

Bayswater Exploration & Production, LLC

Well Name: **Ivey I-14-23HN**

Surface Location: Ivey Pad Sec.11-T1S-R68W

North American Datum 1983, US State Plane 1983, Colorado Northern Zone

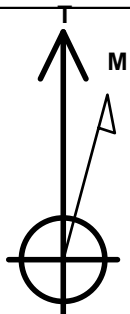
Ground Elevation: 5110.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1233611.88	3149432.98	39.973415	-104.966808	

Original Well Elev WELL @ 5132.5ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 506'FSL, 2070'FEL, SEC.11	1.0	0.0	0.0	Point
BHL 2600'FNL, 2500'FEL, SEC.23	7742.0	-8401.1	-404.0	Point
LANDING PT. 465'FNL, 2500'FEL, SEC.14	7757.0	-970.4	-439.8	Point



Azimuths to True North
Magnetic North: 8.52°

Magnetic Field
Strength: 52559.8nT
Dip Angle: 66.57°
Date: 7/10/2014
Model: IGRF2010

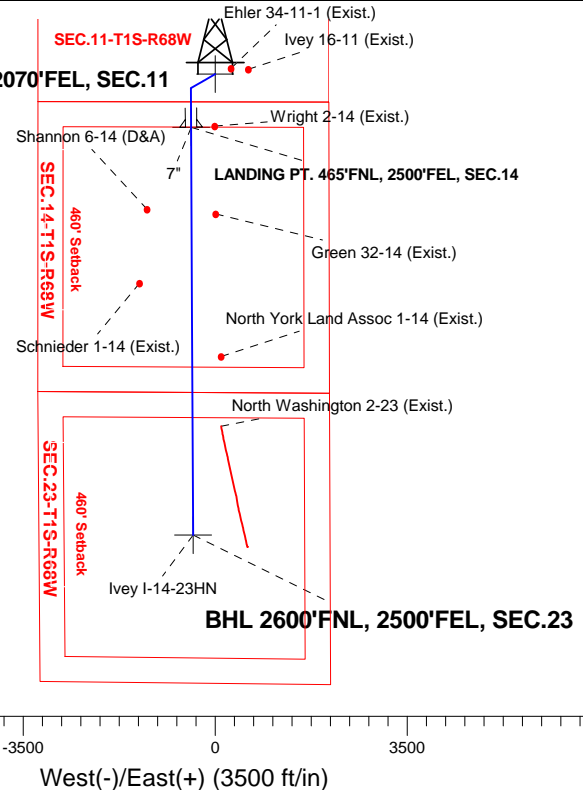
Ivey Pad Sec.11-T1S-R68W
Ivey I-14-23HN
Plan #2 (11-4-14)
12:17, November 07 2014

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP - Start Build 2.00
4930.6	4961.6	Start Drop -2.00
7042.4	7074.5	KOP #2 - Start Build 8.02
7742.0	15629.2	TD at 15629.2

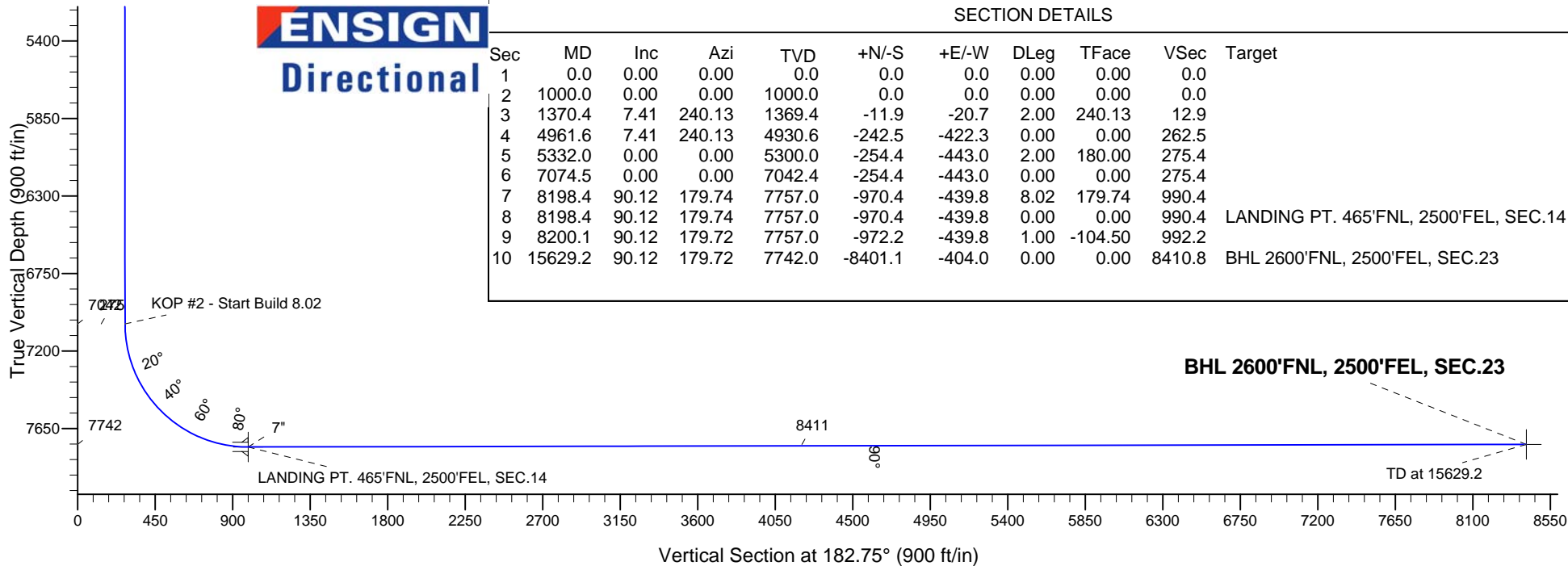
South(-)/North(+) (3500 ft/in)

SHL 506'FSL, 2070'FEL, SEC.11



ENSIGN
Directional

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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1370.4	7.41	240.13	1369.4	-11.9	-20.7	2.00	240.13	12.9	
4	4961.6	7.41	240.13	4930.6	-242.5	-422.3	0.00	0.00	262.5	
5	5332.0	0.00	0.00	5300.0	-254.4	-443.0	2.00	180.00	275.4	
6	7074.5	0.00	0.00	7042.4	-254.4	-443.0	0.00	0.00	275.4	
7	8198.4	90.12	179.74	7757.0	-970.4	-439.8	8.02	179.74	990.4	
8	8198.4	90.12	179.74	7757.0	-970.4	-439.8	0.00	0.00	990.4	LANDING PT. 465'FNL, 2500'FEL, SEC.14
9	8200.1	90.12	179.72	7757.0	-972.2	-439.8	1.00	-104.50	992.2	
10	15629.2	90.12	179.72	7742.0	-8401.1	-404.0	0.00	0.00	8410.8	BHL 2600'FNL, 2500'FEL, SEC.23





Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey I-14-23HN

Wellbore #1

Plan: Plan #2 (11-4-14)

Standard Planning Report

07 November, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey I-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-4-14)		

Project	SEC.11-T1S-R68W, 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						Ivey Pad Sec.11-T1S-R68W											
Site Position:						Northing:			1,234,283.31 ft			Latitude:			39.975252		
From:			Lat/Long			Easting:			3,149,805.06 ft			Longitude:			-104.965466		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.35 °		

Well	Ivey I-14-23HN					
Well Position	+N-S	-669.2 ft	Northing:	1,233,611.88 ft	Latitude:	39.973415
	+E-W	-376.1 ft	Easting:	3,149,432.98 ft	Longitude:	-104.966808
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,110.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/10/2014	8.52	66.57	52,560

Design	Plan #2 (11-4-14)			
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	182.75

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,370.4	7.41	240.13	1,369.4	-11.9	-20.7	2.00	2.00	0.00	240.13	
4,961.6	7.41	240.13	4,930.6	-242.5	-422.3	0.00	0.00	0.00	0.00	
5,332.0	0.00	0.00	5,300.0	-254.4	-443.0	2.00	-2.00	0.00	180.00	
7,074.5	0.00	0.00	7,042.4	-254.4	-443.0	0.00	0.00	0.00	0.00	
8,198.4	90.12	179.74	7,757.0	-970.4	-439.8	8.02	8.02	0.00	179.74	
8,198.4	90.12	179.74	7,757.0	-970.4	-439.8	0.00	0.00	0.00	0.00	LANDING PT. 465'I
8,200.1	90.12	179.72	7,757.0	-972.2	-439.8	1.00	-0.25	-0.97	-104.50	
15,629.2	90.12	179.72	7,742.0	-8,401.1	-404.0	0.00	0.00	0.00	0.00	BHL 2600'FNL, 250

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Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey I-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-4-14)		

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
100.0	0.00	0.00	100.0	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
300.0	0.00	0.00	300.0	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
500.0	0.00	0.00	500.0	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
700.0	0.00	0.00	700.0	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
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 2.00									
1,100.0	2.00	240.13	1,100.0	-0.9	-1.5	0.9	2.00	2.00	0.00
1,200.0	4.00	240.13	1,199.8	-3.5	-6.1	3.8	2.00	2.00	0.00
1,300.0	6.00	240.13	1,299.5	-7.8	-13.6	8.5	2.00	2.00	0.00
1,370.4	7.41	240.13	1,369.4	-11.9	-20.7	12.9	2.00	2.00	0.00
1,400.0	7.41	240.13	1,398.7	-13.8	-24.0	14.9	0.00	0.00	0.00
1,500.0	7.41	240.13	1,497.9	-20.2	-35.2	21.9	0.00	0.00	0.00
1,600.0	7.41	240.13	1,597.1	-26.6	-46.4	28.8	0.00	0.00	0.00
1,700.0	7.41	240.13	1,696.2	-33.1	-57.6	35.8	0.00	0.00	0.00
1,800.0	7.41	240.13	1,795.4	-39.5	-68.8	42.7	0.00	0.00	0.00
1,900.0	7.41	240.13	1,894.5	-45.9	-79.9	49.7	0.00	0.00	0.00
2,000.0	7.41	240.13	1,993.7	-52.3	-91.1	56.6	0.00	0.00	0.00
2,100.0	7.41	240.13	2,092.9	-58.8	-102.3	63.6	0.00	0.00	0.00
2,200.0	7.41	240.13	2,192.0	-65.2	-113.5	70.6	0.00	0.00	0.00
2,300.0	7.41	240.13	2,291.2	-71.6	-124.7	77.5	0.00	0.00	0.00
2,400.0	7.41	240.13	2,390.4	-78.0	-135.9	84.5	0.00	0.00	0.00
2,500.0	7.41	240.13	2,489.5	-84.4	-147.0	91.4	0.00	0.00	0.00
2,600.0	7.41	240.13	2,588.7	-90.9	-158.2	98.4	0.00	0.00	0.00
2,700.0	7.41	240.13	2,687.9	-97.3	-169.4	105.3	0.00	0.00	0.00
2,800.0	7.41	240.13	2,787.0	-103.7	-180.6	112.3	0.00	0.00	0.00
2,900.0	7.41	240.13	2,886.2	-110.1	-191.8	119.2	0.00	0.00	0.00
3,000.0	7.41	240.13	2,985.4	-116.5	-202.9	126.2	0.00	0.00	0.00
3,100.0	7.41	240.13	3,084.5	-123.0	-214.1	133.1	0.00	0.00	0.00
3,200.0	7.41	240.13	3,183.7	-129.4	-225.3	140.1	0.00	0.00	0.00
3,300.0	7.41	240.13	3,282.9	-135.8	-236.5	147.0	0.00	0.00	0.00
3,400.0	7.41	240.13	3,382.0	-142.2	-247.7	154.0	0.00	0.00	0.00
3,500.0	7.41	240.13	3,481.2	-148.6	-258.8	160.9	0.00	0.00	0.00
3,600.0	7.41	240.13	3,580.4	-155.1	-270.0	167.9	0.00	0.00	0.00
3,700.0	7.41	240.13	3,679.5	-161.5	-281.2	174.8	0.00	0.00	0.00
3,800.0	7.41	240.13	3,778.7	-167.9	-292.4	181.8	0.00	0.00	0.00
3,900.0	7.41	240.13	3,877.9	-174.3	-303.6	188.7	0.00	0.00	0.00
4,000.0	7.41	240.13	3,977.0	-180.7	-314.7	195.7	0.00	0.00	0.00
4,100.0	7.41	240.13	4,076.2	-187.2	-325.9	202.6	0.00	0.00	0.00
4,200.0	7.41	240.13	4,175.4	-193.6	-337.1	209.6	0.00	0.00	0.00
4,300.0	7.41	240.13	4,274.5	-200.0	-348.3	216.5	0.00	0.00	0.00
4,400.0	7.41	240.13	4,373.7	-206.4	-359.5	223.5	0.00	0.00	0.00
4,500.0	7.41	240.13	4,472.8	-212.9	-370.6	230.4	0.00	0.00	0.00
4,600.0	7.41	240.13	4,572.0	-219.3	-381.8	237.4	0.00	0.00	0.00
4,700.0	7.41	240.13	4,671.2	-225.7	-393.0	244.3	0.00	0.00	0.00
4,800.0	7.41	240.13	4,770.3	-232.1	-404.2	251.3	0.00	0.00	0.00
4,900.0	7.41	240.13	4,869.5	-238.5	-415.4	258.2	0.00	0.00	0.00
4,961.6	7.41	240.13	4,930.6	-242.5	-422.3	262.5	0.00	0.00	0.00
Start Drop -2.00									

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Well:	Ivey I-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-4-14)		

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)	
5,000.0	6.64	240.13	4,968.7	-244.8	-426.3	265.0	2.00	-2.00	0.00	
5,100.0	4.64	240.13	5,068.2	-249.7	-434.9	270.3	2.00	-2.00	0.00	
5,200.0	2.64	240.13	5,168.0	-252.9	-440.4	273.7	2.00	-2.00	0.00	
5,300.0	0.64	240.13	5,268.0	-254.3	-442.8	275.3	2.00	-2.00	0.00	
5,332.0	0.00	0.00	5,300.0	-254.4	-443.0	275.4	2.00	-2.00	0.00	
5,400.0	0.00	0.00	5,368.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,468.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,568.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,668.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,768.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,868.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,968.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,068.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,168.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,268.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,368.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,468.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,568.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,668.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,768.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,868.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,968.0	-254.4	-443.0	275.4	0.00	0.00	0.00	
7,074.5	0.00	0.00	7,042.5	-254.4	-443.0	275.4	0.00	0.00	0.00	
KOP #2 - Start Build 8.02										
7,100.0	2.05	179.74	7,068.0	-254.9	-443.0	275.8	8.02	8.02	0.00	
7,200.0	10.06	179.74	7,167.3	-265.4	-443.0	286.4	8.02	8.02	0.00	
7,300.0	18.08	179.74	7,264.2	-289.7	-442.8	310.6	8.02	8.02	0.00	
7,400.0	26.10	179.74	7,356.8	-327.3	-442.7	348.2	8.02	8.02	0.00	
7,500.0	34.12	179.74	7,443.3	-377.4	-442.4	398.2	8.02	8.02	0.00	
7,600.0	42.14	179.74	7,521.9	-439.1	-442.2	459.8	8.02	8.02	0.00	
7,700.0	50.16	179.74	7,591.1	-511.1	-441.8	531.8	8.02	8.02	0.00	
7,800.0	58.17	179.74	7,649.6	-592.1	-441.5	612.7	8.02	8.02	0.00	
7,900.0	66.19	179.74	7,696.2	-680.5	-441.1	700.9	8.02	8.02	0.00	
8,000.0	74.21	179.74	7,730.0	-774.5	-440.6	794.8	8.02	8.02	0.00	
8,100.0	82.23	179.74	7,750.4	-872.3	-440.2	892.5	8.02	8.02	0.00	
8,198.4	90.12	179.74	7,757.0	-970.4	-439.8	990.4	8.02	8.02	0.00	
7"										
8,200.0	90.12	179.73	7,757.0	-972.0	-439.8	992.0	1.00	-0.25	-0.97	
8,200.1	90.12	179.72	7,757.0	-972.2	-439.8	992.2	1.00	-0.25	-0.97	
8,300.0	90.12	179.72	7,756.8	-1,072.0	-439.3	1,091.9	0.00	0.00	0.00	
8,400.0	90.12	179.72	7,756.6	-1,172.0	-438.8	1,191.8	0.00	0.00	0.00	
8,500.0	90.12	179.72	7,756.4	-1,272.0	-438.3	1,291.6	0.00	0.00	0.00	
8,600.0	90.12	179.72	7,756.2	-1,372.0	-437.8	1,391.5	0.00	0.00	0.00	
8,700.0	90.12	179.72	7,756.0	-1,472.0	-437.4	1,491.3	0.00	0.00	0.00	
8,800.0	90.12	179.72	7,755.8	-1,572.0	-436.9	1,591.2	0.00	0.00	0.00	
8,900.0	90.12	179.72	7,755.6	-1,672.0	-436.4	1,691.1	0.00	0.00	0.00	
9,000.0	90.12	179.72	7,755.4	-1,772.0	-435.9	1,790.9	0.00	0.00	0.00	
9,100.0	90.12	179.72	7,755.2	-1,872.0	-435.4	1,890.8	0.00	0.00	0.00	
9,200.0	90.12	179.72	7,755.0	-1,972.0	-434.9	1,990.6	0.00	0.00	0.00	
9,300.0	90.12	179.72	7,754.8	-2,072.0	-434.5	2,090.5	0.00	0.00	0.00	
9,400.0	90.12	179.72	7,754.6	-2,172.0	-434.0	2,190.4	0.00	0.00	0.00	
9,500.0	90.12	179.72	7,754.4	-2,272.0	-433.5	2,290.2	0.00	0.00	0.00	
9,600.0	90.12	179.72	7,754.2	-2,372.0	-433.0	2,390.1	0.00	0.00	0.00	
9,700.0	90.12	179.72	7,754.0	-2,472.0	-432.5	2,489.9	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey I-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-4-14)		

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)
9,800.0	90.12	179.72	7,753.8	-2,572.0	-432.1	2,589.8	0.00	0.00	0.00
9,900.0	90.12	179.72	7,753.6	-2,672.0	-431.6	2,689.7	0.00	0.00	0.00
10,000.0	90.12	179.72	7,753.4	-2,772.0	-431.1	2,789.5	0.00	0.00	0.00
10,100.0	90.12	179.72	7,753.2	-2,872.0	-430.6	2,889.4	0.00	0.00	0.00
10,200.0	90.12	179.72	7,753.0	-2,972.0	-430.1	2,989.2	0.00	0.00	0.00
10,300.0	90.12	179.72	7,752.8	-3,072.0	-429.7	3,089.1	0.00	0.00	0.00
10,400.0	90.12	179.72	7,752.6	-3,172.0	-429.2	3,189.0	0.00	0.00	0.00
10,500.0	90.12	179.72	7,752.4	-3,272.0	-428.7	3,288.8	0.00	0.00	0.00
10,600.0	90.12	179.72	7,752.2	-3,372.0	-428.2	3,388.7	0.00	0.00	0.00
10,700.0	90.12	179.72	7,752.0	-3,472.0	-427.7	3,488.5	0.00	0.00	0.00
10,800.0	90.12	179.72	7,751.7	-3,572.0	-427.2	3,588.4	0.00	0.00	0.00
10,900.0	90.12	179.72	7,751.5	-3,672.0	-426.8	3,688.3	0.00	0.00	0.00
11,000.0	90.12	179.72	7,751.3	-3,772.0	-426.3	3,788.1	0.00	0.00	0.00
11,100.0	90.12	179.72	7,751.1	-3,872.0	-425.8	3,888.0	0.00	0.00	0.00
11,200.0	90.12	179.72	7,750.9	-3,972.0	-425.3	3,987.8	0.00	0.00	0.00
11,300.0	90.12	179.72	7,750.7	-4,072.0	-424.8	4,087.7	0.00	0.00	0.00
11,400.0	90.12	179.72	7,750.5	-4,172.0	-424.4	4,187.6	0.00	0.00	0.00
11,500.0	90.12	179.72	7,750.3	-4,272.0	-423.9	4,287.4	0.00	0.00	0.00
11,600.0	90.12	179.72	7,750.1	-4,372.0	-423.4	4,387.3	0.00	0.00	0.00
11,700.0	90.12	179.72	7,749.9	-4,472.0	-422.9	4,487.1	0.00	0.00	0.00
11,800.0	90.12	179.72	7,749.7	-4,572.0	-422.4	4,587.0	0.00	0.00	0.00
11,900.0	90.12	179.72	7,749.5	-4,672.0	-422.0	4,686.9	0.00	0.00	0.00
12,000.0	90.12	179.72	7,749.3	-4,772.0	-421.5	4,786.7	0.00	0.00	0.00
12,100.0	90.12	179.72	7,749.1	-4,872.0	-421.0	4,886.6	0.00	0.00	0.00
12,200.0	90.12	179.72	7,748.9	-4,972.0	-420.5	4,986.4	0.00	0.00	0.00
12,300.0	90.12	179.72	7,748.7	-5,072.0	-420.0	5,086.3	0.00	0.00	0.00
12,400.0	90.12	179.72	7,748.5	-5,172.0	-419.5	5,186.2	0.00	0.00	0.00
12,500.0	90.12	179.72	7,748.3	-5,272.0	-419.1	5,286.0	0.00	0.00	0.00
12,600.0	90.12	179.72	7,748.1	-5,372.0	-418.6	5,385.9	0.00	0.00	0.00
12,700.0	90.12	179.72	7,747.9	-5,472.0	-418.1	5,485.7	0.00	0.00	0.00
12,800.0	90.12	179.72	7,747.7	-5,572.0	-417.6	5,585.6	0.00	0.00	0.00
12,900.0	90.12	179.72	7,747.5	-5,672.0	-417.1	5,685.5	0.00	0.00	0.00
13,000.0	90.12	179.72	7,747.3	-5,772.0	-416.7	5,785.3	0.00	0.00	0.00
13,100.0	90.12	179.72	7,747.1	-5,872.0	-416.2	5,885.2	0.00	0.00	0.00
13,200.0	90.12	179.72	7,746.9	-5,972.0	-415.7	5,985.0	0.00	0.00	0.00
13,300.0	90.12	179.72	7,746.7	-6,072.0	-415.2	6,084.9	0.00	0.00	0.00
13,400.0	90.12	179.72	7,746.5	-6,172.0	-414.7	6,184.8	0.00	0.00	0.00
13,500.0	90.12	179.72	7,746.3	-6,272.0	-414.3	6,284.6	0.00	0.00	0.00
13,600.0	90.12	179.72	7,746.1	-6,372.0	-413.8	6,384.5	0.00	0.00	0.00
13,700.0	90.12	179.72	7,745.9	-6,472.0	-413.3	6,484.3	0.00	0.00	0.00
13,800.0	90.12	179.72	7,745.7	-6,572.0	-412.8	6,584.2	0.00	0.00	0.00
13,900.0	90.12	179.72	7,745.5	-6,672.0	-412.3	6,684.1	0.00	0.00	0.00
14,000.0	90.12	179.72	7,745.3	-6,772.0	-411.8	6,783.9	0.00	0.00	0.00
14,100.0	90.12	179.72	7,745.1	-6,872.0	-411.4	6,883.8	0.00	0.00	0.00
14,200.0	90.12	179.72	7,744.9	-6,972.0	-410.9	6,983.7	0.00	0.00	0.00
14,300.0	90.12	179.72	7,744.7	-7,072.0	-410.4	7,083.5	0.00	0.00	0.00
14,400.0	90.12	179.72	7,744.5	-7,172.0	-409.9	7,183.4	0.00	0.00	0.00
14,500.0	90.12	179.72	7,744.3	-7,272.0	-409.4	7,283.2	0.00	0.00	0.00
14,600.0	90.12	179.72	7,744.1	-7,372.0	-409.0	7,383.1	0.00	0.00	0.00
14,700.0	90.12	179.72	7,743.9	-7,472.0	-408.5	7,483.0	0.00	0.00	0.00
14,800.0	90.12	179.72	7,743.7	-7,572.0	-408.0	7,582.8	0.00	0.00	0.00
14,900.0	90.12	179.72	7,743.5	-7,672.0	-407.5	7,682.7	0.00	0.00	0.00
15,000.0	90.12	179.72	7,743.3	-7,772.0	-407.0	7,782.5	0.00	0.00	0.00
15,100.0	90.12	179.72	7,743.1	-7,871.9	-406.6	7,882.4	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey I-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-4-14)		

