

Bayswater Exploration & Production, LLC

Well Name: **Ivey M-11-12HC**

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

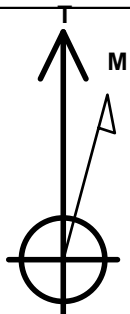
North American Datum 1983, US State Plane 1983, Colorado Northern Zone

Ground Elevation: 5108.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1234184.36	3149769.78	39.974981	-104.965594	
Original Well Elev WELL @ 5130.5ft (Original Well Elev)						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1077'FSL, 1730'FEL, SEC.11	1.0	0.0	0.0	Point
BHL 1015'FSL, 2175'FWL, SEC.12	7987.0	-75.8	3905.0	Point
LANDING PT. 1015'FSL, 2175'FEL, SEC.11	7987.0	-61.5	-445.1	Point



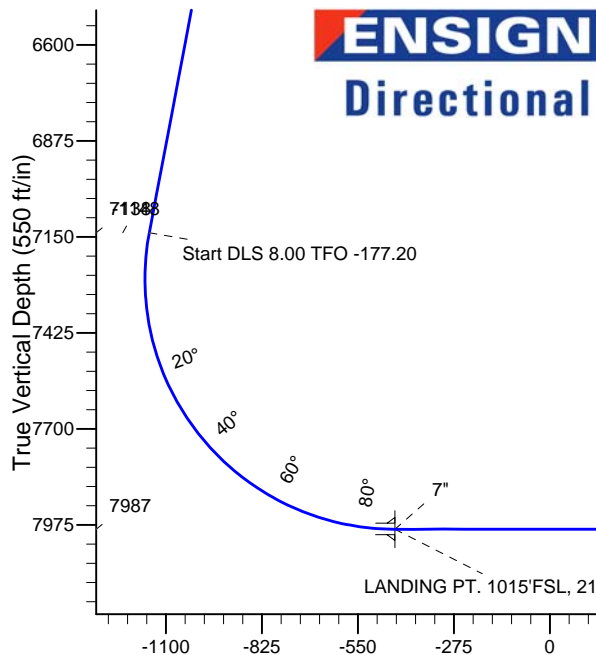
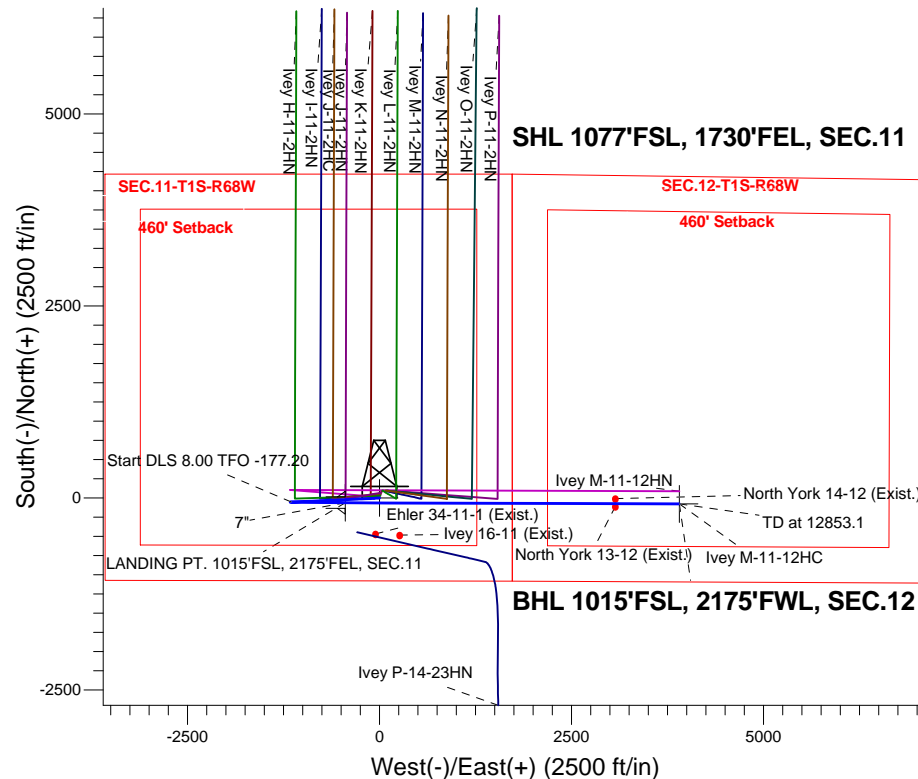
Azimuths to True North
Magnetic North: 8.52°

Magnetic Field
Strength: 52560.8nT
Dip Angle: 66.57°
Date: 7/10/2014
Model: IGRF2010

Ivey Pad Sec.11-T1S-R68W
Ivey M-11-12HC
Plan #1 (7-02-14)

ANNOTATIONS

TVD	MD	Annotation
800.0	800.0	KOP - Start Build 2.00
7137.7	7244.1	Start DLS 8.00 TFO -177.20
7987.0	12853.1	TD at 12853.1



ENSIGN
Directional

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	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1336.5	10.73	267.43	1333.3	-2.2	-50.0	2.00	267.43	-50.0	
4	7244.1	10.73	267.43	7137.7	-51.6	-1148.7	0.00	0.00	-1147.5	
5	8503.0	90.00	90.18	7987.0	-61.5	-445.1	8.00	-177.20	-443.8	LANDING PT. 1015'FSL, 2175'FEL, SEC.11
6	8503.8	90.00	90.19	7987.0	-61.6	-444.3	1.00	90.00	-443.0	
7	12853.1	90.00	90.19	7987.0	-75.8	3905.0	0.00	0.00	3905.7	BHL 1015'FSL, 2175'FWL, SEC.12

BHL 1015'FSL, 2175'FWL, SEC.12

TD at 12853.1



Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey M-11-12HC

Wellbore #1

Plan: Plan #1 (7-02-14)

Standard Planning Report

02 September, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-02-14)		

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-11-12HC					
Well Position	+N-S	-98.7 ft	Northing:	1,234,184.36 ft	Latitude:	39.974981
	+E-W	-35.9 ft	Easting:	3,149,769.78 ft	Longitude:	-104.965594
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,108.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/10/2014	8.52	66.57	52,561

Design	Plan #1 (7-02-14)				
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	91.11	

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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,336.5	10.73	267.43	1,333.3	-2.2	-50.0	2.00	2.00	0.00	267.43	
7,244.1	10.73	267.43	7,137.7	-51.6	-1,148.7	0.00	0.00	0.00	0.00	
8,503.0	90.00	90.18	7,987.0	-61.5	-445.1	8.00	6.30	-14.08	-177.20	LANDING PT. 1015
8,503.8	90.00	90.19	7,987.0	-61.6	-444.3	1.00	0.00	1.00	90.00	
12,853.1	90.00	90.19	7,987.0	-75.8	3,905.0	0.00	0.00	0.00	0.00	BHL 1015'FSL, 217

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-02-14)		

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
KOP - Start Build 2.00									
900.0	2.00	267.43	900.0	-0.1	-1.7	-1.7	2.00	2.00	0.00
1,000.0	4.00	267.43	999.8	-0.3	-7.0	-7.0	2.00	2.00	0.00
1,100.0	6.00	267.43	1,099.5	-0.7	-15.7	-15.7	2.00	2.00	0.00
1,200.0	8.00	267.43	1,198.7	-1.3	-27.9	-27.8	2.00	2.00	0.00
1,300.0	10.00	267.43	1,297.5	-2.0	-43.5	-43.4	2.00	2.00	0.00
1,336.5	10.73	267.43	1,333.3	-2.2	-50.0	-50.0	2.00	2.00	0.00
1,400.0	10.73	267.43	1,395.8	-2.8	-61.8	-61.8	0.00	0.00	0.00
1,500.0	10.73	267.43	1,494.0	-3.6	-80.4	-80.4	0.00	0.00	0.00
1,600.0	10.73	267.43	1,592.3	-4.4	-99.0	-98.9	0.00	0.00	0.00
1,700.0	10.73	267.43	1,690.5	-5.3	-117.6	-117.5	0.00	0.00	0.00
1,800.0	10.73	267.43	1,788.8	-6.1	-136.2	-136.1	0.00	0.00	0.00
1,900.0	10.73	267.43	1,887.0	-7.0	-154.8	-154.7	0.00	0.00	0.00
2,000.0	10.73	267.43	1,985.3	-7.8	-173.4	-173.3	0.00	0.00	0.00
2,100.0	10.73	267.43	2,083.5	-8.6	-192.0	-191.8	0.00	0.00	0.00
2,200.0	10.73	267.43	2,181.8	-9.5	-210.6	-210.4	0.00	0.00	0.00
2,300.0	10.73	267.43	2,280.0	-10.3	-229.2	-229.0	0.00	0.00	0.00
2,400.0	10.73	267.43	2,378.3	-11.1	-247.8	-247.6	0.00	0.00	0.00
2,500.0	10.73	267.43	2,476.5	-12.0	-266.4	-266.1	0.00	0.00	0.00
2,600.0	10.73	267.43	2,574.8	-12.8	-285.0	-284.7	0.00	0.00	0.00
2,700.0	10.73	267.43	2,673.0	-13.6	-303.6	-303.3	0.00	0.00	0.00
2,800.0	10.73	267.43	2,771.3	-14.5	-322.2	-321.9	0.00	0.00	0.00
2,900.0	10.73	267.43	2,869.5	-15.3	-340.8	-340.5	0.00	0.00	0.00
3,000.0	10.73	267.43	2,967.8	-16.1	-359.4	-359.0	0.00	0.00	0.00
3,100.0	10.73	267.43	3,066.0	-17.0	-378.0	-377.6	0.00	0.00	0.00
3,200.0	10.73	267.43	3,164.3	-17.8	-396.6	-396.2	0.00	0.00	0.00
3,300.0	10.73	267.43	3,262.5	-18.7	-415.2	-414.8	0.00	0.00	0.00
3,400.0	10.73	267.43	3,360.8	-19.5	-433.8	-433.4	0.00	0.00	0.00
3,500.0	10.73	267.43	3,459.0	-20.3	-452.4	-451.9	0.00	0.00	0.00
3,600.0	10.73	267.43	3,557.3	-21.2	-471.0	-470.5	0.00	0.00	0.00
3,700.0	10.73	267.43	3,655.5	-22.0	-489.6	-489.1	0.00	0.00	0.00
3,800.0	10.73	267.43	3,753.8	-22.8	-508.2	-507.7	0.00	0.00	0.00
3,900.0	10.73	267.43	3,852.1	-23.7	-526.8	-526.2	0.00	0.00	0.00
4,000.0	10.73	267.43	3,950.3	-24.5	-545.4	-544.8	0.00	0.00	0.00
4,100.0	10.73	267.43	4,048.6	-25.3	-564.0	-563.4	0.00	0.00	0.00
4,200.0	10.73	267.43	4,146.8	-26.2	-582.6	-582.0	0.00	0.00	0.00
4,300.0	10.73	267.43	4,245.1	-27.0	-601.2	-600.6	0.00	0.00	0.00
4,400.0	10.73	267.43	4,343.3	-27.8	-619.8	-619.1	0.00	0.00	0.00
4,500.0	10.73	267.43	4,441.6	-28.7	-638.4	-637.7	0.00	0.00	0.00
4,600.0	10.73	267.43	4,539.8	-29.5	-657.0	-656.3	0.00	0.00	0.00
4,700.0	10.73	267.43	4,638.1	-30.4	-675.6	-674.9	0.00	0.00	0.00
4,800.0	10.73	267.43	4,736.3	-31.2	-694.2	-693.5	0.00	0.00	0.00
4,900.0	10.73	267.43	4,834.6	-32.0	-712.8	-712.0	0.00	0.00	0.00
5,000.0	10.73	267.43	4,932.8	-32.9	-731.4	-730.6	0.00	0.00	0.00
5,100.0	10.73	267.43	5,031.1	-33.7	-750.0	-749.2	0.00	0.00	0.00

