	0.00	0.00	0.00
3,800.0	10.51	126.51	3,746.1	-347.4	491.8	602.1	0.00	0.00	0.00
3,840.0	10.51	126.51	3,785.4	-351.7	497.7	609.4	0.00	0.00	0.00
3,843.6	10.51	126.51	3,789.0	-352.1	498.2	610.0	0.00	0.00	0.00
PARKMAN									
3,880.0	10.51	126.51	3,824.8	-356.0	503.5	616.7	0.00	0.00	0.00
3,920.0	10.51	126.51	3,864.1	-360.4	509.4	624.0	0.00	0.00	0.00
3,960.0	10.51	126.51	3,903.4	-364.7	515.2	631.3	0.00	0.00	0.00

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Project:	SEC.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**North Reference:**	True
Well:	Mojack 8-28	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (3-28-12)		

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	10.51	126.51	3,942.7	-369.1	521.1	638.6	0.00	0.00	0.00
4,040.0	10.51	126.51	3,982.1	-373.4	527.0	645.8	0.00	0.00	0.00
4,080.0	10.51	126.51	4,021.4	-377.7	532.8	653.1	0.00	0.00	0.00
4,120.0	10.51	126.51	4,060.7	-382.1	538.7	660.4	0.00	0.00	0.00
4,160.0	10.51	126.51	4,100.1	-386.4	544.6	667.7	0.00	0.00	0.00
4,200.0	10.51	126.51	4,139.4	-390.8	550.4	675.0	0.00	0.00	0.00
4,240.0	10.51	126.51	4,178.7	-395.1	556.3	682.3	0.00	0.00	0.00
4,280.0	10.51	126.51	4,218.0	-399.4	562.1	689.6	0.00	0.00	0.00
4,320.0	10.51	126.51	4,257.4	-403.8	568.0	696.9	0.00	0.00	0.00
4,360.0	10.51	126.51	4,296.7	-408.1	573.9	704.2	0.00	0.00	0.00
4,400.0	10.51	126.51	4,336.0	-412.5	579.7	711.5	0.00	0.00	0.00
4,440.0	10.51	126.51	4,375.4	-416.8	585.6	718.8	0.00	0.00	0.00
4,480.0	10.51	126.51	4,414.7	-421.1	591.5	726.1	0.00	0.00	0.00
4,520.0	10.51	126.51	4,454.0	-425.5	597.3	733.4	0.00	0.00	0.00
4,560.0	10.51	126.51	4,493.4	-429.8	603.2	740.7	0.00	0.00	0.00
4,600.0	10.51	126.51	4,532.7	-434.2	609.0	748.0	0.00	0.00	0.00
4,640.0	10.51	126.51	4,572.0	-438.5	614.9	755.2	0.00	0.00	0.00
4,680.0	10.51	126.51	4,611.3	-442.8	620.8	762.5	0.00	0.00	0.00
4,720.0	10.51	126.51	4,650.7	-447.2	626.6	769.8	0.00	0.00	0.00
4,760.0	10.51	126.51	4,690.0	-451.5	632.5	777.1	0.00	0.00	0.00
4,800.0	10.51	126.51	4,729.3	-455.9	638.4	784.4	0.00	0.00	0.00
4,840.0	10.51	126.51	4,768.7	-460.2	644.2	791.7	0.00	0.00	0.00
4,880.0	10.51	126.51	4,808.0	-464.5	650.1	799.0	0.00	0.00	0.00
4,920.0	10.51	126.51	4,847.3	-468.9	655.9	806.3	0.00	0.00	0.00
4,960.0	10.51	126.51	4,886.6	-473.2	661.8	813.6	0.00	0.00	0.00
5,000.0	10.51	126.51	4,926.0	-477.6	667.7	820.9	0.00	0.00	0.00
5,040.0	10.51	126.51	4,965.3	-481.9	673.5	828.2	0.00	0.00	0.00
5,052.5	10.51	126.51	4,977.6	-483.3	675.4	830.5	0.00	0.00	0.00
5,080.0	9.96	126.51	5,004.7	-486.2	679.3	835.3	2.00	-2.00	0.00
5,120.0	9.16	126.51	5,044.1	-490.1	684.6	842.0	2.00	-2.00	0.00
5,160.0	8.36	126.51	5,083.6	-493.7	689.5	848.1	2.00	-2.00	0.00
5,200.0	7.56	126.51	5,123.2	-497.0	694.0	853.6	2.00	-2.00	0.00
5,240.0	6.76	126.51	5,162.9	-500.0	698.0	858.6	2.00	-2.00	0.00
5,257.2	6.41	126.51	5,180.0	-501.2	699.6	860.6	2.00	-2.00	0.00
SHANNON									
5,280.0	5.96	126.51	5,202.7	-502.6	701.5	863.0	2.00	-2.00	0.00
5,320.0	5.16	126.51	5,242.5	-504.9	704.7	866.9	2.00	-2.00	0.00
5,360.0	4.36	126.51	5,282.4	-506.9	707.3	870.2	2.00	-2.00	0.00
5,400.0	3.56	126.51	5,322.3	-508.6	709.5	873.0	2.00	-2.00	0.00
5,440.0	2.76	126.51	5,362.2	-509.9	711.3	875.2	2.00	-2.00	0.00
5,480.0	1.96	126.51	5,402.2	-510.8	712.6	876.8	2.00	-2.00	0.00
5,520.0	1.16	126.51	5,442.2	-511.5	713.5	877.9	2.00	-2.00	0.00
5,560.0	0.36	126.51	5,482.2	-511.8	713.9	878.4	2.00	-2.00	0.00
5,577.8	0.00	0.00	5,500.0	-511.8	714.0	878.5	2.00	-2.00	0.00
TARGET BHL 1977'FNL & 660'FEL									
5,600.0	0.00	0.00	5,522.2	-511.8	714.0	878.5	0.00	0.00	0.00
5,640.0	0.00	0.00	5,562.2	-511.8	714.0	878.5	0.00	0.00	0.00
5,680.0	0.00	0.00	5,602.2	-511.8	714.0	878.5	0.00	0.00	0.00
5,720.0	0.00	0.00	5,642.2	-511.8	714.0	878.5	0.00	0.00	0.00
5,760.0	0.00	0.00	5,682.2	-511.8	714.0	878.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,722.2	-511.8	714.0	878.5	0.00	0.00	0.00
5,840.0	0.00	0.00	5,762.2	-511.8	714.0	878.5	0.00	0.00	0.00
5,880.0	0.00	0.00	5,802.2	-511.8	714.0	878.5	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Mojack 8-28
Company:	BAYSWATER EXPLORATION & PRODUCTION	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Project:	SEC.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**North Reference:**	True
Well:	Mojack 8-28	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (3-28-12)		