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)	
15,200.0	90.12	179.72	7,742.9	-7,971.9	-406.1	7,982.3	0.00	0.00	0.00	
15,300.0	90.12	179.72	7,742.7	-8,071.9	-405.6	8,082.1	0.00	0.00	0.00	
15,400.0	90.12	179.72	7,742.5	-8,171.9	-405.1	8,182.0	0.00	0.00	0.00	
15,500.0	90.12	179.72	7,742.3	-8,271.9	-404.6	8,281.8	0.00	0.00	0.00	
15,600.0	90.12	179.72	7,742.1	-8,371.9	-404.1	8,381.7	0.00	0.00	0.00	
15,629.2	90.12	179.72	7,742.0	-8,401.1	-404.0	8,410.8	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										
LANDING PT. 465'FN	0.00	0.00	7,757.0	-970.4	-439.8	1,232,638.84	3,148,999.08	39.970751	-104.968377	
- plan hits target center										
- Point										
BHL 2600'FNL, 2500'I	0.00	0.00	7,742.0	-8,401.1	-404.0	1,225,208.76	3,149,079.51	39.950353	-104.968249	
- plan hits target center										
- Point										
SHL 506'FSL, 2070'FI	0.00	0.00	1.0	0.0	0.0	1,233,611.89	3,149,432.98	39.973415	-104.966808	
- plan hits target center										
- Point										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
8,198.4	7,757.0	7"	7	7-1/2		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.0	1,000.0	0.0	0.0	KOP - Start Build 2.00	
4,961.6	4,930.6	-11.9	-20.7	Start Drop -2.00	
7,074.5	7,042.4	-242.5	-422.3	KOP #2 - Start Build 8.02	
15,629.2	7,742.0	-254.4	-443.0	TD at 15629.2	

Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey I-14-23HN

Wellbore #1

Plan #2 (11-4-14)

Anticollision Report

07 November, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (11-4-14)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	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 11/7/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	15,629.2	Plan #2 (11-4-14) (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
Existing Pad Sec.11-T1S-R68W						
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	1,000.0	965.5	307.9	286.5	14.359	CC
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	1,100.0	1,065.5	309.7	286.0	13.102	ES
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	7,200.0	7,132.8	820.8	662.9	5.200	SF
Green 32-14 (Exist.) - Wellbore #1 - Wellbore #1	9,776.5	7,730.3	443.1	237.6	2.157	CC, ES
Green 32-14 (Exist.) - Wellbore #1 - Wellbore #1	9,800.0	7,730.3	443.7	237.8	2.155	SF
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	1,000.0	967.5	610.6	589.1	28.419	CC
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	1,100.0	1,067.5	612.2	588.5	25.858	ES
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	4,300.0	4,242.0	995.3	901.4	10.595	SF
North York Land Assoc 1-14 (Exist.) - Wellbore #1 - Well	12,379.7	7,735.1	528.4	274.4	2.080	CC, ES
North York Land Assoc 1-14 (Exist.) - Wellbore #1 - Well	12,400.0	7,735.0	528.8	274.4	2.079	SF
Schnieder 1-14 (Exist.) - Wellbore #1 - Wellbore #1	11,035.6	7,740.8	953.6	724.7	4.167	CC, ES
Schnieder 1-14 (Exist.) - Wellbore #1 - Wellbore #1	11,100.0	7,740.6	955.8	725.7	4.154	SF
Shannon 6-14 (D&A) - Wellbore #1 - Wellbore #1						Out of range
Wright 2-14 (Exist.) - Wellbore #1 - Wellbore #1	8,178.6	7,730.3	432.0	253.1	2.415	CC, ES
Wright 2-14 (Exist.) - Wellbore #1 - Wellbore #1	8,200.0	7,730.5	432.5	253.4	2.414	SF
Ivey Pad Sec.11-T1S-R68W						
Ivey I-14-23HC - Wellbore #1 - Plan #2 (11-4-14)	1,000.0	1,000.0	15.0	10.8	3.522	CC, ES
Ivey I-14-23HC - Wellbore #1 - Plan #2 (11-4-14)	15,629.2	15,847.7	297.1	90.9	1.440	Level 3, SF
Ivey J-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	1,000.0	1,000.0	30.0	25.7	7.019	CC
Ivey J-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	15,629.2	15,611.0	330.0	7.1	1.022	Level 2, ES, SF
Ivey K-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	1,000.0	1,000.0	45.0	40.7	10.541	CC, ES
Ivey K-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	15,629.2	15,709.2	666.1	345.5	2.078	SF
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	5,640.9	5,711.5	403.1	363.8	10.259	CC
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	5,700.0	5,769.3	403.3	363.6	10.166	ES
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	6,100.0	6,160.7	414.1	372.3	9.914	SF
Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	5,170.1	5,256.6	176.4	137.6	4.537	CC
Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	5,200.0	5,286.0	176.6	137.5	4.521	ES
Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	7,595.2	7,882.4	179.4	138.3	4.362	SF
North Washington Pad SEC.23-T1S-R68W						
North Washington 2-23 (Exist.) - North Washington 2-23	13,795.3	8,125.6	549.6	423.5	4.358	CC
North Washington 2-23 (Exist.) - North Washington 2-23	13,800.0	8,124.8	549.7	423.5	4.355	ES, SF

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 8707-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	70.08	104.9	289.5	309.9					
100.0	100.0	65.5	65.5	0.1	1.3	70.08	104.9	289.5	307.9	306.5	1.42	216.468		
200.0	200.0	165.5	165.5	0.3	3.3	70.08	104.9	289.5	307.9	304.3	3.65	84.429		
300.0	300.0	265.5	265.5	0.6	5.3	70.08	104.9	289.5	307.9	302.1	5.87	52.442		
400.0	400.0	365.5	365.5	0.8	7.3	70.08	104.9	289.5	307.9	299.8	8.10	38.032		
500.0	500.0	465.5	465.5	1.0	9.3	70.08	104.9	289.5	307.9	297.6	10.32	29.835		
600.0	600.0	565.5	565.5	1.2	11.3	70.08	104.9	289.5	307.9	295.4	12.55	24.544		
700.0	700.0	665.5	665.5	1.5	13.3	70.08	104.9	289.5	307.9	293.2	14.77	20.848		
800.0	800.0	765.5	765.5	1.7	15.3	70.08	104.9	289.5	307.9	290.9	17.00	18.119		
900.0	900.0	865.5	865.5	1.9	17.3	70.08	104.9	289.5	307.9	288.7	19.22	16.021		
1,000.0	1,000.0	965.5	965.5	2.1	19.3	70.08	104.9	289.5	307.9	286.5	21.45	14.359 CC		
1,100.0	1,100.0	1,065.5	1,065.5	2.3	21.3	-170.10	104.9	289.5	309.7	286.0	23.64	13.102 ES		
1,200.0	1,199.8	1,165.3	1,165.3	2.5	23.3	-170.25	104.9	289.5	314.8	289.0	25.77	12.214		
1,300.0	1,299.5	1,265.0	1,265.0	2.7	25.3	-170.48	104.9	289.5	323.4	295.5	27.88	11.602		
1,400.0	1,398.7	1,364.2	1,364.2	3.0	27.3	-170.80	104.9	289.5	335.3	305.3	29.97	11.188		
1,500.0	1,497.9	1,463.4	1,463.4	3.2	29.3	-171.13	104.9	289.5	348.0	315.9	32.14	10.827		
1,600.0	1,597.1	1,562.6	1,562.6	3.5	31.3	-171.45	104.9	289.5	360.8	326.4	34.32	10.511		
1,700.0	1,696.2	1,661.7	1,661.7	3.8	33.2	-171.74	104.9	289.5	373.5	337.0	36.51	10.232		
1,800.0	1,795.4	1,760.9	1,760.9	4.1	35.2	-172.02	104.9	289.5	386.3	347.6	38.69	9.983		
1,900.0	1,894.5	1,860.0	1,860.0	4.3	37.2	-172.28	104.9	289.5	399.1	358.2	40.88	9.761		
2,000.0	1,993.7	1,959.2	1,959.2	4.6	39.2	-172.52	104.9	289.5	411.9	368.8	43.08	9.561		
2,100.0	2,092.9	2,058.4	2,058.4	4.9	41.2	-172.74	104.9	289.5	424.6	379.4	45.27	9.380		
2,200.0	2,192.0	2,157.5	2,157.5	5.3	43.2	-172.96	104.9	289.5	437.4	390.0	47.47	9.216		
2,300.0	2,291.2	2,256.7	2,256.7	5.6	45.1	-173.16	104.9	289.5	450.2	400.6	49.66	9.066		
2,400.0	2,390.4	2,355.9	2,355.9	5.9	47.1	-173.35	104.9	289.5	463.0	411.2	51.86	8.929		
2,500.0	2,489.5	2,455.0	2,455.0	6.2	49.1	-173.53	104.9	289.5	475.9	421.8	54.06	8.802		
2,600.0	2,588.7	2,554.2	2,554.2	6.5	51.1	-173.70	104.9	289.5	488.7	432.4	56.26	8.686		
2,700.0	2,687.9	2,653.4	2,653.4	6.8	53.1	-173.86	104.9	289.5	501.5	443.0	58.46	8.578		
2,800.0	2,787.0	2,752.5	2,752.5	7.2	55.1	-174.01	104.9	289.5	514.3	453.6	60.66	8.478		
2,900.0	2,886.2	2,851.7	2,851.7	7.5	57.0	-174.16	104.9	289.5	527.1	464.3	62.87	8.385		
3,000.0	2,985.4	2,950.9	2,950.9	7.8	59.0	-174.30	104.9	289.5	540.0	474.9	65.07	8.298		
3,100.0	3,084.5	3,050.0	3,050.0	8.1	61.0	-174.43	104.9	289.5	552.8	485.5	67.27	8.217		
3,200.0	3,183.7	3,149.2	3,149.2	8.5	63.0	-174.56	104.9	289.5	565.6	496.2	69.47	8.141		
3,300.0	3,282.9	3,248.4	3,248.4	8.8	65.0	-174.68	104.9	289.5	578.5	506.8	71.68	8.070		
3,400.0	3,382.0	3,347.5	3,347.5	9.1	67.0	-174.80	104.9	289.5	591.3	517.4	73.88	8.003		
3,500.0	3,481.2	3,446.7	3,446.7	9.4	68.9	-174.91	104.9	289.5	604.1	528.1	76.09	7.940		
3,600.0	3,580.4	3,545.9	3,545.9	9.8	70.9	-175.01	104.9	289.5	617.0	538.7	78.29	7.880		
3,700.0	3,679.5	3,645.0	3,645.0	10.1	72.9	-175.11	104.9	289.5	629.8	549.3	80.50	7.824		
3,800.0	3,778.7	3,744.2	3,744.2	10.4	74.9	-175.21	104.9	289.5	642.7	560.0	82.70	7.771		
3,900.0	3,877.9	3,843.4	3,843.4	10.8	76.9	-175.31	104.9	289.5	655.5	570.6	84.91	7.720		
4,000.0	3,977.0	3,942.5	3,942.5	11.1	78.9	-175.40	104.9	289.5	668.4	581.3	87.12	7.672		
4,100.0	4,076.2	4,041.7	4,041.7	11.4	80.8	-175.48	104.9	289.5	681.2	591.9	89.32	7.627		
4,200.0	4,175.4	4,140.9	4,140.9	11.8	82.8	-175.57	104.9	289.5	694.1	602.6	91.53	7.583		
4,300.0	4,274.5	4,240.0	4,240.0	12.1	84.8	-175.65	104.9	289.5	707.0	613.2	93.73	7.542		
4,400.0	4,373.7	4,339.2	4,339.2	12.4	86.8	-175.73	104.9	289.5	719.8	623.9	95.94	7.503		
4,500.0	4,472.8	4,438.3	4,438.3	12.8	88.8	-175.80	104.9	289.5	732.7	634.5	98.15	7.465		
4,600.0	4,572.0	4,537.5	4,537.5	13.1	90.8	-175.87	104.9	289.5	745.5	645.2	100.36	7.429		
4,700.0	4,671.2	4,636.7	4,636.7	13.4	92.7	-175.94	104.9	289.5	758.4	655.8	102.56	7.394		
4,800.0	4,770.3	4,735.8	4,735.8	13.8	94.7	-176.01	104.9	289.5	771.2	666.5	104.77	7.361		
4,900.0	4,869.5	4,835.0	4,835.0	14.1	96.7	-176.08	104.9	289.5	784.1	677.1	106.98	7.330		
5,000.0	4,968.7	4,934.2	4,934.2	14.4	98.7	-176.15	104.9	289.5	796.7	687.4	109.34	7.287		
5,100.0	5,068.2	5,033.7	5,033.7	14.6	100.7	-176.21	104.9	289.5	806.5	694.7	111.85	7.211		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 8707-UNKNOWN												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
5,200.0	5,168.0	5,133.5	5,133.5	14.8	102.7	-176.24	104.9	289.5	812.9	698.6	114.24	7.115	
5,300.0	5,268.0	5,233.5	5,233.5	15.0	104.7	-176.26	104.9	289.5	815.7	699.2	116.50	7.002	
5,400.0	5,368.0	5,333.5	5,333.5	15.1	106.7	63.87	104.9	289.5	815.9	697.2	118.69	6.874	
5,500.0	5,468.0	5,433.5	5,433.5	15.3	108.7	63.87	104.9	289.5	815.9	695.0	120.88	6.750	
5,600.0	5,568.0	5,533.5	5,533.5	15.4	110.7	63.87	104.9	289.5	815.9	692.8	123.07	6.630	
5,700.0	5,668.0	5,633.5	5,633.5	15.6	112.7	63.87	104.9	289.5	815.9	690.6	125.26	6.514	
5,800.0	5,768.0	5,733.5	5,733.5	15.7	114.7	63.87	104.9	289.5	815.9	688.5	127.45	6.402	
5,900.0	5,868.0	5,833.5	5,833.5	15.9	116.7	63.87	104.9	289.5	815.9	686.3	129.64	6.293	
6,000.0	5,968.0	5,933.5	5,933.5	16.1	118.7	63.87	104.9	289.5	815.9	684.1	131.84	6.189	
6,100.0	6,068.0	6,033.5	6,033.5	16.2	120.7	63.87	104.9	289.5	815.9	681.9	134.03	6.087	
6,200.0	6,168.0	6,133.5	6,133.5	16.4	122.7	63.87	104.9	289.5	815.9	679.7	136.23	5.989	
6,300.0	6,268.0	6,233.5	6,233.5	16.6	124.7	63.87	104.9	289.5	815.9	677.5	138.43	5.894	
6,400.0	6,368.0	6,333.5	6,333.5	16.7	126.7	63.87	104.9	289.5	815.9	675.3	140.62	5.802	
6,500.0	6,468.0	6,433.5	6,433.5	16.9	128.7	63.87	104.9	289.5	815.9	673.1	142.82	5.713	
6,600.0	6,568.0	6,533.5	6,533.5	17.1	130.7	63.87	104.9	289.5	815.9	670.9	145.02	5.626	
6,700.0	6,668.0	6,633.5	6,633.5	17.2	132.7	63.87	104.9	289.5	815.9	668.7	147.22	5.542	
6,800.0	6,768.0	6,733.5	6,733.5	17.4	134.7	63.87	104.9	289.5	815.9	666.5	149.42	5.460	
6,900.0	6,868.0	6,833.5	6,833.5	17.6	136.7	63.87	104.9	289.5	815.9	664.3	151.63	5.381	
7,000.0	6,968.0	6,933.5	6,933.5	17.8	138.7	63.87	104.9	289.5	815.9	662.1	153.83	5.304	
7,049.7	7,017.7	6,983.2	6,983.2	17.9	139.7	-115.89	104.9	289.5	816.1	661.2	154.92	5.268	
7,100.0	7,068.0	7,033.5	7,033.5	17.9	140.7	-115.88	104.9	289.5	816.1	660.1	156.02	5.231	
7,200.0	7,167.3	7,132.8	7,132.8	18.2	142.7	-116.21	104.9	289.5	820.8	662.9	157.84	5.200 SF	
7,300.0	7,264.2	7,229.7	7,229.7	18.4	144.6	-116.87	104.9	289.5	831.9	672.9	158.98	5.233	
7,400.0	7,356.8	7,322.3	7,322.3	18.8	146.4	-117.68	104.9	289.5	850.2	690.9	159.38	5.335	
7,500.0	7,443.3	7,408.8	7,408.8	19.2	148.2	-118.38	104.9	289.5	876.6	717.5	159.07	5.511	
7,600.0	7,521.9	7,487.4	7,487.4	19.8	149.7	-118.64	104.9	289.5	911.8	753.4	158.38	5.757	
7,700.0	7,591.1	7,556.6	7,556.6	20.5	151.1	-118.14	104.9	289.5	956.2	798.2	158.01	6.052	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design		Existing Pad Sec.11-T1S-R68W - Green 32-14 (Exist.) - Wellbore #1 - Wellbore #1										Offset Site Error:		0.0 ft			
Survey Program: 8710-UNKNOWN														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth 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					
8,900.0	7,755.6	7,732.1	7,732.1	36.3	154.6	-90.23	-2,546.4	10.9	982.1	792.0	190.08	5.167					
9,000.0	7,755.4	7,731.9	7,731.9	37.9	154.6	-90.20	-2,546.4	10.9	894.0	702.2	191.77	4.662					
9,100.0	7,755.2	7,731.7	7,731.7	39.6	154.6	-90.18	-2,546.4	10.9	808.7	615.2	193.49	4.179					
9,200.0	7,755.0	7,731.5	7,731.5	41.3	154.6	-90.15	-2,546.4	10.9	727.1	531.9	195.22	3.724					
9,300.0	7,754.8	7,731.3	7,731.3	43.0	154.6	-90.12	-2,546.4	10.9	650.7	453.7	196.97	3.303					
9,400.0	7,754.6	7,731.1	7,731.1	44.8	154.6	-90.10	-2,546.4	10.9	581.4	382.7	198.73	2.926					
9,500.0	7,754.4	7,730.9	7,730.9	46.5	154.6	-90.07	-2,546.4	10.9	522.3	321.8	200.50	2.605					
9,600.0	7,754.2	7,730.7	7,730.7	48.3	154.6	-90.05	-2,546.4	10.9	477.0	274.7	202.29	2.358					
9,700.0	7,754.0	7,730.5	7,730.5	50.1	154.6	-90.02	-2,546.4	10.9	449.7	245.6	204.08	2.203					
9,776.5	7,753.8	7,730.3	7,730.3	51.4	154.6	-90.00	-2,546.4	10.9	443.1	237.6	205.46	2.157 CC, ES					
9,800.0	7,753.8	7,730.3	7,730.3	51.9	154.6	-89.99	-2,546.4	10.9	443.7	237.8	205.88	2.155 SF					
9,900.0	7,753.6	7,730.1	7,730.1	53.7	154.6	-89.97	-2,546.4	10.9	460.0	252.3	207.69	2.215					
10,000.0	7,753.4	7,729.9	7,729.9	55.5	154.6	-89.94	-2,546.4	10.9	496.3	286.8	209.51	2.369					
10,100.0	7,753.2	7,729.7	7,729.7	57.3	154.6	-89.92	-2,546.4	10.9	548.7	337.3	211.33	2.596					
10,200.0	7,753.0	7,729.5	7,729.5	59.1	154.6	-89.89	-2,546.4	10.9	613.0	399.8	213.16	2.876					
10,300.0	7,752.8	7,729.3	7,729.3	60.9	154.6	-89.86	-2,546.4	10.9	685.9	470.9	214.99	3.190					
10,400.0	7,752.6	7,729.1	7,729.1	62.7	154.6	-89.84	-2,546.4	10.9	764.9	548.1	216.83	3.528					
10,500.0	7,752.4	7,728.9	7,728.9	64.6	154.6	-89.81	-2,546.4	10.9	848.4	629.8	218.68	3.880					
10,600.0	7,752.2	7,728.7	7,728.7	66.4	154.6	-89.79	-2,546.4	10.9	935.2	714.7	220.52	4.241					