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Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-02-14)		

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	10.73	267.43	5,129.3	-34.5	-768.6	-767.8	0.00	0.00	0.00
5,300.0	10.73	267.43	5,227.6	-35.4	-787.2	-786.3	0.00	0.00	0.00
5,400.0	10.73	267.43	5,325.8	-36.2	-805.8	-804.9	0.00	0.00	0.00
5,500.0	10.73	267.43	5,424.1	-37.0	-824.4	-823.5	0.00	0.00	0.00
5,600.0	10.73	267.43	5,522.3	-37.9	-843.0	-842.1	0.00	0.00	0.00
5,700.0	10.73	267.43	5,620.6	-38.7	-861.6	-860.7	0.00	0.00	0.00
5,800.0	10.73	267.43	5,718.8	-39.5	-880.2	-879.2	0.00	0.00	0.00
5,900.0	10.73	267.43	5,817.1	-40.4	-898.8	-897.8	0.00	0.00	0.00
6,000.0	10.73	267.43	5,915.3	-41.2	-917.4	-916.4	0.00	0.00	0.00
6,100.0	10.73	267.43	6,013.6	-42.0	-936.0	-935.0	0.00	0.00	0.00
6,200.0	10.73	267.43	6,111.8	-42.9	-954.6	-953.6	0.00	0.00	0.00
6,300.0	10.73	267.43	6,210.1	-43.7	-973.2	-972.1	0.00	0.00	0.00
6,400.0	10.73	267.43	6,308.3	-44.6	-991.8	-990.7	0.00	0.00	0.00
6,500.0	10.73	267.43	6,406.6	-45.4	-1,010.4	-1,009.3	0.00	0.00	0.00
6,600.0	10.73	267.43	6,504.9	-46.2	-1,029.0	-1,027.9	0.00	0.00	0.00
6,700.0	10.73	267.43	6,603.1	-47.1	-1,047.6	-1,046.4	0.00	0.00	0.00
6,800.0	10.73	267.43	6,701.4	-47.9	-1,066.2	-1,065.0	0.00	0.00	0.00
6,900.0	10.73	267.43	6,799.6	-48.7	-1,084.8	-1,083.6	0.00	0.00	0.00
7,000.0	10.73	267.43	6,897.9	-49.6	-1,103.4	-1,102.2	0.00	0.00	0.00
7,100.0	10.73	267.43	6,996.1	-50.4	-1,121.9	-1,120.8	0.00	0.00	0.00
7,200.0	10.73	267.43	7,094.4	-51.2	-1,140.5	-1,139.3	0.00	0.00	0.00
7,244.1	10.73	267.43	7,137.7	-51.6	-1,148.7	-1,147.5	0.00	0.00	0.00
Start DLS 8.00 TFO -177.20									
7,300.0	6.26	265.42	7,193.0	-52.1	-1,157.0	-1,155.8	8.01	-7.99	-3.58
7,400.0	1.83	106.69	7,292.8	-53.0	-1,160.9	-1,159.7	8.00	-4.43	-158.73
7,500.0	9.77	93.21	7,392.2	-53.9	-1,150.9	-1,149.6	8.00	7.94	-13.48
7,600.0	17.77	91.81	7,489.3	-54.9	-1,127.1	-1,125.8	8.00	7.99	-1.40
7,700.0	25.76	91.26	7,582.1	-55.8	-1,090.1	-1,088.8	8.00	8.00	-0.55
7,800.0	33.76	90.96	7,668.8	-56.8	-1,040.5	-1,039.2	8.00	8.00	-0.30
7,900.0	41.76	90.76	7,747.8	-57.7	-979.3	-978.0	8.00	8.00	-0.20
8,000.0	49.76	90.62	7,817.5	-58.6	-907.7	-906.4	8.00	8.00	-0.14
8,100.0	57.76	90.51	7,876.6	-59.3	-827.1	-825.8	8.00	8.00	-0.11
8,200.0	65.76	90.41	7,923.8	-60.0	-739.1	-737.8	8.00	8.00	-0.09
8,300.0	73.76	90.33	7,958.4	-60.7	-645.4	-644.1	8.00	8.00	-0.08
8,400.0	81.76	90.26	7,979.6	-61.2	-547.7	-546.4	8.00	8.00	-0.08
8,500.0	89.76	90.18	7,987.0	-61.5	-448.1	-446.8	8.00	8.00	-0.07
8,503.0	90.00	90.18	7,987.0	-61.5	-445.1	-443.8	8.00	8.00	-0.07
7"									
8,503.8	90.00	90.19	7,987.0	-61.6	-444.3	-443.0	1.00	0.27	0.96
8,600.0	90.00	90.19	7,987.0	-61.9	-348.1	-346.8	0.00	0.00	0.00
8,700.0	90.00	90.19	7,987.0	-62.2	-248.1	-246.8	0.00	0.00	0.00
8,800.0	90.00	90.19	7,987.0	-62.5	-148.1	-146.9	0.00	0.00	0.00
8,900.0	90.00	90.19	7,987.0	-62.8	-48.1	-46.9	0.00	0.00	0.00
9,000.0	90.00	90.19	7,987.0	-63.2	51.9	53.1	0.00	0.00	0.00
9,100.0	90.00	90.19	7,987.0	-63.5	151.9	153.1	0.00	0.00	0.00
9,200.0	90.00	90.19	7,987.0	-63.8	251.9	253.1	0.00	0.00	0.00
9,300.0	90.00	90.19	7,987.0	-64.2	351.9	353.1	0.00	0.00	0.00
9,400.0	90.00	90.19	7,987.0	-64.5	451.9	453.1	0.00	0.00	0.00
9,500.0	90.00	90.19	7,987.0	-64.8	551.9	553.1	0.00	0.00	0.00
9,600.0	90.00	90.19	7,987.0	-65.1	651.9	653.0	0.00	0.00	0.00
9,700.0	90.00	90.19	7,987.0	-65.5	751.9	753.0	0.00	0.00	0.00
9,800.0	90.00	90.19	7,987.0	-65.8	851.9	853.0	0.00	0.00	0.00
9,900.0	90.00	90.19	7,987.0	-66.1	951.9	953.0	0.00	0.00	0.00
10,000.0	90.00	90.19	7,987.0	-66.5	1,051.9	1,053.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-02-14)		

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	90.00	90.19	7,987.0	-66.8	1,151.9	1,153.0	0.00	0.00	0.00	
10,200.0	90.00	90.19	7,987.0	-67.1	1,251.9	1,253.0	0.00	0.00	0.00	
10,300.0	90.00	90.19	7,987.0	-67.4	1,351.9	1,353.0	0.00	0.00	0.00	
10,400.0	90.00	90.19	7,987.0	-67.8	1,451.9	1,452.9	0.00	0.00	0.00	
10,500.0	90.00	90.19	7,987.0	-68.1	1,551.9	1,552.9	0.00	0.00	0.00	
10,600.0	90.00	90.19	7,987.0	-68.4	1,651.9	1,652.9	0.00	0.00	0.00	
10,700.0	90.00	90.19	7,987.0	-68.8	1,751.9	1,752.9	0.00	0.00	0.00	
10,800.0	90.00	90.19	7,987.0	-69.1	1,851.9	1,852.9	0.00	0.00	0.00	
10,900.0	90.00	90.19	7,987.0	-69.4	1,951.9	1,952.9	0.00	0.00	0.00	
11,000.0	90.00	90.19	7,987.0	-69.7	2,051.9	2,052.9	0.00	0.00	0.00	
11,100.0	90.00	90.19	7,987.0	-70.1	2,151.9	2,152.8	0.00	0.00	0.00	
11,200.0	90.00	90.19	7,987.0	-70.4	2,251.9	2,252.8	0.00	0.00	0.00	
11,300.0	90.00	90.19	7,987.0	-70.7	2,351.9	2,352.8	0.00	0.00	0.00	
11,400.0	90.00	90.19	7,987.0	-71.0	2,451.9	2,452.8	0.00	0.00	0.00	
11,500.0	90.00	90.19	7,987.0	-71.4	2,551.9	2,552.8	0.00	0.00	0.00	
11,600.0	90.00	90.19	7,987.0	-71.7	2,651.9	2,652.8	0.00	0.00	0.00	
11,700.0	90.00	90.19	7,987.0	-72.0	2,751.9	2,752.8	0.00	0.00	0.00	
11,800.0	90.00	90.19	7,987.0	-72.4	2,851.9	2,852.8	0.00	0.00	0.00	
11,900.0	90.00	90.19	7,987.0	-72.7	2,951.9	2,952.7	0.00	0.00	0.00	
12,000.0	90.00	90.19	7,987.0	-73.0	3,051.9	3,052.7	0.00	0.00	0.00	
12,100.0	90.00	90.19	7,987.0	-73.3	3,151.9	3,152.7	0.00	0.00	0.00	
12,200.0	90.00	90.19	7,987.0	-73.7	3,251.9	3,252.7	0.00	0.00	0.00	
12,300.0	90.00	90.19	7,987.0	-74.0	3,351.9	3,352.7	0.00	0.00	0.00	
12,400.0	90.00	90.19	7,987.0	-74.3	3,451.9	3,452.7	0.00	0.00	0.00	
12,500.0	90.00	90.19	7,987.0	-74.7	3,551.9	3,552.7	0.00	0.00	0.00	
12,600.0	90.00	90.19	7,987.0	-75.0	3,651.9	3,652.7	0.00	0.00	0.00	
12,700.0	90.00	90.19	7,987.0	-75.3	3,751.9	3,752.6	0.00	0.00	0.00	
12,800.0	90.00	90.19	7,987.0	-75.6	3,851.9	3,852.6	0.00	0.00	0.00	
12,853.1	90.00	90.19	7,987.0	-75.8	3,905.0	3,905.7	0.00	0.00	0.00	