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	0.00	0.00	5,842.2	-511.8	714.0	878.5	0.00	0.00	0.00
5,960.0	0.00	0.00	5,882.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,922.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,040.0	0.00	0.00	5,962.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,080.0	0.00	0.00	6,002.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,120.0	0.00	0.00	6,042.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,160.0	0.00	0.00	6,082.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,122.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,240.0	0.00	0.00	6,162.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,280.0	0.00	0.00	6,202.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,320.0	0.00	0.00	6,242.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,360.0	0.00	0.00	6,282.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,322.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,440.0	0.00	0.00	6,362.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,480.0	0.00	0.00	6,402.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,520.0	0.00	0.00	6,442.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,560.0	0.00	0.00	6,482.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,522.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,640.0	0.00	0.00	6,562.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,680.0	0.00	0.00	6,602.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,720.0	0.00	0.00	6,642.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,760.0	0.00	0.00	6,682.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,722.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,840.0	0.00	0.00	6,762.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,880.0	0.00	0.00	6,802.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,920.0	0.00	0.00	6,842.2	-511.8	714.0	878.5	0.00	0.00	0.00
6,925.8	0.00	0.00	6,848.0	-511.8	714.0	878.5	0.00	0.00	0.00
NIOBRARA - LEGAL BOX 400' X 400', 1981'FNL & 660'FEL - TARGET CIRCLE 1977'FNL & 660'FEL									
6,960.0	0.00	0.00	6,882.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,922.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,040.0	0.00	0.00	6,962.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,080.0	0.00	0.00	7,002.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,120.0	0.00	0.00	7,042.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,160.0	0.00	0.00	7,082.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,171.8	0.00	0.00	7,094.0	-511.8	714.0	878.5	0.00	0.00	0.00
FORT HAYES									
7,200.0	0.00	0.00	7,122.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,215.8	0.00	0.00	7,138.0	-511.8	714.0	878.5	0.00	0.00	0.00
CODELL									
7,240.0	0.00	0.00	7,162.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,262.8	0.00	0.00	7,185.0	-511.8	714.0	878.5	0.00	0.00	0.00
GREENHORN									
7,280.0	0.00	0.00	7,202.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,320.0	0.00	0.00	7,242.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,348.8	0.00	0.00	7,271.0	-511.8	714.0	878.5	0.00	0.00	0.00
GRANEROS									
7,360.0	0.00	0.00	7,282.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,322.2	-511.8	714.0	878.5	0.00	0.00	0.00
7,427.8	0.00	0.00	7,350.0	-511.8	714.0	878.5	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Mojack 8-28
Company:	BAYSWATER EXPLORATION & PRODUCTION	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Project:	SEC.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**North Reference:**	True
Well:	Mojack 8-28	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (3-28-12)		

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
LEGAL BOX 400' X 4(	0.00	0.00	6,848.0	-515.8	714.0	1,443,148.74	3,264,623.80	40.545943	-104.547792
- plan misses target center by 4.0ft at 6925.8ft MD (6848.0 TVD, -511.8 N, 714.0 E)									
- Rectangle (sides W400.0 H400.0 D502.0)									
TARGET CIRCLE 197	0.00	0.00	6,848.0	-511.8	714.0	1,443,152.69	3,264,623.74	40.545954	-104.547792
- plan hits target center									
- Circle (radius 75.0)									
TARGET BHL 1977'F	0.00	0.00	5,500.0	-511.8	714.0	1,443,152.69	3,264,623.74	40.545954	-104.547792
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
742.7	740.0	8 5/8"	8-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,843.6	3,789.0	PARKMAN		0.00	
5,257.2	5,180.0	SHANNON		0.00	
6,925.8	6,848.0	NIOBRARA		0.00	
7,171.8	7,094.0	FORT HAYES		0.00	
7,215.8	7,138.0	CODELL		0.00	
7,262.8	7,185.0	GREENHORN		0.00	
7,348.8	7,271.0	GRANEROS		0.00	

ENSIGN Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.28-T7N-R64W
Mojack 24-28 Pad Sec.28-T7N-R64W
Mojack 8-28

Wellbore #1
Plan #1 (3-28-12)

Anticollision Report

03 April, 2012

Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Mojack 8-28
Project:	SEC.28-T7N-R64W	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Reference Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Mojack 8-28	**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 (3-28-12)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 (3-28-12)

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 10,000.0ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**		

Survey Tool Program **Date** 4/3/2012

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	7,427.8	Plan #1 (3-28-12) (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
Mojack 24-28 Pad Sec.28-T7N-R64W						
Mojack 17-28 (Vert.) - Wellbore #1 - Design #1	200.0	200.0	15.0	14.3	22.185	CC
Mojack 17-28 (Vert.) - Wellbore #1 - Design #1	300.0	300.0	15.1	14.0	13.612	ES
Mojack 17-28 (Vert.) - Wellbore #1 - Design #1	450.0	449.7	18.9	17.2	10.584	SF
Mojack 24-28 - Wellbore #1 - Plan #1 (3-27-12)	292.6	292.6	29.9	28.8	27.637	CC
Mojack 24-28 - Wellbore #1 - Plan #1 (3-27-12)	300.0	300.0	29.9	28.7	26.831	ES
Mojack 24-28 - Wellbore #1 - Plan #1 (3-27-12)	600.0	596.9	41.2	38.7	16.833	SF
Mojack 7-28 - Wellbore #1 - Plan #1 (3-28-12)	265.4	265.4	14.9	14.0	15.520	CC
Mojack 7-28 - Wellbore #1 - Plan #1 (3-28-12)	300.0	300.0	15.0	13.8	13.436	ES
Mojack 7-28 - Wellbore #1 - Plan #1 (3-28-12)	450.0	449.7	18.0	16.3	10.060	SF