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design		Existing Pad Sec.11-T1S-R68W - Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1											Offset Site Error: 0.0 ft	
Survey Program: 8250-UNKNOWN													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	81.56	89.6	604.0	611.5					
100.0	100.0	67.5	67.5	0.1	1.4	81.56	89.6	604.0	610.6	609.1	1.46	417.479		
200.0	200.0	167.5	167.5	0.3	3.4	81.56	89.6	604.0	610.6	606.9	3.69	165.593		
300.0	300.0	267.5	267.5	0.6	5.4	81.56	89.6	604.0	610.6	604.7	5.91	103.279		
400.0	400.0	367.5	367.5	0.8	7.4	81.56	89.6	604.0	610.6	602.5	8.14	75.041		
500.0	500.0	467.5	467.5	1.0	9.4	81.56	89.6	604.0	610.6	600.2	10.36	58.929		
600.0	600.0	567.5	567.5	1.2	11.4	81.56	89.6	604.0	610.6	598.0	12.59	48.512		
700.0	700.0	667.5	667.5	1.5	13.4	81.56	89.6	604.0	610.6	595.8	14.81	41.225		
800.0	800.0	767.5	767.5	1.7	15.4	81.56	89.6	604.0	610.6	593.6	17.04	35.842		
900.0	900.0	867.5	867.5	1.9	17.4	81.56	89.6	604.0	610.6	591.3	19.26	31.702		
1,000.0	1,000.0	967.5	967.5	2.1	19.4	81.56	89.6	604.0	610.6	589.1	21.49	28.419 CC		
1,100.0	1,100.0	1,067.5	1,067.5	2.3	21.3	-158.62	89.6	604.0	612.2	588.5	23.68	25.858 ES		
1,200.0	1,199.8	1,167.3	1,167.3	2.5	23.3	-158.76	89.6	604.0	617.1	591.3	25.82	23.899		
1,300.0	1,299.5	1,267.0	1,267.0	2.7	25.3	-158.99	89.6	604.0	625.2	597.3	27.93	22.385		
1,400.0	1,398.7	1,366.2	1,366.2	3.0	27.3	-159.33	89.6	604.0	636.5	606.5	30.04	21.190		
1,500.0	1,497.9	1,465.4	1,465.4	3.2	29.3	-159.73	89.6	604.0	648.6	616.4	32.22	20.132		
1,600.0	1,597.1	1,564.6	1,564.6	3.5	31.3	-160.12	89.6	604.0	660.7	626.3	34.40	19.206		
1,700.0	1,696.2	1,663.7	1,663.7	3.8	33.3	-160.49	89.6	604.0	672.9	636.3	36.59	18.388		
1,800.0	1,795.4	1,762.9	1,762.9	4.1	35.3	-160.85	89.6	604.0	685.0	646.2	38.78	17.662		
1,900.0	1,894.5	1,862.0	1,862.0	4.3	37.2	-161.20	89.6	604.0	697.2	656.3	40.98	17.013		
2,000.0	1,993.7	1,961.2	1,961.2	4.6	39.2	-161.53	89.6	604.0	709.5	666.3	43.18	16.430		
2,100.0	2,092.9	2,060.4	2,060.4	4.9	41.2	-161.85	89.6	604.0	721.7	676.3	45.38	15.903		
2,200.0	2,192.0	2,159.5	2,159.5	5.3	43.2	-162.17	89.6	604.0	734.0	686.4	47.58	15.425		
2,300.0	2,291.2	2,258.7	2,258.7	5.6	45.2	-162.47	89.6	604.0	746.3	696.5	49.79	14.989		
2,400.0	2,390.4	2,357.9	2,357.9	5.9	47.2	-162.76	89.6	604.0	758.6	706.6	51.99	14.591		
2,500.0	2,489.5	2,457.0	2,457.0	6.2	49.1	-163.05	89.6	604.0	770.9	716.7	54.20	14.224		
2,600.0	2,588.7	2,556.2	2,556.2	6.5	51.1	-163.32	89.6	604.0	783.3	726.9	56.40	13.887		
2,700.0	2,687.9	2,655.4	2,655.4	6.8	53.1	-163.59	89.6	604.0	795.6	737.0	58.61	13.575		
2,800.0	2,787.0	2,754.5	2,754.5	7.2	55.1	-163.85	89.6	604.0	808.0	747.2	60.82	13.286		
2,900.0	2,886.2	2,853.7	2,853.7	7.5	57.1	-164.10	89.6	604.0	820.4	757.4	63.03	13.017		
3,000.0	2,985.4	2,952.9	2,952.9	7.8	59.1	-164.34	89.6	604.0	832.8	767.6	65.23	12.767		
3,100.0	3,084.5	3,052.0	3,052.0	8.1	61.0	-164.58	89.6	604.0	845.3	777.8	67.44	12.533		
3,200.0	3,183.7	3,151.2	3,151.2	8.5	63.0	-164.80	89.6	604.0	857.7	788.1	69.65	12.315		
3,300.0	3,282.9	3,250.4	3,250.4	8.8	65.0	-165.03	89.6	604.0	870.2	798.3	71.86	12.109		
3,400.0	3,382.0	3,349.5	3,349.5	9.1	67.0	-165.24	89.6	604.0	882.6	808.6	74.07	11.917		
3,500.0	3,481.2	3,448.7	3,448.7	9.4	69.0	-165.45	89.6	604.0	895.1	818.8	76.28	11.735		
3,600.0	3,580.4	3,547.9	3,547.9	9.8	71.0	-165.66	89.6	604.0	907.6	829.1	78.48	11.564		
3,700.0	3,679.5	3,647.0	3,647.0	10.1	72.9	-165.86	89.6	604.0	920.1	839.4	80.69	11.403		
3,800.0	3,778.7	3,746.2	3,746.2	10.4	74.9	-166.05	89.6	604.0	932.6	849.7	82.90	11.250		
3,900.0	3,877.9	3,845.4	3,845.4	10.8	76.9	-166.24	89.6	604.0	945.2	860.0	85.11	11.105		
4,000.0	3,977.0	3,944.5	3,944.5	11.1	78.9	-166.42	89.6	604.0	957.7	870.4	87.32	10.967		
4,100.0	4,076.2	4,043.7	4,043.7	11.4	80.9	-166.60	89.6	604.0	970.2	880.7	89.53	10.837		
4,200.0	4,175.4	4,142.9	4,142.9	11.8	82.9	-166.77	89.6	604.0	982.8	891.0	91.74	10.713		
4,300.0	4,274.5	4,242.0	4,242.0	12.1	84.8	-166.94	89.6	604.0	995.3	901.4	93.95	10.595 SF		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 8799-UNKNOWN												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
11,600.0	7,750.1	7,736.6	7,736.6	85.0	154.7	-90.17	-5,149.2	108.8	941.9	702.5	239.37	3.935	
11,700.0	7,749.9	7,736.4	7,736.4	86.9	154.7	-90.15	-5,149.2	108.8	861.0	619.7	241.24	3.569	
11,800.0	7,749.7	7,736.2	7,736.2	88.7	154.7	-90.13	-5,149.2	108.8	784.4	541.3	243.12	3.226	
11,900.0	7,749.5	7,736.0	7,736.0	90.6	154.7	-90.10	-5,149.2	108.8	713.7	468.7	244.99	2.913	
12,000.0	7,749.3	7,735.8	7,735.8	92.5	154.7	-90.08	-5,149.2	108.8	650.7	403.8	246.87	2.636	
12,100.0	7,749.1	7,735.6	7,735.6	94.4	154.7	-90.06	-5,149.2	108.8	597.9	349.1	248.75	2.404	
12,200.0	7,748.9	7,735.4	7,735.4	96.2	154.7	-90.04	-5,149.2	108.8	558.1	307.5	250.64	2.227	
12,300.0	7,748.7	7,735.2	7,735.2	98.1	154.7	-90.02	-5,149.2	108.8	534.4	281.9	252.52	2.116	
12,379.7	7,748.6	7,735.1	7,735.1	99.6	154.7	-90.00	-5,149.2	108.8	528.4	274.4	254.02	2.080 CC, ES	
12,400.0	7,748.5	7,735.0	7,735.0	100.0	154.7	-90.00	-5,149.2	108.8	528.8	274.4	254.40	2.079 SF	
12,500.0	7,748.3	7,734.8	7,734.8	101.9	154.7	-89.97	-5,149.2	108.8	541.9	285.6	256.29	2.115	
12,600.0	7,748.1	7,734.6	7,734.6	103.8	154.7	-89.95	-5,149.2	108.8	572.5	314.3	258.17	2.217	
12,700.0	7,747.9	7,734.4	7,734.4	105.7	154.7	-89.93	-5,149.2	108.8	617.9	357.8	260.06	2.376	
12,800.0	7,747.7	7,734.2	7,734.2	107.6	154.7	-89.91	-5,149.2	108.8	675.2	413.2	261.95	2.577	
12,900.0	7,747.5	7,734.0	7,734.0	109.4	154.7	-89.89	-5,149.2	108.8	741.6	477.7	263.84	2.811	
13,000.0	7,747.3	7,733.8	7,733.8	111.3	154.7	-89.86	-5,149.2	108.8	814.8	549.1	265.73	3.066	
13,100.0	7,747.1	7,733.6	7,733.6	113.2	154.7	-89.84	-5,149.2	108.8	893.3	625.7	267.62	3.338	
13,200.0	7,746.9	7,733.4	7,733.4	115.1	154.7	-89.82	-5,149.2	108.8	975.7	706.2	269.51	3.620	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Schnieder 1-14 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 8775-UNKNOWN												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
10,800.0	7,751.7	7,741.2	7,741.2	70.1	154.8	90.03	-3,812.2	-1,379.7	982.3	757.8	224.49	4.376	
10,900.0	7,751.5	7,741.0	7,741.0	72.0	154.8	90.02	-3,812.2	-1,379.7	963.2	736.9	226.35	4.255	
11,000.0	7,751.3	7,740.8	7,740.8	73.8	154.8	90.00	-3,812.2	-1,379.7	954.3	726.1	228.21	4.182	
11,035.6	7,751.3	7,740.8	7,740.8	74.5	154.8	90.00	-3,812.2	-1,379.7	953.6	724.7	228.88	4.167 CC, ES	
11,100.0	7,751.1	7,740.6	7,740.6	75.7	154.8	89.99	-3,812.2	-1,379.7	955.8	725.7	230.07	4.154 SF	
11,200.0	7,750.9	7,740.4	7,740.4	77.5	154.8	89.98	-3,812.2	-1,379.7	967.7	735.7	231.94	4.172	
11,300.0	7,750.7	7,740.2	7,740.2	79.4	154.8	89.97	-3,812.2	-1,379.7	989.6	755.8	233.81	4.232	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Wright 2-14 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 8158-UNKNOWN													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	-179.53	-948.6	-7.8	949.0					
100.0	100.0	73.5	73.5	0.1	1.5	-179.53	-948.6	-7.8	948.6	947.0	1.58	599.420		
200.0	200.0	173.5	173.5	0.3	3.5	-179.53	-948.6	-7.8	948.6	944.8	3.81	249.158		
300.0	300.0	273.5	273.5	0.6	5.5	-179.53	-948.6	-7.8	948.6	942.6	6.03	157.264		
400.0	400.0	373.5	373.5	0.8	7.5	-179.53	-948.6	-7.8	948.6	940.4	8.26	114.890		
500.0	500.0	473.5	473.5	1.0	9.5	-179.53	-948.6	-7.8	948.6	938.1	10.48	90.504		
600.0	600.0	573.5	573.5	1.2	11.5	-179.53	-948.6	-7.8	948.6	935.9	12.71	74.658		
700.0	700.0	673.5	673.5	1.5	13.5	-179.53	-948.6	-7.8	948.6	933.7	14.93	63.534		
800.0	800.0	773.5	773.5	1.7	15.5	-179.53	-948.6	-7.8	948.6	931.5	17.16	55.295		
900.0	900.0	873.5	873.5	1.9	17.5	-179.53	-948.6	-7.8	948.6	929.3	19.38	48.947		
1,000.0	1,000.0	973.5	973.5	2.1	19.5	-179.53	-948.6	-7.8	948.6	927.0	21.61	43.907		
1,100.0	1,100.0	1,073.5	1,073.5	2.3	21.5	-59.76	-948.6	-7.8	947.8	923.9	23.81	39.811		
1,200.0	1,199.8	1,173.3	1,173.3	2.5	23.5	-60.08	-948.6	-7.8	945.1	919.1	25.98	36.374		
1,300.0	1,299.5	1,273.0	1,273.0	2.7	25.5	-60.62	-948.6	-7.8	940.8	912.6	28.16	33.408		
1,400.0	1,398.7	1,372.2	1,372.2	3.0	27.4	-61.33	-948.6	-7.8	934.9	904.6	30.35	30.803		
1,500.0	1,497.9	1,471.4	1,471.4	3.2	29.4	-62.02	-948.6	-7.8	928.8	896.2	32.58	28.510		
1,600.0	1,597.1	1,570.6	1,570.6	3.5	31.4	-62.72	-948.6	-7.8	922.8	887.9	34.82	26.504		
1,700.0	1,696.2	1,669.7	1,669.7	3.8	33.4	-63.44	-948.6	-7.8	916.9	879.8	37.06	24.737		
1,800.0	1,795.4	1,768.9	1,768.9	4.1	35.4	-64.16	-948.6	-7.8	911.1	871.8	39.32	23.171		
1,900.0	1,894.5	1,868.0	1,868.0	4.3	37.4	-64.88	-948.6	-7.8	905.6	864.0	41.59	21.773		
2,000.0	1,993.7	1,967.2	1,967.2	4.6	39.3	-65.62	-948.6	-7.8	900.1	856.3	43.86	20.521		
2,100.0	2,092.9	2,066.4	2,066.4	4.9	41.3	-66.37	-948.6	-7.8	894.8	848.7	46.14	19.393		
2,200.0	2,192.0	2,165.5	2,165.5	5.3	43.3	-67.12	-948.6	-7.8	889.7	841.3	48.43	18.372		
2,300.0	2,291.2	2,264.7	2,264.7	5.6	45.3	-67.89	-948.6	-7.8	884.8	834.0	50.72	17.445		
2,400.0	2,390.4	2,363.9	2,363.9	5.9	47.3	-68.66	-948.6	-7.8	879.9	826.9	53.01	16.599		
2,500.0	2,489.5	2,463.0	2,463.0	6.2	49.3	-69.44	-948.6	-7.8	875.3	820.0	55.31	15.826		
2,600.0	2,588.7	2,562.2	2,562.2	6.5	51.2	-70.23	-948.6	-7.8	870.8	813.2	57.61	15.116		
2,700.0	2,687.9	2,661.4	2,661.4	6.8	53.2	-71.03	-948.6	-7.8	866.5	806.6	59.91	14.463		
2,800.0	2,787.0	2,760.5	2,760.5	7.2	55.2	-71.83	-948.6	-7.8	862.4	800.2	62.22	13.860		
2,900.0	2,886.2	2,859.7	2,859.7	7.5	57.2	-72.64	-948.6	-7.8	858.4	793.9	64.53	13.302		
3,000.0	2,985.4	2,958.9	2,958.9	7.8	59.2	-73.46	-948.6	-7.8	854.6	787.8	66.84	12.786		
3,100.0	3,084.5	3,058.0	3,058.0	8.1	61.2	-74.29	-948.6	-7.8	851.0	781.9	69.16	12.306		
3,200.0	3,183.7	3,157.2	3,157.2	8.5	63.1	-75.12	-948.6	-7.8	847.6	776.1	71.47	11.859		
3,300.0	3,282.9	3,256.4	3,256.4	8.8	65.1	-75.96	-948.6	-7.8	844.3	770.6	73.79	11.443		
3,400.0	3,382.0	3,355.5	3,355.5	9.1	67.1	-76.80	-948.6	-7.8	841.3	765.2	76.11	11.054		
3,500.0	3,481.2	3,454.7	3,454.7	9.4	69.1	-77.65	-948.6	-7.8	838.4	760.0	78.43	10.690		
3,600.0	3,580.4	3,553.9	3,553.9	9.8	71.1	-78.51	-948.6	-7.8	835.7	755.0	80.75	10.349		
3,700.0	3,679.5	3,653.0	3,653.0	10.1	73.1	-79.37	-948.6	-7.8	833.2	750.2	83.07	10.030		
3,800.0	3,778.7	3,752.2	3,752.2	10.4	75.0	-80.24	-948.6	-7.8	830.9	745.5	85.40	9.730		
3,900.0	3,877.9	3,851.4	3,851.4	10.8	77.0	-81.11	-948.6	-7.8	828.8	741.1	87.72	9.448		
4,000.0	3,977.0	3,950.5	3,950.5	11.1	79.0	-81.99	-948.6	-7.8	826.9	736.9	90.04	9.183		
4,100.0	4,076.2	4,049.7	4,049.7	11.4	81.0	-82.86	-948.6	-7.8	825.2	732.8	92.37	8.934		
4,200.0	4,175.4	4,148.9	4,148.9	11.8	83.0	-83.75	-948.6	-7.8	823.7	729.0	94.69	8.698		
4,300.0	4,274.5	4,248.0	4,248.0	12.1	85.0	-84.63	-948.6	-7.8	822.4	725.3	97.02	8.477		
4,400.0	4,373.7	4,347.2	4,347.2	12.4	86.9	-85.52	-948.6	-7.8	821.2	721.9	99.34	8.267		
4,500.0	4,472.8	4,446.3	4,446.3	12.8	88.9	-86.41	-948.6	-7.8	820.3	718.7	101.66	8.069		
4,600.0	4,572.0	4,545.5	4,545.5	13.1	90.9	-87.30	-948.6	-7.8	819.6	715.6	103.99	7.882		
4,700.0	4,671.2	4,644.7	4,644.7	13.4	92.9	-88.20	-948.6	-7.8	819.1	712.8	106.31	7.705		
4,800.0	4,770.3	4,743.8	4,743.8	13.8	94.9	-89.09	-948.6	-7.8	818.8	710.2	108.63	7.538		
4,900.0	4,869.5	4,843.0	4,843.0	14.1	96.9	-89.99	-948.6	-7.8	818.7	707.8	110.95	7.379		
4,901.6	4,871.1	4,844.6	4,844.6	14.1	96.9	-90.00	-948.6	-7.8	818.7	707.7	110.98	7.377		
5,000.0	4,968.7	4,942.2	4,942.2	14.4	98.8	-90.86	-948.6	-7.8	818.8	705.5	113.25	7.230		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Wright 2-14 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 8158-UNKNOWN												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
5,100.0	5,068.2	5,041.7	5,041.7	14.6	100.8	-91.55	-948.6	-7.8	819.0	703.5	115.46	7.094	
5,200.0	5,168.0	5,141.5	5,141.5	14.8	102.8	-92.00	-948.6	-7.8	819.2	701.6	117.64	6.963	
5,300.0	5,268.0	5,241.5	5,241.5	15.0	104.8	-92.20	-948.6	-7.8	819.3	699.5	119.80	6.839	
5,400.0	5,368.0	5,341.5	5,341.5	15.1	106.8	147.92	-948.6	-7.8	819.3	697.4	121.95	6.718	
5,500.0	5,468.0	5,441.5	5,441.5	15.3	108.8	147.92	-948.6	-7.8	819.3	695.2	124.11	6.602	
5,600.0	5,568.0	5,541.5	5,541.5	15.4	110.8	147.92	-948.6	-7.8	819.3	693.0	126.26	6.489	
5,700.0	5,668.0	5,641.5	5,641.5	15.6	112.8	147.92	-948.6	-7.8	819.3	690.9	128.42	6.380	
5,800.0	5,768.0	5,741.5	5,741.5	15.7	114.8	147.92	-948.6	-7.8	819.3	688.7	130.58	6.274	
5,900.0	5,868.0	5,841.5	5,841.5	15.9	116.8	147.92	-948.6	-7.8	819.3	686.6	132.74	6.172	
6,000.0	5,968.0	5,941.5	5,941.5	16.1	118.8	147.92	-948.6	-7.8	819.3	684.4	134.90	6.073	
6,100.0	6,068.0	6,041.5	6,041.5	16.2	120.8	147.92	-948.6	-7.8	819.3	682.2	137.06	5.978	
6,200.0	6,168.0	6,141.5	6,141.5	16.4	122.8	147.92	-948.6	-7.8	819.3	680.1	139.23	5.885	
6,300.0	6,268.0	6,241.5	6,241.5	16.6	124.8	147.92	-948.6	-7.8	819.3	677.9	141.39	5.795	
6,400.0	6,368.0	6,341.5	6,341.5	16.7	126.8	147.92	-948.6	-7.8	819.3	675.8	143.56	5.707	
6,500.0	6,468.0	6,441.5	6,441.5	16.9	128.8	147.92	-948.6	-7.8	819.3	673.6	145.73	5.622	
6,600.0	6,568.0	6,541.5	6,541.5	17.1	130.8	147.92	-948.6	-7.8	819.3	671.4	147.90	5.540	
6,700.0	6,668.0	6,641.5	6,641.5	17.2	132.8	147.92	-948.6	-7.8	819.3	669.2	150.07	5.460	
6,800.0	6,768.0	6,741.5	6,741.5	17.4	134.8	147.92	-948.6	-7.8	819.3	667.1	152.24	5.382	
6,900.0	6,868.0	6,841.5	6,841.5	17.6	136.8	147.92	-948.6	-7.8	819.3	664.9	154.42	5.306	
7,000.0	6,968.0	6,941.5	6,941.5	17.8	138.8	147.92	-948.6	-7.8	819.3	662.7	156.59	5.232	
7,100.0	7,068.0	7,041.5	7,041.5	17.9	140.8	-31.86	-948.6	-7.8	818.9	660.2	158.69	5.160	
7,200.0	7,167.3	7,140.8	7,140.8	18.2	142.8	-32.63	-948.6	-7.8	810.0	650.7	159.24	5.087	
7,300.0	7,264.2	7,237.7	7,237.7	18.4	144.8	-34.52	-948.6	-7.8	789.5	631.7	157.85	5.002	
7,400.0	7,356.8	7,330.3	7,330.3	18.8	146.6	-37.66	-948.6	-7.8	758.4	603.2	155.20	4.886	
7,500.0	7,443.3	7,416.8	7,416.8	19.2	148.3	-42.32	-948.6	-7.8	717.7	565.1	152.66	4.701	
7,600.0	7,521.9	7,495.4	7,495.4	19.8	149.9	-48.72	-948.6	-7.8	669.5	517.3	152.25	4.397	
7,700.0	7,591.1	7,564.6	7,564.6	20.5	151.3	-56.91	-948.6	-7.8	616.2	460.5	155.71	3.957	
7,800.0	7,649.6	7,623.1	7,623.1	21.3	152.5	-66.37	-948.6	-7.8	561.3	398.7	162.67	3.451	
7,900.0	7,696.2	7,669.7	7,669.7	22.2	153.4	-75.84	-948.6	-7.8	509.5	339.4	170.06	2.996	
8,000.0	7,730.0	7,703.5	7,703.5	23.3	154.1	-83.67	-948.6	-7.8	466.5	291.4	175.07	2.665	
8,100.0	7,750.4	7,723.9	7,723.9	24.5	154.5	-88.60	-948.6	-7.8	439.0	261.4	177.64	2.472	
8,178.6	7,756.8	7,730.3	7,730.3	25.5	154.6	-90.00	-948.6	-7.8	432.0	253.1	178.90	2.415 CC, ES	
8,200.0	7,757.0	7,730.5	7,730.5	25.8	154.6	-89.99	-948.6	-7.8	432.5	253.4	179.19	2.414 SF	
8,300.0	7,756.8	7,730.3	7,730.3	27.0	154.6	-89.97	-948.6	-7.8	448.7	268.2	180.50	2.486	
8,400.0	7,756.6	7,730.1	7,730.1	28.4	154.6	-89.94	-948.6	-7.8	485.4	303.5	181.98	2.668	
8,500.0	7,756.4	7,729.9	7,729.9	29.9	154.6	-89.91	-948.6	-7.8	538.4	354.9	183.51	2.934	
8,600.0	7,756.2	7,729.7	7,729.7	31.5	154.6	-89.89	-948.6	-7.8	603.5	418.4	185.09	3.261	
8,700.0	7,756.0	7,729.5	7,729.5	33.0	154.6	-89.86	-948.6	-7.8	677.1	490.4	186.70	3.627	
8,800.0	7,755.8	7,729.3	7,729.3	34.6	154.6	-89.83	-948.6	-7.8	756.8	568.5	188.34	4.018	
8,900.0	7,755.6	7,729.1	7,729.1	36.3	154.6	-89.81	-948.6	-7.8	840.8	650.8	190.01	4.425	
9,000.0	7,755.4	7,728.9	7,728.9	37.9	154.6	-89.78	-948.6	-7.8	928.1	736.3	191.70	4.841	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-14-23HC - Wellbore #1 - Plan #2 (11-4-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis 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	23.03	13.8	5.9	15.0	15.0	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	23.03	13.8	5.9	15.0	14.8	0.22	66.924		
200.0	200.0	200.0	200.0	0.3	0.3	23.03	13.8	5.9	15.0	14.4	0.67	22.308		
300.0	300.0	300.0	300.0	0.6	0.6	23.03	13.8	5.9	15.0	13.9	1.12	13.385		
400.0	400.0	400.0	400.0	0.8	0.8	23.03	13.8	5.9	15.0	13.5	1.57	9.561		
500.0	500.0	500.0	500.0	1.0	1.0	23.03	13.8	5.9	15.0	13.0	2.02	7.436		
600.0	600.0	600.0	600.0	1.2	1.2	23.03	13.8	5.9	15.0	12.6	2.47	6.084		
700.0	700.0	700.0	700.0	1.5	1.5	23.03	13.8	5.9	15.0	12.1	2.92	5.148		
800.0	800.0	800.0	800.0	1.7	1.7	23.03	13.8	5.9	15.0	11.7	3.37	4.462		
900.0	900.0	900.0	900.0	1.9	1.9	23.03	13.8	5.9	15.0	11.2	3.82	3.937		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	23.03	13.8	5.9	15.0	10.8	4.27	3.522 CC, ES		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.4	146.55	13.8	5.9	16.5	11.8	4.70	3.504		
1,200.0	1,199.8	1,199.8	1,199.8	2.5	2.6	154.39	13.8	5.9	21.0	15.9	5.11	4.116		
1,300.0	1,299.5	1,300.4	1,300.4	2.7	2.8	161.61	12.6	4.6	27.4	21.9	5.50	4.985		
1,400.0	1,398.7	1,401.3	1,401.1	3.0	3.0	167.55	8.9	0.9	33.8	27.9	5.87	5.758		
1,500.0	1,497.9	1,502.4	1,501.8	3.2	3.2	172.38	2.6	-5.5	37.7	31.5	6.26	6.033		
1,600.0	1,597.1	1,602.5	1,601.3	3.5	3.4	176.80	-5.0	-13.2	39.9	33.2	6.66	5.986		
1,700.0	1,696.2	1,702.4	1,700.6	3.8	3.6	-179.25	-12.7	-21.0	42.2	35.1	7.07	5.960		
1,800.0	1,795.4	1,802.3	1,800.0	4.1	3.9	-175.72	-20.3	-28.7	44.7	37.1	7.50	5.951		
1,900.0	1,894.5	1,902.3	1,899.3	4.3	4.1	-172.57	-28.0	-36.5	47.3	39.3	7.95	5.952		
2,000.0	1,893.7	2,002.2	1,998.7	4.6	4.4	-169.76	-35.6	-44.2	50.1	41.7	8.40	5.958		
2,100.0	2,092.9	2,102.1	2,098.0	4.9	4.6	-167.26	-43.3	-51.9	52.9	44.1	8.87	5.966		
2,200.0	2,192.0	2,202.1	2,197.3	5.3	4.9	-165.01	-50.9	-59.7	55.9	46.5	9.35	5.976		
2,300.0	2,291.2	2,302.0	2,296.7	5.6	5.2	-162.99	-58.6	-67.4	58.9	49.1	9.85	5.985		
2,400.0	2,390.4	2,401.9	2,396.0	5.9	5.4	-161.18	-66.3	-75.2	62.0	51.7	10.35	5.994		
2,500.0	2,489.5	2,501.9	2,495.4	6.2	5.7	-159.53	-73.9	-82.9	65.2	54.3	10.86	6.002		
2,600.0	2,588.7	2,601.8	2,594.7	6.5	6.0	-158.04	-81.6	-90.7	68.4	57.0	11.39	6.009		
2,700.0	2,687.9	2,701.7	2,694.0	6.8	6.3	-156.69	-89.2	-98.4	71.7	59.8	11.91	6.016		
2,800.0	2,787.0	2,801.7	2,793.4	7.2	6.6	-155.45	-96.9	-106.2	75.0	62.5	12.45	6.021		
2,900.0	2,886.2	2,901.6	2,892.7	7.5	6.9	-154.32	-104.5	-113.9	78.3	65.3	12.99	6.026		
3,000.0	2,985.4	3,001.5	2,992.0	7.8	7.2	-153.28	-112.2	-121.7	81.6	68.1	13.54	6.030		
3,100.0	3,084.5	3,101.5	3,091.4	8.1	7.5	-152.32	-119.8	-129.4	85.0	70.9	14.09	6.034		
3,200.0	3,183.7	3,201.4	3,190.7	8.5	7.8	-151.44	-127.5	-137.2	88.4	73.8	14.64	6.037		
3,300.0	3,282.9	3,301.3	3,290.1	8.8	8.1	-150.62	-135.2	-144.9	91.8	76.6	15.20	6.039		
3,400.0	3,382.0	3,401.3	3,389.4	9.1	8.3	-149.86	-142.8	-152.7	95.3	79.5	15.77	6.042		
3,500.0	3,481.2	3,501.2	3,488.7	9.4	8.6	-149.15	-150.5	-160.4	98.7	82.4	16.33	6.044		
3,600.0	3,580.4	3,601.1	3,588.1	9.8	8.9	-148.49	-158.1	-168.2	102.2	85.3	16.90	6.045		
3,700.0	3,679.5	3,701.1	3,687.4	10.1	9.2	-147.88	-165.8	-175.9	105.6	88.2	17.47	6.047		
3,800.0	3,778.7	3,801.0	3,786.7	10.4	9.5	-147.30	-173.4	-183.7	109.1	91.1	18.04	6.048		
3,900.0	3,877.9	3,900.9	3,886.1	10.8	9.8	-146.76	-181.1	-191.4	112.6	94.0	18.62	6.049		
4,000.0	3,977.0	4,000.9	3,985.4	11.1	10.1	-146.25	-188.7	-199.2	116.1	96.9	19.20	6.050		
4,100.0	4,076.2	4,100.8	4,084.8	11.4	10.4	-145.78	-196.4	-206.9	119.7	99.9	19.77	6.051		
4,200.0	4,175.4	4,200.7	4,184.1	11.8	10.7	-145.32	-204.0	-214.7	123.2	102.8	20.35	6.052		
4,300.0	4,274.5	4,300.7	4,283.4	12.1	11.1	-144.90	-211.7	-222.4	126.7	105.8	20.94	6.053		
4,400.0	4,373.7	4,400.6	4,382.8	12.4	11.4	-144.50	-219.4	-230.2	130.2	108.7	21.52	6.053		
4,500.0	4,472.8	4,500.5	4,482.1	12.8	11.7	-144.11	-227.0	-237.9	133.8	111.7	22.10	6.054		
4,600.0	4,572.0	4,600.5	4,581.4	13.1	12.0	-143.75	-234.7	-245.7	137.3	114.7	22.69	6.054		
4,700.0	4,671.2	4,700.4	4,680.8	13.4	12.3	-143.41	-242.3	-253.4	140.9	117.6	23.27	6.054		
4,800.0	4,770.3	4,797.5	4,777.4	13.8	12.5	-143.53	-248.8	-260.0	145.4	121.6	23.78	6.114		
4,900.0	4,869.5	4,894.0	4,873.8	14.1	12.7	-144.60	-252.9	-264.1	152.0	127.8	24.15	6.293		
5,000.0	4,968.7	4,990.1	4,969.8	14.4	12.9	-146.44	-254.7	-266.0	160.6	136.2	24.43	6.576		
5,100.0	5,068.2	5,088.5	5,068.2	14.6	13.0	-148.31	-254.9	-266.1	168.8	144.2	24.65	6.849		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-14-23HC - Wellbore #1 - Plan #2 (11-4-14)												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	
5,200.0	5,168.0	5,188.3	5,168.0	14.8	13.2	-149.46	-254.9	-266.1	174.3	149.4	24.90	6.999	
5,300.0	5,268.0	5,288.2	5,268.0	15.0	13.4	-149.95	-254.9	-266.1	176.7	151.6	25.18	7.020	
5,400.0	5,368.0	5,388.2	5,368.0	15.1	13.5	90.15	-254.9	-266.1	176.9	151.3	25.54	6.926	
5,500.0	5,468.0	5,488.2	5,468.0	15.3	13.7	90.15	-254.9	-266.1	176.9	151.0	25.89	6.832	
5,600.0	5,568.0	5,588.2	5,568.0	15.4	13.9	90.15	-254.9	-266.1	176.9	150.6	26.25	6.739	
5,700.0	5,668.0	5,688.2	5,668.0	15.6	14.0	90.15	-254.9	-266.1	176.9	150.3	26.61	6.648	
5,800.0	5,768.0	5,788.2	5,768.0	15.7	14.2	90.15	-254.9	-266.1	176.9	149.9	26.97	6.559	
5,900.0	5,868.0	5,888.2	5,868.0	15.9	14.4	90.15	-254.9	-266.1	176.9	149.6	27.33	6.471	
6,000.0	5,968.0	5,988.2	5,968.0	16.1	14.6	90.15	-254.9	-266.1	176.9	149.2	27.70	6.386	
6,100.0	6,068.0	6,088.2	6,068.0	16.2	14.7	90.15	-254.9	-266.1	176.9	148.8	28.07	6.302	
6,200.0	6,168.0	6,188.2	6,168.0	16.4	14.9	90.15	-254.9	-266.1	176.9	148.4	28.44	6.219	
6,300.0	6,268.0	6,288.2	6,268.0	16.6	15.1	90.15	-254.9	-266.1	176.9	148.1	28.82	6.139	
6,400.0	6,368.0	6,388.2	6,368.0	16.7	15.3	90.15	-254.9	-266.1	176.9	147.7	29.19	6.059	
6,500.0	6,468.0	6,488.2	6,468.0	16.9	15.5	90.15	-254.9	-266.1	176.9	147.3	29.57	5.982	
6,600.0	6,568.0	6,588.2	6,568.0	17.1	15.6	90.15	-254.9	-266.1	176.9	146.9	29.95	5.906	
6,700.0	6,668.0	6,688.2	6,668.0	17.2	15.8	90.15	-254.9	-266.1	176.9	146.6	30.33	5.832	
6,800.0	6,768.0	6,788.2	6,768.0	17.4	16.0	90.15	-254.9	-266.1	176.9	146.2	30.72	5.759	
6,900.0	6,868.0	6,888.2	6,868.0	17.6	16.2	90.15	-254.9	-266.1	176.9	145.8	31.10	5.688	
7,000.0	6,968.0	6,988.2	6,968.0	17.8	16.4	90.15	-254.9	-266.1	176.9	145.4	31.49	5.618	
7,100.0	7,068.0	7,088.2	7,068.0	17.9	16.6	-89.74	-254.9	-266.1	176.9	145.0	31.85	5.553	
7,120.5	7,088.4	7,108.7	7,088.4	18.0	16.6	-90.07	-254.9	-266.1	176.9	145.0	31.92	5.542	
7,200.0	7,167.3	7,187.6	7,167.3	18.2	16.8	-93.10	-254.9	-266.1	177.1	145.1	32.08	5.522	
7,300.0	7,264.2	7,284.5	7,264.2	18.4	17.0	-100.37	-254.9	-266.1	180.1	148.0	32.18	5.598	
7,400.0	7,356.8	7,385.9	7,356.4	18.8	17.2	-109.52	-260.8	-266.1	188.9	156.6	32.22	5.861	
7,500.0	7,443.3	7,493.1	7,470.3	19.2	17.5	-117.74	-282.6	-266.0	202.1	169.9	32.20	6.277	
7,600.0	7,521.9	7,606.4	7,576.2	19.8	17.9	-124.73	-322.2	-265.9	218.4	186.4	31.99	6.827	
7,700.0	7,591.1	7,726.2	7,680.1	20.5	18.5	-130.45	-381.8	-265.7	236.0	204.3	31.63	7.460	
7,800.0	7,649.6	7,853.1	7,777.5	21.3	19.3	-134.98	-462.7	-265.4	253.2	221.9	31.30	8.089	
7,900.0	7,696.2	7,986.8	7,863.1	22.2	20.4	-138.41	-565.2	-265.1	268.5	237.3	31.26	8.591	
8,000.0	7,730.0	8,126.7	7,930.6	23.3	21.8	-140.82	-687.6	-264.7	280.6	248.8	31.78	8.830	
8,100.0	7,750.4	8,271.5	7,974.1	24.5	23.5	-142.28	-825.4	-264.2	288.4	255.3	33.11	8.712	
8,200.0	7,757.0	8,418.6	7,989.0	25.8	25.4	-142.81	-971.5	-263.7	291.2	255.9	35.35	8.237	
8,300.0	7,756.8	8,518.6	7,989.0	27.0	26.8	-142.86	-1,071.5	-263.4	291.3	254.2	37.05	7.862	
8,400.0	7,756.6	8,618.6	7,989.0	28.4	28.3	-142.91	-1,171.5	-263.1	291.4	252.4	38.93	7.484	
8,500.0	7,756.4	8,718.6	7,989.0	29.9	29.8	-142.95	-1,271.5	-262.7	291.4	250.6	40.88	7.129	
8,600.0	7,756.2	8,818.6	7,989.0	31.5	31.3	-143.00	-1,371.5	-262.4	291.5	248.6	42.89	6.796	
8,700.0	7,756.0	8,918.6	7,989.0	33.0	32.9	-143.05	-1,471.4	-262.1	291.6	246.6	44.96	6.485	
8,800.0	7,755.8	9,018.6	7,989.0	34.6	34.6	-143.10	-1,571.4	-261.7	291.7	244.6	47.07	6.196	
8,900.0	7,755.6	9,118.6	7,989.0	36.3	36.2	-143.14	-1,671.4	-261.4	291.7	242.5	49.22	5.927	
9,000.0	7,755.4	9,218.6	7,989.0	37.9	37.9	-143.19	-1,771.4	-261.1	291.8	240.4	51.40	5.677	
9,100.0	7,755.2	9,318.6	7,989.0	39.6	39.6	-143.24	-1,871.4	-260.7	291.9	238.3	53.61	5.444	
9,200.0	7,755.0	9,418.6	7,989.0	41.3	41.3	-143.28	-1,971.4	-260.4	291.9	236.1	55.85	5.228	
9,300.0	7,754.8	9,518.6	7,989.0	43.0	43.1	-143.33	-2,071.4	-260.1	292.0	233.9	58.10	5.026	
9,400.0	7,754.6	9,618.6	7,989.0	44.8	44.8	-143.38	-2,171.4	-259.7	292.1	231.7	60.38	4.838	
9,500.0	7,754.4	9,718.6	7,989.0	46.5	46.6	-143.42	-2,271.4	-259.4	292.2	229.5	62.67	4.662	
9,600.0	7,754.2	9,818.6	7,989.0	48.3	48.4	-143.47	-2,371.4	-259.1	292.2	227.3	64.97	4.498	
9,700.0	7,754.0	9,918.6	7,989.0	50.1	50.2	-143.52	-2,471.4	-258.7	292.3	225.0	67.29	4.344	
9,800.0	7,753.8	10,018.6	7,989.0	51.9	52.0	-143.56	-2,571.4	-258.4	292.4	222.8	69.61	4.200	
9,900.0	7,753.6	10,118.6	7,989.0	53.7	53.8	-143.61	-2,671.4	-258.1	292.5	220.5	71.95	4.065	
10,000.0	7,753.4	10,218.6	7,989.0	55.5	55.6	-143.66	-2,771.4	-257.7	292.5	218.3	74.29	3.938	
10,100.0	7,753.2	10,318.6	7,989.0	57.3	57.4	-143.70	-2,871.4	-257.4	292.6	216.0	76.64	3.818	
10,200.0	7,753.0	10,418.6	7,989.0	59.1	59.2	-143.75	-2,971.4	-257.1	292.7	213.7	79.00	3.705	