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude		
SHL 1077'FSL, 1730'f - hit/miss target - Shape - Point	0.00	0.00	1.0	0.0	0.0	1,234,184.37	3,149,769.78	39.974981		-104.965594
BHL 1015'FSL, 2175'f - plan hits target center - Point	0.00	0.00	7,987.0	-75.8	3,905.0	1,234,132.08	3,153,674.99	39.974772		-104.951661
LANDING PT. 1015'F: - plan hits target center - Point	0.00	0.00	7,987.0	-61.5	-445.1	1,234,120.14	3,149,325.11	39.974812		-104.967182

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
8,503.0	7,987.0	7"		7	7-1/2

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-02-14)		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
800.0	800.0	0.0	0.0	KOP - Start Build 2.00
7,244.1	7,137.7	-2.2	-50.0	Start DLS 8.00 TFO -177.20
12,853.1	7,987.0	-51.6	-1,148.7	TD at 12853.1



Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey M-11-12HC

Wellbore #1

Plan #1 (7-02-14)

Anticollision Report

02 September, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (7-02-14)		
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 600.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 9/2/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,853.1	Plan #1 (7-02-14) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Existing Pad Sec.11-T1S-R68W						
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	8,898.7	7,954.5	402.7	210.5	2.095	CC
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	8,900.0	7,954.5	402.7	210.5	2.095	ES, SF
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	9,213.2	7,956.5	417.0	218.9	2.105	CC, ES, SF
Existing Pad Sec.12-T1S-R68W						
North York 13-12 (Exist.) - Wellbore #1 - Wellbore #1	12,019.4	7,975.5	35.3	-234.6	0.131	Level 1, CC, ES, SF
North York 14-12 (Exist.) - Wellbore #1 - Wellbore #1	12,019.0	7,875.5	66.0	-201.8	0.246	Level 1, CC, ES, SF
Ivey Pad Sec.11-T1S-R68W						
Ivey H-11-2HN - Wellbore #1 - Plan #1 (7-02-14)	800.0	800.0	29.8	26.4	8.843	CC
Ivey H-11-2HN - Wellbore #1 - Plan #1 (7-02-14)	6,967.7	6,979.5	43.1	-9.3	0.822	Level 1, ES, SF
Ivey I-11-2HN - Wellbore #1 - Plan #1 (7-02-14)	800.0	800.0	45.0	41.6	13.343	CC, ES
Ivey I-11-2HN - Wellbore #1 - Plan #1 (7-02-14)	5,600.0	5,611.0	113.7	86.2	4.133	SF
Ivey J-11-2HC - Wellbore #1 - Plan #1 (7-02-17)	800.0	800.0	59.7	56.3	17.713	CC, ES
Ivey J-11-2HC - Wellbore #1 - Plan #1 (7-02-17)	8,300.0	7,841.3	318.2	280.8	8.506	SF
Ivey J-11-2HN - Wellbore #1 - Plan #1 (7-02-14)	800.0	800.0	74.9	71.5	22.212	CC, ES
Ivey J-11-2HN - Wellbore #1 - Plan #1 (7-02-14)	8,600.0	7,700.0	513.6	479.5	15.066	SF
Ivey K-11-2HN - Wellbore #1 - Plan #1 (7-02-14)	800.0	799.0	90.0	86.6	26.701	CC, ES
Ivey K-11-2HN - Wellbore #1 - Plan #1 (7-02-14)	8,900.0	7,737.5	440.0	402.9	11.882	SF
Ivey L-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	800.0	799.0	105.0	101.7	31.177	CC, ES
Ivey L-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	9,200.0	7,738.3	438.4	397.5	10.697	SF
Ivey M-11-12HN - Wellbore #1 - Plan #1 (7-02-14)	800.0	800.0	14.7	11.4	4.369	CC, ES
Ivey M-11-12HN - Wellbore #1 - Plan #1 (7-02-14)	12,853.1	12,637.7	297.1	134.9	1.832	SF
Ivey M-11-2HC - Wellbore #1 - Plan #1 (7-01-14)	800.0	798.0	118.4	115.0	35.158	CC, ES
Ivey M-11-2HC - Wellbore #1 - Plan #1 (7-01-14)	9,700.0	7,850.0	339.1	284.0	6.158	SF
Ivey M-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	800.0	799.0	110.8	107.4	32.886	CC, ES
Ivey M-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	9,600.0	7,700.0	517.3	471.2	11.219	SF
Ivey N-11-12HN - Wellbore #1 - Plan #1 (7-02-13)	600.0	599.0	15.2	12.7	6.141	CC, ES
Ivey N-11-12HN - Wellbore #1 - Plan #1 (7-02-13)	12,853.1	12,650.1	297.0	135.3	1.836	SF
Ivey N-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	800.0	798.0	127.1	123.8	37.760	CC, ES
Ivey N-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	9,900.0	7,732.6	511.0	457.8	9.602	SF
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	400.0	399.0	30.2	28.7	19.250	CC, ES
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	12,853.1	12,729.9	519.4	264.5	2.038	SF
Ivey O-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	400.0	398.0	137.1	135.5	87.375	CC, ES
Ivey O-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	10,200.0	7,826.4	439.2	375.4	6.890	SF
Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	200.0	199.0	45.1	44.4	67.075	CC, ES
Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	4,700.0	4,645.0	587.9	554.9	17.826	SF

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Ivey Pad Sec.11-T1S-R68W						
Ivey P-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	200.0	198.0	148.1	147.4	221.043	CC, ES
Ivey P-11-2HN - Wellbore #1 - Plan #1 (7-01-14)	10,500.0	7,834.1	506.1	436.8	7.308	SF
Ivey P-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	1,311.9	1,317.6	490.2	482.7	65.321	CC, ES
Ivey P-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	2,100.0	2,031.2	592.2	579.2	45.679	SF

Offset Design													Offset Site Error: 0.0ft
Existing Pad Sec.11-T1S-R68W - Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1													Offset Well Error: 0.0ft
Survey Program: 8707-UNKNOWN													
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	-173.78	-465.6	-50.7	469.4				
100.0	100.0	67.5	67.5	0.1	1.4	-173.78	-465.6	-50.7	468.3	466.8	1.46	320.193	
200.0	200.0	167.5	167.5	0.3	3.4	-173.78	-465.6	-50.7	468.3	464.6	3.69	127.004	
300.0	300.0	267.5	267.5	0.6	5.4	-173.78	-465.6	-50.7	468.3	462.4	5.91	79.212	
400.0	400.0	367.5	367.5	0.8	7.4	-173.78	-465.6	-50.7	468.3	460.2	8.14	57.554	
500.0	500.0	467.5	467.5	1.0	9.4	-173.78	-465.6	-50.7	468.3	457.9	10.36	45.196	
600.0	600.0	567.5	567.5	1.2	11.4	-173.78	-465.6	-50.7	468.3	455.7	12.59	37.207	
700.0	700.0	667.5	667.5	1.5	13.4	-173.78	-465.6	-50.7	468.3	453.5	14.81	31.619	
800.0	800.0	767.5	767.5	1.7	15.4	-173.78	-465.6	-50.7	468.3	451.3	17.04	27.489	
900.0	900.0	867.5	867.5	1.9	17.3	-81.43	-465.6	-50.7	468.0	448.8	19.25	24.318	
1,000.0	999.8	967.3	967.3	2.1	19.3	-82.07	-465.6	-50.7	467.3	445.8	21.45	21.786	
1,100.0	1,099.5	1,067.0	1,067.0	2.3	21.3	-83.15	-465.6	-50.7	466.2	442.5	23.66	19.699	
1,200.0	1,198.7	1,166.2	1,166.2	2.6	23.3	-84.66	-465.6	-50.7	464.9	439.0	25.90	17.951	
1,300.0	1,297.5	1,265.0	1,265.0	2.9	25.3	-86.58	-465.6	-50.7	463.7	435.5	28.16	16.468	
1,400.0	1,395.8	1,363.3	1,363.3	3.2	27.3	-88.83	-465.6	-50.7	462.9	432.5	30.45	15.204	
1,451.9	1,446.7	1,414.2	1,414.2	3.4	28.3	-90.00	-465.6	-50.7	462.8	431.2	31.65	14.625	
1,500.0	1,494.0	1,461.5	1,461.5	3.5	29.2	-91.09	-465.6	-50.7	462.9	430.1	32.76	14.131	
1,600.0	1,592.3	1,559.8	1,559.8	3.9	31.2	-93.35	-465.6	-50.7	463.6	428.5	35.08	13.216	
1,700.0	1,690.5	1,658.0	1,658.0	4.3	33.2	-95.60	-465.6	-50.7	465.1	427.7	37.41	12.431	
1,800.0	1,788.8	1,756.3	1,756.3	4.6	35.1	-97.83	-465.6	-50.7	467.3	427.6	39.75	11.757	
1,900.0	1,887.0	1,854.5	1,854.5	5.0	37.1	-100.04	-465.6	-50.7	470.3	428.2	42.09	11.174	
2,000.0	1,985.3	1,952.8	1,952.8	5.4	39.1	-102.22	-465.6	-50.7	473.9	429.5	44.42	10.669	
2,100.0	2,083.5	2,051.0	2,051.0	5.8	41.0	-104.37	-465.6	-50.7	478.3	431.5	46.75	10.231	
2,200.0	2,181.8	2,149.3	2,149.3	6.2	43.0	-106.47	-465.6	-50.7	483.3	434.2	49.07	9.849	
2,300.0	2,280.0	2,247.5	2,247.5	6.6	45.0	-108.53	-465.6	-50.7	489.0	437.6	51.39	9.515	
2,400.0	2,378.3	2,345.8	2,345.8	7.0	46.9	-110.54	-465.6	-50.7	495.3	441.6	53.70	9.224	
2,500.0	2,476.5	2,444.0	2,444.0	7.5	48.9	-112.50	-465.6	-50.7	502.3	446.3	56.00	8.969	
2,600.0	2,574.8	2,542.3	2,542.3	7.9	50.8	-114.41	-465.6	-50.7	509.8	451.5	58.29	8.746	
2,700.0	2,673.0	2,640.5	2,640.5	8.3	52.8	-116.26	-465.6	-50.7	517.9	457.3	60.57	8.549	
2,800.0	2,771.3	2,738.8	2,738.8	8.7	54.8	-118.05	-465.6	-50.7	526.5	463.6	62.85	8.377	
2,900.0	2,869.5	2,837.0	2,837.0	9.1	56.7	-119.78	-465.6	-50.7	535.6	470.5	65.11	8.226	
3,000.0	2,967.8	2,935.3	2,935.3	9.5	58.7	-121.46	-465.6	-50.7	545.2	477.8	67.37	8.093	
3,100.0	3,066.0	3,033.5	3,033.5	9.9	60.7	-123.08	-465.6	-50.7	555.3	485.7	69.61	7.977	
3,200.0	3,164.3	3,131.8	3,131.8	10.4	62.6	-124.64	-465.6	-50.7	565.8	493.9	71.85	7.874	
3,300.0	3,262.5	3,230.0	3,230.0	10.8	64.6	-126.15	-465.6	-50.7	576.7	502.6	74.08	7.784	
3,400.0	3,360.8	3,328.3	3,328.3	11.2	66.6	-127.59	-465.6	-50.7	588.0	511.7	76.31	7.705	
3,500.0	3,459.0	3,426.5	3,426.5	11.6	68.5	-128.99	-465.6	-50.7	599.6	521.1	78.53	7.636	
8,500.0	7,987.0	7,954.5	7,954.5	28.0	159.1	89.76	-465.6	-50.7	566.7	379.6	187.09	3.029	
8,600.0	7,987.0	7,954.5	7,954.5	29.0	159.1	90.00	-465.6	-50.7	501.4	313.3	188.07	2.666	