Offset Design Mojack 24-28 Pad Sec.28-T7N-R64W - Mojack 17-28 (Vert.) - Wellbore #1 - Design #1 — **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
0.0	0.0	0.0	0.0	0.0	0.0	2.13	14.9	0.6	15.0	15.0	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	2.13	14.9	0.6	15.0	14.7	0.22	66.556	
200.0	200.0	200.0	200.0	0.3	0.3	2.13	14.9	0.6	15.0	14.3	0.67	22.185	CC
200.0	200.0	200.0	200.0	0.3	0.3	2.13	14.9	0.6	15.0	14.3	0.67	22.182	
300.0	300.0	300.0	300.0	0.6	0.6	-99.47	14.9	0.6	15.1	14.0	1.11	13.612	ES
400.0	399.8	399.8	399.8	0.8	0.8	-117.29	14.9	0.6	16.8	15.3	1.56	10.787	
450.0	449.7	449.7	449.7	0.9	0.9	-127.84	14.9	0.6	18.9	17.2	1.79	10.584	SF
500.0	499.5	499.5	499.5	1.0	1.0	-144.88	14.9	0.6	22.3	20.3	2.02	11.059	
600.0	598.8	598.8	598.8	1.3	1.2	-165.84	14.9	0.6	32.5	30.1	2.47	13.195	
700.0	697.9	697.9	697.9	1.6	1.5	-176.21	14.9	0.6	46.3	43.4	2.91	15.917	
788.2	784.8	784.8	784.8	1.9	1.7	178.99	14.9	0.6	61.2	57.9	3.31	18.501	
800.0	796.4	796.4	796.4	1.9	1.7	179.02	14.9	0.6	63.4	60.0	3.36	18.851	
900.0	894.7	894.7	894.7	2.3	1.9	179.24	14.9	0.6	81.6	77.8	3.81	21.387	
1,000.0	993.0	993.0	993.0	2.7	2.1	179.38	14.9	0.6	99.8	95.5	4.27	23.356	
1,100.0	1,091.4	1,091.4	1,091.4	3.1	2.3	179.48	14.9	0.6	118.1	113.3	4.74	24.924	
1,200.0	1,189.7	1,189.7	1,189.7	3.5	2.6	179.55	14.9	0.6	136.3	131.1	5.20	26.199	
1,300.0	1,288.0	1,288.0	1,288.0	3.9	2.8	179.60	14.9	0.6	154.5	148.9	5.67	27.255	

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 Mojack 8-28
Project:	SEC.28-T7N-R64W	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Reference Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Mojack 8-28	**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 (3-28-12)	**Offset TVD Reference:**	Offset Datum

Offset Design Mojack 24-28 Pad Sec.28-T7N-R64W - Mojack 17-28 (Vert.) - Wellbore #1 - Design #1

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
1,400.0	1,386.3	1,386.3	1,386.3	4.4	3.0	179.64	14.9	0.6	172.8	166.6	6.14	28.143	
1,500.0	1,484.7	1,484.7	1,484.7	4.8	3.2	179.68	14.9	0.6	191.0	184.4	6.61	28.900	
1,600.0	1,583.0	1,583.0	1,583.0	5.2	3.4	179.70	14.9	0.6	209.2	202.2	7.08	29.552	
1,700.0	1,681.3	1,681.3	1,681.3	5.6	3.7	179.73	14.9	0.6	227.5	219.9	7.55	30.120	
1,800.0	1,779.6	1,779.6	1,779.6	6.0	3.9	179.75	14.9	0.6	245.7	237.7	8.02	30.619	
1,900.0	1,878.0	1,878.0	1,878.0	6.4	4.1	179.77	14.9	0.6	263.9	255.4	8.50	31.060	
2,000.0	1,976.3	1,976.3	1,976.3	6.9	4.3	179.78	14.9	0.6	282.2	273.2	8.97	31.453	
2,100.0	2,074.6	2,074.6	2,074.6	7.3	4.6	179.79	14.9	0.6	300.4	291.0	9.45	31.806	
2,200.0	2,172.9	2,172.9	2,172.9	7.7	4.8	179.81	14.9	0.6	318.6	308.7	9.92	32.123	
2,300.0	2,271.2	2,271.2	2,271.2	8.1	5.0	179.82	14.9	0.6	336.9	326.5	10.39	32.411	
2,400.0	2,369.6	2,369.6	2,369.6	8.5	5.2	179.83	14.9	0.6	355.1	344.2	10.87	32.673	
2,500.0	2,467.9	2,467.9	2,467.9	8.9	5.4	179.83	14.9	0.6	373.3	362.0	11.34	32.912	
2,600.0	2,566.2	2,566.2	2,566.2	9.4	5.7	179.84	14.9	0.6	391.6	379.8	11.82	33.132	
2,700.0	2,664.5	2,664.5	2,664.5	9.8	5.9	179.85	14.9	0.6	409.8	397.5	12.29	33.334	
2,800.0	2,762.9	2,762.9	2,762.9	10.2	6.1	179.86	14.9	0.6	428.1	415.3	12.77	33.520	
2,900.0	2,861.2	2,861.2	2,861.2	10.6	6.3	179.86	14.9	0.6	446.3	433.0	13.25	33.693	
3,000.0	2,959.5	2,959.5	2,959.5	11.1	6.5	179.87	14.9	0.6	464.5	450.8	13.72	33.853	
3,100.0	3,057.8	3,057.8	3,057.8	11.5	6.8	179.87	14.9	0.6	482.8	468.6	14.20	34.003	
3,200.0	3,156.2	3,156.2	3,156.2	11.9	7.0	179.88	14.9	0.6	501.0	486.3	14.67	34.142	
3,300.0	3,254.5	3,254.5	3,254.5	12.3	7.2	179.88	14.9	0.6	519.2	504.1	15.15	34.273	
3,400.0	3,352.8	3,352.8	3,352.8	12.7	7.4	179.88	14.9	0.6	537.5	521.8	15.63	34.395	
3,500.0	3,451.1	3,451.1	3,451.1	13.2	7.6	179.89	14.9	0.6	555.7	539.6	16.10	34.510	
3,600.0	3,549.4	3,549.4	3,549.4	13.6	7.9	179.89	14.9	0.6	573.9	557.4	16.58	34.618	
3,700.0	3,647.8	3,647.8	3,647.8	14.0	8.1	179.90	14.9	0.6	592.2	575.1	17.06	34.720	
3,800.0	3,746.1	3,746.1	3,746.1	14.4	8.3	179.90	14.9	0.6	610.4	592.9	17.53	34.816	
3,900.0	3,844.4	3,844.4	3,844.4	14.8	8.5	179.90	14.9	0.6	628.6	610.6	18.01	34.907	
4,000.0	3,942.7	3,942.7	3,942.7	15.3	8.7	179.90	14.9	0.6	646.9	628.4	18.49	34.993	
4,100.0	4,041.1	4,041.1	4,041.1	15.7	9.0	179.91	14.9	0.6	665.1	646.1	18.96	35.075	
4,200.0	4,139.4	4,139.4	4,139.4	16.1	9.2	179.91	14.9	0.6	683.3	663.9	19.44	35.152	
4,300.0	4,237.7	4,237.7	4,237.7	16.5	9.4	179.91	14.9	0.6	701.6	681.7	19.92	35.226	
4,400.0	4,336.0	4,336.0	4,336.0	16.9	9.6	179.91	14.9	0.6	719.8	699.4	20.39	35.296	
4,500.0	4,434.4	4,434.4	4,434.4	17.4	9.9	179.92	14.9	0.6	738.0	717.2	20.87	35.363	
4,600.0	4,532.7	4,532.7	4,532.7	17.8	10.1	179.92	14.9	0.6	756.3	734.9	21.35	35.426	
4,700.0	4,631.0	4,631.0	4,631.0	18.2	10.3	179.92	14.9	0.6	774.5	752.7	21.83	35.487	
4,800.0	4,729.3	4,729.3	4,729.3	18.6	10.5	179.92	14.9	0.6	792.8	770.5	22.30	35.545	
4,900.0	4,827.7	4,827.7	4,827.7	19.1	10.7	179.92	14.9	0.6	811.0	788.2	22.78	35.601	
5,000.0	4,926.0	4,926.0	4,926.0	19.5	11.0	179.93	14.9	0.6	829.2	806.0	23.26	35.654	
5,052.5	4,977.6	4,977.6	4,977.6	19.7	11.1	179.93	14.9	0.6	838.8	815.3	23.51	35.681	
5,100.0	5,024.4	5,024.4	5,024.4	19.9	11.2	179.93	14.9	0.6	847.1	823.3	23.75	35.666	
5,200.0	5,123.2	5,123.2	5,123.2	20.1	11.4	179.93	14.9	0.6	862.0	837.7	24.21	35.600	
5,300.0	5,222.6	5,222.6	5,222.6	20.4	11.6	179.93	14.9	0.6	873.4	848.7	24.64	35.443	
5,400.0	5,322.3	5,322.3	5,322.3	20.5	11.9	179.93	14.9	0.6	881.3	856.3	25.04	35.202	
5,500.0	5,422.2	5,422.2	5,422.2	20.7	12.1	179.93	14.9	0.6	885.8	860.4	25.40	34.879	
5,577.8	5,500.0	5,500.0	5,500.0	20.8	12.2	-53.56	14.9	0.6	886.8	861.2	25.66	34.557	
5,600.0	5,522.2	5,522.2	5,522.2	20.8	12.3	-53.56	14.9	0.6	886.8	861.1	25.75	34.438	
5,700.0	5,622.2	5,622.2	5,622.2	20.9	12.5	-53.56	14.9	0.6	886.8	860.7	26.14	33.924	
5,800.0	5,722.2	5,722.2	5,722.2	21.0	12.7	-53.56	14.9	0.6	886.8	860.3	26.53	33.423	
5,900.0	5,822.2	5,822.2	5,822.2	21.2	13.0	-53.56	14.9	0.6	886.8	859.9	26.93	32.935	
6,000.0	5,922.2	5,922.2	5,922.2	21.3	13.2	-53.56	14.9	0.6	886.8	859.5	27.32	32.459	
6,100.0	6,022.2	6,022.2	6,022.2	21.4	13.4	-53.56	14.9	0.6	886.8	859.1	27.72	31.994	
6,200.0	6,122.2	6,122.2	6,122.2	21.5	13.6	-53.56	14.9	0.6	886.8	858.7	28.12	31.541	

Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Mojack 8-28
Project:	SEC.28-T7N-R64W	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Reference Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Mojack 8-28	**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 (3-28-12)	**Offset TVD Reference:**	Offset Datum

Offset Design Mojack 24-28 Pad Sec.28-T7N-R64W - Mojack 17-28 (Vert.) - Wellbore #1 - Design #1

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
6,300.0	6,222.2	6,222.2	6,222.2	21.6	13.9	-53.56	14.9	0.6	886.8	858.3	28.52	31.099	
6,400.0	6,322.2	6,322.2	6,322.2	21.8	14.1	-53.56	14.9	0.6	886.8	857.9	28.92	30.668	
6,500.0	6,422.2	6,422.2	6,422.2	21.9	14.3	-53.56	14.9	0.6	886.8	857.5	29.32	30.248	
6,600.0	6,522.2	6,522.2	6,522.2	22.0	14.5	-53.56	14.9	0.6	886.8	857.1	29.72	29.837	
6,700.0	6,622.2	6,622.2	6,622.2	22.1	14.8	-53.56	14.9	0.6	886.8	856.7	30.13	29.437	
6,800.0	6,722.2	6,722.2	6,722.2	22.3	15.0	-53.56	14.9	0.6	886.8	856.3	30.53	29.045	
6,900.0	6,822.2	6,822.2	6,822.2	22.4	15.2	-53.56	14.9	0.6	886.8	855.9	30.94	28.664	
7,000.0	6,922.2	6,922.2	6,922.2	22.5	15.4	-53.56	14.9	0.6	886.8	855.5	31.35	28.290	
7,100.0	7,022.2	7,022.2	7,022.2	22.7	15.7	-53.56	14.9	0.6	886.8	855.1	31.76	27.926	
7,200.0	7,122.2	7,122.2	7,122.2	22.8	15.9	-53.56	14.9	0.6	886.8	854.7	32.17	27.570	
7,300.0	7,222.2	7,222.2	7,222.2	22.9	16.1	-53.56	14.9	0.6	886.8	854.3	32.58	27.222	
7,400.0	7,322.2	7,322.2	7,322.2	23.1	16.3	-53.56	14.9	0.6	886.8	853.8	32.99	26.882	
7,427.8	7,350.0	7,350.0	7,350.0	23.1	16.4	-53.56	14.9	0.6	886.8	853.7	33.10	26.789	

Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Mojack 8-28
Project:	SEC.28-T7N-R64W	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Reference Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Mojack 8-28	**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 (3-28-12)	**Offset TVD Reference:**	Offset Datum

Offset Design Mojack 24-28 Pad Sec.28-T7N-R64W - Mojack 24-28 - Wellbore #1 - Plan #1 (3-27-12)