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-14-23HC - Wellbore #1 - Plan #2 (11-4-14)												Offset Site Error:	0.0 ft
Survey Program: 0-MWDD												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
10,300.0	7,752.8	10,518.6	7,989.0	60.9	61.1	-143.79	-3,071.4	-256.7	292.8	211.4	81.36	3.598	
10,400.0	7,752.6	10,618.6	7,989.0	62.7	62.9	-143.84	-3,171.4	-256.4	292.9	209.1	83.73	3.498	
10,500.0	7,752.4	10,718.6	7,989.0	64.6	64.8	-143.89	-3,271.4	-256.0	292.9	206.8	86.09	3.402	
10,600.0	7,752.2	10,818.6	7,989.0	66.4	66.6	-143.93	-3,371.4	-255.7	293.0	204.5	88.47	3.312	
10,700.0	7,752.0	10,918.6	7,989.0	68.3	68.4	-143.98	-3,471.4	-255.4	293.1	202.2	90.84	3.226	
10,800.0	7,751.7	11,018.6	7,989.0	70.1	70.3	-144.03	-3,571.4	-255.0	293.2	199.9	93.21	3.145	
10,900.0	7,751.5	11,118.6	7,989.0	72.0	72.2	-144.07	-3,671.4	-254.7	293.2	197.6	95.59	3.068	
11,000.0	7,751.3	11,218.6	7,989.0	73.8	74.0	-144.12	-3,771.4	-254.4	293.3	195.3	97.97	2.994	
11,100.0	7,751.1	11,318.6	7,989.0	75.7	75.9	-144.17	-3,871.4	-254.0	293.4	193.0	100.35	2.924	
11,200.0	7,750.9	11,418.6	7,989.0	77.5	77.7	-144.21	-3,971.4	-253.7	293.5	190.7	102.73	2.857	
11,300.0	7,750.7	11,518.6	7,989.0	79.4	79.6	-144.26	-4,071.4	-253.4	293.5	188.4	105.11	2.793	
11,400.0	7,750.5	11,618.6	7,989.0	81.3	81.5	-144.30	-4,171.4	-253.0	293.6	186.1	107.48	2.732	
11,500.0	7,750.3	11,718.6	7,989.0	83.1	83.3	-144.35	-4,271.4	-252.7	293.7	183.8	109.86	2.673	
11,600.0	7,750.1	11,818.6	7,989.0	85.0	85.2	-144.40	-4,371.4	-252.4	293.8	181.5	112.24	2.617	
11,700.0	7,749.9	11,918.6	7,989.0	86.9	87.1	-144.44	-4,471.4	-252.0	293.9	179.2	114.62	2.564	
11,800.0	7,749.7	12,018.6	7,989.0	88.7	89.0	-144.49	-4,571.4	-251.7	293.9	176.9	116.99	2.512	
11,900.0	7,749.5	12,118.6	7,989.0	90.6	90.9	-144.54	-4,671.4	-251.4	294.0	174.7	119.37	2.463	
12,000.0	7,749.3	12,218.6	7,989.0	92.5	92.7	-144.58	-4,771.4	-251.0	294.1	172.4	121.74	2.416	
12,100.0	7,749.1	12,318.6	7,989.0	94.4	94.6	-144.63	-4,871.4	-250.7	294.2	170.1	124.11	2.370	
12,200.0	7,748.9	12,418.6	7,989.0	96.2	96.5	-144.67	-4,971.4	-250.4	294.3	167.8	126.48	2.326	
12,300.0	7,748.7	12,518.6	7,989.0	98.1	98.4	-144.72	-5,071.4	-250.0	294.3	165.5	128.85	2.284	
12,400.0	7,748.5	12,618.6	7,989.0	100.0	100.3	-144.77	-5,171.4	-249.7	294.4	163.2	131.22	2.244	
12,500.0	7,748.3	12,718.6	7,989.0	101.9	102.2	-144.81	-5,271.4	-249.4	294.5	160.9	133.58	2.205	
12,600.0	7,748.1	12,818.6	7,989.0	103.8	104.0	-144.86	-5,371.4	-249.0	294.6	158.6	135.95	2.167	
12,700.0	7,747.9	12,918.6	7,989.0	105.7	105.9	-144.90	-5,471.4	-248.7	294.7	156.4	138.31	2.130	
12,800.0	7,747.7	13,018.6	7,989.0	107.6	107.8	-144.95	-5,571.4	-248.4	294.7	154.1	140.67	2.095	
12,900.0	7,747.5	13,118.6	7,989.0	109.4	109.7	-144.99	-5,671.4	-248.0	294.8	151.8	143.02	2.061	
13,000.0	7,747.3	13,218.6	7,989.0	111.3	111.6	-145.04	-5,771.4	-247.7	294.9	149.5	145.38	2.029	
13,100.0	7,747.1	13,318.6	7,989.0	113.2	113.5	-145.09	-5,871.4	-247.3	295.0	147.3	147.73	1.997	
13,200.0	7,746.9	13,418.6	7,989.0	115.1	115.4	-145.13	-5,971.4	-247.0	295.1	145.0	150.08	1.966	
13,300.0	7,746.7	13,518.6	7,989.0	117.0	117.3	-145.18	-6,071.4	-246.7	295.2	142.7	152.42	1.936	
13,400.0	7,746.5	13,618.6	7,989.0	118.9	119.2	-145.22	-6,171.4	-246.3	295.2	140.5	154.77	1.908	
13,500.0	7,746.3	13,718.6	7,989.0	120.8	121.1	-145.27	-6,271.4	-246.0	295.3	138.2	157.11	1.880	
13,600.0	7,746.1	13,818.6	7,989.0	122.7	123.0	-145.31	-6,371.4	-245.7	295.4	136.0	159.45	1.853	
13,700.0	7,745.9	13,918.6	7,989.0	124.6	124.9	-145.36	-6,471.4	-245.3	295.5	133.7	161.78	1.826	
13,800.0	7,745.7	14,018.6	7,989.0	126.5	126.8	-145.41	-6,571.4	-245.0	295.6	131.5	164.11	1.801	
13,900.0	7,745.5	14,118.6	7,989.0	128.4	128.7	-145.45	-6,671.4	-244.7	295.6	129.2	166.44	1.776	
14,000.0	7,745.3	14,218.6	7,989.0	130.3	130.6	-145.50	-6,771.4	-244.3	295.7	127.0	168.77	1.752	
14,100.0	7,745.1	14,318.6	7,989.0	132.2	132.5	-145.54	-6,871.4	-244.0	295.8	124.7	171.10	1.729	
14,200.0	7,744.9	14,418.6	7,989.0	134.1	134.4	-145.59	-6,971.4	-243.7	295.9	122.5	173.42	1.706	
14,300.0	7,744.7	14,518.6	7,989.0	136.0	136.3	-145.63	-7,071.4	-243.3	296.0	120.2	175.74	1.684	
14,400.0	7,744.5	14,618.6	7,989.0	137.9	138.2	-145.68	-7,171.4	-243.0	296.1	118.0	178.05	1.663	
14,500.0	7,744.3	14,718.6	7,989.0	139.8	140.1	-145.72	-7,271.4	-242.7	296.1	115.8	180.36	1.642	
14,600.0	7,744.1	14,818.6	7,989.0	141.7	142.0	-145.77	-7,371.4	-242.3	296.2	113.6	182.67	1.622	
14,700.0	7,743.9	14,918.6	7,989.0	143.6	143.9	-145.82	-7,471.4	-242.0	296.3	111.3	184.98	1.602	
14,800.0	7,743.7	15,018.6	7,989.0	145.5	145.8	-145.86	-7,571.4	-241.7	296.4	109.1	187.28	1.583	
14,900.0	7,743.5	15,118.6	7,989.0	147.4	147.7	-145.91	-7,671.4	-241.3	296.5	106.9	189.58	1.564	
15,000.0	7,743.3	15,218.6	7,989.0	149.3	149.6	-145.95	-7,771.4	-241.0	296.6	104.7	191.88	1.546	
15,100.0	7,743.1	15,318.6	7,989.0	151.2	151.5	-146.00	-7,871.4	-240.7	296.7	102.5	194.17	1.528	
15,200.0	7,742.9	15,418.6	7,989.0	153.1	153.4	-146.04	-7,971.4	-240.3	296.7	100.3	196.46	1.510	
15,300.0	7,742.7	15,518.6	7,989.0	155.0	155.3	-146.09	-8,071.4	-240.0	296.8	98.1	198.75	1.493 Level 3	
15,400.0	7,742.5	15,618.6	7,989.0	156.9	157.2	-146.13	-8,171.4	-239.6	296.9	95.9	201.04	1.477 Level 3	