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	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
8,700.0	7,987.0	7,954.5	7,954.5	30.2	159.1	90.00	-465.6	-50.7	449.1	259.8	189.26	2.373	
8,800.0	7,987.0	7,954.5	7,954.5	31.6	159.1	90.00	-465.6	-50.7	414.6	224.0	190.65	2.175	
8,898.7	7,987.0	7,954.5	7,954.5	33.1	159.1	90.00	-465.6	-50.7	402.7	210.5	192.21	2.095 CC	
8,900.0	7,987.0	7,954.5	7,954.5	33.1	159.1	90.00	-465.6	-50.7	402.7	210.5	192.23	2.095 ES, SF	
9,000.0	7,987.0	7,954.5	7,954.5	34.9	159.1	90.00	-465.6	-50.7	415.3	221.3	193.96	2.141	
9,100.0	7,987.0	7,954.5	7,954.5	36.7	159.1	90.00	-465.6	-50.7	450.2	254.4	195.82	2.299	
9,200.0	7,987.0	7,954.5	7,954.5	38.7	159.1	90.00	-465.6	-50.7	503.0	305.2	197.79	2.543	
9,300.0	7,987.0	7,954.5	7,954.5	40.8	159.1	90.00	-465.6	-50.7	568.5	368.7	199.87	2.845	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design		Existing Pad Sec.11-T1S-R68W - Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1											Offset Site Error:		0.0 ft	
Survey Program: 8250-UNKNOWN														Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
0.0	0.0	0.0	0.0	0.0	0.0	151.26	-480.9	263.7	549.3							
100.0	100.0	69.5	69.5	0.1	1.4	151.26	-480.9	263.7	548.4	546.9	1.50	364.993				
200.0	200.0	169.5	169.5	0.3	3.4	151.26	-480.9	263.7	548.4	544.7	3.73	147.138				
300.0	300.0	269.5	269.5	0.6	5.4	151.26	-480.9	263.7	548.4	542.5	5.95	92.141				
400.0	400.0	369.5	369.5	0.8	7.4	151.26	-480.9	263.7	548.4	540.3	8.18	67.071				
500.0	500.0	469.5	469.5	1.0	9.4	151.26	-480.9	263.7	548.4	538.0	10.40	52.726				
600.0	600.0	569.5	569.5	1.2	11.4	151.26	-480.9	263.7	548.4	535.8	12.63	43.435				
700.0	700.0	669.5	669.5	1.5	13.4	151.26	-480.9	263.7	548.4	533.6	14.85	36.929				
800.0	800.0	769.5	769.5	1.7	15.4	151.26	-480.9	263.7	548.4	531.4	17.08	32.117				
900.0	900.0	869.5	869.5	1.9	17.4	-116.32	-480.9	263.7	549.2	529.9	19.28	28.479				
1,000.0	999.8	969.3	969.3	2.1	19.4	-116.77	-480.9	263.7	551.5	530.1	21.48	25.678				
1,100.0	1,099.5	1,069.0	1,069.0	2.3	21.4	-117.49	-480.9	263.7	555.5	531.9	23.68	23.465				
1,200.0	1,198.7	1,168.2	1,168.2	2.6	23.4	-118.49	-480.9	263.7	561.3	535.4	25.87	21.694				
1,300.0	1,297.5	1,267.0	1,267.0	2.9	25.3	-119.73	-480.9	263.7	569.0	540.9	28.07	20.269				
1,400.0	1,395.8	1,365.3	1,365.3	3.2	27.3	-121.23	-480.9	263.7	578.4	548.1	30.30	19.090				
1,500.0	1,494.0	1,463.5	1,463.5	3.5	29.3	-122.76	-480.9	263.7	588.4	555.9	32.55	18.075				
1,600.0	1,592.3	1,561.8	1,561.8	3.9	31.2	-124.25	-480.9	263.7	598.8	564.0	34.82	17.200				
8,800.0	7,987.0	7,956.5	7,956.5	31.6	159.1	90.00	-480.9	263.7	587.0	396.3	190.69	3.078				
8,900.0	7,987.0	7,956.5	7,956.5	33.1	159.1	90.00	-480.9	263.7	521.5	329.2	192.27	2.712				
9,000.0	7,987.0	7,956.5	7,956.5	34.9	159.1	90.00	-480.9	263.7	468.3	274.3	194.00	2.414				
9,100.0	7,987.0	7,956.5	7,956.5	36.7	159.1	90.00	-480.9	263.7	432.1	236.2	195.86	2.206				
9,200.0	7,987.0	7,956.5	7,956.5	38.7	159.1	90.00	-480.9	263.7	417.2	219.4	197.83	2.109				
9,213.2	7,987.0	7,956.5	7,956.5	39.0	159.1	90.00	-480.9	263.7	417.0	218.9	198.11	2.105 CC, ES, SF				
9,300.0	7,987.0	7,956.5	7,956.5	40.8	159.1	90.00	-480.9	263.7	425.9	226.0	199.91	2.131				
9,400.0	7,987.0	7,956.5	7,956.5	42.9	159.1	90.00	-480.9	263.7	456.9	254.8	202.06	2.261				
9,500.0	7,987.0	7,956.5	7,956.5	45.2	159.1	90.00	-480.9	263.7	506.1	301.8	204.29	2.477				
9,600.0	7,987.0	7,956.5	7,956.5	47.5	159.1	90.00	-480.9	263.7	568.8	362.2	206.58	2.753				

