

Bayswater Exploration & Production, LLC

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

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

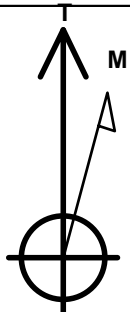
North American Datum 1983, US State Plane 1983, Colorado Northern Zone

Ground Elevation: 5110.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1233681.26	3149461.43	39.973605	-104.966705	
Original Well Elev WELL @ 5132.5ft (Original Well Elev)						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 575'FSL, 2041'FEL, SEC.11	1.0	0.0	0.0	Point
BHL 2603'FNL, 1180'FEL, SEC.23	7742.0	-8481.3	887.4	Point
LANDING PT. 465'FNL, 1180'FEL, SEC.14	7757.0	-1042.2	862.4	Point



Azimuths to True North
Magnetic North: 8.52°

Magnetic Field
Strength: 52559.9nT
Dip Angle: 66.57°
Date: 7/10/2014
Model: IGRF2010

Ivey Pad Sec.11-T1S-R68W
Ivey M-14-23HN
Plan #2 (11-5-14)
16:01, November 07 2014

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP - Start Build 2.00
7086.1	7144.8	Start DLS 8.00 TFO 67.10
7742.0	15670.8	TD at 15670.8

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

SHL 575'FSL, 2041'FEL, SEC.11

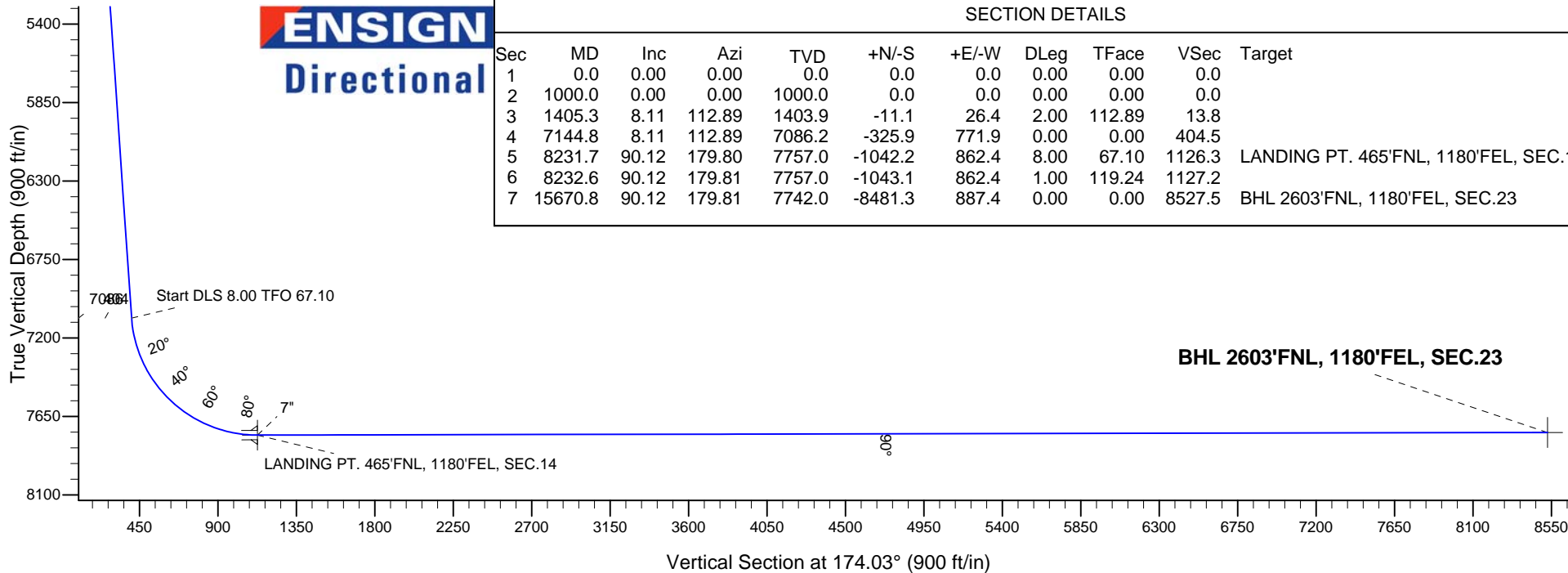
LANDING PT. 465'FNL, 1180'FEL, SEC.14

BHL 2603'FNL, 1180'FEL, SEC.23

West(-)/East(+) (3500 ft/in)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1405.3	8.11	112.89	1403.9	-11.1	26.4	2.00	112.89	13.8	
4	7144.8	8.11	112.89	7086.2	-325.9	771.9	0.00	0.00	404.5	
5	8231.7	90.12	179.80	7757.0	-1042.2	862.4	8.00	67.10	1126.3	LANDING PT. 465'FNL, 1180'FEL, SEC.14
6	8232.6	90.12	179.81	7757.0	-1043.1	862.4	1.00	119.24	1127.2	
7	15670.8	90.12	179.81	7742.0	-8481.3	887.4	0.00	0.00	8527.5	BHL 2603'FNL, 1180'FEL, SEC.23





Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey M-14-23HN

Wellbore #1

Plan: Plan #2 (11-5-14)

Standard Planning Report

07 November, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey M-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 M-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-5-14)		

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 M-14-23HN					
Well Position	+N-S	-600.0 ft	Northing:	1,233,681.26 ft	Latitude:	39.973605
	+E-W	-347.2 ft	Easting:	3,149,461.43 ft	Longitude:	-104.966705
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 (11-5-14)			
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	174.03

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	
1,405.3	8.11	112.89	1,403.9	-11.1	26.4	2.00	2.00	0.00	112.89	
7,144.8	8.11	112.89	7,086.2	-325.9	771.9	0.00	0.00	0.00	0.00	
8,231.7	90.12	179.80	7,757.0	-1,042.2	862.4	8.00	7.55	6.16	67.10	LANDING PT. 465'I
8,232.6	90.12	179.81	7,757.0	-1,043.1	862.4	1.00	-0.49	0.87	119.24	
15,670.8	90.12	179.81	7,742.0	-8,481.3	887.4	0.00	0.00	0.00	0.00	BHL 2603'FNL, 118

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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 M-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-5-14)		

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	112.89	1,100.0	-0.7	1.6	0.8	2.00	2.00	0.00
1,200.0	4.00	112.89	1,199.8	-2.7	6.4	3.4	2.00	2.00	0.00
1,300.0	6.00	112.89	1,299.5	-6.1	14.5	7.6	2.00	2.00	0.00
1,400.0	8.00	112.89	1,398.7	-10.8	25.7	13.5	2.00	2.00	0.00
1,405.3	8.11	112.89	1,403.9	-11.1	26.4	13.8	2.00	2.00	0.00
1,500.0	8.11	112.89	1,497.7	-16.3	38.7	20.3	0.00	0.00	0.00
1,600.0	8.11	112.89	1,596.7	-21.8	51.7	27.1	0.00	0.00	0.00
1,700.0	8.11	112.89	1,695.7	-27.3	64.6	33.9	0.00	0.00	0.00
1,800.0	8.11	112.89	1,794.7	-32.8	77.6	40.7	0.00	0.00	0.00
1,900.0	8.11	112.89	1,893.7	-38.3	90.6	47.5	0.00	0.00	0.00
2,000.0	8.11	112.89	1,992.7	-43.8	103.6	54.3	0.00	0.00	0.00
2,100.0	8.11	112.89	2,091.7	-49.2	116.6	61.1	0.00	0.00	0.00
2,200.0	8.11	112.89	2,190.7	-54.7	129.6	67.9	0.00	0.00	0.00
2,300.0	8.11	112.89	2,289.7	-60.2	142.6	74.7	0.00	0.00	0.00
2,400.0	8.11	112.89	2,388.7	-65.7	155.6	81.5	0.00	0.00	0.00
2,500.0	8.11	112.89	2,487.7	-71.2	168.6	88.3	0.00	0.00	0.00
2,600.0	8.11	112.89	2,586.7	-76.7	181.5	95.1	0.00	0.00	0.00
2,700.0	8.11	112.89	2,685.7	-82.1	194.5	101.9	0.00	0.00	0.00
2,800.0	8.11	112.89	2,784.7	-87.6	207.5	108.7	0.00	0.00	0.00
2,900.0	8.11	112.89	2,883.7	-93.1	220.5	115.6	0.00	0.00	0.00
3,000.0	8.11	112.89	2,982.7	-98.6	233.5	122.4	0.00	0.00	0.00
3,100.0	8.11	112.89	3,081.7	-104.1	246.5	129.2	0.00	0.00	0.00
3,200.0	8.11	112.89	3,180.7	-109.6	259.5	136.0	0.00	0.00	0.00
3,300.0	8.11	112.89	3,279.7	-115.0	272.5	142.8	0.00	0.00	0.00
3,400.0	8.11	112.89	3,378.7	-120.5	285.5	149.6	0.00	0.00	0.00
3,500.0	8.11	112.89	3,477.7	-126.0	298.4	156.4	0.00	0.00	0.00
3,600.0	8.11	112.89	3,576.7	-131.5	311.4	163.2	0.00	0.00	0.00
3,700.0	8.11	112.89	3,675.7	-137.0	324.4	170.0	0.00	0.00	0.00
3,800.0	8.11	112.89	3,774.7	-142.5	337.4	176.8	0.00	0.00	0.00
3,900.0	8.11	112.89	3,873.7	-148.0	350.4	183.6	0.00	0.00	0.00
4,000.0	8.11	112.89	3,972.7	-153.4	363.4	190.4	0.00	0.00	0.00
4,100.0	8.11	112.89	4,071.7	-158.9	376.4	197.2	0.00	0.00	0.00
4,200.0	8.11	112.89	4,170.7	-164.4	389.4	204.0	0.00	0.00	0.00
4,300.0	8.11	112.89	4,269.7	-169.9	402.4	210.8	0.00	0.00	0.00
4,400.0	8.11	112.89	4,368.7	-175.4	415.3	217.6	0.00	0.00	0.00
4,500.0	8.11	112.89	4,467.7	-180.9	428.3	224.5	0.00	0.00	0.00
4,600.0	8.11	112.89	4,566.7	-186.3	441.3	231.3	0.00	0.00	0.00
4,700.0	8.11	112.89	4,665.7	-191.8	454.3	238.1	0.00	0.00	0.00
4,800.0	8.11	112.89	4,764.7	-197.3	467.3	244.9	0.00	0.00	0.00
4,900.0	8.11	112.89	4,863.7	-202.8	480.3	251.7	0.00	0.00	0.00
5,000.0	8.11	112.89	4,962.7	-208.3	493.3	258.5	0.00	0.00	0.00
5,100.0	8.11	112.89	5,061.7	-213.8	506.3	265.3	0.00	0.00	0.00

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Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey M-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-5-14)		

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)
5,200.0	8.11	112.89	5,160.7	-219.3	519.3	272.1	0.00	0.00	0.00
5,300.0	8.11	112.89	5,259.7	-224.7	532.2	278.9	0.00	0.00	0.00
5,400.0	8.11	112.89	5,358.7	-230.2	545.2	285.7	0.00	0.00	0.00
5,500.0	8.11	112.89	5,457.7	-235.7	558.2	292.5	0.00	0.00	0.00
5,600.0	8.11	112.89	5,556.7	-241.2	571.2	299.3	0.00	0.00	0.00
5,700.0	8.11	112.89	5,655.7	-246.7	584.2	306.1	0.00	0.00	0.00
5,800.0	8.11	112.89	5,754.7	-252.2	597.2	312.9	0.00	0.00	0.00
5,900.0	8.11	112.89	5,853.8	-257.6	610.2	319.7	0.00	0.00	0.00
6,000.0	8.11	112.89	5,952.8	-263.1	623.2	326.5	0.00	0.00	0.00
6,100.0	8.11	112.89	6,051.8	-268.6	636.1	333.4	0.00	0.00	0.00
6,200.0	8.11	112.89	6,150.8	-274.1	649.1	340.2	0.00	0.00	0.00
6,300.0	8.11	112.89	6,249.8	-279.6	662.1	347.0	0.00	0.00	0.00
6,400.0	8.11	112.89	6,348.8	-285.1	675.1	353.8	0.00	0.00	0.00
6,500.0	8.11	112.89	6,447.8	-290.6	688.1	360.6	0.00	0.00	0.00
6,600.0	8.11	112.89	6,546.8	-296.0	701.1	367.4	0.00	0.00	0.00
6,700.0	8.11	112.89	6,645.8	-301.5	714.1	374.2	0.00	0.00	0.00
6,800.0	8.11	112.89	6,744.8	-307.0	727.1	381.0	0.00	0.00	0.00
6,900.0	8.11	112.89	6,843.8	-312.5	740.1	387.8	0.00	0.00	0.00
7,000.0	8.11	112.89	6,942.8	-318.0	753.0	394.6	0.00	0.00	0.00
7,100.0	8.11	112.89	7,041.8	-323.5	766.0	401.4	0.00	0.00	0.00
7,144.8	8.11	112.89	7,086.1	-325.9	771.9	404.5	0.00	0.00	0.00
Start DLS 8.00 TFO 67.10									
7,200.0	10.62	135.50	7,140.6	-331.1	779.0	410.3	7.99	4.56	40.95
7,300.0	17.24	154.81	7,237.6	-351.1	791.8	431.6	8.00	6.61	19.32
7,400.0	24.67	163.22	7,331.0	-384.5	804.2	466.1	8.00	7.43	8.40
7,500.0	32.36	167.86	7,418.8	-430.7	815.8	513.3	8.00	7.69	4.64
7,600.0	40.17	170.86	7,499.4	-488.8	826.6	572.2	8.00	7.80	3.00
7,700.0	48.03	173.02	7,571.1	-557.7	836.3	641.7	8.00	7.86	2.16
7,800.0	55.92	174.70	7,632.7	-636.0	844.6	720.4	8.00	7.89	1.68
7,900.0	63.82	176.09	7,682.9	-722.1	851.5	806.8	8.00	7.91	1.39
8,000.0	71.75	177.31	7,720.6	-814.4	856.8	899.2	8.00	7.92	1.22
8,100.0	79.67	178.42	7,745.3	-911.2	860.4	995.8	8.00	7.93	1.11
8,200.0	87.60	179.47	7,756.4	-1,010.5	862.2	1,094.7	8.00	7.93	1.05
8,231.7	90.12	179.80	7,757.0	-1,042.2	862.4	1,126.3	8.00	7.93	1.04
7"									
8,232.6	90.12	179.81	7,757.0	-1,043.1	862.4	1,127.2	0.95	-0.37	0.87
8,300.0	90.12	179.81	7,756.9	-1,110.5	862.7	1,194.2	0.00	0.00	0.00
8,400.0	90.12	179.81	7,756.7	-1,210.5	863.0	1,293.7	0.00	0.00	0.00
8,500.0	90.12	179.81	7,756.5	-1,310.5	863.3	1,393.2	0.00	0.00	0.00
8,600.0	90.12	179.81	7,756.3	-1,410.5	863.7	1,492.7	0.00	0.00	0.00
8,700.0	90.12	179.81	7,756.1	-1,510.5	864.0	1,592.2	0.00	0.00	0.00
8,800.0	90.12	179.81	7,755.9	-1,610.5	864.3	1,691.7	0.00	0.00	0.00
8,900.0	90.12	179.81	7,755.7	-1,710.5	864.7	1,791.2	0.00	0.00	0.00
9,000.0	90.12	179.81	7,755.5	-1,810.5	865.0	1,890.7	0.00	0.00	0.00
9,100.0	90.12	179.81	7,755.2	-1,910.5	865.3	1,990.2	0.00	0.00	0.00
9,200.0	90.12	179.81	7,755.0	-2,010.5	865.7	2,089.6	0.00	0.00	0.00
9,300.0	90.12	179.81	7,754.8	-2,110.5	866.0	2,189.1	0.00	0.00	0.00
9,400.0	90.12	179.81	7,754.6	-2,210.5	866.3	2,288.6	0.00	0.00	0.00
9,500.0	90.12	179.81	7,754.4	-2,310.5	866.7	2,388.1	0.00	0.00	0.00
9,600.0	90.12	179.81	7,754.2	-2,410.5	867.0	2,487.6	0.00	0.00	0.00
9,700.0	90.12	179.81	7,754.0	-2,510.5	867.4	2,587.1	0.00	0.00	0.00
9,800.0	90.12	179.81	7,753.8	-2,610.5	867.7	2,686.6	0.00	0.00	0.00
9,900.0	90.12	179.81	7,753.6	-2,710.5	868.0	2,786.1	0.00	0.00	0.00
10,000.0	90.12	179.81	7,753.4	-2,810.5	868.4	2,885.6	0.00	0.00	0.00

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Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey M-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-5-14)		

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)
10,100.0	90.12	179.81	7,753.2	-2,910.5	868.7	2,985.1	0.00	0.00	0.00
10,200.0	90.12	179.81	7,753.0	-3,010.5	869.0	3,084.6	0.00	0.00	0.00
10,300.0	90.12	179.81	7,752.8	-3,110.5	869.4	3,184.0	0.00	0.00	0.00
10,400.0	90.12	179.81	7,752.6	-3,210.5	869.7	3,283.5	0.00	0.00	0.00
10,500.0	90.12	179.81	7,752.4	-3,310.5	870.0	3,383.0	0.00	0.00	0.00
10,600.0	90.12	179.81	7,752.2	-3,410.5	870.4	3,482.5	0.00	0.00	0.00
10,700.0	90.12	179.81	7,752.0	-3,510.5	870.7	3,582.0	0.00	0.00	0.00
10,800.0	90.12	179.81	7,751.8	-3,610.5	871.0	3,681.5	0.00	0.00	0.00
10,900.0	90.12	179.81	7,751.6	-3,710.5	871.4	3,781.0	0.00	0.00	0.00
11,000.0	90.12	179.81	7,751.4	-3,810.5	871.7	3,880.5	0.00	0.00	0.00
11,100.0	90.12	179.81	7,751.2	-3,910.5	872.0	3,980.0	0.00	0.00	0.00
11,200.0	90.12	179.81	7,751.0	-4,010.5	872.4	4,079.5	0.00	0.00	0.00
11,300.0	90.12	179.81	7,750.8	-4,110.5	872.7	4,179.0	0.00	0.00	0.00
11,400.0	90.12	179.81	7,750.6	-4,210.5	873.0	4,278.4	0.00	0.00	0.00
11,500.0	90.12	179.81	7,750.4	-4,310.5	873.4	4,377.9	0.00	0.00	0.00
11,600.0	90.12	179.81	7,750.2	-4,410.5	873.7	4,477.4	0.00	0.00	0.00
11,700.0	90.12	179.81	7,750.0	-4,510.5	874.1	4,576.9	0.00	0.00	0.00
11,800.0	90.12	179.81	7,749.8	-4,610.5	874.4	4,676.4	0.00	0.00	0.00
11,900.0	90.12	179.81	7,749.6	-4,710.5	874.7	4,775.9	0.00	0.00	0.00
12,000.0	90.12	179.81	7,749.4	-4,810.5	875.1	4,875.4	0.00	0.00	0.00
12,100.0	90.12	179.81	7,749.2	-4,910.5	875.4	4,974.9	0.00	0.00	0.00
12,200.0	90.12	179.81	7,749.0	-5,010.5	875.7	5,074.4	0.00	0.00	0.00
12,300.0	90.12	179.81	7,748.8	-5,110.5	876.1	5,173.9	0.00	0.00	0.00
12,400.0	90.12	179.81	7,748.6	-5,210.5	876.4	5,273.4	0.00	0.00	0.00
12,500.0	90.12	179.81	7,748.4	-5,310.5	876.7	5,372.9	0.00	0.00	0.00
12,600.0	90.12	179.81	7,748.2	-5,410.5	877.1	5,472.3	0.00	0.00	0.00
12,700.0	90.12	179.81	7,748.0	-5,510.4	877.4	5,571.8	0.00	0.00	0.00
12,800.0	90.12	179.81	7,747.8	-5,610.4	877.7	5,671.3	0.00	0.00	0.00
12,900.0	90.12	179.81	7,747.6	-5,710.4	878.1	5,770.8	0.00	0.00	0.00
13,000.0	90.12	179.81	7,747.4	-5,810.4	878.4	5,870.3	0.00	0.00	0.00
13,100.0	90.12	179.81	7,747.2	-5,910.4	878.7	5,969.8	0.00	0.00	0.00
13,200.0	90.12	179.81	7,747.0	-6,010.4	879.1	6,069.3	0.00	0.00	0.00
13,300.0	90.12	179.81	7,746.8	-6,110.4	879.4	6,168.8	0.00	0.00	0.00
13,400.0	90.12	179.81	7,746.6	-6,210.4	879.8	6,268.3	0.00	0.00	0.00
13,500.0	90.12	179.81	7,746.4	-6,310.4	880.1	6,367.8	0.00	0.00	0.00
13,600.0	90.12	179.81	7,746.2	-6,410.4	880.4	6,467.3	0.00	0.00	0.00
13,700.0	90.12	179.81	7,746.0	-6,510.4	880.8	6,566.7	0.00	0.00	0.00
13,800.0	90.12	179.81	7,745.8	-6,610.4	881.1	6,666.2	0.00	0.00	0.00
13,900.0	90.12	179.81	7,745.6	-6,710.4	881.4	6,765.7	0.00	0.00	0.00
14,000.0	90.12	179.81	7,745.4	-6,810.4	881.8	6,865.2	0.00	0.00	0.00
14,100.0	90.12	179.81	7,745.2	-6,910.4	882.1	6,964.7	0.00	0.00	0.00
14,200.0	90.12	179.81	7,745.0	-7,010.4	882.4	7,064.2	0.00	0.00	0.00
14,300.0	90.12	179.81	7,744.8	-7,110.4	882.8	7,163.7	0.00	0.00	0.00
14,400.0	90.12	179.81	7,744.6	-7,210.4	883.1	7,263.2	0.00	0.00	0.00
14,500.0	90.12	179.81	7,744.4	-7,310.4	883.4	7,362.7	0.00	0.00	0.00
14,600.0	90.12	179.81	7,744.2	-7,410.4	883.8	7,462.2	0.00	0.00	0.00
14,700.0	90.12	179.81	7,744.0	-7,510.4	884.1	7,561.7	0.00	0.00	0.00
14,800.0	90.12	179.81	7,743.8	-7,610.4	884.4	7,661.2	0.00	0.00	0.00
14,900.0	90.12	179.81	7,743.6	-7,710.4	884.8	7,760.6	0.00	0.00	0.00
15,000.0	90.12	179.81	7,743.4	-7,810.4	885.1	7,860.1	0.00	0.00	0.00
15,100.0	90.12	179.81	7,743.2	-7,910.4	885.4	7,959.6	0.00	0.00	0.00
15,200.0	90.12	179.81	7,742.9	-8,010.4	885.8	8,059.1	0.00	0.00	0.00
15,300.0	90.12	179.81	7,742.7	-8,110.4	886.1	8,158.6	0.00	0.00	0.00
15,400.0	90.12	179.81	7,742.5	-8,210.4	886.5	8,258.1	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey M-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 M-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-5-14)		

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)	
15,500.0	90.12	179.81	7,742.3	-8,310.4	886.8	8,357.6	0.00	0.00	0.00	
15,600.0	90.12	179.81	7,742.1	-8,410.4	887.1	8,457.1	0.00	0.00	0.00	
15,670.8	90.12	179.81	7,742.0	-8,481.2	887.4	8,527.5	0.00	0.00	0.00	
TD at 15670.8										

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										
BHL 2603'FNL, 1180'I	0.00	0.00	7,742.0	-8,481.3	887.4	1,225,205.78	3,150,399.75	39.950323	-104.963540	
- plan hits target center										
- Point										
SHL 575'FSL, 2041'FI	0.00	0.00	1.0	0.0	0.0	1,233,681.27	3,149,461.43	39.973605	-104.966705	
- plan hits target center										
- Point										
LANDING PT. 465'FN	0.00	0.00	7,757.0	-1,042.2	862.4	1,232,644.31	3,150,330.09	39.970744	-104.963628	
- plan hits target center										
- Point										

Casing Points									
Measured Depth (ft)	Vertical Depth (ft)	Name				Casing Diameter (")	Hole Diameter (")		
8,231.7	7,757.0	7"				7	7-1/2		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,000.0	1,000.0	0.0	0.0	KOP - Start Build 2.00	
7,144.8	7,086.1	-325.9	771.9	Start DLS 8.00 TFO 67.10	
15,670.8	7,742.0	-8,481.2	887.4	TD at 15670.8	

Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey M-14-23HN

Wellbore #1

Plan #2 (11-5-14)

Anticollision Report

07 November, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (11-5-14)		
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 11/5/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	15,670.5	Plan #2 (11-5-14) (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 10-14 (P&A) - Wellbore #1 - Wellbore #1						Out of range
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	2,806.9	2,757.0	134.3	71.8	2.148	CC
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	3,000.0	2,948.2	137.0	70.1	2.048	ES
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	3,100.0	3,047.2	140.5	71.4	2.032	SF
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	4,903.8	4,835.0	242.5	131.2	2.179	CC
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	5,200.0	5,128.2	246.1	128.0	2.084	ES
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	5,500.0	5,425.2	256.7	132.0	2.059	SF
North York Land Assoc 1-14 (Exist.) - Wellbore #1 - Well	12,405.3	7,735.1	796.5	540.7	3.114	CC, ES, SF
Wright 1 (Exist.) - Wellbore #1 - Wellbore #1	8,422.5	7,735.1	529.7	345.5	2.876	CC, ES, SF
Ivey Pad Sec.11-T1S-R68W						
Ivey K-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	1,034.8	1,034.8	30.0	25.6	6.781	CC
Ivey K-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	1,100.0	1,100.0	30.0	25.3	6.384	ES
Ivey K-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	15,670.8	15,716.7	666.4	343.6	2.064	SF
Ivey L-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	1,036.1	1,036.1	14.9	10.5	3.374	CC
Ivey L-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	1,100.0	1,100.0	15.0	10.3	3.193	ES
Ivey L-14-23HN - Wellbore #1 - Plan #2 (11-4-14)	15,670.8	15,729.8	342.1	25.4	1.080	Level 2, SF
Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)	800.0	800.0	15.0	11.7	4.462	CC
Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)	900.0	899.9	15.2	11.4	4.004	ES
Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)	15,670.8	15,918.8	297.0	93.9	1.463	Level 3, SF
Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	600.0	600.0	30.1	27.6	12.168	CC
Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	15,670.8	15,713.4	330.0	3.5	1.011	Level 2, ES, SF
Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	400.0	400.0	45.0	43.4	28.612	CC
Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	500.0	499.8	45.3	43.3	22.559	ES
Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	15,670.8	15,858.6	666.1	342.7	2.060	SF
Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	200.0	200.0	60.1	59.4	89.064	CC
Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	300.0	299.6	60.4	59.3	54.334	ES
Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	15,670.8	15,837.1	989.9	662.9	3.027	SF
North Washington Pad SEC.23-T1S-R68W						
North Washington 1-23 (Exist.) - Wellbore #1 North Was	13,955.5	8,093.0	447.2	279.1	2.660	CC, ES, SF
North Washington 2-23 (Exist.) - North Washington 2-23	13,828.8	8,076.9	772.3	644.5	6.041	CC, ES
North Washington 2-23 (Exist.) - North Washington 2-23	13,900.0	8,065.5	775.5	646.4	6.008	SF
North Washington 8-23 (Exist.) - Wellbore #1 N Washing	15,053.0	7,958.4	519.5	346.5	3.004	CC, ES
North Washington 8-23 (Exist.) - Wellbore #1 N Washing	15,100.0	7,958.2	521.6	347.8	3.001	SF