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-14-23HC - Wellbore #1 - Plan #2 (11-4-14)													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		
15,500.0	7,742.3	15,718.6	7,989.0	158.8	159.1	-146.18	-8,271.4	-239.3	297.0	93.7	203.32	1.461	Level 3	
15,600.0	7,742.1	15,818.6	7,989.0	160.7	161.0	-146.22	-8,371.4	-239.0	297.1	91.5	205.60	1.445	Level 3	
15,629.2	7,742.0	15,847.7	7,989.0	161.2	161.5	-146.24	-8,400.6	-238.9	297.1	90.9	206.26	1.440	Level 3, SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-14-23HN - Wellbore #1 - Plan #2 (11-4-14)													Offset Site Error: 0.0 ft
Survey Program: 0-MWD													Offset Well Error: 0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis 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	22.54	27.7	11.5	30.0				
100.0	100.0	100.0	100.0	0.1	0.1	22.54	27.7	11.5	30.0	29.8	0.22	133.364	
200.0	200.0	200.0	200.0	0.3	0.3	22.54	27.7	11.5	30.0	29.3	0.67	44.455	
300.0	300.0	300.0	300.0	0.6	0.6	22.54	27.7	11.5	30.0	28.9	1.12	26.673	
400.0	400.0	400.0	400.0	0.8	0.8	22.54	27.7	11.5	30.0	28.4	1.57	19.052	
500.0	500.0	500.0	500.0	1.0	1.0	22.54	27.7	11.5	30.0	28.0	2.02	14.818	
600.0	600.0	600.0	600.0	1.2	1.2	22.54	27.7	11.5	30.0	27.5	2.47	12.124	
700.0	700.0	700.0	700.0	1.5	1.5	22.54	27.7	11.5	30.0	27.1	2.92	10.259	
800.0	800.0	800.0	800.0	1.7	1.7	22.54	27.7	11.5	30.0	26.6	3.37	8.891	
900.0	900.0	900.0	900.0	1.9	1.9	22.54	27.7	11.5	30.0	26.2	3.82	7.845	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	22.54	27.7	11.5	30.0	25.7	4.27	7.019 CC	
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.4	144.34	27.7	11.5	31.4	26.7	4.70	6.677	
1,200.0	1,199.8	1,199.8	1,199.8	2.5	2.6	149.18	27.7	11.5	35.8	30.6	5.11	6.997	
1,300.0	1,299.5	1,299.5	1,299.5	2.7	2.8	155.01	27.7	11.5	43.5	38.0	5.52	7.871	
1,400.0	1,398.7	1,398.7	1,398.7	3.0	3.0	160.29	27.7	11.5	54.6	48.7	5.94	9.197	
1,500.0	1,497.9	1,497.9	1,497.9	3.2	3.3	164.02	27.7	11.5	66.9	60.6	6.37	10.509	
1,600.0	1,597.1	1,597.1	1,597.1	3.5	3.5	166.58	27.7	11.5	79.4	72.6	6.80	11.677	
1,700.0	1,696.2	1,696.2	1,696.2	3.8	3.7	168.44	27.7	11.5	92.0	84.8	7.24	12.714	
1,800.0	1,795.4	1,795.4	1,795.4	4.1	3.9	169.86	27.7	11.5	104.7	97.0	7.67	13.637	
1,900.0	1,894.5	1,898.0	1,898.0	4.3	4.1	171.41	26.1	10.9	116.0	107.9	8.09	14.329	
2,000.0	1,993.7	2,001.3	2,001.1	4.6	4.3	173.57	21.1	8.9	124.3	115.8	8.49	14.644	
2,100.0	2,092.9	2,104.6	2,104.0	4.9	4.5	176.36	12.7	5.5	129.8	120.9	8.89	14.600	
2,200.0	2,192.0	2,204.2	2,203.1	5.3	4.7	179.24	3.0	1.7	134.3	125.0	9.30	14.440	
2,300.0	2,291.2	2,303.9	2,302.3	5.6	4.9	-178.07	-6.6	-2.1	139.1	129.4	9.73	14.307	
2,400.0	2,390.4	2,403.6	2,401.4	5.9	5.1	-175.57	-16.2	-6.0	144.3	134.1	10.16	14.194	
2,500.0	2,489.5	2,503.3	2,500.5	6.2	5.3	-173.24	-25.9	-9.8	149.6	139.0	10.61	14.098	
2,600.0	2,588.7	2,602.9	2,599.7	6.5	5.6	-171.08	-35.5	-13.6	155.2	144.1	11.08	14.013	
2,700.0	2,687.9	2,702.6	2,698.8	6.8	5.8	-169.07	-45.2	-17.4	161.0	149.5	11.55	13.939	
2,800.0	2,787.0	2,802.3	2,797.9	7.2	6.0	-167.20	-54.8	-21.3	167.0	155.0	12.04	13.872	
2,900.0	2,886.2	2,902.0	2,897.1	7.5	6.3	-165.46	-64.4	-25.1	173.2	160.6	12.54	13.812	
3,000.0	2,985.4	3,001.7	2,996.2	7.8	6.5	-163.85	-74.1	-28.9	179.5	166.4	13.04	13.757	
3,100.0	3,084.5	3,101.3	3,095.4	8.1	6.8	-162.34	-83.7	-32.7	185.9	172.3	13.56	13.707	
3,200.0	3,183.7	3,201.0	3,194.5	8.5	7.1	-160.93	-93.3	-36.6	192.4	178.4	14.09	13.661	
3,300.0	3,282.9	3,300.7	3,293.6	8.8	7.3	-159.62	-103.0	-40.4	199.1	184.5	14.62	13.619	
3,400.0	3,382.0	3,400.4	3,392.8	9.1	7.6	-158.39	-112.6	-44.2	205.9	190.7	15.16	13.581	
3,500.0	3,481.2	3,500.0	3,491.9	9.4	7.9	-157.24	-122.2	-48.1	212.7	197.0	15.70	13.545	
3,600.0	3,580.4	3,599.7	3,591.0	9.8	8.1	-156.17	-131.9	-51.9	219.6	203.4	16.25	13.512	
3,700.0	3,679.5	3,699.4	3,690.2	10.1	8.4	-155.16	-141.5	-55.7	226.6	209.8	16.81	13.482	
3,800.0	3,778.7	3,799.1	3,789.3	10.4	8.7	-154.21	-151.2	-59.5	233.7	216.3	17.37	13.453	
3,900.0	3,877.9	3,898.7	3,888.4	10.8	8.9	-153.31	-160.8	-63.4	240.8	222.9	17.93	13.427	
4,000.0	3,977.0	3,998.4	3,987.6	11.1	9.2	-152.47	-170.4	-67.2	248.0	229.5	18.50	13.403	
4,100.0	4,076.2	4,098.1	4,086.7	11.4	9.5	-151.67	-180.1	-71.0	255.2	236.1	19.07	13.381	
4,200.0	4,175.4	4,197.8	4,185.9	11.8	9.8	-150.92	-189.7	-74.8	262.5	242.9	19.65	13.360	
4,300.0	4,274.5	4,297.5	4,285.0	12.1	10.1	-150.21	-199.3	-78.7	269.8	249.6	20.22	13.341	
4,400.0	4,373.7	4,397.1	4,384.1	12.4	10.4	-149.54	-209.0	-82.5	277.2	256.4	20.80	13.323	
4,500.0	4,472.8	4,496.8	4,483.3	12.8	10.6	-148.90	-218.6	-86.3	284.6	263.2	21.39	13.306	
4,600.0	4,572.0	4,596.5	4,582.4	13.1	10.9	-148.29	-228.2	-90.2	292.0	270.0	21.97	13.291	
4,700.0	4,671.2	4,696.2	4,681.5	13.4	11.2	-147.72	-237.9	-94.0	299.5	276.9	22.56	13.277	
4,800.0	4,770.3	4,793.2	4,778.1	13.8	11.5	-147.37	-246.3	-97.3	307.3	284.2	23.10	13.304	
4,900.0	4,869.5	4,889.3	4,874.1	14.1	11.7	-147.58	-251.7	-99.5	316.2	292.6	23.56	13.421	
5,000.0	4,968.7	4,985.2	4,969.9	14.4	11.8	-148.33	-254.2	-100.5	326.0	302.1	23.96	13.605	
5,100.0	5,068.2	5,083.5	5,068.2	14.6	12.0	-149.26	-254.3	-100.5	334.4	310.1	24.30	13.761	