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Existing Pad Sec.12-T1S-R68W - North York 13-12 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 8238-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
11,500.0	7,987.0	7,975.5	7,975.5	96.3	159.5	90.00	-108.4	3,071.2	520.6	264.8	255.78	2.035	
11,600.0	7,987.0	7,975.5	7,975.5	99.0	159.5	90.00	-108.4	3,071.2	420.9	162.4	258.48	1.628	
11,700.0	7,987.0	7,975.5	7,975.5	101.7	159.5	90.00	-108.4	3,071.2	321.3	60.2	261.18	1.230	Level 2
11,800.0	7,987.0	7,975.5	7,975.5	104.4	159.5	90.00	-108.4	3,071.2	222.2	-41.7	263.89	0.842	Level 1
11,900.0	7,987.0	7,975.5	7,975.5	107.1	159.5	90.00	-108.4	3,071.2	124.5	-142.1	266.60	0.467	Level 1
12,000.0	7,987.0	7,975.5	7,975.5	109.8	159.5	90.00	-108.4	3,071.2	40.3	-229.1	269.32	0.149	Level 1
12,019.4	7,987.0	7,975.5	7,975.5	110.3	159.5	90.00	-108.4	3,071.2	35.3	-234.6	269.85	0.131	Level 1, CC, ES, SF
12,100.0	7,987.0	7,975.5	7,975.5	112.5	159.5	90.00	-108.4	3,071.2	88.0	-184.0	272.04	0.323	Level 1
12,200.0	7,987.0	7,975.5	7,975.5	115.3	159.5	90.00	-108.4	3,071.2	184.0	-90.7	274.77	0.670	Level 1
12,300.0	7,987.0	7,975.5	7,975.5	118.0	159.5	90.00	-108.4	3,071.2	282.8	5.3	277.50	1.019	Level 2
12,400.0	7,987.0	7,975.5	7,975.5	120.7	159.5	90.00	-108.4	3,071.2	382.2	102.0	280.23	1.364	Level 3
12,500.0	7,987.0	7,975.5	7,975.5	123.5	159.5	90.00	-108.4	3,071.2	481.9	198.9	282.96	1.703	
12,600.0	7,987.0	7,975.5	7,975.5	126.2	159.5	90.00	-108.4	3,071.2	581.7	296.0	285.70	2.036	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Existing Pad Sec.12-T1S-R68W - North York 14-12 (Exist.) - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 ft
Survey Program: 8150-UNKNOWN													
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
11,500.0	7,987.0	7,875.5	7,875.5	96.3	157.5	-90.00	-7.1	3,071.2	523.2	269.4	253.78	2.062	
11,600.0	7,987.0	7,875.5	7,875.5	99.0	157.5	-90.00	-7.1	3,071.2	424.2	167.7	256.48	1.654	
11,700.0	7,987.0	7,875.5	7,875.5	101.7	157.5	-90.00	-7.1	3,071.2	325.8	66.6	259.18	1.257	Level 3
11,800.0	7,987.0	7,875.5	7,875.5	104.4	157.5	-90.00	-7.1	3,071.2	228.8	-33.1	261.89	0.874	Level 1
11,900.0	7,987.0	7,875.5	7,875.5	107.1	157.5	-90.00	-7.1	3,071.2	136.1	-128.5	264.60	0.514	Level 1
12,000.0	7,987.0	7,875.5	7,875.5	109.8	157.5	-90.00	-7.1	3,071.2	68.7	-198.6	267.32	0.257	Level 1
12,019.0	7,987.0	7,875.5	7,875.5	110.3	157.5	-90.00	-7.1	3,071.2	66.0	-201.8	267.84	0.246	Level 1, CC, ES, SF
12,100.0	7,987.0	7,875.5	7,875.5	112.5	157.5	-90.00	-7.1	3,071.2	104.4	-165.6	270.04	0.387	Level 1
12,200.0	7,987.0	7,875.5	7,875.5	115.3	157.5	-90.00	-7.1	3,071.2	192.6	-80.2	272.77	0.706	Level 1
12,300.0	7,987.0	7,875.5	7,875.5	118.0	157.5	-90.00	-7.1	3,071.2	288.6	13.1	275.50	1.048	Level 2
12,400.0	7,987.0	7,875.5	7,875.5	120.7	157.5	-90.00	-7.1	3,071.2	386.6	108.4	278.23	1.390	Level 3
12,500.0	7,987.0	7,875.5	7,875.5	123.5	157.5	-90.00	-7.1	3,071.2	485.5	204.5	280.96	1.728	
12,600.0	7,987.0	7,875.5	7,875.5	126.2	157.5	-90.00	-7.1	3,071.2	584.7	301.0	283.70	2.061	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey H-11-2HN - Wellbore #1 - Plan #1 (7-02-14)													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	19.78	28.1	10.1	29.8					
100.0	100.0	100.0	100.0	0.1	0.1	19.78	28.1	10.1	29.8	29.6	0.22	132.642		
200.0	200.0	200.0	200.0	0.3	0.3	19.78	28.1	10.1	29.8	29.1	0.67	44.214		
300.0	300.0	300.0	300.0	0.6	0.6	19.78	28.1	10.1	29.8	28.7	1.12	26.528		
400.0	400.0	400.0	400.0	0.8	0.8	19.78	28.1	10.1	29.8	28.2	1.57	18.949		
500.0	500.0	500.0	500.0	1.0	1.0	19.78	28.1	10.1	29.8	27.8	2.02	14.738		
600.0	600.0	600.0	600.0	1.2	1.2	19.78	28.1	10.1	29.8	27.3	2.47	12.058		
700.0	700.0	700.0	700.0	1.5	1.5	19.78	28.1	10.1	29.8	26.9	2.92	10.203		
800.0	800.0	800.0	800.0	1.7	1.7	19.78	28.1	10.1	29.8	26.4	3.37	8.843 CC		
900.0	900.0	900.0	900.0	1.9	1.9	115.37	28.1	10.1	30.5	26.7	3.81	8.015		
1,000.0	999.8	999.8	999.8	2.1	2.1	123.53	28.1	10.1	33.1	28.9	4.24	7.814		
1,100.0	1,099.5	1,099.5	1,099.5	2.3	2.4	134.28	28.1	10.1	38.6	33.9	4.67	8.268		
1,200.0	1,198.7	1,198.7	1,198.7	2.6	2.6	144.63	28.1	10.1	47.9	42.8	5.10	9.394		
1,300.0	1,297.5	1,299.3	1,299.3	2.9	2.8	152.34	28.0	8.4	59.9	54.4	5.52	10.852		
1,400.0	1,395.8	1,400.5	1,400.4	3.2	3.0	157.23	27.8	3.1	71.9	66.0	5.94	12.120		
1,500.0	1,494.0	1,502.6	1,502.0	3.5	3.2	159.93	27.6	-5.9	81.2	74.9	6.37	12.749		
1,600.0	1,592.3	1,605.2	1,603.9	3.9	3.5	161.29	27.2	-18.5	87.3	80.5	6.82	12.791		
1,700.0	1,690.5	1,708.2	1,705.5	4.3	3.7	161.74	26.7	-34.8	90.0	82.7	7.30	12.336		
1,800.0	1,788.8	1,811.1	1,806.4	4.6	4.1	161.40	26.0	-54.8	89.3	81.5	7.79	11.468		
1,900.0	1,887.0	1,911.0	1,904.2	5.0	4.4	160.72	25.4	-75.7	87.2	78.9	8.30	10.507		
2,000.0	1,985.3	2,011.0	2,001.9	5.4	4.8	160.00	24.8	-96.7	85.0	76.2	8.82	9.643		
2,100.0	2,083.5	2,111.0	2,099.7	5.8	5.1	159.25	24.1	-117.6	82.9	73.5	9.35	8.864		
2,200.0	2,181.8	2,210.9	2,197.4	6.2	5.5	158.45	23.5	-138.6	80.8	70.9	9.90	8.158		
2,300.0	2,280.0	2,310.9	2,295.2	6.6	5.9	157.61	22.8	-159.5	78.6	68.2	10.46	7.517		
2,400.0	2,378.3	2,410.9	2,392.9	7.0	6.4	156.73	22.2	-180.5	76.6	65.5	11.04	6.935		
2,500.0	2,476.5	2,510.9	2,490.7	7.5	6.8	155.80	21.5	-201.4	74.5	62.9	11.63	6.403		
2,600.0	2,574.8	2,610.8	2,588.4	7.9	7.2	154.81	20.9	-222.4	72.4	60.2	12.24	5.916		
2,700.0	2,673.0	2,710.8	2,686.2	8.3	7.6	153.76	20.2	-243.3	70.4	57.5	12.87	5.470		
2,800.0	2,771.3	2,810.8	2,783.9	8.7	8.1	152.66	19.6	-264.3	68.4	54.9	13.52	5.060		
2,900.0	2,869.5	2,910.7	2,881.7	9.1	8.5	151.49	18.9	-285.2	66.4	52.2	14.19	4.683		
3,000.0	2,967.8	3,010.7	2,979.4	9.5	8.9	150.25	18.3	-306.1	64.5	49.6	14.88	4.335		
3,100.0	3,066.0	3,110.7	3,077.2	9.9	9.4	148.93	17.6	-327.1	62.6	47.0	15.59	4.013		
3,200.0	3,164.3	3,210.6	3,174.9	10.4	9.8	147.53	17.0	-348.0	60.7	44.4	16.34	3.716		
3,300.0	3,262.5	3,310.6	3,272.7	10.8	10.3	146.04	16.3	-369.0	58.9	41.8	17.11	3.441		
3,400.0	3,360.8	3,410.6	3,370.4	11.2	10.7	144.45	15.7	-389.9	57.1	39.2	17.91	3.186		
3,500.0	3,459.0	3,510.6	3,468.2	11.6	11.2	142.76	15.0	-410.9	55.3	36.6	18.75	2.950		
3,600.0	3,557.3	3,610.5	3,565.9	12.0	11.6	140.97	14.4	-431.8	53.6	34.0	19.63	2.732		
3,700.0	3,655.5	3,710.5	3,663.7	12.4	12.1	139.06	13.7	-452.8	52.0	31.4	20.54	2.530		
3,800.0	3,753.8	3,810.5	3,761.4	12.9	12.5	137.03	13.1	-473.7	50.4	28.9	21.50	2.344		
3,900.0	3,852.1	3,910.4	3,859.2	13.3	13.0	134.86	12.4	-494.7	48.9	26.4	22.49	2.173		
4,000.0	3,950.3	4,010.4	3,956.9	13.7	13.4	132.57	11.8	-515.6	47.4	23.9	23.54	2.015		
4,100.0	4,048.6	4,110.4	4,054.7	14.1	13.9	130.13	11.2	-536.5	46.1	21.5	24.62	1.871		
4,200.0	4,146.8	4,210.4	4,152.4	14.5	14.3	127.55	10.5	-557.5	44.8	19.1	25.75	1.740		
4,300.0	4,245.1	4,310.3	4,250.2	15.0	14.8	124.83	9.9	-578.4	43.6	16.7	26.91	1.621		
4,400.0	4,343.3	4,410.3	4,347.9	15.4	15.3	121.96	9.2	-599.4	42.6	14.5	28.10	1.514		
4,500.0	4,441.6	4,510.3	4,445.7	15.8	15.7	118.95	8.6	-620.3	41.6	12.3	29.33	1.418 Level 3		
4,600.0	4,539.8	4,610.2	4,543.4	16.2	16.2	115.81	7.9	-641.3	40.8	10.2	30.56	1.334 Level 3		
4,700.0	4,638.1	4,710.2	4,641.2	16.7	16.6	112.55	7.3	-662.2	40.0	8.2	31.80	1.259 Level 3		
4,800.0	4,736.3	4,810.2	4,738.9	17.1	17.1	109.18	6.6	-683.2	39.5	6.4	33.03	1.195 Level 2		
4,900.0	4,834.6	4,910.2	4,836.7	17.5	17.6	105.73	6.0	-704.1	39.0	4.8	34.24	1.140 Level 2		
5,000.0	4,932.8	5,010.1	4,934.4	17.9	18.0	102.21	5.3	-725.1	38.7	3.3	35.41	1.094 Level 2		
5,100.0	5,031.1	5,110.1	5,032.2	18.3	18.5	98.64	4.7	-746.0	38.6	2.1	36.53	1.056 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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey H-11-2HN - Wellbore #1 - Plan #1 (7-02-14)												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