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
0.0	0.0	0.0	0.0	0.0	0.0	-177.87	-29.9	-1.1	29.9				
100.0	100.0	100.0	100.0	0.1	0.1	-177.87	-29.9	-1.1	29.9	29.7	0.22	132.987	
200.0	200.0	200.0	200.0	0.3	0.3	-177.87	-29.9	-1.1	29.9	29.2	0.67	44.329	
292.6	292.6	292.6	292.6	0.5	0.5	90.00	-29.9	-1.1	29.9	28.8	1.08	27.637	CC
300.0	300.0	300.0	300.0	0.6	0.6	90.48	-29.9	-1.1	29.9	28.7	1.11	26.831	ES
400.0	399.8	399.8	399.8	0.8	0.8	100.38	-29.9	-1.1	30.4	28.8	1.56	19.465	
450.0	449.7	449.2	449.2	0.9	0.9	107.04	-30.3	-1.1	31.7	29.9	1.78	17.802	
500.0	499.5	498.5	498.5	1.0	1.0	105.42	-31.6	-1.1	34.1	32.1	2.00	17.056	
600.0	598.8	596.9	596.7	1.3	1.2	105.42	-36.6	-0.9	41.2	38.7	2.45	16.833	SF
700.0	697.9	695.1	694.6	1.6	1.4	106.89	-45.0	-0.7	51.0	48.0	2.94	17.310	
788.2	784.8	781.4	780.3	1.9	1.6	108.18	-55.2	-0.4	61.6	58.2	3.44	17.915	
800.0	796.4	793.0	791.8	1.9	1.6	108.82	-56.8	-0.3	63.2	59.7	3.51	18.007	
900.0	894.7	890.7	888.3	2.3	1.9	111.98	-71.8	0.1	77.5	73.4	4.14	18.729	
1,000.0	993.0	988.0	983.9	2.7	2.3	112.32	-90.0	0.6	93.6	88.8	4.83	19.381	
1,100.0	1,091.4	1,085.1	1,078.6	3.1	2.7	111.09	-111.3	1.2	111.3	105.7	5.58	19.958	
1,200.0	1,189.7	1,183.4	1,174.3	3.5	3.1	109.81	-133.8	1.9	129.5	123.2	6.35	20.392	
1,300.0	1,288.0	1,281.7	1,270.0	3.9	3.5	108.85	-156.3	2.5	147.8	140.7	7.14	20.705	
1,400.0	1,386.3	1,380.0	1,365.7	4.4	4.0	108.09	-178.8	3.1	166.1	158.2	7.93	20.938	
1,500.0	1,484.7	1,478.3	1,461.3	4.8	4.5	107.49	-201.3	3.8	184.4	175.7	8.74	21.114	
1,600.0	1,583.0	1,576.6	1,557.0	5.2	4.9	107.00	-223.8	4.4	202.8	193.2	9.54	21.255	
1,700.0	1,681.3	1,674.9	1,652.7	5.6	5.4	106.59	-246.3	5.1	221.1	210.8	10.35	21.367	
1,800.0	1,779.6	1,773.2	1,748.4	6.0	5.9	106.24	-268.8	5.7	239.5	228.3	11.16	21.459	
1,900.0	1,878.0	1,871.4	1,844.1	6.4	6.3	105.94	-291.3	6.3	257.9	245.9	11.97	21.535	
2,000.0	1,976.3	1,969.7	1,939.7	6.9	6.8	105.68	-313.8	7.0	276.3	263.5	12.79	21.600	
2,100.0	2,074.6	2,068.0	2,035.4	7.3	7.3	105.45	-336.3	7.6	294.6	281.0	13.61	21.655	
2,200.0	2,172.9	2,166.3	2,131.1	7.7	7.8	105.25	-358.8	8.3	313.0	298.6	14.42	21.702	
2,300.0	2,271.2	2,264.6	2,226.8	8.1	8.3	105.07	-381.3	8.9	331.4	316.2	15.24	21.743	
2,400.0	2,369.6	2,362.9	2,322.4	8.5	8.7	104.91	-403.8	9.6	349.8	333.7	16.06	21.779	
2,500.0	2,467.9	2,461.2	2,418.1	8.9	9.2	104.77	-426.3	10.2	368.2	351.3	16.88	21.811	
2,600.0	2,566.2	2,559.5	2,513.8	9.4	9.7	104.64	-448.8	10.8	386.6	368.9	17.70	21.840	
2,700.0	2,664.5	2,657.8	2,609.5	9.8	10.2	104.52	-471.3	11.5	405.0	386.5	18.52	21.865	
2,800.0	2,762.9	2,756.0	2,705.2	10.2	10.7	104.42	-493.8	12.1	423.4	404.1	19.34	21.888	
2,900.0	2,861.2	2,854.3	2,800.8	10.6	11.2	104.32	-516.3	12.8	441.8	421.6	20.17	21.909	
3,000.0	2,959.5	2,952.6	2,896.5	11.1	11.6	104.23	-538.8	13.4	460.2	439.2	20.99	21.927	
3,100.0	3,057.8	3,050.9	2,992.2	11.5	12.1	104.14	-561.3	14.1	478.6	456.8	21.81	21.945	
3,200.0	3,156.2	3,149.2	3,087.9	11.9	12.6	104.06	-583.8	14.7	497.0	474.4	22.63	21.960	
3,300.0	3,254.5	3,247.5	3,183.5	12.3	13.1	103.99	-606.3	15.3	515.4	492.0	23.45	21.975	
3,400.0	3,352.8	3,345.8	3,279.2	12.7	13.6	103.93	-628.8	16.0	533.8	509.5	24.28	21.988	
3,500.0	3,451.1	3,444.1	3,374.9	13.2	14.1	103.86	-651.3	16.6	552.2	527.1	25.10	22.000	
3,600.0	3,549.4	3,542.4	3,470.6	13.6	14.5	103.80	-673.8	17.3	570.6	544.7	25.92	22.011	
3,700.0	3,647.8	3,640.7	3,566.3	14.0	15.0	103.75	-696.3	17.9	589.0	562.3	26.75	22.022	
3,800.0	3,746.1	3,738.9	3,661.9	14.4	15.5	103.70	-718.8	18.5	607.4	579.9	27.57	22.032	
3,900.0	3,844.4	3,837.2	3,757.6	14.8	16.0	103.65	-741.3	19.2	625.9	597.5	28.40	22.041	
4,000.0	3,942.7	3,935.5	3,853.3	15.3	16.5	103.60	-763.8	19.8	644.3	615.0	29.22	22.049	
4,100.0	4,041.1	4,033.8	3,949.0	15.7	17.0	103.56	-786.3	20.5	662.7	632.6	30.04	22.057	
4,200.0	4,139.4	4,132.1	4,044.6	16.1	17.4	103.52	-808.8	21.1	681.1	650.2	30.87	22.065	
4,300.0	4,237.7	4,230.4	4,140.3	16.5	17.9	103.48	-831.3	21.8	699.5	667.8	31.69	22.072	
4,400.0	4,336.0	4,328.7	4,236.0	16.9	18.4	103.44	-853.8	22.4	717.9	685.4	32.52	22.079	
4,500.0	4,434.4	4,427.0	4,331.7	17.4	18.9	103.41	-876.3	23.0	736.3	703.0	33.34	22.085	
4,600.0	4,532.7	4,525.3	4,427.4	17.8	19.4	103.38	-898.8	23.7	754.7	720.6	34.16	22.091	
4,700.0	4,631.0	4,623.6	4,523.0	18.2	19.9	103.34	-921.3	24.3	773.1	738.1	34.99	22.096	