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	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		
0.0	0.0	0.0	0.0	0.0	0.0	82.20	35.7	260.7	265.3						
100.0	100.0	65.5	65.5	0.1	1.3	82.20	35.7	260.7	263.1	261.7	1.42	184.935			
200.0	200.0	165.5	165.5	0.3	3.3	82.20	35.7	260.7	263.1	259.4	3.65	72.131			
300.0	300.0	265.5	265.5	0.6	5.3	82.20	35.7	260.7	263.1	257.2	5.87	44.803			
400.0	400.0	365.5	365.5	0.8	7.3	82.20	35.7	260.7	263.1	255.0	8.10	32.492			
500.0	500.0	465.5	465.5	1.0	9.3	82.20	35.7	260.7	263.1	252.8	10.32	25.489			
600.0	600.0	565.5	565.5	1.2	11.3	82.20	35.7	260.7	263.1	250.5	12.55	20.969			
700.0	700.0	665.5	665.5	1.5	13.3	82.20	35.7	260.7	263.1	248.3	14.77	17.811			
800.0	800.0	765.5	765.5	1.7	15.3	82.20	35.7	260.7	263.1	246.1	17.00	15.479			
900.0	900.0	865.5	865.5	1.9	17.3	82.20	35.7	260.7	263.1	243.9	19.22	13.688			
1,000.0	1,000.0	965.5	965.5	2.1	19.3	82.20	35.7	260.7	263.1	241.6	21.45	12.268			
1,100.0	1,100.0	1,065.5	1,065.5	2.3	21.3	-30.90	35.7	260.7	261.6	237.9	23.64	11.065			
1,200.0	1,199.8	1,165.3	1,165.3	2.5	23.3	-31.55	35.7	260.7	257.1	231.3	25.79	9.967			
1,300.0	1,299.5	1,265.0	1,265.0	2.7	25.3	-32.67	35.7	260.7	249.7	221.8	27.93	8.942			
1,400.0	1,398.7	1,364.2	1,364.2	3.0	27.3	-34.36	35.7	260.7	239.5	209.5	30.04	7.974			
1,500.0	1,497.7	1,463.2	1,463.2	3.2	29.3	-36.36	35.7	260.7	228.0	195.8	32.24	7.072			
1,600.0	1,596.7	1,562.2	1,562.2	3.5	31.2	-38.56	35.7	260.7	216.8	182.3	34.46	6.290			
1,700.0	1,695.7	1,661.2	1,661.2	3.8	33.2	-40.99	35.7	260.7	205.9	169.2	36.70	5.610			
1,800.0	1,794.7	1,760.2	1,760.2	4.1	35.2	-43.69	35.7	260.7	195.4	156.4	38.96	5.016			
1,900.0	1,893.7	1,859.2	1,859.2	4.4	37.2	-46.69	35.7	260.7	185.4	144.2	41.24	4.496			
2,000.0	1,992.7	1,958.2	1,958.2	4.7	39.2	-50.01	35.7	260.7	176.0	132.5	43.54	4.042			
2,100.0	2,091.7	2,057.2	2,057.2	5.0	41.1	-53.69	35.7	260.7	167.2	121.4	45.86	3.647			
2,200.0	2,190.7	2,156.2	2,156.2	5.4	43.1	-57.75	35.7	260.7	159.2	111.0	48.19	3.304			
2,300.0	2,289.7	2,255.2	2,255.2	5.7	45.1	-62.21	35.7	260.7	152.1	101.6	50.55	3.009			
2,400.0	2,388.7	2,354.2	2,354.2	6.0	47.1	-67.07	35.7	260.7	146.0	93.1	52.92	2.759			
2,500.0	2,487.7	2,453.2	2,453.2	6.4	49.1	-72.31	35.7	260.7	141.1	85.8	55.30	2.551			
2,600.0	2,586.7	2,552.2	2,552.2	6.7	51.0	-77.86	35.7	260.7	137.4	79.7	57.67	2.383			
2,700.0	2,685.7	2,651.2	2,651.2	7.0	53.0	-83.66	35.7	260.7	135.1	75.1	60.03	2.251			
2,800.0	2,784.7	2,750.2	2,750.2	7.4	55.0	-89.59	35.7	260.7	134.3	71.9	62.36	2.153			
2,806.9	2,791.5	2,757.0	2,757.0	7.4	55.1	-90.00	35.7	260.7	134.3	71.8	62.52	2.148 CC			
2,900.0	2,883.7	2,849.2	2,849.2	7.7	57.0	-95.53	35.7	260.7	134.9	70.3	64.66	2.087			
3,000.0	2,982.7	2,948.2	2,948.2	8.0	59.0	-101.35	35.7	260.7	137.0	70.1	66.91	2.048 ES			
3,100.0	3,081.7	3,047.2	3,047.2	8.4	60.9	-106.94	35.7	260.7	140.5	71.4	69.13	2.032 SF			
3,200.0	3,180.7	3,146.2	3,146.2	8.7	62.9	-112.23	35.7	260.7	145.3	74.0	71.30	2.037			
3,300.0	3,279.7	3,245.2	3,245.2	9.1	64.9	-117.14	35.7	260.7	151.2	77.8	73.45	2.059			
3,400.0	3,378.7	3,344.2	3,344.2	9.4	66.9	-121.65	35.7	260.7	158.2	82.6	75.58	2.093			
3,500.0	3,477.7	3,443.2	3,443.2	9.7	68.9	-125.77	35.7	260.7	166.1	88.4	77.70	2.137			
3,600.0	3,576.7	3,542.2	3,542.2	10.1	70.8	-129.50	35.7	260.7	174.7	94.9	79.81	2.190			
3,700.0	3,675.7	3,641.2	3,641.2	10.4	72.8	-132.87	35.7	260.7	184.1	102.2	81.92	2.247			
3,800.0	3,774.7	3,740.2	3,740.2	10.8	74.8	-135.91	35.7	260.7	194.0	110.0	84.02	2.309			
3,900.0	3,873.7	3,839.2	3,839.2	11.1	76.8	-138.65	35.7	260.7	204.4	118.3	86.14	2.373			
4,000.0	3,972.7	3,938.2	3,938.2	11.5	78.8	-141.12	35.7	260.7	215.2	127.0	88.25	2.439			
4,100.0	4,071.7	4,037.2	4,037.2	11.8	80.7	-143.35	35.7	260.7	226.4	136.1	90.38	2.505			
4,200.0	4,170.7	4,136.2	4,136.2	12.2	82.7	-145.37	35.7	260.7	237.9	145.4	92.50	2.572			
4,300.0	4,269.7	4,235.2	4,235.2	12.5	84.7	-147.21	35.7	260.7	249.7	155.1	94.64	2.638			
4,400.0	4,368.7	4,334.2	4,334.2	12.9	86.7	-148.87	35.7	260.7	261.7	164.9	96.78	2.704			
4,500.0	4,467.7	4,433.2	4,433.2	13.2	88.7	-150.39	35.7	260.7	273.9	175.0	98.92	2.769			
4,600.0	4,566.7	4,532.2	4,532.2	13.6	90.6	-151.79	35.7	260.7	286.3	185.2	101.07	2.832			
4,700.0	4,665.7	4,631.2	4,631.2	13.9	92.6	-153.06	35.7	260.7	298.8	195.6	103.22	2.895			
4,800.0	4,764.7	4,730.2	4,730.2	14.3	94.6	-154.23	35.7	260.7	311.4	206.1	105.38	2.955			
4,900.0	4,863.7	4,829.2	4,829.2	14.6	96.6	-155.32	35.7	260.7	324.2	216.7	107.54	3.015			
5,000.0	4,962.7	4,928.2	4,928.2	15.0	98.6	-156.32	35.7	260.7	337.1	227.4	109.71	3.073			

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 M-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 M-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 (11-5-14)	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
5,100.0	5,061.7	5,027.2	5,027.2	15.3	100.5	-157.24	35.7	260.7	350.1	238.2	111.87	3.129	
5,200.0	5,160.7	5,126.2	5,126.2	15.6	102.5	-158.10	35.7	260.7	363.1	249.1	114.04	3.184	
5,300.0	5,259.7	5,225.2	5,225.2	16.0	104.5	-158.90	35.7	260.7	376.3	260.1	116.22	3.238	
5,400.0	5,358.7	5,324.2	5,324.2	16.3	106.5	-159.65	35.7	260.7	389.5	271.1	118.39	3.290	
5,500.0	5,457.7	5,423.2	5,423.2	16.7	108.5	-160.34	35.7	260.7	402.7	282.2	120.57	3.340	
5,600.0	5,556.7	5,522.2	5,522.2	17.0	110.4	-160.99	35.7	260.7	416.1	293.3	122.75	3.390	
5,700.0	5,655.7	5,621.2	5,621.2	17.4	112.4	-161.61	35.7	260.7	429.4	304.5	124.93	3.437	
5,800.0	5,754.7	5,720.2	5,720.2	17.7	114.4	-162.18	35.7	260.7	442.9	315.7	127.11	3.484	
5,900.0	5,853.8	5,819.3	5,819.3	18.1	116.4	-162.72	35.7	260.7	456.3	327.0	129.30	3.529	
6,000.0	5,952.8	5,918.3	5,918.3	18.4	118.4	-163.23	35.7	260.7	469.8	338.3	131.48	3.573	
6,100.0	6,051.8	6,017.3	6,017.3	18.8	120.3	-163.72	35.7	260.7	483.3	349.7	133.67	3.616	
6,200.0	6,150.8	6,116.3	6,116.3	19.1	122.3	-164.17	35.7	260.7	496.9	361.0	135.86	3.657	
6,300.0	6,249.8	6,215.3	6,215.3	19.5	124.3	-164.60	35.7	260.7	510.5	372.4	138.05	3.698	
6,400.0	6,348.8	6,314.3	6,314.3	19.8	126.3	-165.01	35.7	260.7	524.1	383.9	140.24	3.737	
6,500.0	6,447.8	6,413.3	6,413.3	20.2	128.3	-165.40	35.7	260.7	537.7	395.3	142.43	3.775	
6,600.0	6,546.8	6,512.3	6,512.3	20.5	130.2	-165.77	35.7	260.7	551.4	406.8	144.62	3.813	
6,700.0	6,645.8	6,611.3	6,611.3	20.9	132.2	-166.12	35.7	260.7	565.1	418.3	146.81	3.849	
6,800.0	6,744.8	6,710.3	6,710.3	21.2	134.2	-166.45	35.7	260.7	578.8	429.8	149.00	3.884	
6,900.0	6,843.8	6,809.3	6,809.3	21.6	136.2	-166.77	35.7	260.7	592.5	441.3	151.20	3.919	
7,000.0	6,942.8	6,908.3	6,908.3	21.9	138.2	-167.08	35.7	260.7	606.3	452.9	153.39	3.952	
7,100.0	7,041.8	7,007.3	7,007.3	22.3	140.1	-167.37	35.7	260.7	620.0	464.4	155.59	3.985	
7,200.0	7,140.6	7,106.1	7,106.1	22.6	142.1	-169.61	35.7	260.7	635.0	478.3	156.72	4.052	
7,300.0	7,237.6	7,203.1	7,203.1	23.0	144.1	-150.12	35.7	260.7	657.0	500.8	156.24	4.205	
7,400.0	7,331.0	7,296.5	7,296.5	23.5	145.9	-141.86	35.7	260.7	687.0	532.2	154.85	4.437	
7,500.0	7,418.8	7,384.3	7,384.3	24.1	147.7	-137.42	35.7	260.7	725.1	572.4	152.72	4.748	
7,600.0	7,499.4	7,464.9	7,464.9	24.7	149.3	-134.33	35.7	260.7	771.7	621.3	150.32	5.134	
7,700.0	7,571.1	7,536.6	7,536.6	25.4	150.7	-131.44	35.7	260.7	826.7	678.1	148.57	5.564	
7,800.0	7,632.7	7,598.2	7,598.2	26.2	152.0	-127.95	35.7	260.7	890.0	741.1	148.90	5.977	
7,900.0	7,682.9	7,648.4	7,648.4	27.1	153.0	-123.15	35.7	260.7	960.9	808.1	152.86	6.286	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	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 (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	87.97	20.4	575.1	576.4					
100.0	100.0	67.5	67.5	0.1	1.4	87.97	20.4	575.1	575.5	574.0	1.46	393.468		
200.0	200.0	167.5	167.5	0.3	3.4	87.97	20.4	575.1	575.5	571.8	3.69	156.068		
300.0	300.0	267.5	267.5	0.6	5.4	87.97	20.4	575.1	575.5	569.6	5.91	97.339		
400.0	400.0	367.5	367.5	0.8	7.4	87.97	20.4	575.1	575.5	567.3	8.14	70.725		
500.0	500.0	467.5	467.5	1.0	9.4	87.97	20.4	575.1	575.5	565.1	10.36	55.539		
600.0	600.0	567.5	567.5	1.2	11.4	87.97	20.4	575.1	575.5	562.9	12.59	45.722		
700.0	700.0	667.5	667.5	1.5	13.4	87.97	20.4	575.1	575.5	560.7	14.81	38.854		
800.0	800.0	767.5	767.5	1.7	15.4	87.97	20.4	575.1	575.5	558.4	17.04	33.780		
900.0	900.0	867.5	867.5	1.9	17.4	87.97	20.4	575.1	575.5	556.2	19.26	29.878		
1,000.0	1,000.0	967.5	967.5	2.1	19.4	87.97	20.4	575.1	575.5	554.0	21.49	26.785		
1,100.0	1,100.0	1,067.5	1,067.5	2.3	21.3	-25.01	20.4	575.1	573.9	550.2	23.68	24.237		
1,200.0	1,199.8	1,167.3	1,167.3	2.5	23.3	-25.27	20.4	575.1	569.2	543.3	25.83	22.036		
1,300.0	1,299.5	1,267.0	1,267.0	2.7	25.3	-25.72	20.4	575.1	561.3	533.3	27.95	20.082		
1,400.0	1,398.7	1,366.2	1,366.2	3.0	27.3	-26.37	20.4	575.1	550.3	520.3	30.04	18.322		
1,500.0	1,497.7	1,465.2	1,465.2	3.2	29.3	-27.04	20.4	575.1	537.7	505.5	32.22	16.690		
1,600.0	1,596.7	1,564.2	1,564.2	3.5	31.3	-27.74	20.4	575.1	525.2	490.7	34.42	15.259		
1,700.0	1,695.7	1,663.2	1,663.2	3.8	33.3	-28.47	20.4	575.1	512.7	476.1	36.62	14.000		
1,800.0	1,794.7	1,762.2	1,762.2	4.1	35.2	-29.24	20.4	575.1	500.3	461.5	38.84	12.883		
1,900.0	1,893.7	1,861.2	1,861.2	4.4	37.2	-30.04	20.4	575.1	488.0	447.0	41.06	11.886		
2,000.0	1,992.7	1,960.2	1,960.2	4.7	39.2	-30.89	20.4	575.1	475.8	432.6	43.29	10.993		
2,100.0	2,091.7	2,059.2	2,059.2	5.0	41.2	-31.78	20.4	575.1	463.8	418.3	45.52	10.188		
2,200.0	2,190.7	2,158.2	2,158.2	5.4	43.2	-32.72	20.4	575.1	451.8	404.0	47.77	9.459		
2,300.0	2,289.7	2,257.2	2,257.2	5.7	45.1	-33.71	20.4	575.1	440.0	390.0	50.02	8.797		
2,400.0	2,388.7	2,356.2	2,356.2	6.0	47.1	-34.76	20.4	575.1	428.3	376.0	52.27	8.193		
2,500.0	2,487.7	2,455.2	2,455.2	6.4	49.1	-35.86	20.4	575.1	416.7	362.2	54.54	7.641		
2,600.0	2,586.7	2,554.2	2,554.2	6.7	51.1	-37.02	20.4	575.1	405.4	348.6	56.81	7.135		
2,700.0	2,685.7	2,653.2	2,653.2	7.0	53.1	-38.25	20.4	575.1	394.2	335.1	59.10	6.670		
2,800.0	2,784.7	2,752.2	2,752.2	7.4	55.0	-39.55	20.4	575.1	383.1	321.8	61.39	6.242		
2,900.0	2,883.7	2,851.2	2,851.2	7.7	57.0	-40.93	20.4	575.1	372.3	308.6	63.69	5.846		
3,000.0	2,982.7	2,950.2	2,950.2	8.0	59.0	-42.38	20.4	575.1	361.7	295.8	66.00	5.481		
3,100.0	3,081.7	3,049.2	3,049.2	8.4	61.0	-43.93	20.4	575.1	351.4	283.1	68.31	5.144		
3,200.0	3,180.7	3,148.2	3,148.2	8.7	63.0	-45.56	20.4	575.1	341.3	270.7	70.65	4.832		
3,300.0	3,279.7	3,247.2	3,247.2	9.1	64.9	-47.29	20.4	575.1	331.6	258.6	72.99	4.543		
3,400.0	3,378.7	3,346.2	3,346.2	9.4	66.9	-49.12	20.4	575.1	322.1	246.8	75.34	4.276		
3,500.0	3,477.7	3,445.2	3,445.2	9.7	68.9	-51.06	20.4	575.1	313.0	235.3	77.70	4.029		
3,600.0	3,576.7	3,544.2	3,544.2	10.1	70.9	-53.11	20.4	575.1	304.3	224.2	80.08	3.800		
3,700.0	3,675.7	3,643.2	3,643.2	10.4	72.9	-55.28	20.4	575.1	296.0	213.5	82.47	3.589		
3,800.0	3,774.7	3,742.2	3,742.2	10.8	74.8	-57.57	20.4	575.1	288.2	203.3	84.86	3.396		
3,900.0	3,873.7	3,841.2	3,841.2	11.1	76.8	-59.98	20.4	575.1	280.8	193.5	87.27	3.218		
4,000.0	3,972.7	3,940.2	3,940.2	11.5	78.8	-62.52	20.4	575.1	274.0	184.3	89.68	3.055		
4,100.0	4,071.7	4,039.2	4,039.2	11.8	80.8	-65.17	20.4	575.1	267.7	175.6	92.10	2.906		
4,200.0	4,170.7	4,138.2	4,138.2	12.2	82.8	-67.95	20.4	575.1	262.0	167.5	94.52	2.772		
4,300.0	4,269.7	4,237.2	4,237.2	12.5	84.7	-70.84	20.4	575.1	257.0	160.1	96.94	2.651		
4,400.0	4,368.7	4,336.2	4,336.2	12.9	86.7	-73.83	20.4	575.1	252.7	153.3	99.36	2.543		
4,500.0	4,467.7	4,435.2	4,435.2	13.2	88.7	-76.92	20.4	575.1	249.1	147.3	101.76	2.448		
4,600.0	4,566.7	4,534.2	4,534.2	13.6	90.7	-80.08	20.4	575.1	246.3	142.1	104.16	2.364		
4,700.0	4,665.7	4,633.2	4,633.2	13.9	92.7	-83.31	20.4	575.1	244.2	137.7	106.54	2.292		
4,800.0	4,764.7	4,732.2	4,732.2	14.3	94.6	-86.58	20.4	575.1	243.0	134.1	108.89	2.231		
4,900.0	4,863.7	4,831.2	4,831.2	14.6	96.6	-89.87	20.4	575.1	242.5	131.3	111.22	2.180		
4,903.8	4,867.5	4,835.0	4,835.0	14.6	96.7	-90.00	20.4	575.1	242.5	131.2	111.31	2.179 CC		
5,000.0	4,962.7	4,930.2	4,930.2	15.0	98.6	-93.17	20.4	575.1	242.9	129.4	113.53	2.139		