5,146.1	5,076.4	5,156.2	5,077.3	18.5	18.7	97.00	4.4	-755.7	38.6	1.5	37.03	1.042	Level 2
5,200.0	5,129.3	5,210.1	5,129.9	18.8	18.9	95.07	4.0	-767.0	38.6	1.0	37.59	1.027	Level 2
5,300.0	5,227.6	5,310.0	5,227.7	19.2	19.4	91.51	3.4	-787.9	38.8	0.2	38.57	1.005	Level 2
5,400.0	5,325.8	5,410.0	5,325.4	19.6	19.9	87.99	2.7	-808.8	39.1	-0.4	39.47	0.989	Level 1
5,500.0	5,424.1	5,510.0	5,423.2	20.0	20.3	84.54	2.1	-829.8	39.5	-0.8	40.30	0.980	Level 1
5,600.0	5,522.3	5,610.0	5,520.9	20.5	20.8	81.18	1.4	-850.7	40.1	-0.9	41.03	0.977	Level 1
5,700.0	5,620.6	5,709.9	5,618.7	20.9	21.2	77.93	0.8	-871.7	40.8	-0.9	41.69	0.979	Level 1
5,800.0	5,718.8	5,809.9	5,716.4	21.3	21.7	74.80	0.1	-892.6	41.7	-0.6	42.28	0.985	Level 1
5,900.0	5,817.1	5,909.9	5,814.2	21.7	22.2	71.80	-0.5	-913.6	42.6	-0.2	42.80	0.996	Level 1
6,000.0	5,915.3	6,009.8	5,911.9	22.2	22.6	68.95	-1.1	-934.5	43.7	0.5	43.27	1.010	Level 2
6,100.0	6,013.6	6,109.8	6,009.7	22.6	23.1	66.23	-1.8	-955.5	44.9	1.2	43.68	1.028	Level 2
6,200.0	6,111.8	6,209.8	6,107.4	23.0	23.6	63.67	-2.4	-976.4	46.2	2.1	44.05	1.048	Level 2
6,300.0	6,210.1	6,309.7	6,205.2	23.4	24.0	61.24	-3.1	-997.4	47.5	3.1	44.39	1.071	Level 2
6,400.0	6,308.3	6,409.7	6,302.9	23.8	24.5	58.95	-3.7	-1,018.3	49.0	4.3	44.71	1.096	Level 2
6,500.0	6,406.6	6,509.7	6,400.7	24.3	24.9	56.80	-4.4	-1,039.3	50.5	5.5	45.00	1.122	Level 2
6,600.0	6,504.9	6,610.7	6,499.8	24.7	25.3	56.42	-5.0	-1,058.6	51.1	5.4	45.63	1.119	Level 2
6,700.0	6,603.1	6,711.6	6,599.5	25.1	25.6	59.41	-5.5	-1,074.5	49.7	2.7	47.01	1.057	Level 2
6,800.0	6,701.4	6,812.2	6,699.3	25.5	25.9	66.36	-5.9	-1,086.8	46.9	-2.3	49.14	0.954	Level 1
6,900.0	6,799.6	6,912.2	6,798.9	26.0	26.1	78.39	-6.1	-1,095.5	44.0	-7.6	51.51	0.853	Level 1
6,967.7	6,866.2	6,979.5	6,866.1	26.3	26.2	89.73	-6.2	-1,099.5	43.1	-9.3	52.42	0.822	Level 1, ES, SF
7,000.0	6,897.9	7,011.4	6,898.0	26.4	26.2	95.88	-6.3	-1,100.8	43.4	-9.0	52.39	0.828	Level 1
7,100.0	6,996.1	7,109.6	6,996.1	26.8	26.3	115.88	-6.3	-1,102.6	48.1	-1.8	49.94	0.964	Level 1
7,200.0	7,094.4	7,207.8	7,094.4	27.2	26.5	132.27	-6.3	-1,102.6	58.8	12.9	45.90	1.281	Level 3
7,300.0	7,193.0	7,302.7	7,189.1	27.6	26.6	142.78	-4.1	-1,102.6	72.6	29.1	43.59	1.667	
7,400.0	7,292.8	7,394.2	7,279.7	27.7	26.7	-63.19	9.0	-1,102.6	86.1	40.8	45.32	1.900	
7,500.0	7,392.2	7,480.6	7,362.9	27.7	26.8	-61.56	31.9	-1,102.5	102.8	53.7	49.10	2.093	
7,600.0	7,489.3	7,558.4	7,435.1	27.6	26.9	-72.57	60.9	-1,102.4	130.2	78.0	52.22	2.494	
7,700.0	7,582.1	7,626.0	7,494.8	27.4	27.0	-80.79	92.4	-1,102.3	172.4	118.9	53.57	3.219	
7,800.0	7,668.8	7,682.9	7,542.7	27.1	27.0	-84.80	123.2	-1,102.2	228.3	174.4	53.82	4.241	
7,900.0	7,747.8	7,729.7	7,580.1	26.8	27.1	-85.03	151.3	-1,102.1	294.7	241.1	53.63	5.496	
8,000.0	7,817.5	7,767.2	7,608.7	26.6	27.2	-82.09	175.6	-1,102.0	369.0	315.8	53.21	6.935	
8,100.0	7,876.6	7,800.0	7,632.6	26.5	27.2	-77.07	198.0	-1,101.9	448.6	396.1	52.45	8.552	
8,200.0	7,923.8	7,818.3	7,645.5	26.5	27.2	-68.81	210.9	-1,101.9	531.5	480.9	50.61	10.501	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-11-2HN - Wellbore #1 - Plan #1 (7-02-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	20.04	42.3	15.4	45.0					
100.0	100.0	100.0	100.0	0.1	0.1	20.04	42.3	15.4	45.0	44.8	0.22	200.140		
200.0	200.0	200.0	200.0	0.3	0.3	20.04	42.3	15.4	45.0	44.3	0.67	66.713		
300.0	300.0	300.0	300.0	0.6	0.6	20.04	42.3	15.4	45.0	43.9	1.12	40.028		
400.0	400.0	400.0	400.0	0.8	0.8	20.04	42.3	15.4	45.0	43.4	1.57	28.591		
500.0	500.0	500.0	500.0	1.0	1.0	20.04	42.3	15.4	45.0	43.0	2.02	22.238		
600.0	600.0	600.0	600.0	1.2	1.2	20.04	42.3	15.4	45.0	42.5	2.47	18.195		
700.0	700.0	700.0	700.0	1.5	1.5	20.04	42.3	15.4	45.0	42.1	2.92	15.395		
800.0	800.0	800.0	800.0	1.7	1.7	20.04	42.3	15.4	45.0	41.6	3.37	13.343 CC, ES		
900.0	900.0	900.0	900.0	1.9	1.9	114.62	42.3	15.4	45.7	41.9	3.81	11.998		
1,000.0	999.8	999.8	999.8	2.1	2.1	120.25	42.3	15.4	48.1	43.9	4.24	11.354		
1,100.0	1,099.5	1,099.5	1,099.5	2.3	2.4	128.31	42.3	15.4	53.0	48.4	4.67	11.348		
1,200.0	1,198.7	1,198.7	1,198.7	2.6	2.6	137.13	42.3	15.4	61.4	56.2	5.11	12.000		
1,300.0	1,297.5	1,297.5	1,297.5	2.9	2.8	145.27	42.3	15.4	73.6	68.1	5.55	13.266		
1,400.0	1,395.8	1,395.8	1,395.8	3.2	3.0	151.92	42.3	15.4	89.4	83.4	5.99	14.925		
1,500.0	1,494.0	1,497.3	1,497.3	3.5	3.2	156.43	42.2	13.8	104.8	98.4	6.43	16.298		
1,600.0	1,592.3	1,600.1	1,600.0	3.9	3.4	159.20	41.8	8.4	117.3	110.4	6.86	17.092		
1,700.0	1,690.5	1,703.8	1,703.3	4.3	3.7	160.92	41.3	-0.6	126.6	119.2	7.31	17.318		
1,800.0	1,788.8	1,808.1	1,806.7	4.6	3.9	161.94	40.4	-13.6	132.5	124.7	7.77	17.052		
1,900.0	1,887.0	1,912.8	1,910.0	5.0	4.2	162.43	39.4	-30.3	134.9	126.7	8.24	16.365		
2,000.0	1,985.3	2,014.6	2,010.0	5.4	4.5	162.53	38.2	-49.5	134.5	125.8	8.73	15.414		
2,100.0	2,083.5	2,114.5	2,108.1	5.8	4.8	162.60	37.0	-68.6	133.9	124.7	9.22	14.528		
2,200.0	2,181.8	2,214.5	2,206.3	6.2	5.1	162.66	35.8	-87.7	133.3	123.6	9.71	13.726		
2,300.0	2,280.0	2,314.5	2,304.4	6.6	5.5	162.73	34.6	-106.8	132.7	122.4	10.21	12.991		
2,400.0	2,378.3	2,414.5	2,402.6	7.0	5.9	162.80	33.4	-125.9	132.0	121.3	10.72	12.321		
2,500.0	2,476.5	2,514.5	2,500.7	7.5	6.2	162.87	32.2	-145.1	131.4	120.2	11.23	11.707		
2,600.0	2,574.8	2,614.5	2,598.9	7.9	6.6	162.94	31.0	-164.2	130.8	119.1	11.74	11.142		
2,700.0	2,673.0	2,714.5	2,697.0	8.3	7.0	163.01	29.8	-183.3	130.2	117.9	12.25	10.623		
2,800.0	2,771.3	2,814.5	2,795.1	8.7	7.4	163.08	28.6	-202.4	129.5	116.8	12.77	10.143		
2,900.0	2,869.5	2,914.5	2,893.3	9.1	7.8	163.16	27.4	-221.5	128.9	115.6	13.29	9.700		
3,000.0	2,967.8	3,014.5	2,991.4	9.5	8.2	163.23	26.2	-240.7	128.3	114.5	13.81	9.288		
3,100.0	3,066.0	3,114.5	3,089.6	9.9	8.6	163.30	25.0	-259.8	127.7	113.3	14.34	8.906		
3,200.0	3,164.3	3,214.5	3,187.7	10.4	9.0	163.38	23.9	-278.9	127.1	112.2	14.86	8.550		
3,300.0	3,262.5	3,314.5	3,285.9	10.8	9.4	163.45	22.7	-298.0	126.4	111.1	15.39	8.217		
3,400.0	3,360.8	3,414.5	3,384.0	11.2	9.8	163.53	21.5	-317.1	125.8	109.9	15.91	7.906		
3,500.0	3,459.0	3,514.5	3,482.2	11.6	10.2	163.61	20.3	-336.3	125.2	108.8	16.44	7.615		
3,600.0	3,557.3	3,614.5	3,580.3	12.0	10.6	163.68	19.1	-355.4	124.6	107.6	16.97	7.341		
3,700.0	3,655.5	3,714.5	3,678.5	12.4	11.0	163.76	17.9	-374.5	124.0	106.5	17.50	7.084		
3,800.0	3,753.8	3,814.5	3,776.6	12.9	11.5	163.84	16.7	-393.6	123.3	105.3	18.03	6.842		
3,900.0	3,852.1	3,914.5	3,874.8	13.3	11.9	163.92	15.5	-412.7	122.7	104.2	18.56	6.613		
4,000.0	3,950.3	4,014.5	3,972.9	13.7	12.3	164.00	14.3	-431.8	122.1	103.0	19.09	6.397		
4,100.0	4,048.6	4,114.5	4,071.0	14.1	12.7	164.08	13.1	-451.0	121.5	101.9	19.62	6.193		
4,200.0	4,146.8	4,214.5	4,169.2	14.5	13.1	164.17	11.9	-470.1	120.9	100.7	20.15	5.999		
4,300.0	4,245.1	4,314.5	4,267.3	15.0	13.6	164.25	10.7	-489.2	120.3	99.6	20.68	5.816		
4,400.0	4,343.3	4,414.5	4,365.5	15.4	14.0	164.33	9.5	-508.3	119.6	98.4	21.21	5.641		
4,500.0	4,441.6	4,514.5	4,463.6	15.8	14.4	164.42	8.3	-527.4	119.0	97.3	21.74	5.475		
4,600.0	4,539.8	4,614.5	4,561.8	16.2	14.8	164.50	7.1	-546.6	118.4	96.1	22.27	5.317		
4,700.0	4,638.1	4,714.5	4,659.9	16.7	15.2	164.59	5.9	-565.7	117.8	95.0	22.80	5.166		
4,800.0	4,736.3	4,814.5	4,758.1	17.1	15.7	164.68	4.7	-584.8	117.2	93.8	23.33	5.023		
4,900.0	4,834.6	4,914.5	4,856.2	17.5	16.1	164.77	3.5	-603.9	116.5	92.7	23.86	4.885		
5,000.0	4,932.8	5,014.5	4,954.4	17.9	16.5	164.85	2.3	-623.0	115.9	91.5	24.39	4.754		
5,100.0	5,031.1	5,114.5	5,052.5	18.3	17.0	164.95	1.1	-642.2	115.3	90.4	24.91	4.628		