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-14-23HN - Wellbore #1 - Plan #2 (11-4-14)													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		
5,200.0	5,168.0	5,183.3	5,168.0	14.8	12.2	-149.87	-254.3	-100.5	339.9	315.2	24.62	13.802		
5,300.0	5,268.0	5,283.2	5,268.0	15.0	12.4	-150.13	-254.3	-100.5	342.3	317.4	24.94	13.726		
5,400.0	5,368.0	5,383.2	5,368.0	15.1	12.6	89.99	-254.3	-100.5	342.5	317.2	25.31	13.533		
5,500.0	5,468.0	5,483.2	5,468.0	15.3	12.7	89.99	-254.3	-100.5	342.5	316.8	25.67	13.344		
5,600.0	5,568.0	5,583.2	5,568.0	15.4	12.9	89.99	-254.3	-100.5	342.5	316.5	26.03	13.159		
5,700.0	5,668.0	5,683.2	5,668.0	15.6	13.1	89.99	-254.3	-100.5	342.5	316.1	26.39	12.977		
5,800.0	5,768.0	5,783.2	5,768.0	15.7	13.3	89.99	-254.3	-100.5	342.5	315.7	26.76	12.800		
5,900.0	5,868.0	5,883.2	5,868.0	15.9	13.5	89.99	-254.3	-100.5	342.5	315.4	27.13	12.626		
6,000.0	5,968.0	5,983.2	5,968.0	16.1	13.7	89.99	-254.3	-100.5	342.5	315.0	27.50	12.455		
6,100.0	6,068.0	6,083.2	6,068.0	16.2	13.9	89.99	-254.3	-100.5	342.5	314.6	27.87	12.288		
6,200.0	6,168.0	6,183.2	6,168.0	16.4	14.1	89.99	-254.3	-100.5	342.5	314.2	28.25	12.125		
6,300.0	6,268.0	6,283.2	6,268.0	16.6	14.2	89.99	-254.3	-100.5	342.5	313.9	28.63	11.964		
6,400.0	6,368.0	6,383.2	6,368.0	16.7	14.4	89.99	-254.3	-100.5	342.5	313.5	29.01	11.808		
6,500.0	6,468.0	6,483.2	6,468.0	16.9	14.6	89.99	-254.3	-100.5	342.5	313.1	29.39	11.654		
6,600.0	6,568.0	6,583.2	6,568.0	17.1	14.8	89.99	-254.3	-100.5	342.5	312.7	29.77	11.504		
6,700.0	6,668.0	6,683.2	6,668.0	17.2	15.0	89.99	-254.3	-100.5	342.5	312.3	30.16	11.357		
6,800.0	6,768.0	6,783.2	6,768.0	17.4	15.2	89.99	-254.3	-100.5	342.5	311.9	30.54	11.213		
6,900.0	6,868.0	6,883.2	6,868.0	17.6	15.4	89.99	-254.3	-100.5	342.5	311.6	30.93	11.072		
7,000.0	6,968.0	6,983.2	6,968.0	17.8	15.6	89.99	-254.3	-100.5	342.5	311.2	31.32	10.934		
7,100.0	7,068.0	7,083.2	7,067.9	17.9	15.8	-89.75	-254.8	-100.5	342.5	310.8	31.71	10.801		
7,200.0	7,167.3	7,183.1	7,167.2	18.2	16.1	-89.74	-265.4	-100.5	342.5	310.3	32.21	10.632		
7,300.0	7,264.2	7,283.0	7,263.9	18.4	16.4	-89.73	-289.7	-100.4	342.4	309.6	32.87	10.418		
7,400.0	7,356.8	7,382.8	7,356.4	18.8	16.8	-89.73	-327.3	-100.3	342.4	308.6	33.71	10.157		
7,500.0	7,443.3	7,482.7	7,442.7	19.2	17.4	-89.74	-377.3	-100.2	342.3	307.5	34.75	9.848		
7,600.0	7,521.9	7,582.6	7,521.2	19.8	18.1	-89.76	-438.9	-100.0	342.1	306.1	36.04	9.493		
7,700.0	7,591.1	7,682.4	7,590.4	20.5	18.9	-89.79	-510.8	-99.8	342.0	304.4	37.60	9.095		
7,800.0	7,649.6	7,782.3	7,649.0	21.3	19.8	-89.82	-591.6	-99.6	341.8	302.4	39.45	8.665		
7,900.0	7,696.2	7,882.2	7,695.7	22.2	20.9	-89.86	-679.9	-99.4	341.7	300.1	41.59	8.216		
8,000.0	7,730.0	7,982.2	7,729.7	23.3	22.1	-89.90	-773.8	-99.2	341.5	297.5	43.98	7.764		
8,100.0	7,750.4	8,082.1	7,750.2	24.5	23.5	-89.95	-871.5	-98.9	341.3	294.7	46.60	7.324		
8,200.0	7,757.0	8,182.1	7,757.0	25.8	24.9	-90.00	-971.2	-98.7	341.1	291.7	49.38	6.908		
8,300.0	7,756.8	8,281.8	7,756.8	27.0	26.3	-90.00	-1,070.9	-98.3	340.9	288.8	52.15	6.538		
8,400.0	7,756.6	8,381.8	7,756.6	28.4	27.9	-90.00	-1,170.9	-98.0	340.8	285.6	55.16	6.178		
8,500.0	7,756.4	8,481.8	7,756.4	29.9	29.4	-90.00	-1,270.9	-97.7	340.6	282.4	58.27	5.846		
8,600.0	7,756.2	8,581.8	7,756.2	31.5	31.0	-90.00	-1,370.9	-97.3	340.5	279.0	61.46	5.540		
8,700.0	7,756.0	8,681.8	7,756.0	33.0	32.7	-90.00	-1,470.9	-97.0	340.3	275.6	64.73	5.258		
8,800.0	7,755.8	8,781.8	7,755.8	34.6	34.4	-90.00	-1,570.9	-96.7	340.2	272.1	68.05	4.999		
8,900.0	7,755.6	8,881.8	7,755.6	36.3	36.0	-90.00	-1,670.9	-96.3	340.0	268.6	71.42	4.761		
9,000.0	7,755.4	8,981.8	7,755.4	37.9	37.8	-90.00	-1,770.9	-96.0	339.9	265.1	74.84	4.542		
9,100.0	7,755.2	9,081.8	7,755.2	39.6	39.5	-90.00	-1,870.9	-95.7	339.7	261.5	78.29	4.339		
9,200.0	7,755.0	9,181.8	7,755.0	41.3	41.3	-90.00	-1,970.9	-95.3	339.6	257.8	81.78	4.152		
9,300.0	7,754.8	9,281.8	7,754.8	43.0	43.0	-90.00	-2,070.9	-95.0	339.4	254.1	85.30	3.979		
9,400.0	7,754.6	9,381.8	7,754.6	44.8	44.8	-90.00	-2,170.9	-94.7	339.3	250.5	88.85	3.819		
9,500.0	7,754.4	9,481.8	7,754.4	46.5	46.6	-90.00	-2,270.9	-94.4	339.2	246.7	92.42	3.670		
9,600.0	7,754.2	9,581.8	7,754.2	48.3	48.4	-90.00	-2,370.9	-94.0	339.0	243.0	96.00	3.531		
9,700.0	7,754.0	9,681.8	7,754.0	50.1	50.2	-90.00	-2,470.9	-93.7	338.9	239.2	99.61	3.402		
9,800.0	7,753.8	9,781.8	7,753.8	51.9	52.0	-90.00	-2,570.9	-93.4	338.7	235.5	103.23	3.281		
9,900.0	7,753.6	9,881.8	7,753.6	53.7	53.8	-90.00	-2,670.9	-93.0	338.6	231.7	106.87	3.168		
10,000.0	7,753.4	9,981.8	7,753.4	55.5	55.6	-90.00	-2,770.9	-92.7	338.4	227.9	110.52	3.062		
10,100.0	7,753.2	10,081.8	7,753.2	57.3	57.5	-90.00	-2,870.9	-92.4	338.3	224.1	114.18	2.962		
10,200.0	7,753.0	10,181.8	7,753.0	59.1	59.3	-90.00	-2,970.9	-92.0	338.1	220.2	117.86	2.869		
10,300.0	7,752.8	10,281.8	7,752.8	60.9	61.2	-90.00	-3,070.9	-91.7	338.0	216.4	121.54	2.781		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-14-23HN - Wellbore #1 - Plan #2 (11-4-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWDD													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		
10,400.0	7,752.6	10,381.8	7,752.6	62.7	63.0	-90.00	-3,170.9	-91.4	337.8	212.6	125.23	2.697		
10,500.0	7,752.4	10,481.8	7,752.4	64.6	64.9	-90.00	-3,270.9	-91.0	337.7	208.7	128.93	2.619		
10,600.0	7,752.2	10,581.8	7,752.2	66.4	66.7	-90.00	-3,370.9	-90.7	337.5	204.9	132.64	2.545		
10,700.0	7,752.0	10,681.8	7,752.0	68.3	68.6	-90.00	-3,470.9	-90.4	337.4	201.0	136.35	2.474		
10,800.0	7,751.7	10,781.8	7,751.8	70.1	70.4	-90.00	-3,570.9	-90.0	337.2	197.1	140.08	2.407		
10,900.0	7,751.5	10,881.8	7,751.6	72.0	72.3	-90.00	-3,670.9	-89.7	337.1	193.3	143.80	2.344		
11,000.0	7,751.3	10,981.8	7,751.3	73.8	74.2	-90.00	-3,770.9	-89.4	336.9	189.4	147.54	2.284		
11,100.0	7,751.1	11,081.8	7,751.1	75.7	76.0	-90.00	-3,870.9	-89.0	336.8	185.5	151.27	2.226		
11,200.0	7,750.9	11,181.8	7,750.9	77.5	77.9	-90.00	-3,970.9	-88.7	336.6	181.6	155.01	2.171		
11,300.0	7,750.7	11,281.8	7,750.7	79.4	79.8	-90.00	-4,070.9	-88.4	336.5	177.7	158.76	2.119		
11,400.0	7,750.5	11,381.8	7,750.5	81.3	81.7	-90.00	-4,170.9	-88.1	336.3	173.8	162.51	2.069		
11,500.0	7,750.3	11,481.8	7,750.3	83.1	83.5	-90.00	-4,270.9	-87.7	336.2	169.9	166.27	2.022		
11,600.0	7,750.1	11,581.8	7,750.1	85.0	85.4	-90.00	-4,370.9	-87.4	336.0	166.0	170.02	1.976		
11,700.0	7,749.9	11,681.8	7,749.9	86.9	87.3	-90.00	-4,470.9	-87.1	335.9	162.1	173.78	1.933		
11,800.0	7,749.7	11,781.8	7,749.7	88.7	89.2	-90.00	-4,570.9	-86.7	335.7	158.2	177.55	1.891		
11,900.0	7,749.5	11,881.8	7,749.5	90.6	91.1	-90.00	-4,670.9	-86.4	335.6	154.2	181.31	1.851		
12,000.0	7,749.3	11,981.8	7,749.3	92.5	93.0	-90.00	-4,770.9	-86.1	335.4	150.3	185.08	1.812		
12,100.0	7,749.1	12,081.8	7,749.1	94.4	94.8	-90.00	-4,870.9	-85.7	335.3	146.4	188.86	1.775		
12,200.0	7,748.9	12,181.8	7,748.9	96.2	96.7	-90.00	-4,970.9	-85.4	335.1	142.5	192.63	1.740		
12,300.0	7,748.7	12,281.8	7,748.7	98.1	98.6	-90.00	-5,070.9	-85.1	335.0	138.6	196.41	1.705		
12,400.0	7,748.5	12,381.8	7,748.5	100.0	100.5	-90.00	-5,170.9	-84.7	334.8	134.6	200.19	1.672		
12,500.0	7,748.3	12,481.8	7,748.3	101.9	102.4	-90.00	-5,270.9	-84.4	334.7	130.7	203.97	1.641		
12,600.0	7,748.1	12,581.8	7,748.1	103.8	104.3	-90.00	-5,370.9	-84.1	334.5	126.8	207.75	1.610		
12,700.0	7,747.9	12,681.8	7,747.9	105.7	106.2	-90.00	-5,470.9	-83.7	334.4	122.8	211.53	1.581		
12,800.0	7,747.7	12,781.8	7,747.7	107.6	108.1	-90.00	-5,570.9	-83.4	334.2	118.9	215.32	1.552		
12,900.0	7,747.5	12,881.8	7,747.5	109.4	110.0	-90.00	-5,670.9	-83.1	334.1	115.0	219.11	1.525		
13,000.0	7,747.3	12,981.8	7,747.3	111.3	111.9	-90.00	-5,770.9	-82.8	333.9	111.0	222.90	1.498 Level 3		
13,100.0	7,747.1	13,081.8	7,747.1	113.2	113.8	-90.00	-5,870.9	-82.4	333.8	107.1	226.69	1.472 Level 3		
13,200.0	7,746.9	13,181.8	7,746.9	115.1	115.7	-90.00	-5,970.9	-82.1	333.6	103.1	230.48	1.447 Level 3		
13,300.0	7,746.7	13,281.8	7,746.7	117.0	117.6	-90.00	-6,070.9	-81.8	333.5	99.2	234.27	1.423 Level 3		
13,400.0	7,746.5	13,381.8	7,746.5	118.9	119.5	-90.00	-6,170.9	-81.4	333.3	95.2	238.07	1.400 Level 3		
13,500.0	7,746.3	13,481.8	7,746.3	120.8	121.4	-90.00	-6,270.9	-81.1	333.2	91.3	241.87	1.377 Level 3		
13,600.0	7,746.1	13,581.8	7,746.1	122.7	123.2	-90.00	-6,370.9	-80.8	333.0	87.4	245.66	1.356 Level 3		
13,700.0	7,745.9	13,681.8	7,745.9	124.6	125.1	-90.00	-6,470.9	-80.4	332.9	83.4	249.46	1.334 Level 3		
13,800.0	7,745.7	13,781.8	7,745.7	126.5	127.0	-90.00	-6,570.9	-80.1	332.7	79.5	253.26	1.314 Level 3		
13,900.0	7,745.5	13,881.8	7,745.5	128.4	128.9	-90.00	-6,670.9	-79.8	332.6	75.5	257.06	1.294 Level 3		
14,000.0	7,745.3	13,981.8	7,745.3	130.3	130.8	-90.00	-6,770.9	-79.4	332.4	71.6	260.86	1.274 Level 3		
14,100.0	7,745.1	14,081.8	7,745.1	132.2	132.8	-90.00	-6,870.9	-79.1	332.3	67.6	264.66	1.255 Level 3		
14,200.0	7,744.9	14,181.8	7,744.9	134.1	134.7	-90.00	-6,970.9	-78.8	332.1	63.6	268.47	1.237 Level 2		
14,300.0	7,744.7	14,281.8	7,744.7	136.0	136.6	-90.00	-7,070.9	-78.4	332.0	59.7	272.27	1.219 Level 2		
14,400.0	7,744.5	14,381.8	7,744.5	137.9	138.5	-90.00	-7,170.9	-78.1	331.8	55.7	276.07	1.202 Level 2		
14,500.0	7,744.3	14,481.8	7,744.3	139.8	140.4	-90.00	-7,270.9	-77.8	331.7	51.8	279.88	1.185 Level 2		
14,600.0	7,744.1	14,581.8	7,744.1	141.7	142.3	-90.00	-7,370.9	-77.4	331.5	47.8	283.69	1.169 Level 2		
14,700.0	7,743.9	14,681.8	7,743.9	143.6	144.2	-90.00	-7,470.9	-77.1	331.4	43.9	287.49	1.153 Level 2		
14,800.0	7,743.7	14,781.8	7,743.7	145.5	146.1	-90.00	-7,570.9	-76.8	331.2	39.9	291.30	1.137 Level 2		
14,900.0	7,743.5	14,881.8	7,743.5	147.4	148.0	-90.00	-7,670.9	-76.5	331.1	36.0	295.11	1.122 Level 2		
15,000.0	7,743.3	14,981.8	7,743.3	149.3	149.9	-90.00	-7,770.9	-76.1	330.9	32.0	298.92	1.107 Level 2		
15,100.0	7,743.1	15,081.8	7,743.1	151.2	151.8	-90.00	-7,870.9	-75.8	330.8	28.0	302.73	1.093 Level 2		
15,200.0	7,742.9	15,181.8	7,742.9	153.1	153.7	-90.00	-7,970.9	-75.5	330.6	24.1	306.54	1.079 Level 2		
15,300.0	7,742.7	15,281.8	7,742.7	155.0	155.6	-90.00	-8,070.9	-75.1	330.5	20.1	310.35	1.065 Level 2		
15,400.0	7,742.5	15,381.8	7,742.5	156.9	157.5	-90.00	-8,170.9	-74.8	330.3	16.2	314.16	1.051 Level 2		
15,500.0	7,742.3	15,481.8	7,742.3	158.8	159.4	-90.00	-8,270.8	-74.5	330.2	12.2	317.97	1.038 Level 2		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-14-23HN - Wellbore #1 - Plan #2 (11-4-14)												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
15,600.0	7,742.1	15,581.8	7,742.1	160.7	161.3	-90.00	-8,370.8	-74.1	330.0	8.2	321.78	1.026	Level 2
15,629.2	7,742.0	15,611.0	7,742.0	161.2	161.9	-90.00	-8,400.0	-74.0	330.0	7.1	322.89	1.022	Level 2, ES, SF

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey K-14-23HN - Wellbore #1 - Plan #2 (11-4-14)													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	22.71	41.5	17.4	45.0					
100.0	100.0	100.0	100.0	0.1	0.1	22.71	41.5	17.4	45.0	44.8	0.22	200.286		
200.0	200.0	200.0	200.0	0.3	0.3	22.71	41.5	17.4	45.0	44.3	0.67	66.762		
300.0	300.0	300.0	300.0	0.6	0.6	22.71	41.5	17.4	45.0	43.9	1.12	40.057		
400.0	400.0	400.0	400.0	0.8	0.8	22.71	41.5	17.4	45.0	43.4	1.57	28.612		
500.0	500.0	500.0	500.0	1.0	1.0	22.71	41.5	17.4	45.0	43.0	2.02	22.254		
600.0	600.0	600.0	600.0	1.2	1.2	22.71	41.5	17.4	45.0	42.5	2.47	18.208		
700.0	700.0	700.0	700.0	1.5	1.5	22.71	41.5	17.4	45.0	42.1	2.92	15.407		
800.0	800.0	800.0	800.0	1.7	1.7	22.71	41.5	17.4	45.0	41.6	3.37	13.352		
900.0	900.0	900.0	900.0	1.9	1.9	22.71	41.5	17.4	45.0	41.2	3.82	11.782		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	22.71	41.5	17.4	45.0	40.7	4.27	10.541 CC, ES		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.4	143.87	41.5	17.4	46.4	41.7	4.70	9.877		
1,200.0	1,199.8	1,199.8	1,199.8	2.5	2.6	147.30	41.5	17.4	50.7	45.6	5.11	9.927		
1,300.0	1,299.5	1,299.5	1,299.5	2.7	2.8	151.86	41.5	17.4	58.3	52.7	5.53	10.545		
1,400.0	1,398.7	1,398.7	1,398.7	3.0	3.0	156.51	41.5	17.4	69.1	63.2	5.94	11.630		
1,500.0	1,497.9	1,497.9	1,497.9	3.2	3.3	160.14	41.5	17.4	81.1	74.8	6.37	12.729		
1,600.0	1,597.1	1,597.1	1,597.1	3.5	3.5	162.82	41.5	17.4	93.4	86.6	6.81	13.717		
1,700.0	1,696.2	1,696.2	1,696.2	3.8	3.7	164.89	41.5	17.4	105.8	98.5	7.24	14.601		
1,800.0	1,795.4	1,795.4	1,795.4	4.1	3.9	166.51	41.5	17.4	118.3	110.6	7.68	15.393		
1,900.0	1,894.5	1,894.5	1,894.5	4.3	4.1	167.83	41.5	17.4	130.8	122.7	8.12	16.103		
2,000.0	1,993.7	1,993.7	1,993.7	4.6	4.4	168.92	41.5	17.4	143.5	134.9	8.57	16.743		
2,100.0	2,092.9	2,093.2	2,093.2	4.9	4.6	170.39	40.3	18.3	156.0	147.0	8.99	17.357		
2,200.0	2,192.0	2,192.5	2,192.3	5.3	4.7	172.81	36.3	21.1	168.6	159.2	9.39	17.959		
2,300.0	2,291.2	2,291.2	2,290.7	5.6	4.9	175.97	29.5	26.0	181.4	171.6	9.79	18.532		
2,400.0	2,390.4	2,389.1	2,387.9	5.9	5.1	179.67	20.1	32.7	195.0	184.8	10.21	19.104		
2,500.0	2,489.5	2,487.1	2,484.9	6.2	5.3	-176.56	9.0	40.6	209.7	199.0	10.65	19.685		
2,600.0	2,588.7	2,585.1	2,582.0	6.5	5.6	-173.29	-2.1	48.5	225.1	214.0	11.11	20.254		
2,700.0	2,687.9	2,683.1	2,679.1	6.8	5.8	-170.43	-13.2	56.4	241.1	229.5	11.59	20.802		
2,800.0	2,787.0	2,781.1	2,776.1	7.2	6.0	-167.94	-24.3	64.4	257.7	245.6	12.09	21.325		
2,900.0	2,886.2	2,879.2	2,873.2	7.5	6.3	-165.74	-35.4	72.3	274.7	262.1	12.59	21.821		
3,000.0	2,985.4	2,977.2	2,970.3	7.8	6.6	-163.80	-46.5	80.2	292.1	279.0	13.10	22.289		
3,100.0	3,084.5	3,075.2	3,067.4	8.1	6.8	-162.08	-57.5	88.1	309.7	296.1	13.63	22.730		
3,200.0	3,183.7	3,173.2	3,164.4	8.5	7.1	-160.54	-68.6	96.0	327.6	313.4	14.15	23.144		
3,300.0	3,282.9	3,271.3	3,261.5	8.8	7.4	-159.16	-79.7	103.9	345.7	331.0	14.69	23.534		
3,400.0	3,382.0	3,369.3	3,358.6	9.1	7.7	-157.92	-90.8	111.8	363.9	348.7	15.23	23.900		
3,500.0	3,481.2	3,467.3	3,455.7	9.4	8.0	-156.80	-101.9	119.8	382.3	366.6	15.77	24.245		
3,600.0	3,580.4	3,565.3	3,552.7	9.8	8.3	-155.78	-113.0	127.7	400.9	384.6	16.32	24.569		
3,700.0	3,679.5	3,663.4	3,649.8	10.1	8.6	-154.85	-124.1	135.6	419.5	402.7	16.87	24.875		
3,800.0	3,778.7	3,761.4	3,746.9	10.4	8.9	-154.00	-135.2	143.5	438.3	420.9	17.42	25.163		
3,900.0	3,877.9	3,859.4	3,844.0	10.8	9.2	-153.22	-146.3	151.4	457.1	439.1	17.97	25.434		
4,000.0	3,977.0	3,957.5	3,941.0	11.1	9.5	-152.50	-157.4	159.3	476.0	457.5	18.53	25.691		
4,100.0	4,076.2	4,055.5	4,038.1	11.4	9.8	-151.84	-168.4	167.3	495.0	475.9	19.09	25.933		
4,200.0	4,175.4	4,153.5	4,135.2	11.8	10.1	-151.22	-179.5	175.2	514.0	494.4	19.65	26.163		
4,300.0	4,274.5	4,251.5	4,232.3	12.1	10.4	-150.65	-190.6	183.1	533.1	512.9	20.21	26.380		
4,400.0	4,373.7	4,349.6	4,329.3	12.4	10.8	-150.12	-201.7	191.0	552.3	531.5	20.77	26.587		
4,500.0	4,472.8	4,447.6	4,426.4	12.8	11.1	-149.62	-212.8	198.9	571.5	550.1	21.34	26.783		
4,600.0	4,572.0	4,545.6	4,523.5	13.1	11.4	-149.16	-223.9	206.8	590.7	568.8	21.90	26.969		
4,700.0	4,671.2	4,646.4	4,623.3	13.4	11.7	-148.72	-235.2	214.9	609.9	587.4	22.47	27.143		
4,800.0	4,770.3	4,759.4	4,735.6	13.8	12.0	-148.48	-245.5	222.3	627.6	604.6	23.02	27.263		
4,900.0	4,869.5	4,873.4	4,849.3	14.1	12.3	-148.58	-252.2	227.1	642.9	619.4	23.53	27.322		
5,000.0	4,968.7	4,988.0	4,963.8	14.4	12.5	-149.02	-255.3	229.2	655.7	631.7	24.02	27.300		
5,100.0	5,068.2	5,092.4	5,068.2	14.6	12.7	-149.55	-255.5	229.4	664.3	639.8	24.43	27.189		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey K-14-23HN - Wellbore #1 - Plan #2 (11-4-14)												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
5,200.0	5,168.0	5,192.2	5,168.0	14.8	12.8	-149.89	-255.5	229.4	669.7	644.9	24.81	26.996	
5,300.0	5,268.0	5,292.1	5,268.0	15.0	13.0	-150.03	-255.5	229.4	672.2	647.1	25.16	26.716	
5,400.0	5,368.0	5,392.1	5,368.0	15.1	13.2	90.09	-255.5	229.4	672.4	646.9	25.53	26.341	
5,500.0	5,468.0	5,492.1	5,468.0	15.3	13.4	90.09	-255.5	229.4	672.4	646.5	25.89	25.974	
5,600.0	5,568.0	5,592.1	5,568.0	15.4	13.6	90.09	-255.5	229.4	672.4	646.1	26.25	25.615	
5,700.0	5,668.0	5,692.1	5,668.0	15.6	13.7	90.09	-255.5	229.4	672.4	645.8	26.61	25.263	
5,800.0	5,768.0	5,792.1	5,768.0	15.7	13.9	90.09	-255.5	229.4	672.4	645.4	26.98	24.918	
5,900.0	5,868.0	5,892.1	5,868.0	15.9	14.1	90.09	-255.5	229.4	672.4	645.0	27.35	24.581	
6,000.0	5,968.0	5,992.1	5,968.0	16.1	14.3	90.09	-255.5	229.4	672.4	644.7	27.73	24.250	
6,100.0	6,068.0	6,092.1	6,068.0	16.2	14.5	90.09	-255.5	229.4	672.4	644.3	28.10	23.927	
6,200.0	6,168.0	6,192.1	6,168.0	16.4	14.7	90.09	-255.5	229.4	672.4	643.9	28.48	23.610	
6,300.0	6,268.0	6,292.1	6,268.0	16.6	14.9	90.09	-255.5	229.4	672.4	643.5	28.86	23.299	
6,400.0	6,368.0	6,392.1	6,368.0	16.7	15.0	90.09	-255.5	229.4	672.4	643.1	29.24	22.995	
6,500.0	6,468.0	6,492.1	6,468.0	16.9	15.2	90.09	-255.5	229.4	672.4	642.8	29.62	22.698	
6,600.0	6,568.0	6,592.1	6,568.0	17.1	15.4	90.09	-255.5	229.4	672.4	642.4	30.01	22.407	
6,700.0	6,668.0	6,692.1	6,668.0	17.2	15.6	90.09	-255.5	229.4	672.4	642.0	30.39	22.121	
6,800.0	6,768.0	6,792.1	6,768.0	17.4	15.8	90.09	-255.5	229.4	672.4	641.6	30.78	21.842	
6,900.0	6,868.0	6,892.1	6,868.0	17.6	16.0	90.09	-255.5	229.4	672.4	641.2	31.17	21.569	
7,000.0	6,968.0	6,992.1	6,968.0	17.8	16.2	90.09	-255.5	229.4	672.4	640.8	31.57	21.301	
7,100.0	7,068.0	7,092.1	7,068.0	17.9	16.4	-89.69	-255.5	229.4	672.4	640.4	31.95	21.042	
7,151.2	7,119.0	7,143.2	7,119.0	18.1	16.5	-90.00	-255.5	229.4	672.4	640.2	32.18	20.897	
7,200.0	7,167.3	7,191.9	7,167.7	18.2	16.6	-90.51	-256.3	229.4	672.4	640.0	32.39	20.762	
7,300.0	7,264.2	7,293.0	7,268.0	18.4	16.8	-91.59	-268.3	229.4	672.6	639.7	32.94	20.417	
7,400.0	7,356.8	7,395.9	7,367.4	18.8	17.2	-92.64	-294.8	229.5	673.0	639.4	33.68	19.984	
7,500.0	7,443.3	7,500.8	7,463.6	19.2	17.7	-93.65	-336.3	229.6	673.6	639.0	34.62	19.457	
7,600.0	7,521.9	7,607.7	7,554.3	19.8	18.3	-94.59	-392.6	229.8	674.3	638.5	35.82	18.827	
7,700.0	7,591.1	7,716.3	7,636.9	20.5	19.0	-95.45	-463.0	230.0	675.1	637.8	37.30	18.098	
7,800.0	7,649.6	7,826.7	7,708.9	21.3	20.0	-96.19	-546.5	230.2	675.9	636.8	39.11	17.280	
7,900.0	7,696.2	7,938.5	7,767.9	22.2	21.1	-96.81	-641.4	230.5	676.6	635.3	41.26	16.399	
8,000.0	7,730.0	8,051.6	7,811.8	23.3	22.4	-97.28	-745.5	230.8	677.1	633.3	43.73	15.485	
8,100.0	7,750.4	8,165.6	7,838.9	24.5	23.9	-97.58	-856.1	231.2	677.4	630.9	46.48	14.572	
8,200.0	7,757.0	8,280.1	7,848.0	25.8	25.4	-97.72	-970.0	231.5	677.4	628.0	49.45	13.698	
8,300.0	7,756.8	8,380.1	7,847.8	27.0	26.9	-97.72	-1,070.0	231.8	677.3	625.1	52.20	12.973	
8,400.0	7,756.6	8,480.1	7,847.6	28.4	28.4	-97.72	-1,170.0	232.2	677.1	621.9	55.18	12.270	
8,500.0	7,756.4	8,580.1	7,847.4	29.9	29.9	-97.72	-1,270.0	232.5	677.0	618.7	58.26	11.620	
8,600.0	7,756.2	8,680.1	7,847.1	31.5	31.5	-97.72	-1,370.0	232.8	676.8	615.4	61.42	11.020	
8,700.0	7,756.0	8,780.1	7,846.9	33.0	33.2	-97.72	-1,470.0	233.2	676.6	612.0	64.64	10.467	
8,800.0	7,755.8	8,880.1	7,846.7	34.6	34.8	-97.72	-1,570.0	233.5	676.5	608.6	67.93	9.959	
8,900.0	7,755.6	8,980.1	7,846.5	36.3	36.5	-97.73	-1,670.0	233.8	676.3	605.1	71.27	9.490	
9,000.0	7,755.4	9,080.1	7,846.3	37.9	38.2	-97.73	-1,770.0	234.1	676.2	601.5	74.65	9.058	
9,100.0	7,755.2	9,180.1	7,846.1	39.6	39.9	-97.73	-1,870.0	234.5	676.0	598.0	78.07	8.659	
9,200.0	7,755.0	9,280.1	7,845.9	41.3	41.7	-97.73	-1,970.0	234.8	675.9	594.4	81.52	8.291	
9,300.0	7,754.8	9,380.1	7,845.6	43.0	43.4	-97.73	-2,070.0	235.1	675.7	590.7	85.01	7.949	
9,400.0	7,754.6	9,480.1	7,845.4	44.8	45.2	-97.73	-2,170.0	235.5	675.6	587.1	88.52	7.632	
9,500.0	7,754.4	9,580.1	7,845.2	46.5	47.0	-97.73	-2,270.0	235.8	675.4	583.4	92.05	7.337	
9,600.0	7,754.2	9,680.1	7,845.0	48.3	48.8	-97.73	-2,370.0	236.1	675.3	579.7	95.61	7.063	
9,700.0	7,754.0	9,780.1	7,844.8	50.1	50.6	-97.73	-2,470.0	236.4	675.1	575.9	99.18	6.807	
9,800.0	7,753.8	9,880.1	7,844.6	51.9	52.4	-97.73	-2,570.0	236.8	675.0	572.2	102.77	6.568	
9,900.0	7,753.6	9,980.1	7,844.3	53.7	54.2	-97.73	-2,670.0	237.1	674.8	568.4	106.37	6.344	
10,000.0	7,753.4	10,080.1	7,844.1	55.5	56.0	-97.73	-2,770.0	237.4	674.7	564.7	109.99	6.134	
10,100.0	7,753.2	10,180.0	7,843.9	57.3	57.8	-97.73	-2,870.0	237.8	674.5	560.9	113.62	5.936	
10,200.0	7,753.0	10,280.0	7,843.7	59.1	59.7	-97.73	-2,970.0	238.1	674.4	557.1	117.26	5.751	