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 M-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 M-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 (11-5-14)	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 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		
5,100.0	5,061.7	5,029.2	5,029.2	15.3	100.6	-96.44	20.4	575.1	244.1	128.3	115.81	2.108	ES	
5,200.0	5,160.7	5,128.2	5,128.2	15.6	102.6	-99.67	20.4	575.1	246.1	128.0	118.05	2.084		
5,300.0	5,259.7	5,227.2	5,227.2	16.0	104.5	-102.85	20.4	575.1	248.9	128.6	120.27	2.069		
5,400.0	5,358.7	5,326.2	5,326.2	16.3	106.5	-105.94	20.4	575.1	252.4	129.9	122.47	2.061	SF	
5,500.0	5,457.7	5,425.2	5,425.2	16.7	108.5	-108.94	20.4	575.1	256.7	132.0	124.63	2.059		
5,600.0	5,556.7	5,524.2	5,524.2	17.0	110.5	-111.84	20.4	575.1	261.6	134.8	126.78	2.064		
5,700.0	5,655.7	5,623.2	5,623.2	17.4	112.5	-114.62	20.4	575.1	267.2	138.3	128.91	2.073		
5,800.0	5,754.7	5,722.2	5,722.2	17.7	114.4	-117.29	20.4	575.1	273.5	142.4	131.02	2.087		
5,900.0	5,853.8	5,821.3	5,821.3	18.1	116.4	-119.83	20.4	575.1	280.2	147.1	133.12	2.105		
6,000.0	5,952.8	5,920.3	5,920.3	18.4	118.4	-122.25	20.4	575.1	287.6	152.4	135.21	2.127		
6,100.0	6,051.8	6,019.3	6,019.3	18.8	120.4	-124.55	20.4	575.1	295.4	158.1	137.29	2.152		
6,200.0	6,150.8	6,118.3	6,118.3	19.1	122.4	-126.72	20.4	575.1	303.7	164.3	139.37	2.179		
6,300.0	6,249.8	6,217.3	6,217.3	19.5	124.3	-128.79	20.4	575.1	312.3	170.9	141.44	2.208		
6,400.0	6,348.8	6,316.3	6,316.3	19.8	126.3	-130.73	20.4	575.1	321.4	177.9	143.52	2.240		
6,500.0	6,447.8	6,415.3	6,415.3	20.2	128.3	-132.57	20.4	575.1	330.8	185.3	145.59	2.272		
6,600.0	6,546.8	6,514.3	6,514.3	20.5	130.3	-134.31	20.4	575.1	340.6	192.9	147.67	2.306		
6,700.0	6,645.8	6,613.3	6,613.3	20.9	132.3	-135.95	20.4	575.1	350.6	200.9	149.75	2.341		
6,800.0	6,744.8	6,712.3	6,712.3	21.2	134.2	-137.50	20.4	575.1	361.0	209.1	151.83	2.377		
6,900.0	6,843.8	6,811.3	6,811.3	21.6	136.2	-138.96	20.4	575.1	371.5	217.6	153.92	2.414		
7,000.0	6,942.8	6,910.3	6,910.3	21.9	138.2	-140.35	20.4	575.1	382.3	226.3	156.01	2.450		
7,100.0	7,041.8	7,009.3	7,009.3	22.3	140.2	-141.65	20.4	575.1	393.3	235.2	158.11	2.488		
7,200.0	7,140.6	7,108.1	7,108.1	22.6	142.2	-165.38	20.4	575.1	406.3	247.6	158.74	2.560		
7,300.0	7,237.6	7,205.1	7,205.1	23.0	144.1	174.69	20.4	575.1	430.1	273.7	156.34	2.751		
7,400.0	7,331.0	7,298.5	7,298.5	23.5	146.0	166.06	20.4	575.1	465.2	313.6	151.66	3.068		
7,500.0	7,418.8	7,386.3	7,386.3	24.1	147.7	161.32	20.4	575.1	511.3	366.5	144.86	3.530		
7,600.0	7,499.4	7,466.9	7,466.9	24.7	149.3	158.02	20.4	575.1	568.0	431.6	136.40	4.164		
7,700.0	7,571.1	7,538.6	7,538.6	25.4	150.8	154.99	20.4	575.1	634.3	507.0	127.33	4.982		
7,800.0	7,632.7	7,600.2	7,600.2	26.2	152.0	151.35	20.4	575.1	709.5	589.7	119.82	5.922		
7,900.0	7,682.9	7,650.4	7,650.4	27.1	153.0	146.10	20.4	575.1	792.3	674.4	117.89	6.720		
8,000.0	7,720.6	7,688.1	7,688.1	28.1	153.8	137.62	20.4	575.1	881.1	753.6	127.45	6.913		
8,100.0	7,745.3	7,712.8	7,712.8	29.2	154.3	122.98	20.4	575.1	974.3	822.0	152.33	6.396		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design												Existing Pad Sec.11-T1S-R68W - North York Land Assoc 1-14 (Exist.) - Wellbore #1 - Wellbore #1	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	
11,900.0	7,749.6	7,736.1	7,736.1	92.9	154.7	90.07	-5,218.4	79.9	943.3	697.0	246.31	3.830		
12,000.0	7,749.4	7,735.9	7,735.9	94.7	154.7	90.06	-5,218.4	79.9	893.7	645.5	248.19	3.601		
12,100.0	7,749.2	7,735.7	7,735.7	96.6	154.7	90.04	-5,218.4	79.9	853.0	603.0	250.06	3.411		
12,200.0	7,749.0	7,735.5	7,735.5	98.4	154.7	90.03	-5,218.4	79.9	822.6	570.6	251.94	3.265		
12,300.0	7,748.8	7,735.3	7,735.3	100.3	154.7	90.02	-5,218.4	79.9	803.5	549.6	253.82	3.165		
12,400.0	7,748.6	7,735.1	7,735.1	102.1	154.7	90.00	-5,218.4	79.9	796.5	540.8	255.70	3.115		
12,405.3	7,748.6	7,735.1	7,735.1	102.2	154.7	90.00	-5,218.4	79.9	796.5	540.7	255.80	3.114 CC, ES, SF		
12,500.0	7,748.4	7,734.9	7,734.9	104.0	154.7	89.99	-5,218.4	79.9	802.1	544.6	257.58	3.114		
12,600.0	7,748.2	7,734.7	7,734.7	105.9	154.7	89.97	-5,218.4	79.9	820.0	560.5	259.46	3.160		
12,700.0	7,748.0	7,734.5	7,734.5	107.7	154.7	89.96	-5,218.4	79.9	849.3	588.0	261.34	3.250		
12,800.0	7,747.8	7,734.3	7,734.3	109.6	154.7	89.94	-5,218.4	79.9	889.0	625.7	263.22	3.377		
12,900.0	7,747.6	7,734.1	7,734.1	111.5	154.7	89.93	-5,218.4	79.9	937.7	672.6	265.11	3.537		
13,000.0	7,747.4	7,733.9	7,733.9	113.4	154.7	89.91	-5,218.4	79.9	994.1	727.1	266.99	3.723		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Wright 1 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 8105-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	
7,500.0	7,418.8	7,397.3	7,397.3	24.1	147.9	-27.39	-1,231.2	1,392.7	986.7	839.5	147.27	6.700	
7,600.0	7,499.4	7,477.9	7,477.9	24.7	149.6	-35.04	-1,231.2	1,392.7	933.6	790.0	143.63	6.500	
7,700.0	7,571.1	7,549.6	7,549.6	25.4	151.0	-43.70	-1,231.2	1,392.7	873.7	729.5	144.22	6.058	
7,800.0	7,632.7	7,611.2	7,611.2	26.2	152.2	-53.70	-1,231.2	1,392.7	809.2	658.2	151.01	5.359	
7,900.0	7,682.9	7,661.4	7,661.4	27.1	153.2	-64.56	-1,231.2	1,392.7	743.1	581.0	162.11	4.584	
8,000.0	7,720.6	7,699.1	7,699.1	28.1	154.0	-74.99	-1,231.2	1,392.7	678.9	506.5	172.45	3.937	
8,100.0	7,745.3	7,723.8	7,723.8	29.2	154.5	-83.46	-1,231.2	1,392.7	621.1	442.5	178.60	3.478	
8,200.0	7,756.4	7,734.9	7,734.9	30.4	154.7	-88.98	-1,231.2	1,392.7	574.6	393.5	181.08	3.173	
8,300.0	7,756.9	7,735.4	7,735.4	31.5	154.7	-90.03	-1,231.2	1,392.7	543.7	361.3	182.33	2.982	
8,400.0	7,756.7	7,735.2	7,735.2	32.8	154.7	-90.00	-1,231.2	1,392.7	530.1	346.3	183.80	2.884	
8,422.5	7,756.6	7,735.1	7,735.1	33.1	154.7	-90.00	-1,231.2	1,392.7	529.7	345.5	184.14	2.876 CC, ES, SF	
8,500.0	7,756.5	7,735.0	7,735.0	34.2	154.7	-89.98	-1,231.2	1,392.7	535.3	350.0	185.32	2.889	
8,600.0	7,756.3	7,734.8	7,734.8	35.6	154.7	-89.96	-1,231.2	1,392.7	558.6	371.7	186.87	2.989	
8,700.0	7,756.1	7,734.6	7,734.6	37.0	154.7	-89.94	-1,231.2	1,392.7	597.9	409.5	188.47	3.173	
8,800.0	7,755.9	7,734.4	7,734.4	38.5	154.7	-89.92	-1,231.2	1,392.7	650.4	460.3	190.09	3.422	
8,900.0	7,755.7	7,734.2	7,734.2	40.1	154.7	-89.90	-1,231.2	1,392.7	713.1	521.4	191.75	3.719	
9,000.0	7,755.5	7,734.0	7,734.0	41.6	154.7	-89.87	-1,231.2	1,392.7	783.6	590.2	193.42	4.051	
9,100.0	7,755.2	7,733.7	7,733.7	43.2	154.7	-89.85	-1,231.2	1,392.7	859.9	664.8	195.12	4.407	
9,200.0	7,755.0	7,733.5	7,733.5	44.8	154.7	-89.83	-1,231.2	1,392.7	940.7	743.9	196.84	4.779	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	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: 0.0ft
Survey Program: 0-MWD													Offset Well Error: 0.0ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-157.46	-27.7	-11.5	30.0				
100.0	100.0	100.0	100.0	0.1	0.1	-157.46	-27.7	-11.5	30.0	29.8	0.22	133.364	
200.0	200.0	200.0	200.0	0.3	0.3	-157.46	-27.7	-11.5	30.0	29.3	0.67	44.455	
300.0	300.0	300.0	300.0	0.6	0.6	-157.46	-27.7	-11.5	30.0	28.9	1.12	26.673	
400.0	400.0	400.0	400.0	0.8	0.8	-157.46	-27.7	-11.5	30.0	28.4	1.57	19.052	
500.0	500.0	500.0	500.0	1.0	1.0	-157.46	-27.7	-11.5	30.0	28.0	2.02	14.818	
600.0	600.0	600.0	600.0	1.2	1.2	-157.46	-27.7	-11.5	30.0	27.5	2.47	12.124	
700.0	700.0	700.0	700.0	1.5	1.5	-157.46	-27.7	-11.5	30.0	27.1	2.92	10.259	
800.0	800.0	800.0	800.0	1.7	1.7	-157.46	-27.7	-11.5	30.0	26.6	3.37	8.891	
900.0	900.0	900.0	900.0	1.9	1.9	-157.46	-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	-157.46	-27.7	-11.5	30.0	25.7	4.27	7.019	
1,034.8	1,034.8	1,034.8	1,034.8	2.2	2.2	90.05	-27.7	-11.5	30.0	25.6	4.42	6.781 CC	
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.4	92.98	-27.7	-11.5	30.0	25.3	4.70	6.384 ES	
1,200.0	1,199.8	1,199.8	1,199.8	2.5	2.6	102.74	-27.7	-11.5	30.7	25.6	5.12	6.002	
1,300.0	1,299.5	1,299.5	1,299.5	2.7	2.8	117.23	-27.7	-11.5	33.8	28.2	5.55	6.083	
1,400.0	1,398.7	1,398.7	1,398.7	3.0	3.0	132.46	-27.7	-11.5	40.8	34.8	5.98	6.828	
1,500.0	1,497.7	1,497.7	1,497.7	3.2	3.3	144.08	-27.7	-11.5	51.4	45.0	6.41	8.027	
1,600.0	1,596.7	1,596.7	1,596.7	3.5	3.5	151.55	-27.7	-11.5	63.4	56.6	6.84	9.271	
1,700.0	1,695.7	1,695.7	1,695.7	3.8	3.7	156.61	-27.7	-11.5	76.1	68.9	7.28	10.462	
1,800.0	1,794.7	1,794.7	1,794.7	4.1	3.9	160.20	-27.7	-11.5	89.3	81.6	7.72	11.568	
1,900.0	1,893.7	1,893.7	1,893.7	4.4	4.1	162.86	-27.7	-11.5	102.7	94.5	8.16	12.580	
2,000.0	1,992.7	1,992.7	1,992.7	4.7	4.4	164.91	-27.7	-11.5	116.2	107.6	8.61	13.504	
2,100.0	2,091.7	2,094.7	2,094.7	5.0	4.6	166.08	-29.0	-10.6	128.8	119.8	9.04	14.256	
2,200.0	2,190.7	2,197.6	2,197.4	5.4	4.8	165.98	-33.2	-7.5	139.0	129.5	9.45	14.702	
2,300.0	2,289.7	2,300.8	2,300.3	5.7	4.9	164.85	-40.5	-2.3	146.6	136.7	9.88	14.832	
2,400.0	2,388.7	2,404.0	2,402.7	6.0	5.2	162.80	-50.8	5.0	151.9	141.6	10.34	14.688	
2,500.0	2,487.7	2,503.7	2,501.4	6.4	5.4	160.50	-62.1	13.1	156.3	145.5	10.82	14.449	
2,600.0	2,586.7	2,603.4	2,600.2	6.7	5.6	158.33	-73.4	21.1	161.0	149.7	11.32	14.226	
2,700.0	2,685.7	2,703.2	2,698.9	7.0	5.8	156.28	-84.7	29.2	165.9	154.1	11.84	14.016	
2,800.0	2,784.7	2,802.9	2,797.7	7.4	6.1	154.35	-96.0	37.2	171.0	158.6	12.37	13.821	
2,900.0	2,883.7	2,902.6	2,896.4	7.7	6.4	152.53	-107.2	45.3	176.2	163.3	12.92	13.637	
3,000.0	2,982.7	3,002.3	2,995.1	8.0	6.6	150.83	-118.5	53.3	181.7	168.2	13.49	13.466	
3,100.0	3,081.7	3,102.0	3,093.9	8.4	6.9	149.22	-129.8	61.4	187.3	173.2	14.07	13.307	
3,200.0	3,180.7	3,201.7	3,192.6	8.7	7.2	147.70	-141.1	69.4	193.0	178.3	14.67	13.158	
3,300.0	3,279.7	3,301.4	3,291.4	9.1	7.5	146.28	-152.4	77.5	198.8	183.6	15.27	13.020	
3,400.0	3,378.7	3,401.1	3,390.1	9.4	7.8	144.93	-163.6	85.5	204.8	188.9	15.89	12.891	
3,500.0	3,477.7	3,500.8	3,488.8	9.7	8.1	143.66	-174.9	93.6	210.9	194.4	16.51	12.772	
3,600.0	3,576.7	3,600.5	3,587.6	10.1	8.4	142.47	-186.2	101.7	217.1	199.9	17.14	12.662	
3,700.0	3,675.7	3,700.2	3,686.3	10.4	8.7	141.34	-197.5	109.7	223.3	205.5	17.78	12.559	
3,800.0	3,774.7	3,800.0	3,785.1	10.8	9.0	140.27	-208.8	117.8	229.7	211.2	18.43	12.464	
3,900.0	3,873.7	3,899.7	3,883.8	11.1	9.3	139.26	-220.0	125.8	236.1	217.0	19.08	12.376	
4,000.0	3,972.7	3,999.4	3,982.6	11.5	9.6	138.30	-231.3	133.9	242.6	222.8	19.73	12.294	
4,100.0	4,071.7	4,099.1	4,081.3	11.8	9.9	137.39	-242.6	141.9	249.1	228.7	20.39	12.218	
4,200.0	4,170.7	4,198.8	4,180.0	12.2	10.3	136.53	-253.9	150.0	255.7	234.7	21.05	12.148	
4,300.0	4,269.7	4,298.5	4,278.8	12.5	10.6	135.72	-265.2	158.0	262.4	240.7	21.72	12.082	
4,400.0	4,368.7	4,398.2	4,377.5	12.9	10.9	134.94	-276.4	166.1	269.1	246.7	22.39	12.022	
4,500.0	4,467.7	4,497.9	4,476.3	13.2	11.2	134.20	-287.7	174.1	275.9	252.8	23.06	11.965	
4,600.0	4,566.7	4,597.6	4,575.0	13.6	11.6	133.50	-299.0	182.2	282.7	259.0	23.73	11.912	
4,700.0	4,665.7	4,695.9	4,672.4	13.9	11.9	133.01	-309.4	189.6	289.7	265.4	24.36	11.893	
4,800.0	4,764.7	4,793.6	4,769.6	14.3	12.1	133.16	-317.1	195.1	297.4	272.5	24.89	11.949	
4,900.0	4,863.7	4,891.0	4,866.8	14.6	12.3	133.91	-322.2	198.7	305.8	280.5	25.35	12.064	
5,000.0	4,962.7	4,987.9	4,963.7	15.0	12.5	135.20	-324.5	200.4	315.1	289.4	25.75	12.240	

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 M-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 M-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 (11-5-14)	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
5,100.0	5,061.7	5,085.9	5,061.7	15.3	12.7	136.88	-324.7	200.5	325.3	299.2	26.09	12.466	
5,200.0	5,160.7	5,184.9	5,160.7	15.6	12.8	138.52	-324.7	200.5	335.7	309.3	26.43	12.702	
5,300.0	5,259.7	5,283.9	5,259.7	16.0	13.0	140.06	-324.7	200.5	346.5	319.7	26.77	12.940	
5,400.0	5,358.7	5,382.9	5,358.7	16.3	13.2	141.50	-324.7	200.5	357.4	330.3	27.12	13.179	
5,500.0	5,457.7	5,481.9	5,457.7	16.7	13.4	142.86	-324.7	200.5	368.6	341.1	27.47	13.419	
5,600.0	5,556.7	5,580.9	5,556.7	17.0	13.5	144.14	-324.7	200.5	380.0	352.2	27.82	13.658	
5,700.0	5,655.7	5,679.9	5,655.7	17.4	13.7	145.35	-324.7	200.5	391.5	363.4	28.18	13.896	
5,800.0	5,754.7	5,778.9	5,754.7	17.7	13.9	146.48	-324.7	200.5	403.3	374.7	28.54	14.131	
5,900.0	5,853.8	5,877.9	5,853.8	18.1	14.1	147.55	-324.7	200.5	415.1	386.2	28.90	14.364	
6,000.0	5,952.8	5,976.9	5,952.8	18.4	14.3	148.57	-324.7	200.5	427.1	397.8	29.27	14.594	
6,100.0	6,051.8	6,075.9	6,051.8	18.8	14.4	149.52	-324.7	200.5	439.2	409.6	29.64	14.820	
6,200.0	6,150.8	6,174.9	6,150.8	19.1	14.6	150.43	-324.7	200.5	451.5	421.5	30.01	15.043	
6,300.0	6,249.8	6,273.9	6,249.8	19.5	14.8	151.29	-324.7	200.5	463.8	433.4	30.39	15.262	
6,400.0	6,348.8	6,372.9	6,348.8	19.8	15.0	152.10	-324.7	200.5	476.3	445.5	30.77	15.477	
6,500.0	6,447.8	6,471.9	6,447.8	20.2	15.2	152.87	-324.7	200.5	488.8	457.6	31.16	15.688	
6,600.0	6,546.8	6,570.9	6,546.8	20.5	15.4	153.60	-324.7	200.5	501.4	469.9	31.55	15.895	
6,700.0	6,645.8	6,669.9	6,645.8	20.9	15.6	154.30	-324.7	200.5	514.1	482.2	31.94	16.097	
6,800.0	6,744.8	6,768.9	6,744.8	21.2	15.8	154.97	-324.7	200.5	526.9	494.5	32.33	16.295	
6,900.0	6,843.8	6,867.9	6,843.8	21.6	16.0	155.60	-324.7	200.5	539.7	507.0	32.73	16.490	
7,000.0	6,942.8	6,966.9	6,942.8	21.9	16.1	156.20	-324.7	200.5	552.6	519.5	33.13	16.679	
7,100.0	7,041.8	7,065.9	7,041.8	22.3	16.3	156.78	-324.7	200.5	565.5	532.0	33.53	16.865	
7,200.0	7,140.6	7,164.9	7,140.7	22.6	16.5	134.64	-324.7	200.5	578.5	544.6	33.98	17.026	
7,300.0	7,237.6	7,265.3	7,240.7	23.0	16.8	115.99	-332.8	200.5	591.6	557.0	34.54	17.127	
7,400.0	7,331.0	7,367.6	7,340.4	23.5	17.1	108.24	-355.3	200.6	604.3	569.0	35.28	17.128	
7,500.0	7,418.8	7,471.8	7,437.6	24.1	17.5	104.26	-392.6	200.7	616.6	580.3	36.24	17.013	
7,600.0	7,499.4	7,578.0	7,530.0	24.7	18.1	101.92	-444.8	200.9	628.0	590.6	37.45	16.770	
7,700.0	7,571.1	7,686.2	7,615.1	25.4	18.8	100.43	-511.4	201.1	638.4	599.5	38.94	16.393	
7,800.0	7,632.7	7,796.2	7,690.3	26.2	19.7	99.44	-591.5	201.3	647.4	606.7	40.75	15.887	
7,900.0	7,682.9	7,907.9	7,753.2	27.1	20.8	98.77	-683.7	201.6	654.9	612.0	42.89	15.269	
8,000.0	7,720.6	8,020.9	7,801.5	28.1	22.0	98.32	-785.7	201.9	660.5	615.2	45.34	14.568	
8,100.0	7,745.3	8,134.8	7,833.3	29.2	23.5	98.03	-895.0	202.2	664.2	616.2	48.06	13.821	
8,200.0	7,756.4	8,249.3	7,847.3	30.4	25.0	97.87	-1,008.5	202.5	665.9	614.9	50.99	13.061	
8,300.0	7,756.9	8,353.7	7,847.8	31.5	26.5	97.85	-1,112.8	202.9	666.0	612.2	53.80	12.380	
8,400.0	7,756.7	8,453.7	7,847.6	32.8	28.0	97.85	-1,212.8	203.2	666.0	609.3	56.75	11.736	
8,500.0	7,756.5	8,553.7	7,847.4	34.2	29.5	97.85	-1,312.8	203.5	666.0	606.2	59.80	11.137	
8,600.0	7,756.3	8,653.7	7,847.2	35.6	31.1	97.85	-1,412.8	203.9	666.0	603.1	62.93	10.583	
8,700.0	7,756.1	8,753.7	7,847.0	37.0	32.7	97.85	-1,512.8	204.2	666.0	599.9	66.14	10.071	
8,800.0	7,755.9	8,853.7	7,846.8	38.5	34.4	97.85	-1,612.8	204.5	666.0	596.6	69.40	9.597	
8,900.0	7,755.7	8,953.7	7,846.6	40.1	36.1	97.84	-1,712.8	204.9	666.1	593.3	72.72	9.160	
9,000.0	7,755.5	9,053.7	7,846.3	41.6	37.8	97.84	-1,812.8	205.2	666.1	590.0	76.08	8.755	
9,100.0	7,755.2	9,153.7	7,846.1	43.2	39.5	97.84	-1,912.8	205.5	666.1	586.6	79.48	8.380	
9,200.0	7,755.0	9,253.7	7,845.9	44.8	41.2	97.84	-2,012.8	205.8	666.1	583.2	82.91	8.033	
9,300.0	7,754.8	9,353.7	7,845.7	46.5	43.0	97.84	-2,112.8	206.2	666.1	579.7	86.38	7.711	
9,400.0	7,754.6	9,453.7	7,845.5	48.1	44.7	97.84	-2,212.8	206.5	666.1	576.2	89.87	7.411	
9,500.0	7,754.4	9,553.7	7,845.3	49.8	46.5	97.84	-2,312.8	206.8	666.1	572.7	93.39	7.132	
9,600.0	7,754.2	9,653.7	7,845.0	51.5	48.3	97.84	-2,412.8	207.2	666.1	569.2	96.93	6.872	
9,700.0	7,754.0	9,753.7	7,844.8	53.2	50.1	97.83	-2,512.8	207.5	666.1	565.6	100.49	6.628	
9,800.0	7,753.8	9,853.7	7,844.6	54.9	51.9	97.83	-2,612.8	207.8	666.1	562.0	104.07	6.401	
9,900.0	7,753.6	9,953.7	7,844.4	56.7	53.7	97.83	-2,712.8	208.1	666.1	558.4	107.66	6.187	
10,000.0	7,753.4	10,053.7	7,844.2	58.4	55.5	97.83	-2,812.8	208.5	666.1	554.8	111.26	5.987	
10,100.0	7,753.2	10,153.7	7,844.0	60.2	57.3	97.83	-2,912.8	208.8	666.1	551.2	114.88	5.798	
10,200.0	7,753.0	10,253.7	7,843.8	61.9	59.2	97.83	-3,012.8	209.1	666.1	547.6	118.51	5.621	

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 M-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 M-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 (11-5-14)	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:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
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	10,353.7	7,843.5	63.7	61.0	97.83	-3,112.8	209.5	666.1	544.0	122.15	5.453	
10,400.0	7,752.6	10,453.7	7,843.3	65.5	62.8	97.83	-3,212.8	209.8	666.1	540.3	125.80	5.295	
10,500.0	7,752.4	10,553.7	7,843.1	67.3	64.7	97.82	-3,312.8	210.1	666.1	536.7	129.46	5.146	
10,600.0	7,752.2	10,653.7	7,842.9	69.1	66.5	97.82	-3,412.8	210.4	666.1	533.0	133.12	5.004	
10,700.0	7,752.0	10,753.7	7,842.7	70.9	68.4	97.82	-3,512.8	210.8	666.1	529.3	136.80	4.869	
10,800.0	7,751.8	10,853.7	7,842.5	72.7	70.3	97.82	-3,612.8	211.1	666.1	525.7	140.48	4.742	
10,900.0	7,751.6	10,953.7	7,842.2	74.5	72.1	97.82	-3,712.8	211.4	666.1	522.0	144.16	4.621	
11,000.0	7,751.4	11,053.7	7,842.0	76.3	74.0	97.82	-3,812.8	211.8	666.1	518.3	147.86	4.505	
11,100.0	7,751.2	11,153.7	7,841.8	78.1	75.8	97.82	-3,912.8	212.1	666.1	514.6	151.56	4.395	
11,200.0	7,751.0	11,253.7	7,841.6	80.0	77.7	97.82	-4,012.8	212.4	666.2	510.9	155.26	4.291	
11,300.0	7,750.8	11,353.7	7,841.4	81.8	79.6	97.81	-4,112.8	212.7	666.2	507.2	158.97	4.191	
11,400.0	7,750.6	11,453.7	7,841.2	83.6	81.4	97.81	-4,212.8	213.1	666.2	503.5	162.68	4.095	
11,500.0	7,750.4	11,553.7	7,841.0	85.5	83.3	97.81	-4,312.8	213.4	666.2	499.8	166.40	4.003	
11,600.0	7,750.2	11,653.7	7,840.7	87.3	85.2	97.81	-4,412.8	213.7	666.2	496.1	170.12	3.916	
11,700.0	7,750.0	11,753.7	7,840.5	89.2	87.1	97.81	-4,512.8	214.1	666.2	492.3	173.84	3.832	
11,800.0	7,749.8	11,853.7	7,840.3	91.0	89.0	97.81	-4,612.8	214.4	666.2	488.6	177.57	3.752	
11,900.0	7,749.6	11,953.7	7,840.1	92.9	90.8	97.81	-4,712.8	214.7	666.2	484.9	181.30	3.675	
12,000.0	7,749.4	12,053.7	7,839.9	94.7	92.7	97.81	-4,812.8	215.1	666.2	481.2	185.03	3.600	
12,100.0	7,749.2	12,153.7	7,839.7	96.6	94.6	97.80	-4,912.8	215.4	666.2	477.4	188.77	3.529	
12,200.0	7,749.0	12,253.7	7,839.5	98.4	96.5	97.80	-5,012.8	215.7	666.2	473.7	192.51	3.461	
12,300.0	7,748.8	12,353.7	7,839.2	100.3	98.4	97.80	-5,112.8	216.0	666.2	470.0	196.25	3.395	
12,400.0	7,748.6	12,453.7	7,839.0	102.1	100.3	97.80	-5,212.8	216.4	666.2	466.2	199.99	3.331	
12,500.0	7,748.4	12,553.7	7,838.8	104.0	102.1	97.80	-5,312.8	216.7	666.2	462.5	203.74	3.270	
12,600.0	7,748.2	12,653.7	7,838.6	105.9	104.0	97.80	-5,412.8	217.0	666.2	458.7	207.48	3.211	
12,700.0	7,748.0	12,753.7	7,838.4	107.7	105.9	97.80	-5,512.8	217.4	666.2	455.0	211.23	3.154	
12,800.0	7,747.8	12,853.7	7,838.2	109.6	107.8	97.80	-5,612.8	217.7	666.2	451.2	214.99	3.099	
12,900.0	7,747.6	12,953.7	7,837.9	111.5	109.7	97.79	-5,712.8	218.0	666.2	447.5	218.74	3.046	
13,000.0	7,747.4	13,053.7	7,837.7	113.4	111.6	97.79	-5,812.8	218.3	666.2	443.7	222.49	2.994	
13,100.0	7,747.2	13,153.7	7,837.5	115.2	113.5	97.79	-5,912.8	218.7	666.2	440.0	226.25	2.945	
13,200.0	7,747.0	13,253.7	7,837.3	117.1	115.4	97.79	-6,012.8	219.0	666.2	436.2	230.01	2.897	
13,300.0	7,746.8	13,353.7	7,837.1	119.0	117.3	97.79	-6,112.8	219.3	666.2	432.5	233.77	2.850	
13,400.0	7,746.6	13,453.7	7,836.9	120.9	119.2	97.79	-6,212.8	219.7	666.2	428.7	237.53	2.805	
13,500.0	7,746.4	13,553.7	7,836.7	122.7	121.1	97.79	-6,312.8	220.0	666.2	425.0	241.29	2.761	
13,600.0	7,746.2	13,653.7	7,836.4	124.6	123.0	97.79	-6,412.8	220.3	666.3	421.2	245.06	2.719	
13,700.0	7,746.0	13,753.7	7,836.2	126.5	124.9	97.79	-6,512.8	220.6	666.3	417.4	248.82	2.678	
13,800.0	7,745.8	13,853.7	7,836.0	128.4	126.8	97.78	-6,612.8	221.0	666.3	413.7	252.59	2.638	
13,900.0	7,745.6	13,953.7	7,835.8	130.3	128.7	97.78	-6,712.8	221.3	666.3	409.9	256.35	2.599	
14,000.0	7,745.4	14,053.7	7,835.6	132.2	130.6	97.78	-6,812.8	221.6	666.3	406.1	260.12	2.561	
14,100.0	7,745.2	14,153.7	7,835.4	134.0	132.5	97.78	-6,912.8	222.0	666.3	402.4	263.89	2.525	
14,200.0	7,745.0	14,253.7	7,835.1	135.9	134.4	97.78	-7,012.8	222.3	666.3	398.6	267.66	2.489	
14,300.0	7,744.8	14,353.7	7,834.9	137.8	136.3	97.78	-7,112.8	222.6	666.3	394.9	271.43	2.455	
14,400.0	7,744.6	14,453.7	7,834.7	139.7	138.2	97.78	-7,212.8	222.9	666.3	391.1	275.21	2.421	
14,500.0	7,744.4	14,553.7	7,834.5	141.6	140.1	97.78	-7,312.8	223.3	666.3	387.3	278.98	2.388	
14,600.0	7,744.2	14,653.7	7,834.3	143.5	142.0	97.77	-7,412.8	223.6	666.3	383.5	282.75	2.356	
14,700.0	7,744.0	14,753.7	7,834.1	145.4	143.9	97.77	-7,512.8	223.9	666.3	379.8	286.53	2.325	
14,800.0	7,743.8	14,853.7	7,833.9	147.3	145.8	97.77	-7,612.8	224.3	666.3	376.0	290.30	2.295	
14,900.0	7,743.6	14,953.7	7,833.6	149.1	147.7	97.77	-7,712.8	224.6	666.3	372.2	294.08	2.266	
15,000.0	7,743.4	15,053.7	7,833.4	151.0	149.6	97.77	-7,812.8	224.9	666.3	368.5	297.85	2.237	
15,100.0	7,743.2	15,153.7	7,833.2	152.9	151.5	97.77	-7,912.8	225.2	666.3	364.7	301.63	2.209	
15,200.0	7,742.9	15,253.7	7,833.0	154.8	153.4	97.77	-8,012.8	225.6	666.3	360.9	305.41	2.182	
15,300.0	7,742.7	15,353.7	7,832.8	156.7	155.3	97.77	-8,112.8	225.9	666.3	357.1	309.19	2.155	
15,400.0	7,742.5	15,453.7	7,832.6	158.6	157.2	97.76	-8,212.8	226.2	666.3	353.4	312.97	2.129	