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 Mojack 8-28
Project:	SEC.28-T7N-R64W	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Reference Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Mojack 8-28	**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 (3-28-12)	**Offset TVD Reference:**	Offset Datum

Offset Design Mojack 24-28 Pad Sec.28-T7N-R64W - Mojack 24-28 - Wellbore #1 - Plan #1 (3-27-12)

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
4,800.0	4,729.3	4,721.8	4,618.7	18.6	20.4	103.31	-943.8	25.0	791.5	755.7	35.81	22.102	
4,900.0	4,827.7	4,820.1	4,714.4	19.1	20.8	103.28	-966.3	25.6	810.0	773.3	36.64	22.107	
5,000.0	4,926.0	4,918.4	4,810.1	19.5	21.3	103.26	-988.8	26.2	828.4	790.9	37.46	22.112	
5,052.5	4,977.6	4,970.0	4,860.3	19.7	21.6	103.24	-1,000.6	26.6	838.0	800.1	37.90	22.114	
5,100.0	5,024.4	5,016.7	4,905.8	19.9	21.8	103.38	-1,011.3	26.9	846.7	808.4	38.28	22.118	
5,200.0	5,123.2	5,115.1	5,001.5	20.1	22.3	103.48	-1,033.8	27.5	864.3	825.3	38.98	22.172	
5,300.0	5,222.6	5,226.3	5,110.0	20.4	22.8	103.32	-1,058.5	28.2	880.8	841.2	39.61	22.237	
5,400.0	5,322.3	5,348.9	5,230.4	20.5	23.1	103.04	-1,081.1	28.9	894.2	854.1	40.11	22.296	
5,500.0	5,422.2	5,472.6	5,352.8	20.7	23.4	102.69	-1,098.8	29.4	904.2	863.7	40.51	22.319	
5,577.8	5,500.0	5,569.6	5,449.3	20.8	23.6	-131.10	-1,108.9	29.7	909.6	868.8	40.77	22.308	
5,600.0	5,522.2	5,597.3	5,476.9	20.8	23.7	-131.22	-1,111.2	29.7	910.7	869.9	40.84	22.301	
5,700.0	5,622.2	5,722.7	5,602.1	20.9	23.9	-131.55	-1,118.2	29.9	914.3	873.2	41.10	22.245	
5,800.0	5,722.2	5,842.8	5,722.2	21.0	24.0	-131.64	-1,119.9	30.0	915.2	873.8	41.36	22.129	
5,900.0	5,822.2	5,942.8	5,822.2	21.2	24.1	-131.64	-1,119.9	30.0	915.2	873.6	41.58	22.007	
6,000.0	5,922.2	6,042.8	5,922.2	21.3	24.2	-131.64	-1,119.9	30.0	915.2	873.4	41.81	21.889	
6,100.0	6,022.2	6,142.8	6,022.2	21.4	24.3	-131.64	-1,119.9	30.0	915.2	873.1	42.04	21.771	
6,200.0	6,122.2	6,242.8	6,122.2	21.5	24.4	-131.64	-1,119.9	30.0	915.2	872.9	42.27	21.651	
6,300.0	6,222.2	6,342.8	6,222.2	21.6	24.5	-131.64	-1,119.9	30.0	915.2	872.7	42.50	21.532	
6,400.0	6,322.2	6,442.8	6,322.2	21.8	24.6	-131.64	-1,119.9	30.0	915.2	872.4	42.74	21.412	
6,500.0	6,422.2	6,542.8	6,422.2	21.9	24.7	-131.64	-1,119.9	30.0	915.2	872.2	42.98	21.291	
6,600.0	6,522.2	6,642.8	6,522.2	22.0	24.8	-131.64	-1,119.9	30.0	915.2	871.9	43.23	21.171	
6,700.0	6,622.2	6,742.8	6,622.2	22.1	24.9	-131.64	-1,119.9	30.0	915.2	871.7	43.48	21.050	
6,800.0	6,722.2	6,842.8	6,722.2	22.3	25.0	-131.64	-1,119.9	30.0	915.2	871.4	43.73	20.929	
6,900.0	6,822.2	6,942.8	6,822.2	22.4	25.1	-131.64	-1,119.9	30.0	915.2	871.2	43.98	20.808	
7,000.0	6,922.2	7,042.8	6,922.2	22.5	25.2	-131.64	-1,119.9	30.0	915.2	870.9	44.24	20.686	
7,100.0	7,022.2	7,142.8	7,022.2	22.7	25.3	-131.64	-1,119.9	30.0	915.2	870.7	44.50	20.565	
7,200.0	7,122.2	7,242.8	7,122.2	22.8	25.4	-131.64	-1,119.9	30.0	915.2	870.4	44.76	20.444	
7,300.0	7,222.2	7,342.8	7,222.2	22.9	25.5	-131.64	-1,119.9	30.0	915.2	870.1	45.03	20.323	
7,400.0	7,322.2	7,442.8	7,322.2	23.1	25.6	-131.64	-1,119.9	30.0	915.2	869.9	45.30	20.202	
7,427.8	7,350.0	7,470.6	7,350.0	23.1	25.7	-131.64	-1,119.9	30.0	915.2	869.8	45.38	20.168	

Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Mojack 8-28
Project:	SEC.28-T7N-R64W	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Reference Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Mojack 8-28	**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 (3-28-12)	**Offset TVD Reference:**	Offset Datum

Offset Design Mojack 24-28 Pad Sec.28-T7N-R64W - Mojack 7-28 - Wellbore #1 - Plan #1 (3-28-12)