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey K-14-23HN - Wellbore #1 - Plan #2 (11-4-14)												Offset Site Error:	0.0 ft
Survey Program: 0-MWID												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
10,300.0	7,752.8	10,380.0	7,843.5	60.9	61.5	-97.73	-3,070.0	238.4	674.2	553.3	120.91	5.576	
10,400.0	7,752.6	10,480.0	7,843.3	62.7	63.3	-97.73	-3,170.0	238.7	674.1	549.5	124.57	5.411	
10,500.0	7,752.4	10,580.0	7,843.1	64.6	65.2	-97.74	-3,270.0	239.1	673.9	545.7	128.24	5.255	
10,600.0	7,752.2	10,680.0	7,842.8	66.4	67.0	-97.74	-3,370.0	239.4	673.7	541.8	131.91	5.107	
10,700.0	7,752.0	10,780.0	7,842.6	68.3	68.9	-97.74	-3,470.0	239.7	673.6	538.0	135.60	4.968	
10,800.0	7,751.7	10,880.0	7,842.4	70.1	70.7	-97.74	-3,570.0	240.1	673.4	534.2	139.29	4.835	
10,900.0	7,751.5	10,980.0	7,842.2	72.0	72.6	-97.74	-3,670.0	240.4	673.3	530.3	142.98	4.709	
11,000.0	7,751.3	11,080.0	7,842.0	73.8	74.5	-97.74	-3,770.0	240.7	673.1	526.5	146.68	4.589	
11,100.0	7,751.1	11,180.0	7,841.8	75.7	76.3	-97.74	-3,870.0	241.0	673.0	522.6	150.39	4.475	
11,200.0	7,750.9	11,280.0	7,841.5	77.5	78.2	-97.74	-3,970.0	241.4	672.8	518.7	154.10	4.366	
11,300.0	7,750.7	11,380.0	7,841.3	79.4	80.1	-97.74	-4,070.0	241.7	672.7	514.9	157.81	4.263	
11,400.0	7,750.5	11,480.0	7,841.1	81.3	81.9	-97.74	-4,170.0	242.0	672.5	511.0	161.53	4.163	
11,500.0	7,750.3	11,580.0	7,840.9	83.1	83.8	-97.74	-4,270.0	242.4	672.4	507.1	165.25	4.069	
11,600.0	7,750.1	11,680.0	7,840.7	85.0	85.7	-97.74	-4,370.0	242.7	672.2	503.2	168.98	3.978	
11,700.0	7,749.9	11,780.0	7,840.5	86.9	87.6	-97.74	-4,470.0	243.0	672.1	499.4	172.71	3.891	
11,800.0	7,749.7	11,880.0	7,840.3	88.7	89.5	-97.74	-4,570.0	243.3	671.9	495.5	176.44	3.808	
11,900.0	7,749.5	11,980.0	7,840.0	90.6	91.3	-97.74	-4,670.0	243.7	671.8	491.6	180.17	3.728	
12,000.0	7,749.3	12,080.0	7,839.8	92.5	93.2	-97.74	-4,770.0	244.0	671.6	487.7	183.91	3.652	
12,100.0	7,749.1	12,180.0	7,839.6	94.4	95.1	-97.75	-4,870.0	244.3	671.5	483.8	187.65	3.578	
12,200.0	7,748.9	12,280.0	7,839.4	96.2	97.0	-97.75	-4,970.0	244.7	671.3	479.9	191.39	3.507	
12,300.0	7,748.7	12,380.0	7,839.2	98.1	98.9	-97.75	-5,070.0	245.0	671.1	476.0	195.14	3.439	
12,400.0	7,748.5	12,480.0	7,839.0	100.0	100.8	-97.75	-5,170.0	245.3	671.0	472.1	198.89	3.374	
12,500.0	7,748.3	12,580.0	7,838.7	101.9	102.6	-97.75	-5,270.0	245.7	670.8	468.2	202.64	3.311	
12,600.0	7,748.1	12,680.0	7,838.5	103.8	104.5	-97.75	-5,370.0	246.0	670.7	464.3	206.39	3.250	
12,700.0	7,747.9	12,780.0	7,838.3	105.7	106.4	-97.75	-5,470.0	246.3	670.5	460.4	210.14	3.191	
12,800.0	7,747.7	12,880.0	7,838.1	107.6	108.3	-97.75	-5,570.0	246.6	670.4	456.5	213.90	3.134	
12,900.0	7,747.5	12,980.0	7,837.9	109.4	110.2	-97.75	-5,670.0	247.0	670.2	452.6	217.65	3.079	
13,000.0	7,747.3	13,080.0	7,837.7	111.3	112.1	-97.75	-5,770.0	247.3	670.1	448.7	221.41	3.026	
13,100.0	7,747.1	13,180.0	7,837.5	113.2	114.0	-97.75	-5,870.0	247.6	669.9	444.8	225.17	2.975	
13,200.0	7,746.9	13,280.0	7,837.2	115.1	115.9	-97.75	-5,970.0	248.0	669.8	440.8	228.93	2.926	
13,300.0	7,746.7	13,380.0	7,837.0	117.0	117.8	-97.75	-6,070.0	248.3	669.6	436.9	232.69	2.878	
13,400.0	7,746.5	13,480.0	7,836.8	118.9	119.7	-97.75	-6,170.0	248.6	669.5	433.0	236.46	2.831	
13,500.0	7,746.3	13,580.0	7,836.6	120.8	121.6	-97.75	-6,270.0	248.9	669.3	429.1	240.22	2.786	
13,600.0	7,746.1	13,680.0	7,836.4	122.7	123.5	-97.75	-6,370.0	249.3	669.2	425.2	243.99	2.743	
13,700.0	7,745.9	13,780.0	7,836.2	124.6	125.4	-97.76	-6,470.0	249.6	669.0	421.3	247.75	2.700	
13,800.0	7,745.7	13,880.0	7,836.0	126.5	127.3	-97.76	-6,570.0	249.9	668.9	417.3	251.52	2.659	
13,900.0	7,745.5	13,980.0	7,835.7	128.4	129.2	-97.76	-6,670.0	250.3	668.7	413.4	255.29	2.619	
14,000.0	7,745.3	14,080.0	7,835.5	130.3	131.1	-97.76	-6,770.0	250.6	668.6	409.5	259.06	2.581	
14,100.0	7,745.1	14,180.0	7,835.3	132.2	133.0	-97.76	-6,870.0	250.9	668.4	405.6	262.83	2.543	
14,200.0	7,744.9	14,280.0	7,835.1	134.1	134.9	-97.76	-6,970.0	251.2	668.2	401.6	266.60	2.507	
14,300.0	7,744.7	14,380.0	7,834.9	136.0	136.8	-97.76	-7,070.0	251.6	668.1	397.7	270.38	2.471	
14,400.0	7,744.5	14,480.0	7,834.7	137.9	138.7	-97.76	-7,170.0	251.9	667.9	393.8	274.15	2.436	
14,500.0	7,744.3	14,580.0	7,834.4	139.8	140.6	-97.76	-7,270.0	252.2	667.8	389.9	277.92	2.403	
14,600.0	7,744.1	14,680.0	7,834.2	141.7	142.5	-97.76	-7,370.0	252.6	667.6	385.9	281.70	2.370	
14,700.0	7,743.9	14,780.0	7,834.0	143.6	144.4	-97.76	-7,470.0	252.9	667.5	382.0	285.47	2.338	
14,800.0	7,743.7	14,880.0	7,833.8	145.5	146.3	-97.76	-7,570.0	253.2	667.3	378.1	289.25	2.307	
14,900.0	7,743.5	14,980.0	7,833.6	147.4	148.2	-97.76	-7,670.0	253.5	667.2	374.2	293.03	2.277	
15,000.0	7,743.3	15,080.0	7,833.4	149.3	150.1	-97.76	-7,770.0	253.9	667.0	370.2	296.80	2.247	
15,100.0	7,743.1	15,180.0	7,833.2	151.2	152.0	-97.76	-7,870.0	254.2	666.9	366.3	300.58	2.219	
15,200.0	7,742.9	15,280.0	7,832.9	153.1	153.9	-97.76	-7,970.0	254.5	666.7	362.4	304.36	2.191	
15,300.0	7,742.7	15,380.0	7,832.7	155.0	155.8	-97.77	-8,070.0	254.9	666.6	358.4	308.14	2.163	
15,400.0	7,742.5	15,480.0	7,832.5	156.9	157.7	-97.77	-8,170.0	255.2	666.4	354.5	311.92	2.136	

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design												Ivey Pad Sec.11-T1S-R68W - Ivey K-14-23HN - Wellbore #1 - Plan #2 (11-4-14)		Offset Site Error:		0.0 ft	
Survey Program: 0-MWD														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)					
15,500.0	7,742.3	15,580.0	7,832.3	158.8	159.6	-97.77	-8,270.0	255.5		666.3	350.6	315.70	2.110				
15,600.0	7,742.1	15,680.0	7,832.1	160.7	161.5	-97.77	-8,370.0	255.8		666.1	346.6	319.48	2.085				
15,629.2	7,742.0	15,709.2	7,832.0	161.2	162.1	-97.77	-8,399.1	255.9		666.1	345.5	320.59	2.078 SF				