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 M-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 M-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 (11-5-14)	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
15,500.0	7,742.3	15,553.7	7,832.4	160.5	159.1	97.76	-8,312.8	226.6	666.3	349.6	316.75	2.104	
15,600.0	7,742.1	15,653.7	7,832.1	162.4	161.0	97.76	-8,412.8	226.9	666.3	345.8	320.53	2.079	
15,638.6	7,742.1	15,692.2	7,832.1	163.0	161.7	97.76	-8,451.4	227.0	666.3	344.5	321.85	2.070	
15,670.8	7,742.0	15,716.7	7,832.0	163.5	162.2	97.76	-8,475.8	227.1	666.4	343.6	322.80	2.064 SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey L-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	-157.96	-13.8	-5.6	14.9	14.9	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	-157.96	-13.8	-5.6	14.9	14.7	0.22	66.446		
200.0	200.0	200.0	200.0	0.3	0.3	-157.96	-13.8	-5.6	14.9	14.3	0.67	22.149		
300.0	300.0	300.0	300.0	0.6	0.6	-157.96	-13.8	-5.6	14.9	13.8	1.12	13.289		
400.0	400.0	400.0	400.0	0.8	0.8	-157.96	-13.8	-5.6	14.9	13.4	1.57	9.492		
500.0	500.0	500.0	500.0	1.0	1.0	-157.96	-13.8	-5.6	14.9	12.9	2.02	7.383		
600.0	600.0	600.0	600.0	1.2	1.2	-157.96	-13.8	-5.6	14.9	12.5	2.47	6.041		
700.0	700.0	700.0	700.0	1.5	1.5	-157.96	-13.8	-5.6	14.9	12.0	2.92	5.111		
800.0	800.0	800.0	800.0	1.7	1.7	-157.96	-13.8	-5.6	14.9	11.6	3.37	4.430		
900.0	900.0	900.0	900.0	1.9	1.9	-157.96	-13.8	-5.6	14.9	11.1	3.82	3.909		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-157.96	-13.8	-5.6	14.9	10.7	4.27	3.497		
1,036.1	1,036.1	1,036.1	1,036.1	2.2	2.2	90.03	-13.8	-5.6	14.9	10.5	4.43	3.374 CC		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.4	95.82	-13.8	-5.6	15.0	10.3	4.70	3.193 ES		
1,200.0	1,199.8	1,199.8	1,199.8	2.5	2.6	114.30	-13.8	-5.6	16.4	11.3	5.12	3.202		
1,300.0	1,299.5	1,299.9	1,299.9	2.7	2.8	132.15	-14.7	-4.1	20.5	14.9	5.52	3.707		
1,400.0	1,398.7	1,400.2	1,400.0	3.0	3.0	142.64	-17.3	0.4	26.1	20.2	5.90	4.420		
1,500.0	1,497.7	1,500.8	1,500.2	3.2	3.2	147.18	-21.7	8.0	31.2	24.9	6.31	4.940		
1,600.0	1,596.7	1,600.9	1,599.7	3.5	3.4	147.99	-27.3	17.7	34.5	27.8	6.75	5.113		
1,700.0	1,695.7	1,700.8	1,699.0	3.8	3.6	148.59	-33.0	27.4	37.8	30.6	7.20	5.245		
1,800.0	1,794.7	1,800.8	1,798.3	4.1	3.9	149.08	-38.6	37.2	41.1	33.4	7.67	5.354		
1,900.0	1,893.7	1,900.7	1,897.7	4.4	4.1	149.51	-44.2	46.9	44.3	36.2	8.14	5.444		
2,000.0	1,992.7	2,000.7	1,997.0	4.7	4.4	149.88	-49.8	56.6	47.6	39.0	8.62	5.520		
2,100.0	2,091.7	2,100.6	2,096.3	5.0	4.7	150.20	-55.4	66.3	50.9	41.8	9.11	5.584		
2,200.0	2,190.7	2,200.6	2,195.6	5.4	5.0	150.48	-61.1	76.0	54.2	44.6	9.61	5.638		
2,300.0	2,289.7	2,300.5	2,294.9	5.7	5.2	150.72	-66.7	85.7	57.4	47.3	10.10	5.685		
2,400.0	2,388.7	2,400.5	2,394.2	6.0	5.5	150.95	-72.3	95.5	60.7	50.1	10.61	5.725		
2,500.0	2,487.7	2,500.4	2,493.5	6.4	5.8	151.15	-77.9	105.2	64.0	52.9	11.11	5.760		
2,600.0	2,586.7	2,600.4	2,592.8	6.7	6.1	151.33	-83.5	114.9	67.3	55.7	11.62	5.790		
2,700.0	2,685.7	2,700.3	2,692.2	7.0	6.4	151.49	-89.2	124.6	70.6	58.4	12.13	5.817		
2,800.0	2,784.7	2,800.2	2,791.5	7.4	6.7	151.64	-94.8	134.3	73.8	61.2	12.64	5.841		
2,900.0	2,883.7	2,900.2	2,890.8	7.7	7.0	151.77	-100.4	144.1	77.1	64.0	13.16	5.862		
3,000.0	2,982.7	3,000.1	2,990.1	8.0	7.3	151.90	-106.0	153.8	80.4	66.7	13.67	5.881		
3,100.0	3,081.7	3,100.1	3,089.4	8.4	7.6	152.01	-111.6	163.5	83.7	69.5	14.19	5.898		
3,200.0	3,180.7	3,200.0	3,188.7	8.7	7.9	152.12	-117.3	173.2	87.0	72.3	14.71	5.913		
3,300.0	3,279.7	3,300.0	3,288.0	9.1	8.2	152.22	-122.9	182.9	90.3	75.0	15.23	5.926		
3,400.0	3,378.7	3,399.9	3,387.4	9.4	8.5	152.31	-128.5	192.7	93.5	77.8	15.75	5.939		
3,500.0	3,477.7	3,499.9	3,486.7	9.7	8.8	152.39	-134.1	202.4	96.8	80.6	16.27	5.950		
3,600.0	3,576.7	3,599.8	3,586.0	10.1	9.1	152.47	-139.8	212.1	100.1	83.3	16.80	5.960		
3,700.0	3,675.7	3,699.8	3,685.3	10.4	9.4	152.55	-145.4	221.8	103.4	86.1	17.32	5.969		
3,800.0	3,774.7	3,799.7	3,784.6	10.8	9.7	152.62	-151.0	231.5	106.7	88.8	17.85	5.978		
3,900.0	3,873.7	3,899.6	3,883.9	11.1	10.0	152.68	-156.6	241.2	110.0	91.6	18.37	5.986		
4,000.0	3,972.7	3,999.6	3,983.2	11.5	10.3	152.75	-162.2	251.0	113.3	94.4	18.90	5.993		
4,100.0	4,071.7	4,099.5	4,082.5	11.8	10.6	152.81	-167.9	260.7	116.5	97.1	19.42	6.000		
4,200.0	4,170.7	4,199.5	4,181.9	12.2	10.9	152.86	-173.5	270.4	119.8	99.9	19.95	6.006		
4,300.0	4,269.7	4,299.4	4,281.2	12.5	11.2	152.91	-179.1	280.1	123.1	102.6	20.48	6.012		
4,400.0	4,368.7	4,399.4	4,380.5	12.9	11.5	152.96	-184.7	289.8	126.4	105.4	21.01	6.017		
4,500.0	4,467.7	4,499.3	4,479.8	13.2	11.8	153.01	-190.3	299.6	129.7	108.1	21.53	6.022		
4,600.0	4,566.7	4,599.3	4,579.1	13.6	12.1	153.06	-196.0	309.3	133.0	110.9	22.06	6.026		
4,700.0	4,665.7	4,699.2	4,678.4	13.9	12.4	153.10	-201.6	319.0	136.3	113.7	22.59	6.031		
4,800.0	4,764.7	4,799.2	4,777.7	14.3	12.7	153.14	-207.2	328.7	139.5	116.4	23.12	6.035		
4,900.0	4,863.7	4,899.1	4,877.1	14.6	13.0	153.18	-212.8	338.4	142.8	119.2	23.65	6.039		
5,000.0	4,962.7	4,999.1	4,976.4	15.0	13.3	153.21	-218.4	348.2	146.1	121.9	24.18	6.042		

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey L-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
5,100.0	5,061.7	5,099.0	5,075.7	15.3	13.6	153.25	-224.1	357.9	149.4	124.7	24.71	6.045	
5,200.0	5,160.7	5,198.9	5,175.0	15.6	13.9	153.28	-229.7	367.6	152.7	127.4	25.24	6.049	
5,300.0	5,259.7	5,298.9	5,274.3	16.0	14.2	153.32	-235.3	377.3	156.0	130.2	25.77	6.051	
5,400.0	5,358.7	5,398.8	5,373.6	16.3	14.6	153.35	-240.9	387.0	159.3	133.0	26.30	6.054	
5,500.0	5,457.7	5,498.8	5,472.9	16.7	14.9	153.38	-246.5	396.8	162.5	135.7	26.84	6.057	
5,600.0	5,556.7	5,598.7	5,572.2	17.0	15.2	153.41	-252.2	406.5	165.8	138.5	27.37	6.059	
5,700.0	5,655.7	5,698.7	5,671.6	17.4	15.5	153.43	-257.8	416.2	169.1	141.2	27.90	6.062	
5,800.0	5,754.7	5,798.6	5,770.9	17.7	15.8	153.46	-263.4	425.9	172.4	144.0	28.43	6.064	
5,900.0	5,853.8	5,898.6	5,870.2	18.1	16.1	153.49	-269.0	435.6	175.7	146.7	28.96	6.066	
6,000.0	5,952.8	5,998.5	5,969.5	18.4	16.4	153.51	-274.7	445.3	179.0	149.5	29.49	6.068	
6,100.0	6,051.8	6,098.5	6,068.8	18.8	16.7	153.53	-280.3	455.1	182.3	152.2	30.03	6.070	
6,200.0	6,150.8	6,198.4	6,168.1	19.1	17.0	153.56	-285.9	464.8	185.5	155.0	30.56	6.072	
6,300.0	6,249.8	6,298.4	6,267.4	19.5	17.3	153.58	-291.5	474.5	188.8	157.7	31.09	6.074	
6,400.0	6,348.8	6,398.3	6,366.8	19.8	17.6	153.60	-297.1	484.2	192.1	160.5	31.62	6.075	
6,500.0	6,447.8	6,498.2	6,466.1	20.2	18.0	153.62	-302.8	493.9	195.4	163.3	32.16	6.077	
6,600.0	6,546.8	6,598.2	6,565.4	20.5	18.3	153.64	-308.4	503.7	198.7	166.0	32.69	6.078	
6,700.0	6,645.8	6,698.1	6,664.7	20.9	18.6	153.66	-314.0	513.4	202.0	168.8	33.22	6.080	
6,800.0	6,744.8	6,793.2	6,759.3	21.2	18.8	153.68	-318.8	521.6	206.3	172.6	33.69	6.124	
6,900.0	6,843.8	6,887.1	6,853.0	21.6	19.0	154.49	-322.0	527.1	213.3	179.3	34.04	6.268	
7,000.0	6,942.8	6,980.5	6,946.3	21.9	19.2	155.50	-323.6	530.0	223.2	188.9	34.32	6.503	
7,100.0	7,041.8	7,076.0	7,041.8	22.3	19.3	156.81	-323.8	530.4	235.6	201.1	34.57	6.816	
7,200.0	7,140.6	7,174.9	7,140.7	22.6	19.5	135.66	-323.9	530.4	248.7	213.9	34.85	7.137	
7,300.0	7,237.6	7,275.3	7,240.7	23.0	19.7	118.39	-332.2	530.4	262.1	226.9	35.21	7.444	
7,400.0	7,331.0	7,377.5	7,340.3	23.5	20.0	111.83	-354.8	530.5	275.4	239.7	35.76	7.701	
7,500.0	7,418.8	7,481.7	7,437.3	24.1	20.4	108.84	-392.3	530.6	288.4	251.9	36.54	7.892	
7,600.0	7,499.4	7,587.8	7,529.6	24.7	20.9	107.32	-444.5	530.8	300.7	263.1	37.58	8.001	
7,700.0	7,571.1	7,695.8	7,614.6	25.4	21.5	106.51	-511.0	531.0	311.9	273.0	38.93	8.012	
7,800.0	7,632.7	7,805.7	7,689.7	26.2	22.4	106.05	-591.0	531.2	321.7	281.1	40.63	7.918	
7,900.0	7,682.9	7,917.2	7,752.6	27.1	23.3	105.78	-682.9	531.5	329.9	287.2	42.72	7.722	
8,000.0	7,720.6	8,030.0	7,801.0	28.1	24.5	105.62	-784.8	531.8	336.1	290.9	45.20	7.437	
8,100.0	7,745.3	8,143.9	7,832.9	29.2	25.8	105.51	-893.9	532.1	340.2	292.2	48.02	7.086	
8,200.0	7,756.4	8,258.3	7,847.3	30.4	27.3	105.44	-1,007.3	532.4	342.1	291.0	51.12	6.692	
8,300.0	7,756.9	8,362.8	7,847.8	31.5	28.7	105.42	-1,111.8	532.8	342.2	288.3	53.96	6.342	
8,400.0	7,756.7	8,462.8	7,847.6	32.8	30.1	105.42	-1,211.8	533.1	342.2	285.4	56.83	6.022	
8,500.0	7,756.5	8,562.8	7,847.4	34.2	31.5	105.41	-1,311.8	533.4	342.2	282.4	59.80	5.723	
8,600.0	7,756.3	8,662.8	7,847.2	35.6	33.0	105.41	-1,411.8	533.8	342.2	279.4	62.84	5.446	
8,700.0	7,756.1	8,762.8	7,847.0	37.0	34.6	105.41	-1,511.8	534.1	342.2	276.2	65.96	5.188	
8,800.0	7,755.9	8,862.8	7,846.8	38.5	36.2	105.41	-1,611.8	534.4	342.2	273.1	69.13	4.950	
8,900.0	7,755.7	8,962.8	7,846.6	40.1	37.8	105.41	-1,711.8	534.8	342.2	269.8	72.36	4.729	
9,000.0	7,755.5	9,062.8	7,846.3	41.6	39.4	105.40	-1,811.8	535.1	342.2	266.6	75.63	4.525	
9,100.0	7,755.2	9,162.8	7,846.1	43.2	41.1	105.40	-1,911.8	535.4	342.2	263.3	78.94	4.335	
9,200.0	7,755.0	9,262.8	7,845.9	44.8	42.8	105.40	-2,011.8	535.8	342.2	259.9	82.28	4.159	
9,300.0	7,754.8	9,362.8	7,845.7	46.5	44.5	105.40	-2,111.8	536.1	342.2	256.5	85.66	3.995	
9,400.0	7,754.6	9,462.8	7,845.5	48.1	46.2	105.39	-2,211.8	536.4	342.2	253.1	89.06	3.842	
9,500.0	7,754.4	9,562.8	7,845.3	49.8	47.9	105.39	-2,311.8	536.8	342.2	249.7	92.49	3.700	
9,600.0	7,754.2	9,662.8	7,845.1	51.5	49.7	105.39	-2,411.8	537.1	342.2	246.2	95.94	3.567	
9,700.0	7,754.0	9,762.8	7,844.8	53.2	51.4	105.39	-2,511.8	537.4	342.2	242.8	99.40	3.442	
9,800.0	7,753.8	9,862.8	7,844.6	54.9	53.2	105.39	-2,611.8	537.8	342.2	239.3	102.89	3.326	
9,900.0	7,753.6	9,962.8	7,844.4	56.7	55.0	105.38	-2,711.8	538.1	342.2	235.8	106.39	3.216	
10,000.0	7,753.4	10,062.8	7,844.2	58.4	56.8	105.38	-2,811.8	538.4	342.2	232.3	109.91	3.113	
10,100.0	7,753.2	10,162.8	7,844.0	60.2	58.6	105.38	-2,911.8	538.8	342.2	228.7	113.43	3.016	
10,200.0	7,753.0	10,262.8	7,843.8	61.9	60.4	105.38	-3,011.8	539.1	342.2	225.2	116.97	2.925	

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey L-14-23HN - Wellbore #1 - Plan #2 (11-4-14)												Offset Site Error:	0.0ft
Survey Program: 0-MWID												Offset Well Error:	0.0ft
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	10,362.8	7,843.5	63.7	62.2	105.37	-3,111.8	539.5	342.2	221.6	120.52	2.839	
10,400.0	7,752.6	10,462.8	7,843.3	65.5	64.0	105.37	-3,211.8	539.8	342.2	218.1	124.09	2.757	
10,500.0	7,752.4	10,562.8	7,843.1	67.3	65.8	105.37	-3,311.8	540.1	342.2	214.5	127.65	2.680	
10,600.0	7,752.2	10,662.8	7,842.9	69.1	67.7	105.37	-3,411.8	540.5	342.2	210.9	131.23	2.607	
10,700.0	7,752.0	10,762.8	7,842.7	70.9	69.5	105.37	-3,511.8	540.8	342.1	207.3	134.82	2.538	
10,800.0	7,751.8	10,862.8	7,842.5	72.7	71.3	105.36	-3,611.8	541.1	342.1	203.7	138.41	2.472	
10,900.0	7,751.6	10,962.8	7,842.3	74.5	73.2	105.36	-3,711.8	541.5	342.1	200.1	142.01	2.409	
11,000.0	7,751.4	11,062.8	7,842.0	76.3	75.0	105.36	-3,811.8	541.8	342.1	196.5	145.61	2.350	
11,100.0	7,751.2	11,162.8	7,841.8	78.1	76.9	105.36	-3,911.8	542.1	342.1	192.9	149.22	2.293	
11,200.0	7,751.0	11,262.8	7,841.6	80.0	78.7	105.35	-4,011.8	542.5	342.1	189.3	152.84	2.239	
11,300.0	7,750.8	11,362.8	7,841.4	81.8	80.6	105.35	-4,111.8	542.8	342.1	185.7	156.46	2.187	
11,400.0	7,750.6	11,462.8	7,841.2	83.6	82.4	105.35	-4,211.8	543.1	342.1	182.0	160.09	2.137	
11,500.0	7,750.4	11,562.8	7,841.0	85.5	84.3	105.35	-4,311.8	543.5	342.1	178.4	163.72	2.090	
11,600.0	7,750.2	11,662.8	7,840.7	87.3	86.2	105.35	-4,411.8	543.8	342.1	174.8	167.35	2.044	
11,700.0	7,750.0	11,762.8	7,840.5	89.2	88.0	105.34	-4,511.8	544.1	342.1	171.1	170.99	2.001	
11,800.0	7,749.8	11,862.8	7,840.3	91.0	89.9	105.34	-4,611.8	544.5	342.1	167.5	174.63	1.959	
11,900.0	7,749.6	11,962.8	7,840.1	92.9	91.8	105.34	-4,711.8	544.8	342.1	163.9	178.27	1.919	
12,000.0	7,749.4	12,062.8	7,839.9	94.7	93.6	105.34	-4,811.8	545.1	342.1	160.2	181.92	1.881	
12,100.0	7,749.2	12,162.8	7,839.7	96.6	95.5	105.33	-4,911.8	545.5	342.1	156.6	185.57	1.844	
12,200.0	7,749.0	12,262.8	7,839.5	98.4	97.4	105.33	-5,011.7	545.8	342.1	152.9	189.22	1.808	
12,300.0	7,748.8	12,362.8	7,839.2	100.3	99.3	105.33	-5,111.7	546.1	342.1	149.2	192.87	1.774	
12,400.0	7,748.6	12,462.8	7,839.0	102.1	101.1	105.33	-5,211.7	546.5	342.1	145.6	196.53	1.741	
12,500.0	7,748.4	12,562.8	7,838.8	104.0	103.0	105.33	-5,311.7	546.8	342.1	141.9	200.19	1.709	
12,600.0	7,748.2	12,662.8	7,838.6	105.9	104.9	105.32	-5,411.7	547.1	342.1	138.3	203.85	1.678	
12,700.0	7,748.0	12,762.8	7,838.4	107.7	106.8	105.32	-5,511.7	547.5	342.1	134.6	207.52	1.649	
12,800.0	7,747.8	12,862.8	7,838.2	109.6	108.7	105.32	-5,611.7	547.8	342.1	130.9	211.18	1.620	
12,900.0	7,747.6	12,962.8	7,838.0	111.5	110.5	105.32	-5,711.7	548.1	342.1	127.2	214.85	1.592	
13,000.0	7,747.4	13,062.8	7,837.7	113.4	112.4	105.31	-5,811.7	548.5	342.1	123.6	218.52	1.566	
13,100.0	7,747.2	13,162.8	7,837.5	115.2	114.3	105.31	-5,911.7	548.8	342.1	119.9	222.19	1.540	
13,200.0	7,747.0	13,262.8	7,837.3	117.1	116.2	105.31	-6,011.7	549.1	342.1	116.2	225.86	1.515	
13,300.0	7,746.8	13,362.8	7,837.1	119.0	118.1	105.31	-6,111.7	549.5	342.1	112.6	229.54	1.490 Level 3	
13,400.0	7,746.6	13,462.8	7,836.9	120.9	120.0	105.31	-6,211.7	549.8	342.1	108.9	233.21	1.467 Level 3	
13,500.0	7,746.4	13,562.8	7,836.7	122.7	121.9	105.30	-6,311.7	550.1	342.1	105.2	236.89	1.444 Level 3	
13,600.0	7,746.2	13,662.8	7,836.4	124.6	123.8	105.30	-6,411.7	550.5	342.1	101.5	240.57	1.422 Level 3	
13,700.0	7,746.0	13,762.8	7,836.2	126.5	125.6	105.30	-6,511.7	550.8	342.1	97.8	244.25	1.401 Level 3	
13,800.0	7,745.8	13,862.8	7,836.0	128.4	127.5	105.30	-6,611.7	551.1	342.1	94.1	247.93	1.380 Level 3	
13,900.0	7,745.6	13,962.8	7,835.8	130.3	129.4	105.29	-6,711.7	551.5	342.1	90.5	251.61	1.360 Level 3	
14,000.0	7,745.4	14,062.8	7,835.6	132.2	131.3	105.29	-6,811.7	551.8	342.1	86.8	255.30	1.340 Level 3	
14,100.0	7,745.2	14,162.8	7,835.4	134.0	133.2	105.29	-6,911.7	552.1	342.1	83.1	258.98	1.321 Level 3	
14,200.0	7,745.0	14,262.8	7,835.2	135.9	135.1	105.29	-7,011.7	552.5	342.1	79.4	262.67	1.302 Level 3	
14,300.0	7,744.8	14,362.8	7,834.9	137.8	137.0	105.29	-7,111.7	552.8	342.1	75.7	266.35	1.284 Level 3	
14,400.0	7,744.6	14,462.8	7,834.7	139.7	138.9	105.28	-7,211.7	553.1	342.1	72.0	270.04	1.267 Level 3	
14,500.0	7,744.4	14,562.8	7,834.5	141.6	140.8	105.28	-7,311.7	553.5	342.1	68.3	273.73	1.250 Level 2	
14,600.0	7,744.2	14,662.8	7,834.3	143.5	142.7	105.28	-7,411.7	553.8	342.1	64.6	277.42	1.233 Level 2	
14,700.0	7,744.0	14,762.8	7,834.1	145.4	144.6	105.28	-7,511.7	554.1	342.1	60.9	281.11	1.217 Level 2	
14,800.0	7,743.8	14,862.8	7,833.9	147.3	146.5	105.27	-7,611.7	554.5	342.1	57.3	284.80	1.201 Level 2	
14,900.0	7,743.6	14,962.8	7,833.7	149.1	148.4	105.27	-7,711.7	554.8	342.0	53.6	288.49	1.186 Level 2	
15,000.0	7,743.4	15,062.8	7,833.4	151.0	150.3	105.27	-7,811.7	555.1	342.0	49.9	292.18	1.171 Level 2	
15,100.0	7,743.2	15,162.8	7,833.2	152.9	152.2	105.27	-7,911.7	555.5	342.0	46.2	295.88	1.156 Level 2	
15,200.0	7,742.9	15,262.8	7,833.0	154.8	154.1	105.27	-8,011.7	555.8	342.0	42.5	299.57	1.142 Level 2	
15,300.0	7,742.7	15,362.8	7,832.8	156.7	156.0	105.26	-8,111.7	556.1	342.0	38.8	303.27	1.128 Level 2	
15,400.0	7,742.5	15,462.8	7,832.6	158.6	157.9	105.26	-8,211.7	556.5	342.0	35.1	306.96	1.114 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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey L-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	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)		
15,500.0	7,742.3	15,562.8	7,832.4	160.5	159.8	105.26	-8,311.7	556.8	342.0	31.4	310.66	1.101 Level 2	
15,600.0	7,742.1	15,662.8	7,832.1	162.4	161.7	105.26	-8,411.7	557.1	342.0	27.7	314.36	1.088 Level 2	
15,650.9	7,742.0	15,713.7	7,832.0	163.2	162.7	105.26	-8,462.7	557.3	342.0	26.0	316.06	1.082 Level 2	
15,670.8	7,742.0	15,729.8	7,832.0	163.5	163.0	105.25	-8,478.7	557.4	342.1	25.4	316.65	1.080 Level 2, SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)													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	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	66.923		
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	9.560		
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 CC		
800.1	800.1	800.1	800.1	1.7	1.7	23.03	13.8	5.9	15.0	11.7	3.37	4.461		
900.0	900.0	899.9	899.9	1.9	1.9	29.60	13.2	7.5	15.2	11.4	3.80	4.004 ES		
1,000.0	1,000.0	999.6	999.5	2.1	2.1	47.35	11.4	12.4	16.9	12.7	4.22	3.995		
1,100.0	1,100.0	1,099.0	1,098.5	2.3	2.3	-48.53	8.4	20.5	21.0	16.4	4.64	4.536		
1,200.0	1,199.8	1,198.1	1,196.8	2.5	2.5	-38.04	4.3	31.8	26.5	21.4	5.04	5.252		
1,300.0	1,299.5	1,297.6	1,295.1	2.7	2.8	-31.94	-0.9	45.8	32.1	26.6	5.45	5.882		
1,400.0	1,398.7	1,397.5	1,393.9	3.0	3.1	-30.07	-6.3	60.3	35.2	29.3	5.89	5.985		
1,500.0	1,497.7	1,497.5	1,492.7	3.2	3.4	-29.97	-11.7	74.7	36.7	30.4	6.35	5.780		
1,600.0	1,596.7	1,597.5	1,591.5	3.5	3.8	-29.88	-17.0	89.2	38.2	31.4	6.83	5.591		
1,700.0	1,695.7	1,697.5	1,690.3	3.8	4.1	-29.80	-22.4	103.7	39.7	32.4	7.33	5.418		
1,800.0	1,794.7	1,797.5	1,789.1	4.1	4.4	-29.72	-27.7	118.1	41.2	33.4	7.83	5.260		
1,900.0	1,893.7	1,897.4	1,887.9	4.4	4.8	-29.65	-33.1	132.6	42.7	34.3	8.34	5.117		
2,000.0	1,992.7	1,997.4	1,986.6	4.7	5.1	-29.58	-38.4	147.0	44.2	35.3	8.85	4.988		
2,100.0	2,091.7	2,097.4	2,085.4	5.0	5.5	-29.52	-43.8	161.5	45.6	36.3	9.37	4.870		
2,200.0	2,190.7	2,197.4	2,184.2	5.4	5.8	-29.46	-49.1	175.9	47.1	37.2	9.90	4.762		
2,300.0	2,289.7	2,297.4	2,283.0	5.7	6.2	-29.41	-54.5	190.4	48.6	38.2	10.43	4.663		
2,400.0	2,388.7	2,397.4	2,381.8	6.0	6.5	-29.36	-59.8	204.9	50.1	39.2	10.96	4.573		
2,500.0	2,487.7	2,497.4	2,480.6	6.4	6.9	-29.31	-65.2	219.3	51.6	40.1	11.49	4.490		
2,600.0	2,586.7	2,597.4	2,579.4	6.7	7.2	-29.27	-70.5	233.8	53.1	41.1	12.03	4.414		
2,700.0	2,685.7	2,697.4	2,678.2	7.0	7.6	-29.22	-75.9	248.2	54.6	42.0	12.56	4.344		
2,800.0	2,784.7	2,797.3	2,777.0	7.4	8.0	-29.18	-81.2	262.7	56.1	43.0	13.10	4.279		
2,900.0	2,883.7	2,897.3	2,875.8	7.7	8.3	-29.15	-86.6	277.1	57.5	43.9	13.64	4.218		
3,000.0	2,982.7	2,997.3	2,974.6	8.0	8.7	-29.11	-92.0	291.6	59.0	44.9	14.19	4.162		
3,100.0	3,081.7	3,097.3	3,073.4	8.4	9.1	-29.07	-97.3	306.1	60.5	45.8	14.73	4.109		
3,200.0	3,180.7	3,197.3	3,172.2	8.7	9.4	-29.04	-102.7	320.5	62.0	46.7	15.27	4.061		
3,300.0	3,279.7	3,297.3	3,271.0	9.1	9.8	-29.01	-108.0	335.0	63.5	47.7	15.82	4.015		
3,400.0	3,378.7	3,397.3	3,369.8	9.4	10.2	-28.98	-113.4	349.4	65.0	48.6	16.36	3.972		
3,500.0	3,477.7	3,497.3	3,468.5	9.7	10.5	-28.95	-118.7	363.9	66.5	49.6	16.91	3.931		
3,600.0	3,576.7	3,597.3	3,567.3	10.1	10.9	-28.92	-124.1	378.3	68.0	50.5	17.46	3.894		
3,700.0	3,675.7	3,697.2	3,666.1	10.4	11.3	-28.90	-129.4	392.8	69.5	51.5	18.00	3.858		
3,800.0	3,774.7	3,797.2	3,764.9	10.8	11.6	-28.87	-134.8	407.2	70.9	52.4	18.55	3.824		
3,900.0	3,873.7	3,897.2	3,863.7	11.1	12.0	-28.85	-140.1	421.7	72.4	53.3	19.10	3.792		
4,000.0	3,972.7	3,997.2	3,962.5	11.5	12.4	-28.82	-145.5	436.2	73.9	54.3	19.65	3.762		
4,100.0	4,071.7	4,097.2	4,061.3	11.8	12.7	-28.80	-150.8	450.6	75.4	55.2	20.20	3.733		
4,200.0	4,170.7	4,197.2	4,160.1	12.2	13.1	-28.78	-156.2	465.1	76.9	56.1	20.75	3.706		
4,300.0	4,269.7	4,297.2	4,258.9	12.5	13.5	-28.76	-161.5	479.5	78.4	57.1	21.30	3.680		
4,400.0	4,368.7	4,397.2	4,357.7	12.9	13.8	-28.74	-166.9	494.0	79.9	58.0	21.85	3.656		
4,500.0	4,467.7	4,497.2	4,456.5	13.2	14.2	-28.72	-172.3	508.4	81.4	59.0	22.40	3.632		
4,600.0	4,566.7	4,597.1	4,555.3	13.6	14.6	-28.70	-177.6	522.9	82.9	59.9	22.95	3.610		
4,700.0	4,665.7	4,697.1	4,654.1	13.9	14.9	-28.69	-183.0	537.4	84.3	60.8	23.50	3.589		
4,800.0	4,764.7	4,797.1	4,752.9	14.3	15.3	-28.67	-188.3	551.8	85.8	61.8	24.05	3.568		
4,900.0	4,863.7	4,897.1	4,851.7	14.6	15.7	-28.65	-193.7	566.3	87.3	62.7	24.61	3.549		
5,000.0	4,962.7	4,997.1	4,950.4	15.0	16.1	-28.64	-199.0	580.7	88.8	63.6	25.16	3.530		