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-11-2HN - Wellbore #1 - Plan #1 (7-02-14)													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	5,129.3	5,214.5	5,150.6	18.8	17.4	165.04	-0.1	-661.3	114.7	89.3	25.44	4.508	
5,300.0	5,227.6	5,314.5	5,248.8	19.2	17.8	165.13	-1.3	-680.4	114.1	88.1	25.97	4.393	
5,400.0	5,325.8	5,414.5	5,346.9	19.6	18.2	165.22	-2.5	-699.5	113.5	87.0	26.50	4.282	
5,500.0	5,424.1	5,514.5	5,445.1	20.0	18.7	165.32	-3.7	-718.6	112.9	85.8	27.03	4.176	
5,525.0	5,448.7	5,538.8	5,469.0	20.1	18.8	165.35	-3.9	-723.2	112.8	85.6	27.15	4.153	
5,600.0	5,522.3	5,611.0	5,540.1	20.5	19.0	165.58	-4.7	-735.7	113.7	86.2	27.50	4.133 SF	
5,700.0	5,620.6	5,707.1	5,635.2	20.9	19.3	166.19	-5.6	-749.5	117.8	89.9	27.91	4.220	
5,800.0	5,718.8	5,802.9	5,730.4	21.3	19.5	167.08	-6.2	-760.1	125.1	96.9	28.28	4.425	
5,900.0	5,817.1	5,900.0	5,827.2	21.7	19.7	168.14	-6.7	-767.6	135.8	107.2	28.62	4.745	
6,000.0	5,915.3	5,992.4	5,919.5	22.2	19.8	169.22	-7.0	-771.7	149.7	120.8	28.96	5.171	
6,100.0	6,013.6	6,086.5	6,013.6	22.6	20.0	170.30	-7.0	-772.8	166.9	137.6	29.30	5.696	
6,200.0	6,111.8	6,184.8	6,111.8	23.0	20.1	171.27	-7.0	-772.8	185.3	155.6	29.67	6.244	
6,300.0	6,210.1	6,283.0	6,210.1	23.4	20.2	172.06	-7.0	-772.8	203.7	173.6	30.07	6.775	
6,400.0	6,308.3	6,381.3	6,308.3	23.8	20.4	172.72	-7.0	-772.8	222.2	191.7	30.48	7.290	
6,500.0	6,406.6	6,479.5	6,406.6	24.3	20.5	173.29	-7.0	-772.8	240.6	209.8	30.89	7.789	
6,600.0	6,504.9	6,577.8	6,504.9	24.7	20.7	173.77	-7.0	-772.8	259.2	227.8	31.32	8.274	
6,700.0	6,603.1	6,676.0	6,603.1	25.1	20.8	174.18	-7.0	-772.8	277.7	245.9	31.75	8.745	
6,800.0	6,701.4	6,774.3	6,701.4	25.5	21.0	174.55	-7.0	-772.8	296.2	264.0	32.19	9.203	
6,900.0	6,799.6	6,872.5	6,799.6	26.0	21.1	174.87	-7.0	-772.8	314.7	282.1	32.62	9.647	
7,000.0	6,897.9	6,970.8	6,897.9	26.4	21.3	175.16	-7.0	-772.8	333.3	300.2	33.07	10.080	
7,100.0	6,996.1	7,069.0	6,996.1	26.8	21.4	175.41	-7.0	-772.8	351.8	318.3	33.51	10.500	
7,200.0	7,094.4	7,164.0	7,091.0	27.2	21.5	175.35	-5.2	-772.8	370.6	336.7	33.96	10.914	
7,300.0	7,193.0	7,254.7	7,180.9	27.6	21.7	175.81	6.9	-772.7	388.9	354.5	34.44	11.292	
7,400.0	7,292.8	7,341.9	7,265.1	27.7	21.8	-28.60	29.2	-772.7	397.8	363.1	34.66	11.477	
7,500.0	7,392.2	7,422.2	7,339.7	27.7	21.9	-19.61	58.7	-772.6	398.2	363.4	34.74	11.461	
7,600.0	7,489.3	7,493.1	7,402.5	27.6	22.0	-23.65	91.5	-772.5	393.4	358.5	34.91	11.269	
7,700.0	7,582.1	7,550.0	7,450.4	27.4	22.1	-28.58	122.3	-772.4	387.3	352.1	35.25	10.989	
7,797.7	7,666.9	7,600.0	7,490.3	27.1	22.2	-33.79	152.4	-772.3	384.1	348.2	35.89	10.703	
7,800.0	7,668.8	7,600.0	7,490.3	27.1	22.2	-33.79	152.4	-772.3	384.1	348.3	35.86	10.712	
7,900.0	7,747.8	7,650.0	7,528.0	26.8	22.3	-39.45	185.2	-772.2	387.6	350.6	36.99	10.476	
8,000.0	7,817.5	7,679.4	7,549.1	26.6	22.3	-42.44	205.7	-772.1	400.3	363.0	37.32	10.728	
8,100.0	7,876.6	7,700.0	7,563.4	26.5	22.4	-43.74	220.6	-772.0	423.7	386.5	37.19	11.392	
8,200.0	7,923.8	7,724.7	7,579.9	26.5	22.4	-44.94	238.9	-772.0	456.9	419.5	37.38	12.225	
8,300.0	7,958.4	7,738.1	7,588.6	26.8	22.5	-44.07	249.1	-771.9	498.8	461.8	36.93	13.505	
8,400.0	7,979.6	7,750.0	7,596.1	27.3	22.5	-42.53	258.3	-771.9	547.1	510.6	36.54	14.975	
8,500.0	7,987.0	7,750.0	7,596.1	28.0	22.5	-39.30	258.3	-771.9	599.9	564.3	35.66	16.826	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-11-2HC - Wellbore #1 - Plan #1 (7-02-17)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		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	20.04	56.1	20.5	59.7					
100.0	100.0	100.0	100.0	0.1	0.1	20.04	56.1	20.5	59.7	59.5	0.22	265.691		
200.0	200.0	200.0	200.0	0.3	0.3	20.04	56.1	20.5	59.7	59.0	0.67	88.564		
300.0	300.0	300.0	300.0	0.6	0.6	20.04	56.1	20.5	59.7	58.6	1.12	53.138		
400.0	400.0	400.0	400.0	0.8	0.8	20.04	56.1	20.5	59.7	58.1	1.57	37.956		
500.0	500.0	500.0	500.0	1.0	1.0	20.04	56.1	20.5	59.7	57.7	2.02	29.521		
600.0	600.0	600.0	600.0	1.2	1.2	20.04	56.1	20.5	59.7	57.2	2.47	24.154		
700.0	700.0	700.0	700.0	1.5	1.5	20.04	56.1	20.5	59.7	56.8	2.92	20.438		
800.0	800.0	800.0	800.0	1.7	1.7	20.04	56.1	20.5	59.7	56.3	3.37	17.713 CC, ES		
900.0	900.0	900.0	900.0	1.9	1.9	114.12	56.1	20.5	60.4	56.6	3.81	15.866		
1,000.0	999.8	999.8	999.8	2.1	2.1	118.44	56.1	20.5	62.7	58.5	4.24	14.807		
1,100.0	1,099.5	1,099.5	1,099.5	2.3	2.4	124.89	56.1	20.5	67.3	62.7	4.68	14.401		
1,200.0	1,198.7	1,198.7	1,198.7	2.6	2.6	132.40	56.1	20.5	75.0	69.9	5.12	14.646		
1,300.0	1,297.5	1,297.5	1,297.5	2.9	2.8	139.90	56.1	20.5	86.4	80.8	5.57	15.518		
1,400.0	1,395.8	1,395.8	1,395.8	3.2	3.0	146.53	56.1	20.5	101.2	95.2	6.01	16.827		
1,500.0	1,494.0	1,494.0	1,494.0	3.5	3.2	151.53	56.1	20.5	117.3	110.8	6.47	18.133		
1,600.0	1,592.3	1,592.3	1,592.3	3.9	3.5	155.32	56.1	20.5	134.0	127.1	6.92	19.363		
1,700.0	1,690.5	1,695.3	1,695.2	4.3	3.7	158.20	55.9	18.9	149.7	142.3	7.37	20.324		
1,800.0	1,788.8	1,799.8	1,799.6	4.6	3.9	160.16	55.4	13.5	162.3	154.5	7.81	20.791		
1,900.0	1,887.0	1,905.2	1,904.6	5.0	4.1	161.51	54.5	4.3	171.5	163.2	8.26	20.769		
2,000.0	1,985.3	2,011.2	2,009.8	5.4	4.4	162.41	53.2	-8.9	177.2	168.5	8.72	20.319		
2,100.0	2,083.5	2,113.8	2,111.1	5.8	4.6	163.00	51.6	-24.7	180.0	170.8	9.19	19.587		
2,200.0	2,181.8	2,213.7	2,209.8	6.2	4.9	163.52	50.0	-40.4	182.5	172.8	9.66	18.895		
2,300.0	2,280.0	2,313.7	2,308.5	6.6	5.2	164.04	48.4	-56.1	185.0	174.9	10.13	18.261		
2,400.0	2,378.3	2,413.7	2,407.2	7.0	5.5	164.53	46.8	-71.8	187.6	176.9	10.61	17.682		
2,500.0	2,476.5	2,513.6	2,505.9	7.5	5.8	165.02	45.2	-87.5	190.1	179.0	11.09	17.148		
2,600.0	2,574.8	2,613.6	2,604.6	7.9	6.1	165.49	43.7	-103.3	192.7	181.1	11.57	16.657		
2,700.0	2,673.0	2,713.5	2,703.3	8.3	6.4	165.95	42.1	-119.0	195.2	183.2	12.05	16.204		
2,800.0	2,771.3	2,813.5	2,802.0	8.7	6.7	166.40	40.5	-134.7	197.8	185.3	12.53	15.784		
2,900.0	2,869.5	2,913.4	2,900.7	9.1	7.1	166.84	38.9	-150.4	200.4	187.4	13.02	15.395		
3,000.0	2,967.8	3,013.4	2,999.4	9.5	7.4	167.26	37.3	-166.1	203.0	189.5	13.50	15.034		
3,100.0	3,066.0	3,113.3	3,098.1	9.9	7.7	167.68	35.8	-181.9	205.6	191.7	13.99	14.698		
3,200.0	3,164.3	3,213.3	3,196.8	10.4	8.1	168.08	34.2	-197.6	208.3	193.8	14.48	14.384		
3,300.0	3,262.5	3,313.3	3,295.5	10.8	8.4	168.47	32.6	-213.3	210.9	195.9	14.97	14.090		
3,400.0	3,360.8	3,413.2	3,394.2	11.2	8.8	168.86	31.0	-229.0	213.6	198.1	15.46	13.815		
3,500.0	3,459.0	3,513.2	3,492.9	11.6	9.1	169.23	29.4	-244.7	216.2	200.3	15.95	13.557		
3,600.0	3,557.3	3,613.1	3,591.6	12.0	9.5	169.60	27.8	-260.5	218.9	202.5	16.44	13.315		
3,700.0	3,655.5	3,713.1	3,690.3	12.4	9.8	169.96	26.3	-276.2	221.6	204.6	16.93	13.086		
3,800.0	3,753.8	3,813.0	3,789.0	12.9	10.2	170.30	24.7	-291.9	224.3	206.8	17.42	12.870		
3,900.0	3,852.1	3,913.0	3,887.7	13.3	10.6	170.64	23.1	-307.6	226.9	209.0	17.92	12.667		
4,000.0	3,950.3	4,012.9	3,986.4	13.7	10.9	170.98	21.5	-323.3	229.6	211.2	18.41	12.474		
4,100.0	4,048.6	4,112.9	4,085.1	14.1	11.3	171.30	19.9	-339.0	232.4	213.5	18.90	12.291		
4,200.0	4,146.8	4,212.8	4,183.8	14.5	11.6	171.62	18.4	-354.8	235.1	215.7	19.40	12.118		
4,300.0	4,245.1	4,312.8	4,282.5	15.0	12.0	171.93	16.8	-370.5	237.8	217.9	19.89	11.953		
4,400.0	4,343.3	4,412.8	4,381.2	15.4	12.4	172.23	15.2	-386.2	240.5	220.1	20.39	11.796		
4,500.0	4,441.6	4,512.7	4,479.9	15.8	12.7	172.52	13.6	-401.9	243.3	222.4	20.89	11.647		
4,600.0	4,539.8	4,612.7	4,578.6	16.2	13.1	172.81	12.0	-417.6	246.0	224.6	21.38	11.505		
4,700.0	4,638.1	4,712.6	4,677.3	16.7	13.5	173.10	10.4	-433.4	248.8	226.9	21.88	11.369		
4,800.0	4,736.3	4,812.6	4,776.0	17.1	13.8	173.37	8.9	-449.1	251.5	229.1	22.38	11.239		
4,900.0	4,834.6	4,912.5	4,874.7	17.5	14.2	173.64	7.3	-464.8	254.3	231.4	22.88	11.115		
5,000.0	4,932.8	5,012.5	4,973.4	17.9	14.6	173.91	5.7	-480.5	257.0	233.7	23.38	10.996		
5,100.0	5,031.1	5,112.4	5,072.1	18.3	14.9	174.17	4.1	-496.2	259.8	235.9	23.87	10.882		