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
0.0	0.0	0.0	0.0	0.0	0.0	-177.87	-14.9	-0.6	14.9	14.9	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-177.87	-14.9	-0.6	14.9	14.7	0.22	66.449	
200.0	200.0	200.0	200.0	0.3	0.3	-177.87	-14.9	-0.6	14.9	14.3	0.67	22.150	
265.4	265.4	265.4	265.4	0.5	0.5	90.00	-14.9	-0.6	14.9	14.0	0.96	15.520	CC
300.0	300.0	300.0	300.0	0.6	0.6	93.83	-14.9	-0.6	15.0	13.8	1.11	13.436	ES
400.0	399.8	399.8	399.8	0.8	0.8	112.62	-14.9	-0.6	16.2	14.6	1.56	10.359	
450.0	449.7	449.7	449.7	0.9	0.9	124.14	-14.9	-0.6	18.0	16.3	1.79	10.060	SF
500.0	499.5	499.5	499.5	1.0	1.0	127.01	-14.9	-0.6	20.7	18.7	2.02	10.266	
600.0	598.8	598.8	598.8	1.3	1.2	135.27	-14.9	-0.6	28.1	25.6	2.47	11.381	
700.0	697.9	697.9	697.9	1.6	1.5	143.52	-14.9	-0.6	38.8	35.9	2.92	13.279	
788.2	784.8	784.8	784.8	1.9	1.7	149.43	-14.9	-0.6	51.2	47.9	3.32	15.429	
800.0	796.4	796.4	796.4	1.9	1.7	150.61	-14.9	-0.6	53.1	49.7	3.37	15.740	
900.0	894.7	894.7	894.7	2.3	1.9	157.97	-14.9	-0.6	69.6	65.8	3.83	18.175	
1,000.0	993.0	990.4	990.4	2.7	2.1	162.08	-14.9	-2.0	88.2	83.9	4.28	20.610	
1,100.0	1,091.4	1,084.9	1,084.7	3.1	2.3	164.13	-14.9	-6.5	110.1	105.4	4.73	23.274	
1,200.0	1,189.7	1,179.2	1,178.7	3.5	2.5	164.95	-15.1	-14.1	135.0	129.8	5.19	26.001	
1,300.0	1,288.0	1,275.7	1,274.7	3.9	2.7	164.52	-17.5	-23.5	160.6	154.9	5.64	28.483	
1,400.0	1,386.3	1,371.9	1,370.2	4.4	2.9	163.18	-22.8	-34.2	186.4	180.3	6.11	30.513	
1,500.0	1,484.7	1,467.7	1,465.0	4.8	3.2	161.28	-31.1	-46.1	212.5	205.9	6.61	32.128	
1,600.0	1,583.0	1,562.9	1,558.6	5.2	3.4	159.01	-42.2	-59.1	239.2	232.0	7.16	33.415	
1,700.0	1,681.3	1,658.7	1,652.5	5.6	3.8	156.84	-54.8	-72.8	266.4	258.7	7.74	34.401	
1,800.0	1,779.6	1,754.4	1,746.4	6.0	4.1	155.07	-67.4	-86.5	294.0	285.6	8.34	35.226	
1,900.0	1,878.0	1,850.2	1,840.4	6.4	4.4	153.61	-80.0	-100.3	321.7	312.7	8.96	35.901	
2,000.0	1,976.3	1,946.0	1,934.3	6.9	4.8	152.37	-92.6	-114.0	349.6	340.0	9.58	36.484	
2,100.0	2,074.6	2,041.8	2,028.3	7.3	5.2	151.32	-105.2	-127.7	377.6	367.4	10.21	36.984	
2,200.0	2,172.9	2,137.5	2,122.2	7.7	5.6	150.41	-117.8	-141.4	405.8	394.9	10.85	37.416	
2,300.0	2,271.2	2,233.3	2,216.2	8.1	5.9	149.62	-130.4	-155.1	434.0	422.5	11.48	37.794	
2,400.0	2,369.6	2,329.1	2,310.1	8.5	6.3	148.93	-143.0	-168.8	462.3	450.2	12.13	38.126	
2,500.0	2,467.9	2,424.9	2,404.1	8.9	6.7	148.31	-155.6	-182.6	490.6	477.9	12.77	38.421	
2,600.0	2,566.2	2,520.6	2,498.0	9.4	7.1	147.77	-168.3	-196.3	519.0	505.6	13.42	38.684	
2,700.0	2,664.5	2,616.4	2,591.9	9.8	7.5	147.28	-180.9	-210.0	547.4	533.4	14.07	38.921	
2,800.0	2,762.9	2,712.2	2,685.9	10.2	7.9	146.84	-193.5	-223.7	575.9	561.2	14.72	39.134	
2,900.0	2,861.2	2,808.0	2,779.8	10.6	8.3	146.44	-206.1	-237.4	604.4	589.0	15.37	39.328	
3,000.0	2,959.5	2,903.7	2,873.8	11.1	8.7	146.07	-218.7	-251.1	632.9	616.9	16.02	39.504	
3,100.0	3,057.8	2,999.5	2,967.7	11.5	9.1	145.74	-231.3	-264.8	661.4	644.8	16.68	39.665	
3,200.0	3,156.2	3,095.3	3,061.7	11.9	9.6	145.43	-243.9	-278.6	690.0	672.7	17.33	39.813	
3,300.0	3,254.5	3,191.1	3,155.6	12.3	10.0	145.15	-256.5	-292.3	718.6	700.6	17.99	39.950	
3,400.0	3,352.8	3,286.8	3,249.6	12.7	10.4	144.89	-269.1	-306.0	747.2	728.5	18.64	40.076	
3,500.0	3,451.1	3,382.6	3,343.5	13.2	10.8	144.65	-281.7	-319.7	775.8	756.5	19.30	40.192	
3,600.0	3,549.4	3,478.4	3,437.4	13.6	11.2	144.43	-294.3	-333.4	804.4	784.4	19.96	40.301	
3,700.0	3,647.8	3,574.2	3,531.4	14.0	11.6	144.22	-306.9	-347.1	833.0	812.4	20.62	40.402	
3,800.0	3,746.1	3,669.9	3,625.3	14.4	12.0	144.02	-319.6	-360.9	861.6	840.3	21.28	40.496	
3,900.0	3,844.4	3,765.7	3,719.3	14.8	12.4	143.84	-332.2	-374.6	890.3	868.3	21.94	40.585	
4,000.0	3,942.7	3,861.5	3,813.2	15.3	12.9	143.67	-344.8	-388.3	918.9	896.3	22.60	40.668	
4,100.0	4,041.1	3,957.3	3,907.2	15.7	13.3	143.51	-357.4	-402.0	947.6	924.3	23.26	40.745	
4,200.0	4,139.4	4,053.0	4,001.1	16.1	13.7	143.36	-370.0	-415.7	976.2	952.3	23.92	40.818	
4,300.0	4,237.7	4,148.8	4,095.1	16.5	14.1	143.22	-382.6	-429.4	1,004.9	980.3	24.58	40.887	
4,400.0	4,336.0	4,244.6	4,189.0	16.9	14.5	143.08	-395.2	-443.2	1,033.5	1,008.3	25.24	40.953	
4,500.0	4,434.4	4,340.4	4,283.0	17.4	14.9	142.96	-407.8	-456.9	1,062.2	1,036.3	25.90	41.014	
4,600.0	4,532.7	4,436.1	4,376.9	17.8	15.4	142.84	-420.4	-470.6	1,090.9	1,064.3	26.56	41.072	
4,700.0	4,631.0	4,531.9	4,470.8	18.2	15.8	142.72	-433.0	-484.3	1,119.6	1,092.4	27.22	41.128	