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)													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	31.32	542.1	329.9	634.5					
100.0	100.0	97.0	97.0	0.1	0.1	31.32	542.1	329.9	634.5	634.3	0.22	2,866.037		
200.0	200.0	197.0	197.0	0.3	0.3	31.32	542.1	329.9	634.5	633.9	0.67	950.547		
300.0	300.0	297.0	297.0	0.6	0.6	31.32	542.1	329.9	634.5	633.4	1.12	568.033		
400.0	400.0	397.0	397.0	0.8	0.8	31.32	542.1	329.9	634.5	633.0	1.57	405.039		
500.0	500.0	518.7	518.7	1.0	1.0	31.20	541.0	327.6	632.9	630.8	2.04	309.685		
600.0	600.0	640.7	640.4	1.2	1.3	30.80	537.9	320.7	627.7	625.2	2.53	248.242		
700.0	700.0	761.8	760.8	1.5	1.6	30.13	532.6	309.1	619.1	616.0	3.06	202.543		
800.0	800.0	881.6	879.3	1.7	2.0	29.17	525.3	293.1	607.1	603.5	3.64	166.870		
900.0	900.0	998.9	994.6	1.9	2.4	27.89	516.1	273.1	592.0	587.8	4.28	138.295		
1,000.0	1,000.0	1,096.8	1,090.3	2.1	2.8	26.65	507.7	254.8	575.7	570.8	4.90	117.571		
1,100.0	1,100.0	1,194.9	1,186.4	2.3	3.2	145.47	499.3	236.4	561.1	555.9	5.17	108.431		
1,200.0	1,199.8	1,293.7	1,283.0	2.5	3.6	144.54	490.9	217.9	549.5	543.8	5.69	96.499		
1,300.0	1,299.5	1,393.0	1,380.2	2.7	4.0	143.75	482.4	199.2	540.9	534.7	6.23	86.756		
1,400.0	1,398.7	1,492.6	1,477.6	3.0	4.5	143.09	473.8	180.6	535.1	528.3	6.80	78.725		
1,500.0	1,497.9	1,592.3	1,575.2	3.2	4.9	142.42	465.3	161.9	530.1	522.7	7.39	71.770		
1,600.0	1,597.1	1,692.0	1,672.7	3.5	5.4	141.75	456.7	143.2	525.2	517.2	7.99	65.718		
1,700.0	1,696.2	1,791.6	1,770.3	3.8	5.8	141.05	448.2	124.5	520.3	511.7	8.61	60.423		
1,800.0	1,795.4	1,891.3	1,867.8	4.1	6.3	140.35	439.6	105.8	515.5	506.2	9.24	55.766		
1,900.0	1,894.5	1,991.0	1,965.3	4.3	6.7	139.63	431.1	87.1	510.8	500.9	9.89	51.648		
2,000.0	1,993.7	2,090.7	2,062.9	4.6	7.2	138.90	422.6	68.4	506.1	495.6	10.55	47.989		
2,100.0	2,092.9	2,190.4	2,160.4	4.9	7.6	138.16	414.0	49.7	501.6	490.4	11.22	44.721		
2,200.0	2,192.0	2,290.1	2,258.0	5.3	8.1	137.40	405.5	31.0	497.1	485.2	11.90	41.791		
2,300.0	2,291.2	2,389.7	2,355.5	5.6	8.5	136.63	396.9	12.3	492.8	480.2	12.59	39.151		
2,400.0	2,390.4	2,489.4	2,453.0	5.9	9.0	135.85	388.4	-6.4	488.5	475.2	13.29	36.765		
2,500.0	2,489.5	2,589.1	2,550.6	6.2	9.5	135.05	379.8	-25.1	484.3	470.3	14.00	34.599		
2,600.0	2,588.7	2,688.8	2,648.1	6.5	9.9	134.24	371.3	-43.7	480.2	465.5	14.72	32.627		
2,700.0	2,687.9	2,788.5	2,745.7	6.8	10.4	133.41	362.7	-62.4	476.2	460.7	15.45	30.826		
2,800.0	2,787.0	2,888.1	2,843.2	7.2	10.8	132.57	354.2	-81.1	472.3	456.1	16.19	29.177		
2,900.0	2,886.2	2,987.8	2,940.7	7.5	11.3	131.72	345.7	-99.8	468.5	451.6	16.94	27.662		
3,000.0	2,985.4	3,087.5	3,038.3	7.8	11.7	130.85	337.1	-118.5	464.8	447.1	17.69	26.269		
3,100.0	3,084.5	3,187.2	3,135.8	8.1	12.2	129.97	328.6	-137.2	461.2	442.8	18.46	24.983		
3,200.0	3,183.7	3,286.9	3,233.4	8.5	12.7	129.08	320.0	-155.9	457.8	438.5	19.24	23.795		
3,300.0	3,282.9	3,386.6	3,330.9	8.8	13.1	128.17	311.5	-174.6	454.4	434.4	20.02	22.694		
3,400.0	3,382.0	3,486.2	3,428.4	9.1	13.6	127.25	302.9	-193.3	451.2	430.4	20.82	21.674		
3,500.0	3,481.2	3,585.9	3,526.0	9.4	14.0	126.32	294.4	-212.0	448.1	426.5	21.62	20.726		
3,600.0	3,580.4	3,685.6	3,623.5	9.8	14.5	125.37	285.9	-230.7	445.1	422.6	22.43	19.844		
3,700.0	3,679.5	3,785.3	3,721.1	10.1	14.9	124.41	277.3	-249.4	442.2	419.0	23.25	19.023		
3,800.0	3,778.7	3,885.0	3,818.6	10.4	15.4	123.44	268.8	-268.1	439.5	415.4	24.07	18.257		
3,900.0	3,877.9	3,984.6	3,916.1	10.8	15.9	122.46	260.2	-286.7	436.8	411.9	24.90	17.542		
4,000.0	3,977.0	4,084.3	4,013.7	11.1	16.3	121.47	251.7	-305.4	434.3	408.6	25.74	16.874		
4,100.0	4,076.2	4,184.0	4,111.2	11.4	16.8	120.46	243.1	-324.1	432.0	405.4	26.58	16.250		
4,200.0	4,175.4	4,283.7	4,208.8	11.8	17.2	119.45	234.6	-342.8	429.8	402.3	27.43	15.665		
4,300.0	4,274.5	4,383.4	4,306.3	12.1	17.7	118.42	226.1	-361.5	427.7	399.4	28.29	15.118		
4,400.0	4,373.7	4,483.1	4,403.8	12.4	18.2	117.39	217.5	-380.2	425.7	396.6	29.15	14.605		
4,500.0	4,472.8	4,582.7	4,501.4	12.8	18.6	116.34	209.0	-398.9	423.9	393.9	30.01	14.124		
4,600.0	4,572.0	4,682.4	4,598.9	13.1	19.1	115.29	200.4	-417.6	422.3	391.4	30.88	13.674		
4,700.0	4,671.2	4,782.1	4,696.5	13.4	19.5	114.23	191.9	-436.3	420.8	389.0	31.75	13.251		
4,800.0	4,770.3	4,881.8	4,794.0	13.8	20.0	113.16	183.3	-455.0	419.4	386.8	32.63	12.854		
4,900.0	4,869.5	4,981.5	4,891.5	14.1	20.5	112.08	174.8	-473.7	418.2	384.7	33.50	12.482		
5,000.0	4,968.7	5,081.1	4,989.1	14.4	20.9	110.96	166.2	-492.4	417.0	382.6	34.37	12.134		
5,100.0	5,068.2	5,180.5	5,086.3	14.6	21.4	109.45	157.7	-511.0	415.0	379.9	35.18	11.798		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)												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
5,200.0	5,168.0	5,279.5	5,183.1	14.8	21.8	107.45	149.2	-529.6	412.3	376.3	36.00	11.454	
5,300.0	5,268.0	5,377.9	5,279.4	15.0	22.3	104.98	140.8	-548.0	409.1	372.3	36.80	11.118	
5,400.0	5,368.0	5,475.7	5,375.2	15.1	22.7	-17.69	132.4	-566.4	406.2	368.6	37.57	10.811	
5,500.0	5,468.0	5,573.6	5,471.0	15.3	23.2	-20.53	124.0	-584.7	404.1	365.8	38.32	10.548	
5,600.0	5,568.0	5,671.4	5,566.7	15.4	23.6	-23.39	115.7	-603.1	403.2	364.2	39.02	10.334	
5,640.9	5,608.9	5,711.5	5,605.9	15.5	23.8	-24.56	112.2	-610.6	403.1	363.8	39.29	10.259 CC	
5,700.0	5,668.0	5,769.3	5,662.5	15.6	24.1	-26.26	107.3	-621.4	403.3	363.6	39.67	10.166 ES	
5,800.0	5,768.0	5,867.2	5,758.2	15.7	24.6	-29.12	98.9	-639.8	404.4	364.2	40.27	10.042	
5,900.0	5,868.0	5,965.0	5,853.9	15.9	25.0	-31.95	90.5	-658.1	406.6	365.8	40.82	9.961	
6,000.0	5,968.0	6,062.9	5,949.7	16.1	25.5	-34.75	82.1	-676.5	409.8	368.5	41.32	9.919	
6,100.0	6,068.0	6,160.7	6,045.4	16.2	25.9	-37.50	73.7	-694.8	414.1	372.3	41.77	9.914 SF	
6,200.0	6,168.0	6,258.6	6,141.2	16.4	26.4	-40.20	65.3	-713.2	419.3	377.1	42.17	9.943	
6,300.0	6,268.0	6,356.4	6,236.9	16.6	26.8	-42.82	56.9	-731.5	425.4	382.9	42.52	10.004	
6,400.0	6,368.0	6,454.3	6,332.7	16.7	27.3	-45.37	48.6	-749.9	432.4	389.6	42.84	10.094	
6,500.0	6,468.0	6,553.4	6,429.7	16.9	27.7	-47.85	40.1	-768.4	440.3	397.2	43.11	10.214	
6,600.0	6,568.0	6,658.6	6,533.2	17.1	28.0	-50.10	32.2	-785.7	447.9	404.6	43.28	10.349	
6,700.0	6,668.0	6,765.1	6,638.5	17.2	28.3	-51.85	25.8	-799.7	454.4	410.9	43.43	10.461	
6,800.0	6,768.0	6,872.6	6,745.4	17.4	28.6	-53.13	21.0	-810.2	459.4	415.8	43.61	10.534	
6,900.0	6,868.0	6,980.8	6,853.3	17.6	28.7	-53.96	17.8	-817.1	462.8	419.0	43.82	10.561	
7,000.0	6,968.0	7,089.4	6,961.9	17.8	28.9	-54.34	16.4	-820.3	464.4	420.3	44.07	10.537	
7,100.0	7,068.0	7,192.5	7,065.0	17.9	29.0	125.92	16.3	-820.5	464.8	420.5	44.29	10.495	
7,200.0	7,167.3	7,328.6	7,200.9	18.2	29.1	127.42	16.2	-817.2	469.8	425.3	44.51	10.554	
7,300.0	7,264.2	7,522.7	7,389.3	18.4	28.9	135.32	16.1	-772.4	467.4	422.6	44.88	10.416	
7,400.0	7,356.8	7,677.5	7,526.5	18.8	28.4	146.28	15.9	-701.3	463.1	419.1	43.97	10.531	
7,406.4	7,362.5	7,685.9	7,533.4	18.8	28.4	146.97	15.8	-696.6	463.0	419.2	43.86	10.558	
7,500.0	7,443.3	7,791.3	7,615.8	19.2	28.1	156.24	15.6	-631.1	470.0	428.5	41.48	11.330	
7,600.0	7,521.9	7,872.5	7,672.2	19.8	27.8	163.74	15.4	-572.7	497.1	459.1	38.07	13.059	
7,700.0	7,591.1	7,930.2	7,708.0	20.5	27.7	169.02	15.3	-527.5	546.7	512.4	34.28	15.946	
7,800.0	7,649.6	7,970.9	7,731.0	21.3	27.6	172.77	15.2	-493.9	615.4	585.0	30.40	20.240	
7,900.0	7,696.2	7,999.2	7,745.9	22.2	27.6	175.54	15.1	-469.9	698.2	671.5	26.66	26.187	
8,000.0	7,730.0	8,017.9	7,755.2	23.3	27.6	177.77	15.0	-453.7	790.2	766.8	23.37	33.811	
8,100.0	7,750.4	8,028.7	7,760.4	24.5	27.5	-179.98	15.0	-444.2	887.4	866.4	21.03	42.190	
8,200.0	7,757.0	8,032.6	7,762.2	25.8	27.5	-149.12	15.0	-440.8	987.1	955.8	31.22	31.618	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)													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	31.57	528.2	324.5	620.0					
100.0	100.0	97.0	97.0	0.1	0.1	31.57	528.2	324.5	620.0	619.7	0.22	2,800.132		
200.0	200.0	197.0	197.0	0.3	0.3	31.57	528.2	324.5	620.0	619.3	0.67	928.689		
300.0	300.0	321.3	321.2	0.6	0.6	31.48	526.7	322.5	618.0	616.9	1.15	536.657		
400.0	400.0	445.8	445.5	0.8	0.9	31.20	522.0	316.1	612.1	610.5	1.66	369.382		
500.0	500.0	569.4	568.4	1.0	1.2	30.71	514.1	305.4	602.2	600.0	2.22	271.563		
600.0	600.0	691.7	689.3	1.2	1.6	30.01	503.3	290.6	588.4	585.6	2.84	207.232		
700.0	700.0	812.1	807.5	1.5	2.1	29.06	489.6	272.1	570.9	567.4	3.54	161.436		
800.0	800.0	918.7	911.3	1.7	2.6	28.00	475.4	252.7	550.4	546.2	4.24	129.720		
900.0	900.0	1,016.0	1,006.0	1.9	3.0	26.93	462.2	234.8	529.7	524.8	4.93	107.491		
1,000.0	1,000.0	1,113.4	1,100.8	2.1	3.5	25.77	449.0	216.8	509.2	503.6	5.62	90.585		
1,100.0	1,100.0	1,211.1	1,195.9	2.3	4.0	144.73	435.7	198.7	490.4	485.0	5.41	90.611		
1,200.0	1,199.8	1,309.5	1,291.7	2.5	4.4	143.95	422.3	180.6	474.5	468.5	5.93	79.946		
1,300.0	1,299.5	1,408.4	1,388.0	2.7	4.9	143.33	408.9	162.3	461.5	455.0	6.48	71.269		
1,400.0	1,398.7	1,507.8	1,484.7	3.0	5.4	142.85	395.4	143.9	451.2	444.2	7.03	64.155		
1,500.0	1,497.9	1,607.2	1,581.5	3.2	5.9	142.33	381.9	125.5	441.6	434.0	7.61	58.012		
1,600.0	1,597.1	1,706.7	1,678.3	3.5	6.4	141.79	368.4	107.2	432.1	423.9	8.21	52.648		
1,700.0	1,696.2	1,806.2	1,775.1	3.8	6.9	141.22	354.9	88.8	422.7	413.8	8.82	47.937		
1,800.0	1,795.4	1,905.6	1,871.9	4.1	7.4	140.63	341.4	70.4	413.2	403.8	9.44	43.779		
1,900.0	1,894.5	2,005.1	1,968.8	4.3	7.9	140.01	327.9	52.1	403.8	393.8	10.07	40.088		
2,000.0	1,993.7	2,104.5	2,065.6	4.6	8.4	139.36	314.3	33.7	394.5	383.8	10.72	36.796		
2,100.0	2,092.9	2,204.0	2,162.4	4.9	8.9	138.68	300.8	15.3	385.2	373.8	11.38	33.847		
2,200.0	2,192.0	2,303.5	2,259.2	5.3	9.4	137.97	287.3	-3.1	376.0	363.9	12.05	31.192		
2,300.0	2,291.2	2,402.9	2,356.0	5.6	9.9	137.22	273.8	-21.4	366.8	354.1	12.74	28.792		
2,400.0	2,390.4	2,502.4	2,452.8	5.9	10.4	136.43	260.3	-39.8	357.7	344.3	13.44	26.616		
2,500.0	2,489.5	2,601.8	2,549.6	6.2	10.9	135.60	246.8	-58.2	348.7	334.5	14.15	24.636		
2,600.0	2,588.7	2,701.3	2,646.4	6.5	11.4	134.73	233.3	-76.5	339.8	324.9	14.88	22.828		
2,700.0	2,687.9	2,800.8	2,743.2	6.8	11.9	133.81	219.8	-94.9	330.9	315.3	15.63	21.172		
2,800.0	2,787.0	2,900.2	2,840.1	7.2	12.4	132.84	206.3	-113.3	322.1	305.7	16.39	19.653		
2,900.0	2,886.2	2,999.7	2,936.9	7.5	12.9	131.81	192.8	-131.7	313.4	296.3	17.17	18.256		
3,000.0	2,985.4	3,099.1	3,033.7	7.8	13.4	130.73	179.3	-150.0	304.8	286.9	17.96	16.969		
3,100.0	3,084.5	3,198.6	3,130.5	8.1	13.9	129.59	165.7	-168.4	296.4	277.6	18.78	15.781		
3,200.0	3,183.7	3,298.1	3,227.3	8.5	14.4	128.38	152.2	-186.8	288.0	268.4	19.62	14.683		
3,300.0	3,282.9	3,397.5	3,324.1	8.8	14.9	127.10	138.7	-205.1	279.8	259.4	20.48	13.667		
3,400.0	3,382.0	3,497.0	3,420.9	9.1	15.4	125.74	125.2	-223.5	271.8	250.4	21.36	12.727		
3,500.0	3,481.2	3,596.5	3,517.7	9.4	15.9	124.30	111.7	-241.9	263.9	241.6	22.26	11.856		
3,600.0	3,580.4	3,695.9	3,614.6	9.8	16.4	122.77	98.2	-260.3	256.2	233.0	23.18	11.049		
3,700.0	3,679.5	3,795.4	3,711.4	10.1	16.9	121.15	84.7	-278.6	248.6	224.5	24.13	10.302		
3,800.0	3,778.7	3,894.8	3,808.2	10.4	17.4	119.44	71.2	-297.0	241.3	216.2	25.11	9.611		
3,900.0	3,877.9	3,994.3	3,905.0	10.8	17.9	117.61	57.7	-315.4	234.3	208.1	26.11	8.973		
4,000.0	3,977.0	4,093.8	4,001.8	11.1	18.3	115.68	44.2	-333.7	227.4	200.3	27.13	8.383		
4,100.0	4,076.2	4,193.2	4,098.6	11.4	18.8	113.63	30.7	-352.1	220.9	192.7	28.17	7.841		
4,200.0	4,175.4	4,292.7	4,195.4	11.8	19.3	111.45	17.2	-370.5	214.6	185.4	29.23	7.343		
4,300.0	4,274.5	4,392.1	4,292.2	12.1	19.8	109.15	3.6	-388.9	208.7	178.4	30.30	6.887		
4,400.0	4,373.7	4,491.6	4,389.0	12.4	20.3	106.73	-9.9	-407.2	203.1	171.7	31.38	6.472		
4,500.0	4,472.8	4,591.1	4,485.9	12.8	20.8	104.17	-23.4	-425.6	197.9	165.5	32.47	6.096		
4,600.0	4,572.0	4,690.5	4,582.7	13.1	21.3	101.48	-36.9	-444.0	193.2	159.6	33.55	5.757		
4,700.0	4,671.2	4,790.0	4,679.5	13.4	21.8	98.66	-50.4	-462.3	188.9	154.2	34.62	5.454		
4,800.0	4,770.3	4,889.4	4,776.3	13.8	22.3	95.72	-63.9	-480.7	185.0	149.3	35.67	5.187		
4,900.0	4,869.5	4,988.9	4,873.1	14.1	22.8	92.66	-77.4	-499.1	181.7	145.0	36.68	4.953		
5,000.0	4,968.7	5,088.3	4,969.9	14.4	23.3	89.40	-90.9	-517.4	178.9	141.3	37.63	4.754		
5,100.0	5,068.2	5,187.4	5,066.4	14.6	23.8	85.15	-104.4	-535.8	176.9	138.5	38.43	4.604		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)												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
5,170.1	5,138.1	5,256.6	5,133.7	14.8	24.2	81.50	-113.8	-548.5	176.4	137.6	38.89	4.537	CC
5,200.0	5,168.0	5,286.0	5,162.3	14.8	24.3	79.78	-117.8	-554.0	176.6	137.5	39.05	4.521	ES
5,300.0	5,268.0	5,384.0	5,257.6	15.0	24.8	73.49	-131.1	-572.1	178.7	139.3	39.38	4.538	
5,400.0	5,368.0	5,481.3	5,352.4	15.1	25.3	-53.17	-144.3	-590.0	184.1	144.7	39.39	4.674	
5,500.0	5,468.0	5,578.7	5,447.2	15.3	25.8	-59.58	-157.5	-608.0	192.2	153.0	39.15	4.909	
5,600.0	5,568.0	5,676.0	5,541.9	15.4	26.3	-65.43	-170.7	-626.0	202.5	163.8	38.76	5.226	
5,700.0	5,668.0	5,773.4	5,636.7	15.6	26.8	-70.68	-184.0	-644.0	214.8	176.5	38.30	5.609	
5,800.0	5,768.0	5,870.7	5,731.4	15.7	27.3	-75.35	-197.2	-662.0	228.8	190.9	37.84	6.046	
5,900.0	5,868.0	5,968.0	5,826.1	15.9	27.8	-79.48	-210.4	-679.9	244.1	206.7	37.42	6.522	
6,000.0	5,968.0	6,065.4	5,920.9	16.1	28.2	-83.11	-223.6	-697.9	260.5	223.4	37.07	7.028	
6,100.0	6,068.0	6,162.7	6,015.6	16.2	28.7	-86.32	-236.8	-715.9	277.9	241.1	36.79	7.553	
6,200.0	6,168.0	6,260.0	6,110.4	16.4	29.2	-89.14	-250.1	-733.9	296.0	259.4	36.59	8.090	
6,300.0	6,268.0	6,357.4	6,205.1	16.6	29.7	-91.65	-263.3	-751.8	314.7	278.3	36.45	8.633	
6,400.0	6,368.0	6,461.1	6,306.2	16.7	30.1	-93.94	-276.9	-770.4	333.4	297.1	36.33	9.178	
6,500.0	6,468.0	6,570.5	6,413.7	16.9	30.5	-95.77	-289.2	-787.1	349.6	313.3	36.28	9.635	
6,600.0	6,568.0	6,681.3	6,523.2	17.1	30.8	-97.12	-299.0	-800.5	362.7	326.3	36.35	9.978	
6,700.0	6,668.0	6,793.3	6,634.5	17.2	31.0	-98.06	-306.5	-810.6	372.5	336.0	36.50	10.206	
6,800.0	6,768.0	6,906.2	6,747.0	17.4	31.2	-98.65	-311.4	-817.3	379.0	342.3	36.73	10.320	
6,900.0	6,868.0	7,019.4	6,860.3	17.6	31.3	-98.92	-313.6	-820.3	382.0	345.0	37.01	10.321	
7,000.0	6,968.0	7,124.2	6,965.0	17.8	31.4	-98.94	-313.8	-820.6	382.2	344.9	37.34	10.235	
7,100.0	7,068.0	7,251.4	7,092.2	17.9	31.5	81.49	-313.8	-818.7	381.3	343.6	37.69	10.115	
7,200.0	7,167.3	7,451.5	7,287.1	18.2	31.3	85.74	-313.9	-776.6	358.8	319.6	39.22	9.150	
7,300.0	7,264.2	7,614.5	7,432.4	18.4	30.9	96.77	-314.2	-703.4	312.7	270.5	42.17	7.414	
7,400.0	7,356.8	7,735.6	7,527.5	18.8	30.5	115.50	-314.4	-628.6	254.7	209.3	45.38	5.613	
7,500.0	7,443.3	7,822.6	7,587.3	19.2	30.2	137.69	-314.6	-565.5	201.7	156.6	45.12	4.471	
7,595.2	7,518.3	7,882.4	7,623.7	19.8	30.0	155.13	-314.8	-518.2	179.4	138.3	41.13	4.362	SF
7,600.0	7,521.9	7,884.9	7,625.1	19.8	30.0	155.86	-314.8	-516.1	179.5	138.6	40.88	4.390	
7,700.0	7,591.1	7,929.6	7,649.6	20.5	29.9	168.25	-314.9	-478.7	208.9	173.3	35.57	5.873	
7,800.0	7,649.6	7,961.6	7,665.6	21.3	29.8	177.07	-315.0	-451.0	277.9	247.3	30.62	9.076	
7,900.0	7,696.2	7,984.1	7,676.2	22.2	29.8	-174.99	-315.1	-431.2	366.0	339.3	26.68	13.716	
8,000.0	7,730.0	8,000.0	7,683.3	23.3	29.7	-162.68	-315.1	-416.9	462.1	436.0	26.13	17.687	
8,100.0	7,750.4	8,007.8	7,686.6	24.5	29.7	-114.57	-315.2	-409.8	561.3	517.0	44.29	12.673	
8,200.0	7,757.0	8,011.0	7,687.9	25.8	29.7	-28.07	-315.2	-407.0	661.0	634.7	26.34	25.091	
8,300.0	7,756.8	8,011.6	7,688.2	27.0	29.7	-28.53	-315.2	-406.4	760.4	733.2	27.22	27.934	
8,400.0	7,756.6	8,012.2	7,688.4	28.4	29.7	-28.98	-315.2	-405.9	860.0	831.8	28.21	30.489	
8,500.0	7,756.4	8,012.8	7,688.7	29.9	29.7	-29.42	-315.2	-405.3	959.6	930.4	29.25	32.805	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 186- North Washington Pad SEC.23-T1S-R68W - North Washington 2-23 (Exist.) - North Washington 2-23 -												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
13,000.0	7,747.3	8,257.8	7,938.2	111.3		-105.38	-6,542.3	132.0	957.3	849.3	107.95	8.868	
13,100.0	7,747.1	8,242.4	7,923.0	113.2		-103.88	-6,544.9	132.5	878.4	768.0	110.40	7.957	
13,200.0	7,746.9	8,226.7	7,907.5	115.1		-102.33	-6,547.6	133.0	803.9	691.1	112.82	7.126	
13,300.0	7,746.7	8,210.6	7,891.7	117.0		-100.72	-6,550.3	133.5	735.1	619.9	115.21	6.381	
13,400.0	7,746.5	8,193.4	7,874.8	118.9		-98.99	-6,553.3	134.1	673.8	556.2	117.57	5.731	
13,500.0	7,746.3	8,175.5	7,857.2	120.8		-97.18	-6,556.4	134.7	622.0	502.1	119.87	5.189	
13,600.0	7,746.1	8,158.1	7,840.0	122.7		-95.40	-6,559.3	135.3	582.4	460.3	122.08	4.771	
13,700.0	7,745.9	8,141.2	7,823.4	124.6		-93.67	-6,562.1	135.9	557.6	433.4	124.19	4.490	
13,795.3	7,745.7	8,125.6	7,807.9	126.4		-92.06	-6,564.7	136.5	549.6	423.5	126.12	4.358 CC	
13,800.0	7,745.7	8,124.8	7,807.2	126.5		-91.98	-6,564.8	136.5	549.7	423.5	126.21	4.355 ES, SF	
13,900.0	7,745.5	8,108.0	7,790.6	128.4		-90.25	-6,567.5	137.1	559.3	431.1	128.14	4.365	
14,000.0	7,745.3	8,092.7	7,775.6	130.3		-88.69	-6,570.0	137.7	585.6	455.6	129.97	4.505	
14,100.0	7,745.1	8,076.8	7,759.9	132.2		-87.06	-6,572.5	138.2	626.5	494.8	131.72	4.756	
14,200.0	7,744.9	8,061.2	7,744.5	134.1		-85.47	-6,575.0	138.8	679.4	546.0	133.38	5.094	
14,300.0	7,744.7	8,045.8	7,729.2	136.0		-83.91	-6,577.4	139.4	741.8	606.8	134.95	5.497	
14,400.0	7,744.5	8,030.6	7,714.2	137.9		-82.38	-6,579.8	139.9	811.4	674.9	136.43	5.947	
14,500.0	7,744.3	8,014.0	7,697.9	139.8		-80.73	-6,582.3	140.5	886.5	748.8	137.77	6.435	
14,600.0	7,744.1	7,998.6	7,682.6	141.7		-79.21	-6,584.7	141.1	966.0	826.9	139.06	6.946	

Reference Depths are relative to WELL @ 5132.5ft (Original Well Elev) Coordinates are relative to: Ivey I-14-23HN
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: 0.34°



Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey I-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey I-14-23HN	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 #2 (11-4-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5132.5ft (Original Well Elev) Coordinates are relative to: Ivey I-14-23HN
 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: 0.34°