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)												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
5,100.0	5,061.7	5,097.1	5,049.2	15.3	16.4	-28.62	-204.4	595.2	90.3	64.6	25.71	3.512	
5,200.0	5,160.7	5,197.1	5,148.0	15.6	16.8	-28.61	-209.7	609.6	91.8	65.5	26.26	3.495	
5,300.0	5,259.7	5,297.1	5,246.8	16.0	17.2	-28.59	-215.1	624.1	93.3	66.5	26.81	3.478	
5,400.0	5,358.7	5,397.1	5,345.6	16.3	17.5	-28.58	-220.4	638.6	94.8	67.4	27.37	3.463	
5,500.0	5,457.7	5,497.0	5,444.4	16.7	17.9	-28.56	-225.8	653.0	96.2	68.3	27.92	3.447	
5,600.0	5,556.7	5,597.0	5,543.2	17.0	18.3	-28.55	-231.1	667.5	97.7	69.3	28.47	3.433	
5,700.0	5,655.7	5,697.0	5,642.0	17.4	18.6	-28.54	-236.5	681.9	99.2	70.2	29.02	3.419	
5,800.0	5,754.7	5,797.0	5,740.8	17.7	19.0	-28.52	-241.8	696.4	100.7	71.1	29.58	3.405	
5,900.0	5,853.8	5,897.0	5,839.6	18.1	19.4	-28.51	-247.2	710.8	102.2	72.1	30.13	3.392	
6,000.0	5,952.8	5,997.0	5,938.4	18.4	19.8	-28.50	-252.6	725.3	103.7	73.0	30.68	3.379	
6,100.0	6,051.8	6,097.0	6,037.2	18.8	20.1	-28.49	-257.9	739.8	105.2	73.9	31.24	3.367	
6,200.0	6,150.8	6,197.0	6,136.0	19.1	20.5	-28.48	-263.3	754.2	106.7	74.9	31.79	3.355	
6,300.0	6,249.8	6,297.0	6,234.8	19.5	20.9	-28.47	-268.6	768.7	108.2	75.8	32.34	3.344	
6,400.0	6,348.8	6,396.9	6,333.6	19.8	21.2	-28.46	-274.0	783.1	109.6	76.7	32.90	3.333	
6,500.0	6,447.8	6,496.9	6,432.3	20.2	21.6	-28.45	-279.3	797.6	111.1	77.7	33.45	3.322	
6,600.0	6,546.8	6,596.9	6,531.1	20.5	22.0	-28.44	-284.7	812.0	112.6	78.6	34.00	3.312	
6,700.0	6,645.8	6,696.9	6,629.9	20.9	22.4	-28.43	-290.0	826.5	114.1	79.6	34.56	3.302	
6,800.0	6,744.8	6,796.9	6,728.7	21.2	22.7	-28.42	-295.4	841.0	115.6	80.5	35.11	3.292	
6,900.0	6,843.8	6,896.9	6,827.5	21.6	23.1	-28.41	-300.7	855.4	117.1	81.4	35.67	3.283	
7,000.0	6,942.8	6,996.9	6,926.3	21.9	23.5	-28.40	-306.1	869.9	118.6	82.4	36.22	3.274	
7,100.0	7,041.8	7,096.9	7,025.1	22.3	23.8	-28.39	-311.4	884.3	120.1	83.3	36.77	3.265	
7,200.0	7,140.6	7,196.8	7,123.8	22.6	24.2	-51.61	-316.8	898.8	121.8	84.3	37.51	3.246	
7,300.0	7,237.6	7,295.6	7,221.5	23.0	24.6	-76.63	-322.1	913.1	125.7	86.3	39.45	3.187	
7,400.0	7,331.0	7,391.4	7,316.1	23.5	24.9	-94.88	-327.2	926.9	136.3	94.2	42.13	3.235	
7,500.0	7,418.8	7,495.7	7,418.5	24.1	25.3	-110.19	-340.0	941.9	155.4	111.2	44.13	3.520	
7,600.0	7,499.4	7,606.7	7,524.1	24.7	25.8	-121.23	-369.9	957.4	178.5	134.0	44.53	4.009	
7,700.0	7,571.1	7,724.9	7,630.1	25.4	26.4	-129.20	-419.5	973.1	203.2	159.6	43.67	4.655	
7,800.0	7,632.7	7,851.1	7,732.7	26.2	27.2	-134.96	-491.0	988.3	227.3	185.4	41.92	5.422	
7,900.0	7,682.9	7,985.6	7,826.6	27.1	28.2	-139.09	-586.0	1,002.3	248.9	209.2	39.67	6.273	
8,000.0	7,720.6	8,128.0	7,905.0	28.1	29.3	-141.93	-704.0	1,014.2	266.4	229.1	37.24	7.153	
8,100.0	7,745.3	8,277.0	7,960.7	29.2	30.8	-143.70	-841.7	1,022.7	278.5	243.6	34.93	7.973	
8,200.0	7,756.4	8,430.4	7,987.3	30.4	32.4	-144.50	-992.4	1,027.1	284.3	251.2	33.08	8.596	
8,300.0	7,756.9	8,548.0	7,989.0	31.5	33.7	-144.58	-1,109.9	1,027.7	284.9	251.2	33.67	8.460	
8,400.0	7,756.7	8,648.0	7,989.0	32.8	35.0	-144.61	-1,209.9	1,028.1	285.0	249.7	35.35	8.062	
8,500.0	7,756.5	8,748.0	7,989.0	34.2	36.3	-144.63	-1,309.9	1,028.4	285.2	248.0	37.13	7.680	
8,600.0	7,756.3	8,848.0	7,989.0	35.6	37.6	-144.65	-1,409.9	1,028.7	285.3	246.4	38.98	7.319	
8,700.0	7,756.1	8,948.0	7,989.0	37.0	39.0	-144.68	-1,509.9	1,029.1	285.5	244.6	40.91	6.979	
8,800.0	7,755.9	9,048.0	7,989.0	38.5	40.4	-144.70	-1,609.9	1,029.4	285.7	242.8	42.89	6.661	
8,900.0	7,755.7	9,148.0	7,989.0	40.1	41.9	-144.73	-1,709.9	1,029.7	285.8	240.9	44.92	6.363	
9,000.0	7,755.5	9,248.0	7,989.0	41.6	43.4	-144.75	-1,809.9	1,030.1	286.0	239.0	46.99	6.086	
9,100.0	7,755.2	9,348.0	7,989.0	43.2	45.0	-144.77	-1,909.9	1,030.4	286.2	237.1	49.10	5.828	
9,200.0	7,755.0	9,448.0	7,989.0	44.8	46.5	-144.80	-2,009.9	1,030.7	286.3	235.1	51.25	5.587	
9,300.0	7,754.8	9,548.0	7,989.0	46.5	48.1	-144.82	-2,109.9	1,031.1	286.5	233.1	53.42	5.363	
9,400.0	7,754.6	9,648.0	7,989.0	48.1	49.7	-144.84	-2,209.9	1,031.4	286.6	231.0	55.62	5.154	
9,500.0	7,754.4	9,748.0	7,989.0	49.8	51.4	-144.87	-2,309.9	1,031.7	286.8	229.0	57.84	4.959	
9,600.0	7,754.2	9,848.0	7,989.0	51.5	53.0	-144.89	-2,409.9	1,032.1	287.0	226.9	60.07	4.777	
9,700.0	7,754.0	9,948.0	7,989.0	53.2	54.7	-144.92	-2,509.9	1,032.4	287.1	224.8	62.33	4.607	
9,800.0	7,753.8	10,048.0	7,989.0	54.9	56.4	-144.94	-2,609.9	1,032.7	287.3	222.7	64.60	4.447	
9,900.0	7,753.6	10,148.0	7,989.0	56.7	58.1	-144.96	-2,709.9	1,033.1	287.5	220.6	66.88	4.298	
10,000.0	7,753.4	10,248.0	7,989.0	58.4	59.8	-144.99	-2,809.9	1,033.4	287.6	218.4	69.18	4.158	
10,100.0	7,753.2	10,348.0	7,989.0	60.2	61.5	-145.01	-2,909.9	1,033.7	287.8	216.3	71.48	4.026	
10,200.0	7,753.0	10,448.0	7,989.0	61.9	63.3	-145.03	-3,009.9	1,034.0	287.9	214.2	73.79	3.902	

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)													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		
10,300.0	7,752.8	10,548.0	7,989.0	63.7	65.0	-145.06	-3,109.9	1,034.4	288.1	212.0	76.12	3.785		
10,400.0	7,752.6	10,648.0	7,989.0	65.5	66.8	-145.08	-3,209.9	1,034.7	288.3	209.8	78.45	3.675		
10,500.0	7,752.4	10,748.0	7,989.0	67.3	68.5	-145.10	-3,309.9	1,035.0	288.4	207.7	80.78	3.571		
10,600.0	7,752.2	10,848.0	7,989.0	69.1	70.3	-145.13	-3,409.9	1,035.4	288.6	205.5	83.12	3.472		
10,700.0	7,752.0	10,948.0	7,989.0	70.9	72.1	-145.15	-3,509.9	1,035.7	288.8	203.3	85.47	3.379		
10,800.0	7,751.8	11,048.0	7,989.0	72.7	73.9	-145.17	-3,609.9	1,036.0	288.9	201.1	87.82	3.290		
10,900.0	7,751.6	11,148.0	7,989.0	74.5	75.7	-145.20	-3,709.9	1,036.4	289.1	198.9	90.18	3.206		
11,000.0	7,751.4	11,248.0	7,989.0	76.3	77.5	-145.22	-3,809.9	1,036.7	289.3	196.7	92.54	3.126		
11,100.0	7,751.2	11,348.0	7,989.0	78.1	79.3	-145.24	-3,909.9	1,037.0	289.4	194.5	94.90	3.050		
11,200.0	7,751.0	11,448.0	7,989.0	80.0	81.1	-145.27	-4,009.9	1,037.4	289.6	192.3	97.26	2.977		
11,300.0	7,750.8	11,548.0	7,989.0	81.8	82.9	-145.29	-4,109.9	1,037.7	289.7	190.1	99.63	2.908		
11,400.0	7,750.6	11,648.0	7,989.0	83.6	84.7	-145.31	-4,209.9	1,038.0	289.9	187.9	102.00	2.842		
11,500.0	7,750.4	11,748.0	7,989.0	85.5	86.5	-145.34	-4,309.9	1,038.4	290.1	185.7	104.37	2.779		
11,600.0	7,750.2	11,848.0	7,989.0	87.3	88.4	-145.36	-4,409.9	1,038.7	290.2	183.5	106.74	2.719		
11,700.0	7,750.0	11,948.0	7,989.0	89.2	90.2	-145.38	-4,509.9	1,039.0	290.4	181.3	109.12	2.661		
11,800.0	7,749.8	12,048.0	7,989.0	91.0	92.0	-145.41	-4,609.9	1,039.4	290.6	179.1	111.49	2.606		
11,900.0	7,749.6	12,148.0	7,989.0	92.9	93.9	-145.43	-4,709.9	1,039.7	290.7	176.9	113.87	2.553		
12,000.0	7,749.4	12,248.0	7,989.0	94.7	95.7	-145.45	-4,809.9	1,040.0	290.9	174.6	116.25	2.502		
12,100.0	7,749.2	12,348.0	7,989.0	96.6	97.6	-145.48	-4,909.9	1,040.4	291.1	172.4	118.62	2.454		
12,200.0	7,749.0	12,448.0	7,989.0	98.4	99.4	-145.50	-5,009.9	1,040.7	291.2	170.2	121.00	2.407		
12,300.0	7,748.8	12,548.0	7,989.0	100.3	101.2	-145.52	-5,109.9	1,041.0	291.4	168.0	123.38	2.362		
12,400.0	7,748.6	12,648.0	7,989.0	102.1	103.1	-145.54	-5,209.9	1,041.4	291.6	165.8	125.76	2.318		
12,500.0	7,748.4	12,748.0	7,989.0	104.0	105.0	-145.57	-5,309.9	1,041.7	291.7	163.6	128.14	2.277		
12,600.0	7,748.2	12,848.0	7,989.0	105.9	106.8	-145.59	-5,409.9	1,042.0	291.9	161.4	130.52	2.236		
12,700.0	7,748.0	12,948.0	7,989.0	107.7	108.7	-145.61	-5,509.9	1,042.3	292.0	159.1	132.90	2.198		
12,800.0	7,747.8	13,048.0	7,989.0	109.6	110.5	-145.64	-5,609.9	1,042.7	292.2	156.9	135.28	2.160		
12,900.0	7,747.6	13,148.0	7,989.0	111.5	112.4	-145.66	-5,709.9	1,043.0	292.4	154.7	137.66	2.124		
13,000.0	7,747.4	13,248.0	7,989.0	113.4	114.3	-145.68	-5,809.9	1,043.3	292.5	152.5	140.04	2.089		
13,100.0	7,747.2	13,348.0	7,989.0	115.2	116.1	-145.70	-5,909.9	1,043.7	292.7	150.3	142.41	2.055		
13,200.0	7,747.0	13,448.0	7,989.0	117.1	118.0	-145.73	-6,009.9	1,044.0	292.9	148.1	144.79	2.023		
13,300.0	7,746.8	13,548.0	7,989.0	119.0	119.9	-145.75	-6,109.9	1,044.3	293.0	145.9	147.17	1.991		
13,400.0	7,746.6	13,648.0	7,989.0	120.9	121.7	-145.77	-6,209.9	1,044.7	293.2	143.7	149.55	1.961		
13,500.0	7,746.4	13,748.0	7,989.0	122.7	123.6	-145.79	-6,309.9	1,045.0	293.4	141.4	151.92	1.931		
13,600.0	7,746.2	13,848.0	7,989.0	124.6	125.5	-145.82	-6,409.9	1,045.3	293.5	139.2	154.30	1.902		
13,700.0	7,746.0	13,948.0	7,989.0	126.5	127.3	-145.84	-6,509.9	1,045.7	293.7	137.0	156.67	1.875		
13,800.0	7,745.8	14,048.0	7,989.0	128.4	129.2	-145.86	-6,609.9	1,046.0	293.9	134.8	159.05	1.848		
13,900.0	7,745.6	14,148.0	7,989.0	130.3	131.1	-145.89	-6,709.9	1,046.3	294.0	132.6	161.42	1.822		
14,000.0	7,745.4	14,248.0	7,989.0	132.2	133.0	-145.91	-6,809.9	1,046.7	294.2	130.4	163.79	1.796		
14,100.0	7,745.2	14,348.0	7,989.0	134.0	134.8	-145.93	-6,909.9	1,047.0	294.4	128.2	166.16	1.772		
14,200.0	7,745.0	14,448.0	7,989.0	135.9	136.7	-145.95	-7,009.9	1,047.3	294.5	126.0	168.53	1.748		
14,300.0	7,744.8	14,548.0	7,989.0	137.8	138.6	-145.98	-7,109.9	1,047.7	294.7	123.8	170.90	1.724		
14,400.0	7,744.6	14,648.0	7,989.0	139.7	140.5	-146.00	-7,209.9	1,048.0	294.9	121.6	173.27	1.702		
14,500.0	7,744.4	14,748.0	7,989.0	141.6	142.4	-146.02	-7,309.9	1,048.3	295.0	119.4	175.64	1.680		
14,600.0	7,744.2	14,848.0	7,989.0	143.5	144.3	-146.04	-7,409.9	1,048.7	295.2	117.2	178.00	1.658		
14,700.0	7,744.0	14,948.0	7,989.0	145.4	146.1	-146.06	-7,509.9	1,049.0	295.3	115.0	180.37	1.637		
14,800.0	7,743.8	15,048.0	7,989.0	147.3	148.0	-146.09	-7,609.9	1,049.3	295.5	112.8	182.73	1.617		
14,900.0	7,743.6	15,148.0	7,989.0	149.1	149.9	-146.11	-7,709.9	1,049.7	295.7	110.6	185.10	1.597		
15,000.0	7,743.4	15,248.0	7,989.0	151.0	151.8	-146.13	-7,809.9	1,050.0	295.8	108.4	187.46	1.578		
15,100.0	7,743.2	15,348.0	7,989.0	152.9	153.7	-146.15	-7,909.9	1,050.3	296.0	106.2	189.82	1.559		
15,200.0	7,742.9	15,448.0	7,989.0	154.8	155.6	-146.18	-8,009.9	1,050.6	296.2	104.0	192.18	1.541		
15,300.0	7,742.7	15,548.0	7,989.0	156.7	157.5	-146.20	-8,109.9	1,051.0	296.3	101.8	194.53	1.523		
15,400.0	7,742.5	15,648.0	7,989.0	158.6	159.3	-146.22	-8,209.9	1,051.3	296.5	99.6	196.89	1.506		

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)													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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
15,500.0	7,742.3	15,748.0	7,989.0	160.5	161.2	-146.24	-8,309.9	1,051.6	296.7	97.4	199.25	1.489	Level 3	
15,600.0	7,742.1	15,848.0	7,989.0	162.4	163.1	-146.27	-8,409.9	1,052.0	296.8	95.2	201.60	1.472	Level 3	
15,670.8	7,742.0	15,918.8	7,989.0	163.5	164.5	-146.28	-8,480.7	1,052.2	297.0	93.9	203.05	1.463	Level 3, SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)													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	23.03	27.7	11.8	30.1					
100.0	100.0	100.0	100.0	0.1	0.1	23.03	27.7	11.8	30.1	29.9	0.22	133.847		
200.0	200.0	200.0	200.0	0.3	0.3	23.03	27.7	11.8	30.1	29.4	0.67	44.616		
300.0	300.0	300.0	300.0	0.6	0.6	23.03	27.7	11.8	30.1	29.0	1.12	26.769		
400.0	400.0	400.0	400.0	0.8	0.8	23.03	27.7	11.8	30.1	28.5	1.57	19.121		
500.0	500.0	500.0	500.0	1.0	1.0	23.03	27.7	11.8	30.1	28.1	2.02	14.872		
600.0	600.0	600.0	600.0	1.2	1.2	23.03	27.7	11.8	30.1	27.6	2.47	12.168 CC		
700.0	700.0	699.9	699.9	1.5	1.4	26.32	27.1	13.4	30.3	27.4	2.90	10.423		
800.0	800.0	799.5	799.3	1.7	1.6	35.76	25.5	18.4	31.4	28.1	3.33	9.437		
900.0	900.0	898.7	898.1	1.9	1.9	49.35	22.8	26.5	35.0	31.3	3.76	9.301		
1,000.0	1,000.0	997.1	995.8	2.1	2.1	63.33	19.0	37.8	42.6	38.3	4.21	10.105		
1,100.0	1,100.0	1,094.9	1,092.4	2.3	2.4	-39.14	14.2	52.2	53.3	48.6	4.67	11.426		
1,200.0	1,199.8	1,193.8	1,189.8	2.5	2.7	-32.99	8.7	68.8	64.2	59.1	5.09	12.617		
1,300.0	1,299.5	1,293.4	1,287.8	2.7	3.1	-29.95	3.1	85.6	72.6	67.1	5.52	13.149		
1,400.0	1,398.7	1,393.3	1,386.1	3.0	3.4	-28.76	-2.4	102.3	78.1	72.2	5.98	13.072		
1,500.0	1,497.7	1,493.2	1,484.4	3.2	3.8	-28.39	-8.0	119.1	82.0	75.5	6.46	12.686		
1,600.0	1,596.7	1,593.1	1,582.8	3.5	4.2	-28.07	-13.6	135.9	85.8	78.8	6.96	12.333		
1,700.0	1,695.7	1,693.0	1,681.1	3.8	4.6	-27.77	-19.2	152.7	89.6	82.2	7.46	12.013		
1,800.0	1,794.7	1,793.0	1,779.5	4.1	5.0	-27.49	-24.8	169.5	93.5	85.5	7.97	11.725		
1,900.0	1,893.7	1,892.9	1,877.8	4.4	5.3	-27.24	-30.4	186.3	97.3	88.8	8.49	11.465		
2,000.0	1,992.7	1,992.8	1,976.2	4.7	5.7	-27.00	-35.9	203.1	101.1	92.1	9.00	11.230		
2,100.0	2,091.7	2,092.7	2,074.5	5.0	6.1	-26.78	-41.5	219.9	105.0	95.4	9.53	11.017		
2,200.0	2,190.7	2,192.7	2,172.9	5.4	6.5	-26.58	-47.1	236.6	108.8	98.7	10.05	10.823		
2,300.0	2,289.7	2,292.6	2,271.2	5.7	6.9	-26.39	-52.7	253.4	112.6	102.1	10.58	10.647		
2,400.0	2,388.7	2,392.5	2,369.6	6.0	7.3	-26.22	-58.3	270.2	116.5	105.4	11.11	10.485		
2,500.0	2,487.7	2,492.4	2,467.9	6.4	7.7	-26.05	-63.9	287.0	120.3	108.7	11.64	10.337		
2,600.0	2,586.7	2,592.4	2,566.3	6.7	8.1	-25.90	-69.5	303.8	124.2	112.0	12.17	10.201		
2,700.0	2,685.7	2,692.3	2,664.6	7.0	8.5	-25.75	-75.0	320.6	128.0	115.3	12.71	10.076		
2,800.0	2,784.7	2,792.2	2,762.9	7.4	8.9	-25.61	-80.6	337.4	131.9	118.6	13.24	9.960		
2,900.0	2,883.7	2,892.1	2,861.3	7.7	9.3	-25.48	-86.2	354.2	135.7	121.9	13.77	9.852		
3,000.0	2,982.7	2,992.1	2,959.6	8.0	9.7	-25.36	-91.8	371.0	139.6	125.3	14.31	9.753		
3,100.0	3,081.7	3,092.0	3,058.0	8.4	10.2	-25.25	-97.4	387.8	143.4	128.6	14.85	9.660		
3,200.0	3,180.7	3,191.9	3,156.3	8.7	10.6	-25.14	-103.0	404.5	147.3	131.9	15.38	9.573		
3,300.0	3,279.7	3,291.8	3,254.7	9.1	11.0	-25.03	-108.6	421.3	151.1	135.2	15.92	9.492		
3,400.0	3,378.7	3,391.8	3,353.0	9.4	11.4	-24.93	-114.1	438.1	155.0	138.5	16.46	9.416		
3,500.0	3,477.7	3,491.7	3,451.4	9.7	11.8	-24.84	-119.7	454.9	158.8	141.8	17.00	9.344		
3,600.0	3,576.7	3,591.6	3,549.7	10.1	12.2	-24.75	-125.3	471.7	162.7	145.1	17.53	9.277		
3,700.0	3,675.7	3,691.5	3,648.1	10.4	12.6	-24.67	-130.9	488.5	166.5	148.4	18.07	9.214		
3,800.0	3,774.7	3,791.5	3,746.4	10.8	13.0	-24.58	-136.5	505.3	170.4	151.7	18.61	9.154		
3,900.0	3,873.7	3,891.4	3,844.8	11.1	13.4	-24.51	-142.1	522.1	174.2	155.1	19.15	9.097		
4,000.0	3,972.7	3,991.3	3,943.1	11.5	13.8	-24.43	-147.7	538.9	178.1	158.4	19.69	9.044		
4,100.0	4,071.7	4,091.2	4,041.4	11.8	14.2	-24.36	-153.2	555.7	181.9	161.7	20.23	8.993		
4,200.0	4,170.7	4,191.2	4,139.8	12.2	14.6	-24.29	-158.8	572.5	185.8	165.0	20.77	8.945		
4,300.0	4,269.7	4,291.1	4,238.1	12.5	15.0	-24.23	-164.4	589.2	189.6	168.3	21.31	8.900		
4,400.0	4,368.7	4,391.0	4,336.5	12.9	15.4	-24.16	-170.0	606.0	193.5	171.6	21.85	8.856		
4,500.0	4,467.7	4,491.0	4,434.8	13.2	15.8	-24.10	-175.6	622.8	197.3	174.9	22.39	8.815		
4,600.0	4,566.7	4,590.9	4,533.2	13.6	16.2	-24.05	-181.2	639.6	201.2	178.3	22.93	8.775		
4,700.0	4,665.7	4,690.8	4,631.5	13.9	16.7	-23.99	-186.7	656.4	205.0	181.6	23.47	8.738		
4,800.0	4,764.7	4,790.7	4,729.9	14.3	17.1	-23.94	-192.3	673.2	208.9	184.9	24.01	8.702		
4,900.0	4,863.7	4,890.7	4,828.2	14.6	17.5	-23.88	-197.9	690.0	212.7	188.2	24.55	8.667		
5,000.0	4,962.7	4,990.6	4,926.6	15.0	17.9	-23.83	-203.5	706.8	216.6	191.5	25.09	8.634		
5,100.0	5,061.7	5,090.5	5,024.9	15.3	18.3	-23.78	-209.1	723.6	220.4	194.8	25.63	8.603		