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 Mojack 8-28
Project:	SEC.28-T7N-R64W	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Reference Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Mojack 8-28	**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 (3-28-12)	**Offset TVD Reference:**	Offset Datum

Offset Design Mojack 24-28 Pad Sec.28-T7N-R64W - Mojack 7-28 - Wellbore #1 - Plan #1 (3-28-12)

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
4,800.0	4,729.3	4,627.7	4,564.8	18.6	16.2	142.61	-445.6	-498.0	1,148.3	1,120.4	27.88	41.180	
4,900.0	4,827.7	4,723.5	4,658.7	19.1	16.6	142.51	-458.2	-511.7	1,177.0	1,148.4	28.55	41.230	
5,000.0	4,926.0	4,819.2	4,752.7	19.5	17.0	142.41	-470.9	-525.5	1,205.7	1,176.5	29.21	41.277	
5,052.5	4,977.6	4,869.5	4,802.0	19.7	17.3	142.36	-477.5	-532.7	1,220.7	1,191.2	29.56	41.301	
5,100.0	5,024.4	4,915.1	4,846.7	19.9	17.5	142.48	-483.5	-539.2	1,234.1	1,204.2	29.89	41.290	
5,200.0	5,123.2	5,011.5	4,941.3	20.1	17.9	142.62	-496.2	-553.0	1,260.2	1,229.7	30.52	41.297	
5,300.0	5,222.6	5,108.6	5,036.5	20.4	18.3	142.63	-508.9	-566.9	1,283.6	1,252.5	31.11	41.262	
5,400.0	5,322.3	5,253.1	5,178.9	20.5	18.8	142.43	-525.8	-585.2	1,302.7	1,271.0	31.72	41.068	
5,500.0	5,422.2	5,403.9	5,328.5	20.7	19.1	142.24	-538.1	-598.6	1,315.3	1,283.1	32.22	40.822	
5,577.8	5,500.0	5,522.5	5,446.8	20.8	19.4	-91.40	-544.0	-605.1	1,320.5	1,288.0	32.56	40.562	
5,600.0	5,522.2	5,556.4	5,480.7	20.8	19.4	-91.44	-545.1	-606.3	1,321.3	1,288.7	32.64	40.478	
5,700.0	5,622.2	5,697.9	5,622.2	20.9	19.6	-91.52	-546.8	-608.1	1,322.5	1,289.5	33.00	40.080	
5,800.0	5,722.2	5,797.9	5,722.2	21.0	19.7	-91.52	-546.8	-608.1	1,322.5	1,289.3	33.27	39.748	
5,900.0	5,822.2	5,897.9	5,822.2	21.2	19.9	-91.52	-546.8	-608.1	1,322.5	1,289.0	33.55	39.418	
6,000.0	5,922.2	5,997.9	5,922.2	21.3	20.0	-91.52	-546.8	-608.1	1,322.5	1,288.7	33.83	39.089	
6,100.0	6,022.2	6,097.9	6,022.2	21.4	20.1	-91.52	-546.8	-608.1	1,322.5	1,288.4	34.12	38.762	
6,200.0	6,122.2	6,197.9	6,122.2	21.5	20.2	-91.52	-546.8	-608.1	1,322.5	1,288.1	34.41	38.436	
6,300.0	6,222.2	6,297.9	6,222.2	21.6	20.4	-91.52	-546.8	-608.1	1,322.5	1,287.8	34.70	38.111	
6,400.0	6,322.2	6,397.9	6,322.2	21.8	20.5	-91.52	-546.8	-608.1	1,322.5	1,287.5	35.00	37.789	
6,500.0	6,422.2	6,497.9	6,422.2	21.9	20.6	-91.52	-546.8	-608.1	1,322.5	1,287.2	35.30	37.468	
6,600.0	6,522.2	6,597.9	6,522.2	22.0	20.8	-91.52	-546.8	-608.1	1,322.5	1,286.9	35.60	37.150	
6,700.0	6,622.2	6,697.9	6,622.2	22.1	20.9	-91.52	-546.8	-608.1	1,322.5	1,286.6	35.91	36.834	
6,800.0	6,722.2	6,797.9	6,722.2	22.3	21.0	-91.52	-546.8	-608.1	1,322.5	1,286.3	36.21	36.520	
6,900.0	6,822.2	6,897.9	6,822.2	22.4	21.2	-91.52	-546.8	-608.1	1,322.5	1,286.0	36.53	36.208	
7,000.0	6,922.2	6,997.9	6,922.2	22.5	21.3	-91.52	-546.8	-608.1	1,322.5	1,285.7	36.84	35.899	
7,100.0	7,022.2	7,097.9	7,022.2	22.7	21.4	-91.52	-546.8	-608.1	1,322.5	1,285.4	37.16	35.593	
7,200.0	7,122.2	7,197.9	7,122.2	22.8	21.6	-91.52	-546.8	-608.1	1,322.5	1,285.0	37.48	35.289	
7,300.0	7,222.2	7,297.9	7,222.2	22.9	21.7	-91.52	-546.8	-608.1	1,322.5	1,284.7	37.80	34.988	
7,400.0	7,322.2	7,397.9	7,322.2	23.1	21.9	-91.52	-546.8	-608.1	1,322.5	1,284.4	38.12	34.689	
7,427.8	7,350.0	7,425.8	7,350.0	23.1	21.9	-91.52	-546.8	-608.1	1,322.5	1,284.3	38.22	34.607	

Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Mojack 8-28
Project:	SEC.28-T7N-R64W	**TVD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Reference Site:	Mojack 24-28 Pad Sec.28-T7N-R64W	**MD Reference:**	WELL @ 4908.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Mojack 8-28	**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 (3-28-12)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4908.0ft (Original Well Elev) Coordinates are relative to: Mojack 8-28
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: 0.61°

Company:	BAYSWATER EXPLORATION & PRODUCTION	**Local Co-ordinate Reference:**	Well Mojack 8-28
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Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Mojack 8-28	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
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