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)												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	5,160.7	5,190.4	5,123.3	15.6	18.7	-23.74	-214.7	740.4	224.3	198.1	26.17	8.572	
5,300.0	5,259.7	5,290.4	5,221.6	16.0	19.1	-23.69	-220.3	757.1	228.2	201.5	26.71	8.543	
5,400.0	5,358.7	5,390.3	5,319.9	16.3	19.5	-23.65	-225.8	773.9	232.0	204.8	27.25	8.515	
5,500.0	5,457.7	5,490.2	5,418.3	16.7	19.9	-23.61	-231.4	790.7	235.9	208.1	27.79	8.488	
5,600.0	5,556.7	5,590.1	5,516.6	17.0	20.3	-23.57	-237.0	807.5	239.7	211.4	28.33	8.462	
5,700.0	5,655.7	5,690.1	5,615.0	17.4	20.7	-23.53	-242.6	824.3	243.6	214.7	28.87	8.438	
5,800.0	5,754.7	5,790.0	5,713.3	17.7	21.1	-23.49	-248.2	841.1	247.4	218.0	29.41	8.414	
5,900.0	5,853.8	5,889.9	5,811.7	18.1	21.5	-23.45	-253.8	857.9	251.3	221.3	29.95	8.390	
6,000.0	5,952.8	5,989.8	5,910.0	18.4	22.0	-23.42	-259.4	874.7	255.1	224.7	30.49	8.368	
6,100.0	6,051.8	6,089.8	6,008.4	18.8	22.4	-23.38	-264.9	891.5	259.0	228.0	31.03	8.347	
6,200.0	6,150.8	6,189.7	6,106.7	19.1	22.8	-23.35	-270.5	908.3	262.9	231.3	31.57	8.326	
6,300.0	6,249.8	6,289.6	6,205.1	19.5	23.2	-23.31	-276.1	925.0	266.7	234.6	32.11	8.306	
6,400.0	6,348.8	6,389.5	6,303.4	19.8	23.6	-23.28	-281.7	941.8	270.6	237.9	32.65	8.286	
6,500.0	6,447.8	6,489.5	6,401.8	20.2	24.0	-23.25	-287.3	958.6	274.4	241.2	33.19	8.267	
6,600.0	6,546.8	6,589.4	6,500.1	20.5	24.4	-23.22	-292.9	975.4	278.3	244.5	33.73	8.249	
6,700.0	6,645.8	6,689.3	6,598.5	20.9	24.8	-23.19	-298.4	992.2	282.1	247.9	34.27	8.231	
6,800.0	6,744.8	6,789.2	6,696.8	21.2	25.2	-23.16	-304.0	1,009.0	286.0	251.2	34.82	8.214	
6,900.0	6,843.8	6,889.2	6,795.1	21.6	25.6	-23.13	-309.6	1,025.8	289.8	254.5	35.36	8.198	
7,000.0	6,942.8	6,989.1	6,893.5	21.9	26.0	-23.11	-315.2	1,042.6	293.7	257.8	35.90	8.182	
7,100.0	7,041.8	7,089.0	6,991.8	22.3	26.4	-23.08	-320.8	1,059.4	297.6	261.1	36.44	8.166	
7,200.0	7,140.6	7,188.9	7,090.1	22.6	26.9	-45.60	-326.4	1,076.1	301.4	264.4	37.03	8.141	
7,300.0	7,237.6	7,289.6	7,188.5	23.0	27.3	-65.52	-338.9	1,093.0	305.4	267.5	37.91	8.056	
7,400.0	7,331.0	7,391.3	7,285.2	23.5	27.7	-74.45	-365.7	1,109.6	309.4	270.4	38.97	7.939	
7,500.0	7,418.8	7,494.2	7,378.1	24.1	28.3	-79.53	-406.6	1,125.6	313.3	273.1	40.23	7.789	
7,600.0	7,499.4	7,598.2	7,465.2	24.7	28.9	-82.87	-461.2	1,140.6	317.1	275.4	41.67	7.608	
7,700.0	7,571.1	7,703.2	7,544.3	25.4	29.6	-85.23	-528.8	1,154.4	320.5	277.2	43.31	7.401	
7,800.0	7,632.7	7,809.2	7,613.4	26.2	30.4	-86.96	-608.1	1,166.4	323.6	278.5	45.13	7.170	
7,900.0	7,682.9	7,916.0	7,670.5	27.1	31.3	-88.23	-697.6	1,176.5	326.2	279.1	47.11	6.923	
8,000.0	7,720.6	8,023.4	7,714.2	28.1	32.2	-89.13	-795.4	1,184.4	328.2	278.9	49.24	6.664	
8,100.0	7,745.3	8,131.4	7,743.0	29.2	33.3	-89.70	-899.2	1,189.7	329.5	278.0	51.49	6.399	
8,200.0	7,756.4	8,239.7	7,756.2	30.4	34.4	-89.97	-1,006.6	1,192.3	330.1	276.3	53.83	6.132	
8,300.0	7,756.9	8,342.5	7,756.9	31.5	35.5	-90.00	-1,109.4	1,192.8	330.2	273.8	56.39	5.855	
8,400.0	7,756.7	8,442.5	7,756.7	32.8	36.7	-90.00	-1,209.4	1,193.2	330.2	270.9	59.31	5.567	
8,500.0	7,756.5	8,542.5	7,756.5	34.2	38.0	-90.00	-1,309.4	1,193.5	330.2	267.8	62.33	5.297	
8,600.0	7,756.3	8,642.5	7,756.3	35.6	39.3	-90.00	-1,409.4	1,193.8	330.2	264.7	65.43	5.046	
8,700.0	7,756.1	8,742.5	7,756.1	37.0	40.6	-90.00	-1,509.4	1,194.2	330.2	261.6	68.61	4.812	
8,800.0	7,755.9	8,842.5	7,755.9	38.5	42.0	-90.00	-1,609.4	1,194.5	330.2	258.3	71.85	4.595	
8,900.0	7,755.7	8,942.5	7,755.7	40.1	43.4	-90.00	-1,709.4	1,194.8	330.2	255.0	75.14	4.394	
9,000.0	7,755.5	9,042.5	7,755.5	41.6	44.9	-90.00	-1,809.4	1,195.2	330.2	251.7	78.49	4.206	
9,100.0	7,755.2	9,142.5	7,755.3	43.2	46.4	-90.00	-1,909.4	1,195.5	330.1	248.3	81.88	4.032	
9,200.0	7,755.0	9,242.5	7,755.1	44.8	47.9	-90.00	-2,009.4	1,195.8	330.1	244.8	85.30	3.870	
9,300.0	7,754.8	9,342.5	7,754.8	46.5	49.5	-90.00	-2,109.4	1,196.2	330.1	241.4	88.76	3.719	
9,400.0	7,754.6	9,442.5	7,754.6	48.1	51.0	-90.00	-2,209.4	1,196.5	330.1	237.9	92.25	3.579	
9,500.0	7,754.4	9,542.5	7,754.4	49.8	52.6	-90.00	-2,309.4	1,196.8	330.1	234.4	95.76	3.447	
9,600.0	7,754.2	9,642.5	7,754.2	51.5	54.3	-90.00	-2,409.4	1,197.1	330.1	230.8	99.30	3.325	
9,700.0	7,754.0	9,742.5	7,754.0	53.2	55.9	-90.00	-2,509.4	1,197.5	330.1	227.3	102.86	3.210	
9,800.0	7,753.8	9,842.5	7,753.8	54.9	57.6	-90.00	-2,609.4	1,197.8	330.1	223.7	106.44	3.102	
9,900.0	7,753.6	9,942.5	7,753.6	56.7	59.2	-90.00	-2,709.4	1,198.1	330.1	220.1	110.03	3.000	
10,000.0	7,753.4	10,042.5	7,753.4	58.4	60.9	-90.00	-2,809.4	1,198.5	330.1	216.5	113.64	2.905	
10,100.0	7,753.2	10,142.5	7,753.2	60.2	62.6	-90.00	-2,909.4	1,198.8	330.1	212.9	117.27	2.815	
10,200.0	7,753.0	10,242.5	7,753.0	61.9	64.4	-90.00	-3,009.4	1,199.1	330.1	209.2	120.91	2.730	
10,300.0	7,752.8	10,342.5	7,752.8	63.7	66.1	-90.00	-3,109.4	1,199.5	330.1	205.6	124.55	2.650	

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWID													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	10,442.5	7,752.6	65.5	67.8	-90.00	-3,209.4	1,199.8	330.1	201.9	128.21	2.575		
10,500.0	7,752.4	10,542.5	7,752.4	67.3	69.6	-90.00	-3,309.4	1,200.1	330.1	198.2	131.88	2.503		
10,600.0	7,752.2	10,642.5	7,752.2	69.1	71.3	-90.00	-3,409.4	1,200.5	330.1	194.5	135.56	2.435		
10,700.0	7,752.0	10,742.5	7,752.0	70.9	73.1	-90.00	-3,509.4	1,200.8	330.1	190.9	139.25	2.371		
10,800.0	7,751.8	10,842.5	7,751.8	72.7	74.8	-90.00	-3,609.4	1,201.1	330.1	187.2	142.94	2.309		
10,900.0	7,751.6	10,942.5	7,751.6	74.5	76.6	-90.00	-3,709.4	1,201.5	330.1	183.5	146.64	2.251		
11,000.0	7,751.4	11,042.5	7,751.4	76.3	78.4	-90.00	-3,809.4	1,201.8	330.1	179.7	150.35	2.195		
11,100.0	7,751.2	11,142.5	7,751.2	78.1	80.2	-90.00	-3,909.4	1,202.1	330.1	176.0	154.07	2.143		
11,200.0	7,751.0	11,242.5	7,751.0	80.0	82.0	-90.00	-4,009.4	1,202.5	330.1	172.3	157.79	2.092		
11,300.0	7,750.8	11,342.5	7,750.8	81.8	83.8	-90.00	-4,109.4	1,202.8	330.1	168.6	161.51	2.044		
11,400.0	7,750.6	11,442.5	7,750.6	83.6	85.6	-90.00	-4,209.4	1,203.1	330.1	164.8	165.24	1.998		
11,500.0	7,750.4	11,542.5	7,750.4	85.5	87.4	-90.00	-4,309.4	1,203.5	330.1	161.1	168.98	1.953		
11,600.0	7,750.2	11,642.5	7,750.2	87.3	89.2	-90.00	-4,409.4	1,203.8	330.1	157.4	172.71	1.911		
11,700.0	7,750.0	11,742.5	7,750.0	89.2	91.0	-90.00	-4,509.4	1,204.1	330.1	153.6	176.46	1.871		
11,800.0	7,749.8	11,842.5	7,749.8	91.0	92.9	-90.00	-4,609.4	1,204.5	330.1	149.9	180.20	1.832		
11,900.0	7,749.6	11,942.5	7,749.6	92.9	94.7	-90.00	-4,709.4	1,204.8	330.1	146.1	183.95	1.794		
12,000.0	7,749.4	12,042.5	7,749.4	94.7	96.5	-90.00	-4,809.4	1,205.1	330.1	142.4	187.71	1.758		
12,100.0	7,749.2	12,142.5	7,749.2	96.6	98.3	-90.00	-4,909.4	1,205.5	330.1	138.6	191.46	1.724		
12,200.0	7,749.0	12,242.5	7,749.0	98.4	100.2	-90.00	-5,009.4	1,205.8	330.1	134.8	195.22	1.691		
12,300.0	7,748.8	12,342.5	7,748.8	100.3	102.0	-90.00	-5,109.4	1,206.1	330.1	131.1	198.99	1.659		
12,400.0	7,748.6	12,442.5	7,748.6	102.1	103.9	-90.00	-5,209.4	1,206.5	330.1	127.3	202.75	1.628		
12,500.0	7,748.4	12,542.5	7,748.4	104.0	105.7	-90.00	-5,309.4	1,206.8	330.1	123.5	206.52	1.598		
12,600.0	7,748.2	12,642.5	7,748.2	105.9	107.6	-90.00	-5,409.4	1,207.1	330.1	119.8	210.29	1.570		
12,700.0	7,748.0	12,742.5	7,748.0	107.7	109.4	-90.00	-5,509.4	1,207.5	330.1	116.0	214.06	1.542		
12,800.0	7,747.8	12,842.5	7,747.8	109.6	111.3	-90.00	-5,609.4	1,207.8	330.1	112.2	217.83	1.515		
12,900.0	7,747.6	12,942.5	7,747.6	111.5	113.1	-90.00	-5,709.4	1,208.1	330.0	108.4	221.61	1.489 Level 3		
13,000.0	7,747.4	13,042.5	7,747.4	113.4	115.0	-90.00	-5,809.3	1,208.5	330.0	104.7	225.39	1.464 Level 3		
13,100.0	7,747.2	13,142.5	7,747.2	115.2	116.8	-90.00	-5,909.3	1,208.8	330.0	100.9	229.17	1.440 Level 3		
13,200.0	7,747.0	13,242.5	7,747.0	117.1	118.7	-90.00	-6,009.3	1,209.1	330.0	97.1	232.95	1.417 Level 3		
13,300.0	7,746.8	13,342.5	7,746.8	119.0	120.5	-90.00	-6,109.3	1,209.5	330.0	93.3	236.73	1.394 Level 3		
13,400.0	7,746.6	13,442.5	7,746.6	120.9	122.4	-90.00	-6,209.3	1,209.8	330.0	89.5	240.51	1.372 Level 3		
13,500.0	7,746.4	13,542.5	7,746.4	122.7	124.3	-90.00	-6,309.3	1,210.1	330.0	85.7	244.30	1.351 Level 3		
13,600.0	7,746.2	13,642.5	7,746.2	124.6	126.1	-90.00	-6,409.3	1,210.5	330.0	81.9	248.09	1.330 Level 3		
13,700.0	7,746.0	13,742.5	7,746.0	126.5	128.0	-90.00	-6,509.3	1,210.8	330.0	78.2	251.88	1.310 Level 3		
13,800.0	7,745.8	13,842.5	7,745.8	128.4	129.9	-90.00	-6,609.3	1,211.1	330.0	74.4	255.67	1.291 Level 3		
13,900.0	7,745.6	13,942.5	7,745.6	130.3	131.7	-90.00	-6,709.3	1,211.4	330.0	70.6	259.46	1.272 Level 3		
14,000.0	7,745.4	14,042.5	7,745.4	132.2	133.6	-90.00	-6,809.3	1,211.8	330.0	66.8	263.25	1.254 Level 3		
14,100.0	7,745.2	14,142.5	7,745.2	134.0	135.5	-90.00	-6,909.3	1,212.1	330.0	63.0	267.04	1.236 Level 2		
14,200.0	7,745.0	14,242.5	7,745.0	135.9	137.4	-90.00	-7,009.3	1,212.4	330.0	59.2	270.84	1.218 Level 2		
14,300.0	7,744.8	14,342.5	7,744.8	137.8	139.2	-90.00	-7,109.3	1,212.8	330.0	55.4	274.63	1.202 Level 2		
14,400.0	7,744.6	14,442.5	7,744.6	139.7	141.1	-90.00	-7,209.3	1,213.1	330.0	51.6	278.43	1.185 Level 2		
14,500.0	7,744.4	14,542.5	7,744.4	141.6	143.0	-90.00	-7,309.3	1,213.4	330.0	47.8	282.23	1.169 Level 2		
14,600.0	7,744.2	14,642.5	7,744.2	143.5	144.9	-90.00	-7,409.3	1,213.8	330.0	44.0	286.03	1.154 Level 2		
14,700.0	7,744.0	14,742.5	7,744.0	145.4	146.8	-90.00	-7,509.3	1,214.1	330.0	40.2	289.83	1.139 Level 2		
14,800.0	7,743.8	14,842.5	7,743.8	147.3	148.6	-90.00	-7,609.3	1,214.4	330.0	36.4	293.63	1.124 Level 2		
14,900.0	7,743.6	14,942.5	7,743.6	149.1	150.5	-90.00	-7,709.3	1,214.8	330.0	32.6	297.43	1.110 Level 2		
15,000.0	7,743.4	15,042.5	7,743.4	151.0	152.4	-90.00	-7,809.3	1,215.1	330.0	28.8	301.23	1.095 Level 2		
15,100.0	7,743.2	15,142.5	7,743.2	152.9	154.3	-90.00	-7,909.3	1,215.4	330.0	25.0	305.03	1.082 Level 2		
15,200.0	7,742.9	15,242.5	7,742.9	154.8	156.2	-90.00	-8,009.3	1,215.8	330.0	21.2	308.84	1.068 Level 2		
15,300.0	7,742.7	15,342.5	7,742.7	156.7	158.0	-90.00	-8,109.3	1,216.1	330.0	17.3	312.64	1.055 Level 2		
15,400.0	7,742.5	15,442.5	7,742.5	158.6	159.9	-90.00	-8,209.3	1,216.4	330.0	13.5	316.44	1.043 Level 2		
15,500.0	7,742.3	15,542.5	7,742.3	160.5	161.8	-90.00	-8,309.3	1,216.8	330.0	9.7	320.25	1.030 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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)												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	15,642.5	7,742.2	162.4	163.7	-90.00	-8,409.3	1,217.1	330.0	5.9	324.06	1.018	Level 2
15,670.8	7,742.0	15,713.4	7,742.0	163.5	165.0	-90.00	-8,480.2	1,217.3	330.0	3.5	326.45	1.011	Level 2, ES, SF

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)													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 CC		
500.0	500.0	499.8	499.7	1.0	1.0	24.88	41.1	19.1	45.3	43.3	2.01	22.559 ES		
600.0	600.0	599.3	599.1	1.2	1.2	31.21	39.7	24.1	46.4	44.0	2.44	19.043		
700.0	700.0	698.3	697.8	1.5	1.4	40.80	37.5	32.4	49.6	46.7	2.88	17.201		
800.0	800.0	796.6	795.4	1.7	1.7	51.90	34.4	43.8	55.9	52.6	3.33	16.774		
900.0	900.0	894.0	891.6	1.9	2.0	62.47	30.4	58.4	66.4	62.6	3.80	17.453		
1,000.0	1,000.0	990.3	986.1	2.1	2.3	71.28	25.7	75.9	81.3	77.0	4.31	18.857		
1,100.0	1,100.0	1,087.7	1,081.4	2.3	2.7	-35.25	20.3	95.8	98.3	93.5	4.78	20.554		
1,200.0	1,199.8	1,186.4	1,177.8	2.5	3.2	-31.62	14.8	116.1	113.2	108.0	5.22	21.690		
1,300.0	1,299.5	1,285.6	1,274.6	2.7	3.6	-29.63	9.3	136.5	125.5	119.8	5.68	22.107		
1,400.0	1,398.7	1,385.1	1,371.9	3.0	4.0	-28.70	3.8	157.0	134.8	128.6	6.15	21.907		
1,500.0	1,497.7	1,484.8	1,469.3	3.2	4.5	-28.34	-1.8	177.5	142.4	135.8	6.65	21.400		
1,600.0	1,596.7	1,584.5	1,566.7	3.5	4.9	-28.01	-7.3	198.0	150.0	142.9	7.17	20.927		
1,700.0	1,695.7	1,684.2	1,664.2	3.8	5.4	-27.72	-12.9	218.5	157.7	150.0	7.69	20.500		
1,800.0	1,794.7	1,783.9	1,761.6	4.1	5.8	-27.45	-18.4	239.0	165.3	157.1	8.22	20.115		
1,900.0	1,893.7	1,883.6	1,859.0	4.4	6.3	-27.21	-24.0	259.5	173.0	164.2	8.75	19.767		
2,000.0	1,992.7	1,983.3	1,956.4	4.7	6.8	-26.99	-29.5	280.0	180.6	171.3	9.29	19.451		
2,100.0	2,091.7	2,083.0	2,053.8	5.0	7.2	-26.79	-35.0	300.5	188.3	178.4	9.82	19.165		
2,200.0	2,190.7	2,182.8	2,151.2	5.4	7.7	-26.60	-40.6	321.0	195.9	185.6	10.36	18.904		
2,300.0	2,289.7	2,282.5	2,248.7	5.7	8.2	-26.43	-46.1	341.5	203.6	192.7	10.91	18.666		
2,400.0	2,388.7	2,382.2	2,346.1	6.0	8.6	-26.26	-51.7	362.0	211.2	199.8	11.45	18.448		
2,500.0	2,487.7	2,481.9	2,443.5	6.4	9.1	-26.11	-57.2	382.5	218.9	206.9	12.00	18.247		
2,600.0	2,586.7	2,581.6	2,540.9	6.7	9.6	-25.97	-62.8	403.0	226.5	214.0	12.54	18.063		
2,700.0	2,685.7	2,681.3	2,638.3	7.0	10.0	-25.84	-68.3	423.5	234.2	221.1	13.09	17.893		
2,800.0	2,784.7	2,781.0	2,735.7	7.4	10.5	-25.72	-73.9	444.0	241.9	228.2	13.64	17.735		
2,900.0	2,883.7	2,880.7	2,833.2	7.7	11.0	-25.61	-79.4	464.5	249.5	235.3	14.19	17.589		
3,000.0	2,982.7	2,980.4	2,930.6	8.0	11.4	-25.50	-85.0	485.0	257.2	242.5	14.74	17.453		
3,100.0	3,081.7	3,080.1	3,028.0	8.4	11.9	-25.40	-90.5	505.5	264.8	249.6	15.29	17.326		
3,200.0	3,180.7	3,179.8	3,125.4	8.7	12.4	-25.30	-96.0	526.0	272.5	256.7	15.84	17.208		
3,300.0	3,279.7	3,279.5	3,222.8	9.1	12.8	-25.21	-101.6	546.5	280.2	263.8	16.39	17.097		
3,400.0	3,378.7	3,379.2	3,320.2	9.4	13.3	-25.12	-107.1	567.0	287.8	270.9	16.94	16.993		
3,500.0	3,477.7	3,478.9	3,417.7	9.7	13.8	-25.04	-112.7	587.5	295.5	278.0	17.49	16.895		
3,600.0	3,576.7	3,578.6	3,515.1	10.1	14.2	-24.97	-118.2	608.0	303.2	285.1	18.04	16.803		
3,700.0	3,675.7	3,678.3	3,612.5	10.4	14.7	-24.89	-123.8	628.5	310.8	292.3	18.60	16.716		
3,800.0	3,774.7	3,778.0	3,709.9	10.8	15.2	-24.82	-129.3	649.0	318.5	299.4	19.15	16.634		
3,900.0	3,873.7	3,877.7	3,807.3	11.1	15.6	-24.76	-134.9	669.5	326.2	306.5	19.70	16.557		
4,000.0	3,972.7	3,977.4	3,904.7	11.5	16.1	-24.69	-140.4	690.0	333.9	313.6	20.25	16.484		
4,100.0	4,071.7	4,077.1	4,002.2	11.8	16.6	-24.63	-145.9	710.5	341.5	320.7	20.81	16.414		
4,200.0	4,170.7	4,176.8	4,099.6	12.2	17.0	-24.57	-151.5	731.0	349.2	327.8	21.36	16.348		
4,300.0	4,269.7	4,276.6	4,197.0	12.5	17.5	-24.52	-157.0	751.5	356.9	334.9	21.91	16.285		
4,400.0	4,368.7	4,376.3	4,294.4	12.9	18.0	-24.46	-162.6	772.0	364.5	342.1	22.47	16.225		
4,500.0	4,467.7	4,476.0	4,391.8	13.2	18.5	-24.41	-168.1	792.5	372.2	349.2	23.02	16.168		
4,600.0	4,566.7	4,575.7	4,489.2	13.6	18.9	-24.36	-173.7	813.0	379.9	356.3	23.57	16.114		
4,700.0	4,665.7	4,675.4	4,586.7	13.9	19.4	-24.32	-179.2	833.5	387.5	363.4	24.13	16.062		
4,800.0	4,764.7	4,775.1	4,684.1	14.3	19.9	-24.27	-184.8	854.0	395.2	370.5	24.68	16.012		
4,900.0	4,863.7	4,874.8	4,781.5	14.6	20.3	-24.23	-190.3	874.5	402.9	377.7	25.24	15.964		
5,000.0	4,962.7	4,974.5	4,878.9	15.0	20.8	-24.19	-195.9	895.0	410.6	384.8	25.79	15.919		
5,100.0	5,061.7	5,074.2	4,976.3	15.3	21.3	-24.15	-201.4	915.5	418.2	391.9	26.35	15.875		

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)												Offset Site Error:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
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	5,160.7	5,173.9	5,073.7	15.6	21.7	-24.11	-206.9	936.0	425.9	399.0	26.90	15.833	
5,300.0	5,259.7	5,273.6	5,171.2	16.0	22.2	-24.07	-212.5	956.5	433.6	406.1	27.45	15.793	
5,400.0	5,358.7	5,373.3	5,268.6	16.3	22.7	-24.03	-218.0	977.0	441.3	413.2	28.01	15.754	
5,500.0	5,457.7	5,473.0	5,366.0	16.7	23.1	-24.00	-223.6	997.5	448.9	420.4	28.56	15.717	
5,600.0	5,556.7	5,572.7	5,463.4	17.0	23.6	-23.97	-229.1	1,018.0	456.6	427.5	29.12	15.681	
5,700.0	5,655.7	5,672.4	5,560.8	17.4	24.1	-23.93	-234.7	1,038.5	464.3	434.6	29.67	15.646	
5,800.0	5,754.7	5,772.1	5,658.2	17.7	24.6	-23.90	-240.2	1,059.0	471.9	441.7	30.23	15.613	
5,900.0	5,853.8	5,871.8	5,755.7	18.1	25.0	-23.87	-245.8	1,079.5	479.6	448.8	30.78	15.581	
6,000.0	5,952.8	5,971.5	5,853.1	18.4	25.5	-23.84	-251.3	1,100.0	487.3	456.0	31.34	15.550	
6,100.0	6,051.8	6,071.2	5,950.5	18.8	26.0	-23.81	-256.9	1,120.5	495.0	463.1	31.89	15.520	
6,200.0	6,150.8	6,170.9	6,047.9	19.1	26.4	-23.78	-262.4	1,141.0	502.6	470.2	32.45	15.491	
6,300.0	6,249.8	6,270.7	6,145.3	19.5	26.9	-23.76	-267.9	1,161.5	510.3	477.3	33.00	15.463	
6,400.0	6,348.8	6,370.4	6,242.7	19.8	27.4	-23.73	-273.5	1,182.0	518.0	484.4	33.56	15.436	
6,500.0	6,447.8	6,470.1	6,340.2	20.2	27.8	-23.71	-279.0	1,202.5	525.7	491.6	34.11	15.410	
6,600.0	6,546.8	6,569.8	6,437.6	20.5	28.3	-23.68	-284.6	1,223.0	533.3	498.7	34.67	15.385	
6,700.0	6,645.8	6,669.5	6,535.0	20.9	28.8	-23.66	-290.1	1,243.5	541.0	505.8	35.22	15.360	
6,800.0	6,744.8	6,769.2	6,632.4	21.2	29.3	-23.63	-295.7	1,264.0	548.7	512.9	35.78	15.337	
6,900.0	6,843.8	6,868.9	6,729.8	21.6	29.7	-23.61	-301.2	1,284.5	556.4	520.0	36.33	15.313	
7,000.0	6,942.8	6,968.6	6,827.2	21.9	30.2	-23.59	-306.8	1,305.0	564.0	527.2	36.89	15.291	
7,100.0	7,041.8	7,068.3	6,924.7	22.3	30.7	-23.57	-312.3	1,325.5	571.7	534.3	37.44	15.269	
7,200.0	7,140.6	7,167.9	7,022.0	22.6	31.1	-45.73	-317.8	1,346.0	579.4	541.4	37.97	15.262	
7,300.0	7,237.6	7,266.5	7,118.3	23.0	31.6	-65.27	-323.3	1,366.3	587.4	548.6	38.77	15.151	
7,400.0	7,331.0	7,364.2	7,213.7	23.5	32.1	-75.00	-329.3	1,386.4	596.5	556.5	39.93	14.937	
7,500.0	7,418.8	7,469.1	7,314.9	24.1	32.6	-81.28	-346.8	1,407.7	606.7	565.4	41.32	14.683	
7,600.0	7,499.4	7,579.7	7,417.5	24.7	33.1	-85.81	-381.3	1,429.4	617.8	574.9	42.86	14.414	
7,700.0	7,571.1	7,696.4	7,518.8	25.4	33.8	-89.33	-434.8	1,450.9	629.0	584.5	44.50	14.135	
7,800.0	7,632.7	7,819.7	7,615.1	26.2	34.6	-92.16	-508.8	1,471.4	639.8	593.6	46.22	13.844	
7,900.0	7,682.9	7,949.6	7,701.6	27.1	35.5	-94.41	-603.8	1,490.0	649.6	601.6	47.99	13.536	
8,000.0	7,720.6	8,085.8	7,772.6	28.1	36.6	-96.11	-718.7	1,505.4	657.7	607.8	49.83	13.197	
8,100.0	7,745.3	8,227.1	7,822.5	29.2	37.8	-97.25	-850.2	1,516.4	663.3	611.5	51.75	12.816	
8,200.0	7,756.4	8,371.7	7,846.3	30.4	39.1	-97.80	-992.5	1,521.9	666.1	612.3	53.78	12.384	
8,300.0	7,756.9	8,487.8	7,847.9	31.5	40.2	-97.85	-1,108.5	1,522.7	666.3	610.1	56.20	11.857	
8,400.0	7,756.7	8,587.8	7,847.6	32.8	41.2	-97.85	-1,208.5	1,523.0	666.3	607.3	59.03	11.288	
8,500.0	7,756.5	8,687.8	7,847.4	34.2	42.3	-97.85	-1,308.5	1,523.4	666.3	604.3	61.97	10.752	
8,600.0	7,756.3	8,787.8	7,847.2	35.6	43.5	-97.85	-1,408.5	1,523.7	666.3	601.3	65.01	10.250	
8,700.0	7,756.1	8,887.8	7,847.0	37.0	44.7	-97.85	-1,508.5	1,524.1	666.3	598.2	68.12	9.782	
8,800.0	7,755.9	8,987.8	7,846.8	38.5	46.0	-97.84	-1,608.5	1,524.4	666.3	595.0	71.29	9.346	
8,900.0	7,755.7	9,087.8	7,846.6	40.1	47.3	-97.84	-1,708.5	1,524.7	666.3	591.8	74.53	8.940	
9,000.0	7,755.5	9,187.8	7,846.4	41.6	48.6	-97.84	-1,808.5	1,525.1	666.3	588.5	77.81	8.562	
9,100.0	7,755.2	9,287.8	7,846.1	43.2	50.0	-97.84	-1,908.5	1,525.4	666.3	585.1	81.15	8.211	
9,200.0	7,755.0	9,387.8	7,845.9	44.8	51.4	-97.84	-2,008.5	1,525.7	666.3	581.8	84.52	7.883	
9,300.0	7,754.8	9,487.8	7,845.7	46.5	52.9	-97.84	-2,108.5	1,526.1	666.3	578.3	87.92	7.578	
9,400.0	7,754.6	9,587.8	7,845.5	48.1	54.4	-97.84	-2,208.5	1,526.4	666.3	574.9	91.36	7.293	
9,500.0	7,754.4	9,687.8	7,845.3	49.8	55.9	-97.84	-2,308.5	1,526.7	666.3	571.4	94.83	7.026	
9,600.0	7,754.2	9,787.8	7,845.1	51.5	57.4	-97.83	-2,408.5	1,527.1	666.3	567.9	98.32	6.777	
9,700.0	7,754.0	9,887.8	7,844.9	53.2	59.0	-97.83	-2,508.5	1,527.4	666.3	564.4	101.83	6.543	
9,800.0	7,753.8	9,987.8	7,844.6	54.9	60.6	-97.83	-2,608.5	1,527.7	666.3	560.9	105.36	6.324	
9,900.0	7,753.6	10,087.8	7,844.4	56.7	62.2	-97.83	-2,708.5	1,528.1	666.3	557.3	108.91	6.117	
10,000.0	7,753.4	10,187.8	7,844.2	58.4	63.8	-97.83	-2,808.5	1,528.4	666.2	553.8	112.48	5.923	
10,100.0	7,753.2	10,287.8	7,844.0	60.2	65.4	-97.83	-2,908.5	1,528.7	666.2	550.2	116.06	5.740	
10,200.0	7,753.0	10,387.8	7,843.8	61.9	67.1	-97.83	-3,008.5	1,529.1	666.2	546.6	119.66	5.568	
10,300.0	7,752.8	10,487.8	7,843.6	63.7	68.7	-97.83	-3,108.5	1,529.4	666.2	543.0	123.26	5.405	

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)												Offset Site Error:	0.0ft
Survey Program: 0-MWID												Offset Well Error:	0.0ft
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	10,587.8	7,843.3	65.5	70.4	-97.83	-3,208.5	1,529.7	666.2	539.4	126.88	5.251	
10,500.0	7,752.4	10,687.8	7,843.1	67.3	72.1	-97.82	-3,308.5	1,530.1	666.2	535.7	130.51	5.105	
10,600.0	7,752.2	10,787.8	7,842.9	69.1	73.8	-97.82	-3,408.5	1,530.4	666.2	532.1	134.15	4.966	
10,700.0	7,752.0	10,887.8	7,842.7	70.9	75.5	-97.82	-3,508.5	1,530.7	666.2	528.4	137.80	4.835	
10,800.0	7,751.8	10,987.8	7,842.5	72.7	77.2	-97.82	-3,608.5	1,531.1	666.2	524.8	141.46	4.710	
10,900.0	7,751.6	11,087.8	7,842.3	74.5	78.9	-97.82	-3,708.5	1,531.4	666.2	521.1	145.12	4.591	
11,000.0	7,751.4	11,187.8	7,842.1	76.3	80.7	-97.82	-3,808.5	1,531.7	666.2	517.4	148.79	4.478	
11,100.0	7,751.2	11,287.8	7,841.8	78.1	82.4	-97.82	-3,908.5	1,532.1	666.2	513.7	152.47	4.370	
11,200.0	7,751.0	11,387.8	7,841.6	80.0	84.2	-97.82	-4,008.5	1,532.4	666.2	510.1	156.15	4.266	
11,300.0	7,750.8	11,487.8	7,841.4	81.8	85.9	-97.82	-4,108.5	1,532.7	666.2	506.4	159.84	4.168	
11,400.0	7,750.6	11,587.8	7,841.2	83.6	87.7	-97.81	-4,208.5	1,533.1	666.2	502.7	163.53	4.074	
11,500.0	7,750.4	11,687.8	7,841.0	85.5	89.5	-97.81	-4,308.5	1,533.4	666.2	499.0	167.23	3.984	
11,600.0	7,750.2	11,787.8	7,840.8	87.3	91.2	-97.81	-4,408.4	1,533.7	666.2	495.3	170.93	3.897	
11,700.0	7,750.0	11,887.8	7,840.6	89.2	93.0	-97.81	-4,508.4	1,534.1	666.2	491.6	174.64	3.815	
11,800.0	7,749.8	11,987.8	7,840.3	91.0	94.8	-97.81	-4,608.4	1,534.4	666.2	487.8	178.35	3.735	
11,900.0	7,749.6	12,087.8	7,840.1	92.9	96.6	-97.81	-4,708.4	1,534.7	666.2	484.1	182.07	3.659	
12,000.0	7,749.4	12,187.8	7,839.9	94.7	98.4	-97.81	-4,808.4	1,535.1	666.2	480.4	185.79	3.586	
12,100.0	7,749.2	12,287.8	7,839.7	96.6	100.2	-97.81	-4,908.4	1,535.4	666.2	476.7	189.51	3.515	
12,200.0	7,749.0	12,387.8	7,839.5	98.4	102.0	-97.81	-5,008.4	1,535.7	666.2	472.9	193.23	3.448	
12,300.0	7,748.8	12,487.8	7,839.3	100.3	103.8	-97.80	-5,108.4	1,536.1	666.2	469.2	196.96	3.382	
12,400.0	7,748.6	12,587.8	7,839.0	102.1	105.6	-97.80	-5,208.4	1,536.4	666.2	465.5	200.69	3.319	
12,500.0	7,748.4	12,687.8	7,838.8	104.0	107.5	-97.80	-5,308.4	1,536.7	666.2	461.7	204.42	3.259	
12,600.0	7,748.2	12,787.8	7,838.6	105.9	109.3	-97.80	-5,408.4	1,537.1	666.2	458.0	208.16	3.200	
12,700.0	7,748.0	12,887.8	7,838.4	107.7	111.1	-97.80	-5,508.4	1,537.4	666.2	454.3	211.90	3.144	
12,800.0	7,747.8	12,987.8	7,838.2	109.6	112.9	-97.80	-5,608.4	1,537.7	666.2	450.5	215.64	3.089	
12,900.0	7,747.6	13,087.8	7,838.0	111.5	114.8	-97.80	-5,708.4	1,538.1	666.2	446.8	219.38	3.037	
13,000.0	7,747.4	13,187.8	7,837.8	113.4	116.6	-97.80	-5,808.4	1,538.4	666.2	443.0	223.13	2.986	
13,100.0	7,747.2	13,287.8	7,837.5	115.2	118.4	-97.80	-5,908.4	1,538.7	666.1	439.3	226.87	2.936	
13,200.0	7,747.0	13,387.8	7,837.3	117.1	120.3	-97.79	-6,008.4	1,539.1	666.1	435.5	230.62	2.888	
13,300.0	7,746.8	13,487.8	7,837.1	119.0	122.1	-97.79	-6,108.4	1,539.4	666.1	431.8	234.37	2.842	
13,400.0	7,746.6	13,587.8	7,836.9	120.9	124.0	-97.79	-6,208.4	1,539.7	666.1	428.0	238.12	2.797	
13,500.0	7,746.4	13,687.8	7,836.7	122.7	125.8	-97.79	-6,308.4	1,540.1	666.1	424.3	241.88	2.754	
13,600.0	7,746.2	13,787.8	7,836.5	124.6	127.6	-97.79	-6,408.4	1,540.4	666.1	420.5	245.63	2.712	
13,700.0	7,746.0	13,887.8	7,836.3	126.5	129.5	-97.79	-6,508.4	1,540.7	666.1	416.7	249.39	2.671	
13,800.0	7,745.8	13,987.8	7,836.0	128.4	131.3	-97.79	-6,608.4	1,541.1	666.1	413.0	253.15	2.631	
13,900.0	7,745.6	14,087.8	7,835.8	130.3	133.2	-97.79	-6,708.4	1,541.4	666.1	409.2	256.91	2.593	
14,000.0	7,745.4	14,187.8	7,835.6	132.2	135.1	-97.79	-6,808.4	1,541.7	666.1	405.5	260.67	2.555	
14,100.0	7,745.2	14,287.8	7,835.4	134.0	136.9	-97.78	-6,908.4	1,542.1	666.1	401.7	264.43	2.519	
14,200.0	7,745.0	14,387.8	7,835.2	135.9	138.8	-97.78	-7,008.4	1,542.4	666.1	397.9	268.19	2.484	
14,300.0	7,744.8	14,487.8	7,835.0	137.8	140.6	-97.78	-7,108.4	1,542.7	666.1	394.2	271.95	2.449	
14,400.0	7,744.6	14,587.8	7,834.7	139.7	142.5	-97.78	-7,208.4	1,543.1	666.1	390.4	275.72	2.416	
14,500.0	7,744.4	14,687.8	7,834.5	141.6	144.4	-97.78	-7,308.4	1,543.4	666.1	386.6	279.49	2.383	
14,600.0	7,744.2	14,787.8	7,834.3	143.5	146.2	-97.78	-7,408.4	1,543.7	666.1	382.8	283.25	2.352	
14,700.0	7,744.0	14,887.8	7,834.1	145.4	148.1	-97.78	-7,508.4	1,544.1	666.1	379.1	287.02	2.321	
14,800.0	7,743.8	14,987.8	7,833.9	147.3	149.9	-97.78	-7,608.4	1,544.4	666.1	375.3	290.79	2.291	
14,900.0	7,743.6	15,087.8	7,833.7	149.1	151.8	-97.78	-7,708.4	1,544.7	666.1	371.5	294.56	2.261	
15,000.0	7,743.4	15,187.8	7,833.5	151.0	153.7	-97.77	-7,808.4	1,545.1	666.1	367.8	298.33	2.233	
15,100.0	7,743.2	15,287.8	7,833.2	152.9	155.6	-97.77	-7,908.4	1,545.4	666.1	364.0	302.10	2.205	
15,200.0	7,742.9	15,387.8	7,833.0	154.8	157.4	-97.77	-8,008.4	1,545.7	666.1	360.2	305.87	2.178	
15,300.0	7,742.7	15,487.8	7,832.8	156.7	159.3	-97.77	-8,108.4	1,546.1	666.1	356.4	309.65	2.151	
15,400.0	7,742.5	15,587.8	7,832.6	158.6	161.2	-97.77	-8,208.4	1,546.4	666.1	352.7	313.42	2.125	
15,500.0	7,742.3	15,687.8	7,832.4	160.5	163.0	-97.77	-8,308.4	1,546.7	666.1	348.9	317.19	2.100	

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)												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	15,787.8	7,832.2	162.4	164.9	-97.77	-8,408.4	1,547.1	666.1	345.1	320.97	2.075	
15,670.8	7,742.0	15,858.6	7,832.0	163.5	166.3	-97.77	-8,479.2	1,547.3	666.1	342.7	323.39	2.060 SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)													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)	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	22.79	55.4	23.3	60.1				
100.0	100.0	100.0	100.0	0.1	0.1	22.79	55.4	23.3	60.1	59.8	0.22	267.191	
200.0	200.0	200.0	200.0	0.3	0.3	22.79	55.4	23.3	60.1	59.4	0.67	89.064 CC	
300.0	300.0	299.6	299.6	0.6	0.5	24.41	55.0	24.9	60.4	59.3	1.11	54.334 ES	
400.0	400.0	399.0	398.8	0.8	0.8	29.13	53.8	30.0	61.6	60.1	1.56	39.621	
500.0	500.0	497.9	497.3	1.0	1.0	36.46	51.9	38.3	64.6	62.6	2.01	32.143	
600.0	600.0	596.0	594.8	1.2	1.3	45.39	49.2	49.9	70.3	67.8	2.47	28.468	
700.0	700.0	693.3	690.9	1.5	1.6	54.61	45.8	64.5	79.7	76.8	2.94	27.072	
800.0	800.0	789.4	785.3	1.7	2.0	63.04	41.8	82.1	93.3	89.9	3.45	27.037	
900.0	900.0	884.2	877.7	1.9	2.4	70.11	37.1	102.5	111.3	107.2	4.01	27.755	
1,000.0	1,000.0	979.4	970.0	2.1	2.9	75.80	31.8	125.6	133.0	128.3	4.62	28.761	
1,100.0	1,100.0	1,076.6	1,064.0	2.3	3.4	-32.97	26.3	149.4	154.5	149.5	4.98	31.009	
1,200.0	1,199.8	1,174.5	1,158.8	2.5	3.9	-30.44	20.7	173.5	173.7	168.2	5.44	31.941	
1,300.0	1,299.5	1,273.1	1,254.1	2.7	4.4	-28.92	15.1	197.8	190.0	184.1	5.91	32.156	
1,400.0	1,398.7	1,372.2	1,350.0	3.0	4.9	-28.11	9.5	222.1	203.4	197.0	6.40	31.761	
1,500.0	1,497.7	1,471.5	1,446.1	3.2	5.5	-27.74	3.9	246.5	215.1	208.2	6.93	31.057	
1,600.0	1,596.7	1,570.8	1,542.2	3.5	6.0	-27.43	-1.8	270.9	226.9	219.4	7.46	30.416	
1,700.0	1,695.7	1,670.1	1,638.2	3.8	6.5	-27.14	-7.4	295.4	238.6	230.6	8.00	29.839	
1,800.0	1,794.7	1,769.4	1,734.3	4.1	7.1	-26.88	-13.0	319.8	250.3	241.8	8.54	29.318	
1,900.0	1,893.7	1,868.7	1,830.4	4.4	7.6	-26.64	-18.7	344.2	262.1	253.0	9.08	28.848	
2,000.0	1,992.7	1,968.0	1,926.5	4.7	8.1	-26.42	-24.3	368.6	273.8	264.2	9.63	28.422	
2,100.0	2,091.7	2,067.3	2,022.6	5.0	8.7	-26.22	-29.9	393.0	285.6	275.4	10.19	28.035	
2,200.0	2,190.7	2,166.6	2,118.7	5.4	9.2	-26.04	-35.6	417.4	297.3	286.6	10.74	27.683	
2,300.0	2,289.7	2,265.9	2,214.8	5.7	9.7	-25.87	-41.2	441.9	309.1	297.8	11.30	27.362	
2,400.0	2,388.7	2,365.2	2,310.9	6.0	10.3	-25.71	-46.8	466.3	320.9	309.0	11.85	27.068	
2,500.0	2,487.7	2,464.5	2,407.0	6.4	10.8	-25.57	-52.5	490.7	332.6	320.2	12.41	26.797	
2,600.0	2,586.7	2,563.8	2,503.1	6.7	11.4	-25.43	-58.1	515.1	344.4	331.4	12.97	26.548	
2,700.0	2,685.7	2,663.1	2,599.1	7.0	11.9	-25.30	-63.7	539.5	356.2	342.6	13.53	26.318	
2,800.0	2,784.7	2,762.4	2,695.2	7.4	12.4	-25.18	-69.4	563.9	367.9	353.8	14.09	26.105	
2,900.0	2,883.7	2,861.7	2,791.3	7.7	13.0	-25.07	-75.0	588.3	379.7	365.0	14.66	25.907	
3,000.0	2,982.7	2,961.0	2,887.4	8.0	13.5	-24.97	-80.6	612.8	391.5	376.2	15.22	25.723	
3,100.0	3,081.7	3,060.3	2,983.5	8.4	14.1	-24.87	-86.2	637.2	403.2	387.5	15.78	25.552	
3,200.0	3,180.7	3,159.6	3,079.6	8.7	14.6	-24.78	-91.9	661.6	415.0	398.7	16.34	25.391	
3,300.0	3,279.7	3,258.9	3,175.7	9.1	15.1	-24.69	-97.5	686.0	426.8	409.9	16.91	25.241	
3,400.0	3,378.7	3,358.2	3,271.8	9.4	15.7	-24.60	-103.1	710.4	438.6	421.1	17.47	25.100	
3,500.0	3,477.7	3,457.5	3,367.9	9.7	16.2	-24.53	-108.8	734.8	450.3	432.3	18.04	24.967	
3,600.0	3,576.7	3,556.8	3,463.9	10.1	16.8	-24.45	-114.4	759.2	462.1	443.5	18.60	24.843	
3,700.0	3,675.7	3,656.1	3,560.0	10.4	17.3	-24.38	-120.0	783.7	473.9	454.7	19.17	24.725	
3,800.0	3,774.7	3,755.4	3,656.1	10.8	17.8	-24.31	-125.7	808.1	485.7	465.9	19.73	24.613	
3,900.0	3,873.7	3,854.7	3,752.2	11.1	18.4	-24.25	-131.3	832.5	497.5	477.2	20.30	24.508	
4,000.0	3,972.7	3,954.0	3,848.3	11.5	18.9	-24.19	-136.9	856.9	509.2	488.4	20.86	24.408	
4,100.0	4,071.7	4,053.3	3,944.4	11.8	19.5	-24.13	-142.6	881.3	521.0	499.6	21.43	24.314	
4,200.0	4,170.7	4,152.6	4,040.5	12.2	20.0	-24.07	-148.2	905.7	532.8	510.8	21.99	24.224	
4,300.0	4,269.7	4,251.9	4,136.6	12.5	20.6	-24.02	-153.8	930.2	544.6	522.0	22.56	24.138	
4,400.0	4,368.7	4,351.2	4,232.7	12.9	21.1	-23.97	-159.5	954.6	556.4	533.2	23.13	24.057	
4,500.0	4,467.7	4,450.5	4,328.7	13.2	21.6	-23.92	-165.1	979.0	568.1	544.4	23.69	23.979	
4,600.0	4,566.7	4,549.8	4,424.8	13.6	22.2	-23.87	-170.7	1,003.4	579.9	555.7	24.26	23.905	
4,700.0	4,665.7	4,649.1	4,520.9	13.9	22.7	-23.82	-176.4	1,027.8	591.7	566.9	24.83	23.834	
4,800.0	4,764.7	4,748.4	4,617.0	14.3	23.3	-23.78	-182.0	1,052.2	603.5	578.1	25.39	23.766	
4,900.0	4,863.7	4,847.7	4,713.1	14.6	23.8	-23.74	-187.6	1,076.6	615.3	589.3	25.96	23.702	
5,000.0	4,962.7	4,947.0	4,809.2	15.0	24.3	-23.70	-193.3	1,101.1	627.1	600.5	26.53	23.639	
5,100.0	5,061.7	5,046.3	4,905.3	15.3	24.9	-23.66	-198.9	1,125.5	638.8	611.8	27.09	23.580	

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)												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	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)		
5,200.0	5,160.7	5,145.6	5,001.4	15.6	25.4	-23.62	-204.5	1,149.9	650.6	623.0	27.66	23.523	
5,300.0	5,259.7	5,245.0	5,097.5	16.0	26.0	-23.59	-210.2	1,174.3	662.4	634.2	28.23	23.468	
5,400.0	5,358.7	5,344.3	5,193.5	16.3	26.5	-23.55	-215.8	1,198.7	674.2	645.4	28.79	23.415	
5,500.0	5,457.7	5,443.6	5,289.6	16.7	27.1	-23.52	-221.4	1,223.1	686.0	656.6	29.36	23.364	
5,600.0	5,556.7	5,542.9	5,385.7	17.0	27.6	-23.48	-227.0	1,247.6	697.8	667.8	29.93	23.315	
5,700.0	5,655.7	5,642.2	5,481.8	17.4	28.1	-23.45	-232.7	1,272.0	709.6	679.1	30.50	23.268	
5,800.0	5,754.7	5,741.5	5,577.9	17.7	28.7	-23.42	-238.3	1,296.4	721.3	690.3	31.06	23.222	
5,900.0	5,853.8	5,840.8	5,674.0	18.1	29.2	-23.39	-243.9	1,320.8	733.1	701.5	31.63	23.178	
6,000.0	5,952.8	5,940.1	5,770.1	18.4	29.8	-23.36	-249.6	1,345.2	744.9	712.7	32.20	23.136	
6,100.0	6,051.8	6,039.4	5,866.2	18.8	30.3	-23.34	-255.2	1,369.6	756.7	723.9	32.77	23.095	
6,200.0	6,150.8	6,138.7	5,962.3	19.1	30.8	-23.31	-260.8	1,394.0	768.5	735.2	33.33	23.055	
6,300.0	6,249.8	6,238.0	6,058.3	19.5	31.4	-23.28	-266.5	1,418.5	780.3	746.4	33.90	23.017	
6,400.0	6,348.8	6,337.3	6,154.4	19.8	31.9	-23.26	-272.1	1,442.9	792.1	757.6	34.47	22.980	
6,500.0	6,447.8	6,436.6	6,250.5	20.2	32.5	-23.23	-277.7	1,467.3	803.9	768.8	35.04	22.944	
6,600.0	6,546.8	6,535.9	6,346.6	20.5	33.0	-23.21	-283.4	1,491.7	815.6	780.0	35.60	22.910	
6,700.0	6,645.8	6,635.2	6,442.7	20.9	33.5	-23.19	-289.0	1,516.1	827.4	791.3	36.17	22.876	
6,800.0	6,744.8	6,734.5	6,538.8	21.2	34.1	-23.16	-294.6	1,540.5	839.2	802.5	36.74	22.843	
6,900.0	6,843.8	6,833.8	6,634.9	21.6	34.6	-23.14	-300.3	1,564.9	851.0	813.7	37.31	22.812	
7,000.0	6,942.8	6,933.1	6,731.0	21.9	35.2	-23.12	-305.9	1,589.4	862.8	824.9	37.87	22.781	
7,100.0	7,041.8	7,032.4	6,827.1	22.3	35.7	-23.10	-311.5	1,613.8	874.6	836.1	38.44	22.751	
7,200.0	7,140.6	7,131.6	6,923.1	22.6	36.3	-23.08	-317.2	1,638.2	886.4	847.5	38.91	22.722	
7,300.0	7,239.6	7,229.8	7,018.1	23.0	36.8	-23.06	-322.7	1,662.3	898.2	858.7	39.53	22.721	
7,400.0	7,331.0	7,325.7	7,110.9	23.5	37.3	-23.04	-328.2	1,685.9	910.5	870.1	40.44	22.516	
7,500.0	7,418.8	7,429.5	7,210.4	24.1	37.9	-23.02	-342.8	1,711.2	923.5	881.9	41.60	22.199	
7,600.0	7,499.4	7,539.3	7,312.3	24.7	38.5	-23.03	-374.1	1,737.2	936.7	893.7	42.98	21.796	
7,700.0	7,571.1	7,656.0	7,414.1	25.4	39.2	-23.07	-424.6	1,763.2	949.6	905.0	44.57	21.303	
7,800.0	7,632.7	7,780.2	7,512.1	26.2	40.0	-23.07	-496.3	1,788.4	961.6	915.2	46.41	20.722	
7,900.0	7,682.9	7,912.2	7,601.5	27.1	40.9	-23.04	-590.4	1,811.4	972.3	923.9	48.46	20.063	
8,000.0	7,720.6	8,051.7	7,676.0	28.1	42.0	-23.06	-706.4	1,830.8	981.0	930.3	50.74	19.335	
8,100.0	7,745.3	8,197.5	7,729.1	29.2	43.1	-23.05	-841.2	1,844.8	987.0	933.8	53.21	18.549	
8,200.0	7,756.4	8,347.5	7,755.1	30.4	44.3	-23.06	-988.5	1,852.0	990.0	934.1	55.85	17.726	
8,300.0	7,756.9	8,466.2	7,756.9	31.5	45.3	-23.00	-1,107.2	1,852.9	990.2	931.8	58.45	16.941	
8,400.0	7,756.7	8,566.2	7,756.7	32.8	46.2	-23.00	-1,207.2	1,853.2	990.2	929.0	61.26	16.164	
8,500.0	7,756.5	8,666.2	7,756.5	34.2	47.2	-23.00	-1,307.2	1,853.5	990.2	926.0	64.21	15.421	
8,600.0	7,756.3	8,766.2	7,756.3	35.6	48.3	-23.00	-1,407.2	1,853.9	990.2	923.0	67.25	14.724	
8,700.0	7,756.1	8,866.2	7,756.1	37.0	49.3	-23.00	-1,507.2	1,854.2	990.2	919.8	70.37	14.072	
8,800.0	7,755.9	8,966.2	7,755.9	38.5	50.5	-23.00	-1,607.2	1,854.5	990.2	916.7	73.55	13.463	
8,900.0	7,755.7	9,066.2	7,755.7	40.1	51.7	-23.00	-1,707.2	1,854.9	990.2	913.4	76.79	12.895	
9,000.0	7,755.5	9,166.2	7,755.5	41.6	52.9	-23.00	-1,807.2	1,855.2	990.2	910.1	80.09	12.364	
9,100.0	7,755.2	9,266.2	7,755.3	43.2	54.2	-23.00	-1,907.2	1,855.5	990.2	906.8	83.43	11.869	
9,200.0	7,755.0	9,366.2	7,755.1	44.8	55.5	-23.00	-2,007.2	1,855.9	990.2	903.4	86.81	11.407	
9,300.0	7,754.8	9,466.2	7,754.9	46.5	56.8	-23.00	-2,107.2	1,856.2	990.2	900.0	90.22	10.975	
9,400.0	7,754.6	9,566.2	7,754.7	48.1	58.2	-23.00	-2,207.2	1,856.5	990.2	896.5	93.67	10.571	
9,500.0	7,754.4	9,666.2	7,754.5	49.8	59.6	-23.00	-2,307.2	1,856.9	990.2	893.0	97.15	10.192	
9,600.0	7,754.2	9,766.2	7,754.3	51.5	61.1	-23.00	-2,407.2	1,857.2	990.2	889.5	100.65	9.837	
9,700.0	7,754.0	9,866.2	7,754.1	53.2	62.5	-23.00	-2,507.2	1,857.5	990.2	886.0	104.18	9.504	
9,800.0	7,753.8	9,966.2	7,753.9	54.9	64.0	-23.00	-2,607.2	1,857.8	990.2	882.4	107.73	9.191	
9,900.0	7,753.6	10,066.2	7,753.6	56.7	65.5	-23.00	-2,707.2	1,858.2	990.2	878.9	111.29	8.897	
10,000.0	7,753.4	10,166.2	7,753.4	58.4	67.0	-23.00	-2,807.2	1,858.5	990.2	875.3	114.88	8.619	
10,100.0	7,753.2	10,266.2	7,753.2	60.2	68.6	-23.00	-2,907.2	1,858.8	990.2	871.7	118.47	8.358	
10,200.0	7,753.0	10,366.2	7,753.0	61.9	70.2	-23.00	-3,007.2	1,859.2	990.2	868.1	122.09	8.110	
10,300.0	7,752.8	10,466.2	7,752.8	63.7	71.8	-23.00	-3,107.2	1,859.5	990.1	864.4	125.71	7.876	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)												Offset Site Error:	0.0 ft
Survey Program: 0-MWID												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	10,566.2	7,752.6	65.5	73.4	-90.00	-3,207.2	1,859.8	990.1	860.8	129.35	7.655	
10,500.0	7,752.4	10,666.2	7,752.4	67.3	75.0	-90.00	-3,307.2	1,860.2	990.1	857.1	133.00	7.445	
10,600.0	7,752.2	10,766.2	7,752.2	69.1	76.6	-90.00	-3,407.2	1,860.5	990.1	853.5	136.66	7.245	
10,700.0	7,752.0	10,866.2	7,752.0	70.9	78.3	-90.00	-3,507.2	1,860.8	990.1	849.8	140.33	7.056	
10,800.0	7,751.8	10,966.2	7,751.8	72.7	79.9	-90.00	-3,607.2	1,861.2	990.1	846.1	144.00	6.876	
10,900.0	7,751.6	11,066.2	7,751.6	74.5	81.6	-90.00	-3,707.2	1,861.5	990.1	842.4	147.69	6.704	
11,000.0	7,751.4	11,166.2	7,751.4	76.3	83.3	-90.00	-3,807.2	1,861.8	990.1	838.7	151.38	6.541	
11,100.0	7,751.2	11,266.2	7,751.2	78.1	84.9	-90.00	-3,907.2	1,862.2	990.1	835.0	155.08	6.385	
11,200.0	7,751.0	11,366.2	7,751.0	80.0	86.6	-90.00	-4,007.2	1,862.5	990.1	831.3	158.78	6.236	
11,300.0	7,750.8	11,466.2	7,750.8	81.8	88.4	-90.00	-4,107.2	1,862.8	990.1	827.6	162.49	6.093	
11,400.0	7,750.6	11,566.2	7,750.6	83.6	90.1	-90.00	-4,207.2	1,863.1	990.1	823.9	166.21	5.957	
11,500.0	7,750.4	11,666.2	7,750.4	85.5	91.8	-90.00	-4,307.2	1,863.5	990.1	820.2	169.93	5.827	
11,600.0	7,750.2	11,766.2	7,750.2	87.3	93.5	-90.00	-4,407.2	1,863.8	990.1	816.4	173.65	5.702	
11,700.0	7,750.0	11,866.2	7,750.0	89.2	95.3	-90.00	-4,507.2	1,864.1	990.1	812.7	177.38	5.582	
11,800.0	7,749.8	11,966.2	7,749.8	91.0	97.0	-90.00	-4,607.2	1,864.5	990.1	809.0	181.12	5.466	
11,900.0	7,749.6	12,066.2	7,749.6	92.9	98.8	-90.00	-4,707.2	1,864.8	990.1	805.2	184.86	5.356	
12,000.0	7,749.4	12,166.2	7,749.4	94.7	100.5	-90.00	-4,807.2	1,865.1	990.1	801.5	188.60	5.250	
12,100.0	7,749.2	12,266.2	7,749.2	96.6	102.3	-90.00	-4,907.2	1,865.5	990.1	797.7	192.35	5.147	
12,200.0	7,749.0	12,366.2	7,749.0	98.4	104.1	-90.00	-5,007.2	1,865.8	990.1	794.0	196.10	5.049	
12,300.0	7,748.8	12,466.2	7,748.8	100.3	105.8	-90.00	-5,107.2	1,866.1	990.1	790.2	199.85	4.954	
12,400.0	7,748.6	12,566.2	7,748.6	102.1	107.6	-90.00	-5,207.2	1,866.5	990.1	786.5	203.60	4.863	
12,500.0	7,748.4	12,666.2	7,748.4	104.0	109.4	-90.00	-5,307.2	1,866.8	990.1	782.7	207.36	4.775	
12,600.0	7,748.2	12,766.2	7,748.2	105.9	111.2	-90.00	-5,407.2	1,867.1	990.1	778.9	211.12	4.689	
12,700.0	7,748.0	12,866.2	7,748.0	107.7	113.0	-90.00	-5,507.2	1,867.5	990.1	775.2	214.89	4.607	
12,800.0	7,747.8	12,966.2	7,747.8	109.6	114.8	-90.00	-5,607.2	1,867.8	990.0	771.4	218.65	4.528	
12,900.0	7,747.6	13,066.2	7,747.6	111.5	116.6	-90.00	-5,707.2	1,868.1	990.0	767.6	222.42	4.451	
13,000.0	7,747.4	13,166.2	7,747.4	113.4	118.4	-90.00	-5,807.2	1,868.4	990.0	763.9	226.19	4.377	
13,100.0	7,747.2	13,266.2	7,747.2	115.2	120.2	-90.00	-5,907.2	1,868.8	990.0	760.1	229.96	4.305	
13,200.0	7,747.0	13,366.2	7,747.0	117.1	122.0	-90.00	-6,007.2	1,869.1	990.0	756.3	233.74	4.236	
13,300.0	7,746.8	13,466.2	7,746.8	119.0	123.8	-90.00	-6,107.2	1,869.4	990.0	752.5	237.51	4.168	
13,400.0	7,746.6	13,566.2	7,746.6	120.9	125.7	-90.00	-6,207.2	1,869.8	990.0	748.7	241.29	4.103	
13,500.0	7,746.4	13,666.2	7,746.4	122.7	127.5	-90.00	-6,307.2	1,870.1	990.0	745.0	245.07	4.040	
13,600.0	7,746.2	13,766.2	7,746.2	124.6	129.3	-90.00	-6,407.2	1,870.4	990.0	741.2	248.85	3.978	
13,700.0	7,746.0	13,866.2	7,746.0	126.5	131.1	-90.00	-6,507.2	1,870.8	990.0	737.4	252.63	3.919	
13,800.0	7,745.8	13,966.2	7,745.8	128.4	133.0	-90.00	-6,607.2	1,871.1	990.0	733.6	256.42	3.861	
13,900.0	7,745.6	14,066.2	7,745.6	130.3	134.8	-90.00	-6,707.2	1,871.4	990.0	729.8	260.20	3.805	
14,000.0	7,745.4	14,166.2	7,745.4	132.2	136.6	-90.00	-6,807.2	1,871.8	990.0	726.0	263.99	3.750	
14,100.0	7,745.2	14,266.2	7,745.2	134.0	138.5	-90.00	-6,907.2	1,872.1	990.0	722.2	267.78	3.697	
14,200.0	7,745.0	14,366.2	7,745.0	135.9	140.3	-90.00	-7,007.2	1,872.4	990.0	718.4	271.57	3.645	
14,300.0	7,744.8	14,466.2	7,744.8	137.8	142.1	-90.00	-7,107.2	1,872.8	990.0	714.6	275.36	3.595	
14,400.0	7,744.6	14,566.2	7,744.6	139.7	144.0	-90.00	-7,207.2	1,873.1	990.0	710.8	279.15	3.546	
14,500.0	7,744.4	14,666.2	7,744.4	141.6	145.8	-90.00	-7,307.2	1,873.4	990.0	707.0	282.94	3.499	
14,600.0	7,744.2	14,766.2	7,744.2	143.5	147.7	-90.00	-7,407.2	1,873.7	990.0	703.2	286.74	3.453	
14,700.0	7,744.0	14,866.2	7,744.0	145.4	149.5	-90.00	-7,507.2	1,874.1	990.0	699.4	290.53	3.407	
14,800.0	7,743.8	14,966.2	7,743.8	147.3	151.4	-90.00	-7,607.2	1,874.4	990.0	695.6	294.33	3.364	
14,900.0	7,743.6	15,066.2	7,743.6	149.1	153.2	-90.00	-7,707.2	1,874.7	990.0	691.8	298.12	3.321	
15,000.0	7,743.4	15,166.2	7,743.4	151.0	155.1	-90.00	-7,807.2	1,875.1	990.0	688.0	301.92	3.279	
15,100.0	7,743.2	15,266.2	7,743.2	152.9	156.9	-90.00	-7,907.2	1,875.4	990.0	684.2	305.72	3.238	
15,200.0	7,742.9	15,366.2	7,743.0	154.8	158.8	-90.00	-8,007.2	1,875.7	990.0	680.4	309.52	3.198	
15,300.0	7,742.7	15,466.2	7,742.8	156.7	160.6	-90.00	-8,107.2	1,876.1	990.0	676.6	313.32	3.160	
15,400.0	7,742.5	15,566.2	7,742.6	158.6	162.5	-90.00	-8,207.2	1,876.4	989.9	672.8	317.12	3.122	
15,500.0	7,742.3	15,666.2	7,742.4	160.5	164.4	-90.00	-8,307.1	1,876.7	989.9	669.0	320.92	3.085	

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 M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)												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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,600.0	7,742.1	15,766.2	7,742.2	162.4	166.2	-90.00	-8,407.1	1,877.1	989.9	665.2	324.72	3.049	
15,670.8	7,742.0	15,837.1	7,742.0	163.5	167.5	-90.00	-8,478.0	1,877.3	989.9	662.9	327.03	3.027 SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design North Washington Pad SEC.23-T1S-R68W - North Washington 1-23 (Exist.) - Wellbore #1 North Washi												Offset Site Error:	0.0 ft
Survey Program: 415-												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
13,100.0	7,747.2	8,189.6	7,862.2	115.2	39.9	-99.33	-6,752.9	1,333.0	959.9	810.0	149.85	6.406	
13,200.0	7,747.0	8,179.3	7,851.9	117.1	39.9	-98.07	-6,754.1	1,332.5	873.2	721.0	152.22	5.737	
13,300.0	7,746.8	8,168.8	7,841.5	119.0	39.9	-96.77	-6,755.3	1,332.0	789.5	635.0	154.55	5.109	
13,400.0	7,746.6	8,158.0	7,830.8	120.9	39.9	-95.44	-6,756.5	1,331.4	709.9	553.1	156.82	4.527	
13,500.0	7,746.4	8,146.9	7,819.9	122.7	39.8	-94.06	-6,757.8	1,330.9	635.9	476.8	159.04	3.998	
13,600.0	7,746.2	8,135.7	7,808.7	124.6	39.8	-92.64	-6,759.2	1,330.3	569.6	408.4	161.19	3.534	
13,700.0	7,746.0	8,124.1	7,797.2	126.5	39.8	-91.18	-6,760.6	1,329.8	514.1	350.8	163.27	3.149	
13,800.0	7,745.8	8,112.3	7,785.5	128.4	39.7	-89.68	-6,762.0	1,329.2	473.1	307.8	165.25	2.863	
13,900.0	7,745.6	8,100.0	7,773.3	130.3	39.7	-88.12	-6,763.5	1,328.6	450.6	283.4	167.13	2.696	
13,955.5	7,745.5	8,093.0	7,766.4	131.3	39.7	-87.23	-6,764.4	1,328.3	447.2	279.1	168.13	2.660	CC, ES, SF
14,000.0	7,745.4	8,087.4	7,760.8	132.2	39.6	-86.51	-6,765.1	1,328.0	449.4	280.5	168.89	2.661	
14,100.0	7,745.2	8,074.5	7,748.0	134.0	39.6	-84.88	-6,766.7	1,327.4	469.6	299.1	170.53	2.754	
14,200.0	7,745.0	8,061.4	7,735.1	135.9	39.6	-83.23	-6,768.4	1,326.8	508.7	336.7	172.04	2.957	
14,300.0	7,744.8	8,048.2	7,722.0	137.8	39.5	-81.56	-6,770.1	1,326.2	562.8	389.4	173.40	3.246	
14,400.0	7,744.6	8,034.7	7,708.6	139.7	39.5	-79.87	-6,771.8	1,325.5	627.9	453.3	174.61	3.596	
14,500.0	7,744.4	8,021.0	7,695.0	141.6	39.4	-78.16	-6,773.6	1,324.9	701.1	525.4	175.66	3.991	
14,600.0	7,744.2	8,007.2	7,681.4	143.5	39.4	-76.46	-6,775.4	1,324.2	780.0	603.4	176.56	4.417	
14,700.0	7,744.0	7,993.2	7,667.5	145.4	39.4	-74.76	-6,777.2	1,323.5	863.0	685.7	177.31	4.867	
14,800.0	7,743.8	7,979.0	7,653.4	147.3	39.3	-73.05	-6,779.1	1,322.9	949.2	771.3	177.88	5.336	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

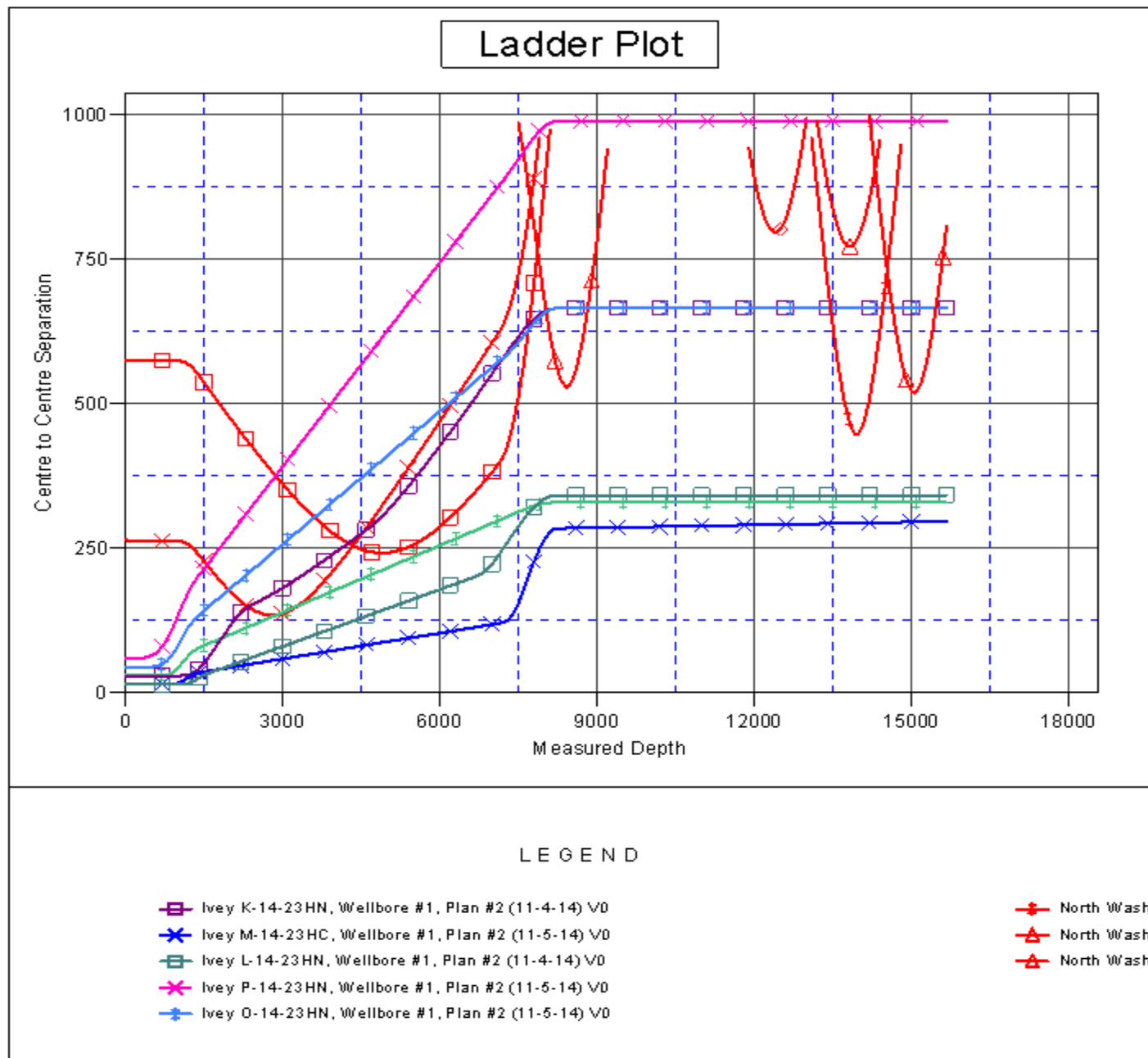
Offset Design												Offset Site Error:	0.0 ft
Survey Program: 186- North Washington Pad SEC.23-T1S-R68W - North Washington 2-23 (Exist.) - North Washington 2-23 -												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured 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
13,200.0	7,747.0	8,188.5	7,870.0	117.1		96.01	-6,623.4	105.4	990.3	874.5	115.81	8.551	
13,300.0	7,746.8	8,169.1	7,850.9	119.0		94.62	-6,626.7	106.0	931.9	814.0	117.87	7.906	
13,400.0	7,746.6	8,150.3	7,832.4	120.9		93.26	-6,629.8	106.7	880.6	760.7	119.86	7.346	
13,500.0	7,746.4	8,132.1	7,814.4	122.7		91.94	-6,632.8	107.3	837.7	715.9	121.81	6.877	
13,600.0	7,746.2	8,114.4	7,797.0	124.6		90.65	-6,635.7	108.0	804.7	681.0	123.70	6.505	
13,700.0	7,746.0	8,097.7	7,780.4	126.5		89.42	-6,638.4	108.6	782.7	657.2	125.54	6.235	
13,800.0	7,745.8	8,081.5	7,764.5	128.4		88.24	-6,641.0	109.2	772.9	645.5	127.34	6.069	
13,828.8	7,745.7	8,076.9	7,759.9	128.9		87.90	-6,641.7	109.4	772.3	644.5	127.85	6.041 CC, ES	
13,900.0	7,745.6	8,065.5	7,748.7	130.3		87.07	-6,643.5	109.8	775.5	646.4	129.09	6.008 SF	
14,000.0	7,745.4	8,049.8	7,733.2	132.2		85.92	-6,646.0	110.4	790.6	659.8	130.80	6.045	
14,100.0	7,745.2	8,034.3	7,717.9	134.0		84.79	-6,648.4	110.9	817.5	685.0	132.46	6.171	
14,200.0	7,745.0	8,019.0	7,702.8	135.9		83.67	-6,650.8	111.5	854.9	720.8	134.07	6.376	
14,300.0	7,744.8	8,004.7	7,688.7	137.8		82.63	-6,653.0	112.0	901.7	766.0	135.66	6.647	
14,400.0	7,744.6	7,990.7	7,674.9	139.7		81.61	-6,655.1	112.5	956.5	819.2	137.21	6.971	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design North Washington Pad SEC.23-T1S-R68W - North Washington 8-23 (Exist.) - Wellbore #1 N Washington												Offset Site Error:	0.0 ft
Survey Program: 1421-												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	
14,200.0	7,745.0	7,961.4	7,787.3	135.9	25.7	-90.17	-7,861.7	1,404.8	998.7	842.0	156.70	6.373	
14,300.0	7,744.8	7,961.0	7,786.9	137.8	25.7	-90.13	-7,861.7	1,404.8	914.8	756.2	158.60	5.768	
14,400.0	7,744.6	7,960.7	7,786.5	139.7	25.7	-90.09	-7,861.7	1,404.8	834.4	673.9	160.50	5.199	
14,500.0	7,744.4	7,960.3	7,786.2	141.6	25.7	-90.05	-7,861.7	1,404.8	758.7	596.3	162.40	4.672	
14,600.0	7,744.2	7,959.9	7,785.8	143.5	25.7	-90.01	-7,861.7	1,404.8	689.2	524.9	164.30	4.195	
14,700.0	7,744.0	7,959.6	7,785.5	145.4	25.7	-89.97	-7,861.7	1,404.8	628.0	461.8	166.21	3.779	
14,800.0	7,743.8	7,959.2	7,785.1	147.3	25.7	-89.93	-7,861.7	1,404.8	577.8	409.7	168.11	3.437	
14,900.0	7,743.6	7,958.9	7,784.8	149.1	25.7	-89.89	-7,861.7	1,404.8	541.5	371.5	170.01	3.185	
15,000.0	7,743.4	7,958.5	7,784.4	151.0	25.7	-89.85	-7,861.7	1,404.8	522.2	350.2	171.92	3.037	
15,053.0	7,743.2	7,958.4	7,784.2	152.0	25.7	-89.83	-7,861.7	1,404.8	519.5	346.5	172.92	3.004 CC, ES	
15,100.0	7,743.2	7,958.2	7,784.1	152.9	25.7	-89.82	-7,861.7	1,404.8	521.6	347.8	173.82	3.001 SF	
15,200.0	7,742.9	7,957.9	7,783.7	154.8	25.7	-89.78	-7,861.7	1,404.8	539.9	364.1	175.72	3.072	
15,300.0	7,742.7	7,957.5	7,783.4	156.7	25.7	-89.74	-7,861.7	1,404.8	575.2	397.6	177.63	3.238	
15,400.0	7,742.5	7,957.2	7,783.1	158.6	25.7	-89.70	-7,861.7	1,404.7	624.7	445.2	179.53	3.480	
15,500.0	7,742.3	7,956.8	7,782.7	160.5	25.7	-89.67	-7,861.7	1,404.7	685.3	503.9	181.44	3.777	
15,600.0	7,742.1	7,956.5	7,782.4	162.4	25.7	-89.63	-7,861.7	1,404.7	754.4	571.0	183.34	4.115	
15,670.8	7,742.0	7,956.3	7,782.2	163.5	25.7	-89.60	-7,861.7	1,404.7	807.2	622.8	184.44	4.377	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-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 M-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 (11-5-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5132.5ft (Original Well Elev) Coordinates are relative to: Ivey M-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°



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