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-11-2HC - Wellbore #1 - Plan #1 (7-02-17)												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	5,129.3	5,212.4	5,170.8	18.8	15.3	174.42	2.5	-512.0	262.6	238.2	24.37	10.772	
5,300.0	5,227.6	5,312.3	5,269.5	19.2	15.7	174.67	1.0	-527.7	265.4	240.5	24.88	10.667	
5,400.0	5,325.8	5,412.3	5,368.2	19.6	16.1	174.91	-0.6	-543.4	268.1	242.8	25.38	10.567	
5,500.0	5,424.1	5,512.3	5,466.9	20.0	16.4	175.15	-2.2	-559.1	270.9	245.1	25.88	10.469	
5,600.0	5,522.3	5,610.6	5,564.0	20.5	16.8	175.38	-3.8	-574.5	273.8	247.4	26.37	10.382	
5,700.0	5,620.6	5,700.0	5,652.6	20.9	17.0	175.59	-5.0	-586.7	278.8	252.0	26.81	10.398	
5,800.0	5,718.8	5,792.4	5,744.4	21.3	17.2	175.82	-6.0	-596.4	286.9	259.7	27.25	10.529	
5,900.0	5,817.1	5,882.5	5,834.3	21.7	17.4	176.03	-6.6	-603.0	298.2	270.5	27.68	10.773	
6,000.0	5,915.3	5,972.0	5,923.7	22.2	17.6	176.24	-7.0	-606.7	312.6	284.5	28.10	11.124	
6,100.0	6,013.6	6,061.9	6,013.6	22.6	17.7	176.43	-7.1	-607.7	330.1	301.6	28.53	11.571	
6,200.0	6,111.8	6,160.1	6,111.8	23.0	17.8	176.62	-7.1	-607.7	348.7	319.7	28.97	12.034	
6,300.0	6,210.1	6,258.4	6,210.1	23.4	18.0	176.79	-7.1	-607.7	367.3	337.8	29.42	12.481	
6,400.0	6,308.3	6,356.6	6,308.3	23.8	18.2	176.95	-7.1	-607.7	385.8	356.0	29.88	12.915	
6,500.0	6,406.6	6,454.9	6,406.6	24.3	18.3	177.09	-7.1	-607.7	404.4	374.1	30.33	13.335	
6,600.0	6,504.9	6,553.1	6,504.9	24.7	18.5	177.22	-7.1	-607.7	423.0	392.2	30.78	13.743	
6,700.0	6,603.1	6,651.4	6,603.1	25.1	18.6	177.33	-7.1	-607.7	441.6	410.4	31.24	14.138	
6,800.0	6,701.4	6,749.7	6,701.4	25.5	18.8	177.44	-7.1	-607.7	460.2	428.5	31.69	14.522	
6,900.0	6,799.6	6,847.9	6,799.6	26.0	19.0	177.54	-7.1	-607.7	478.8	446.7	32.15	14.895	
7,000.0	6,897.9	6,946.2	6,897.9	26.4	19.1	177.63	-7.1	-607.7	497.4	464.8	32.60	15.257	
7,100.0	6,996.1	7,044.4	6,996.1	26.8	19.3	177.72	-7.1	-607.7	516.0	483.0	33.06	15.608	
7,200.0	7,094.4	7,142.7	7,094.4	27.2	19.5	177.80	-7.1	-607.7	534.6	501.1	33.52	15.950	
7,300.0	7,193.0	7,241.3	7,193.0	27.6	19.6	179.89	-7.1	-607.7	551.1	517.1	33.98	16.220	
7,400.0	7,292.8	7,339.7	7,291.4	27.7	19.8	-21.47	-6.8	-607.7	555.1	521.1	34.00	16.327	
7,500.0	7,392.2	7,431.9	7,383.1	27.7	20.0	-9.16	1.7	-607.7	546.1	512.6	33.47	16.315	
7,600.0	7,489.3	7,518.2	7,467.3	27.6	20.1	-10.40	20.3	-607.6	525.3	492.8	32.53	16.152	
7,700.0	7,582.1	7,595.4	7,540.3	27.4	20.2	-13.95	45.5	-607.6	494.8	463.4	31.45	15.732	
7,800.0	7,668.8	7,661.8	7,600.6	27.1	20.3	-19.12	73.3	-607.5	457.2	426.5	30.74	14.877	
7,900.0	7,747.8	7,717.2	7,648.7	26.8	20.4	-25.53	100.6	-607.4	416.2	385.4	30.84	13.496	
8,000.0	7,817.5	7,761.9	7,686.0	26.6	20.4	-32.56	125.4	-607.3	376.0	344.0	32.05	11.734	
8,100.0	7,876.6	7,800.0	7,716.4	26.5	20.5	-39.77	148.3	-607.2	342.3	308.1	34.18	10.012	
8,200.0	7,923.8	7,823.1	7,734.2	26.5	20.6	-44.69	163.0	-607.2	321.1	285.2	35.92	8.938	
8,264.6	7,947.7	7,835.7	7,743.8	26.7	20.6	-47.09	171.2	-607.1	316.9	279.9	36.97	8.570	
8,300.0	7,958.4	7,841.3	7,747.9	26.8	20.6	-47.98	174.9	-607.1	318.2	280.8	37.41	8.506 SF	
8,400.0	7,979.6	7,850.0	7,754.4	27.3	20.6	-48.45	180.7	-607.1	335.8	297.7	38.04	8.826	
8,500.0	7,987.0	7,850.0	7,754.4	28.0	20.6	-46.20	180.7	-607.1	371.6	333.8	37.84	9.820	
8,600.0	7,987.0	7,850.0	7,754.4	29.0	20.6	-46.11	180.7	-607.1	424.3	385.8	38.56	11.004	
8,700.0	7,987.0	7,850.0	7,754.4	30.2	20.6	-46.11	180.7	-607.1	491.9	452.5	39.46	12.466	
8,800.0	7,987.0	7,850.0	7,754.4	31.6	20.6	-46.11	180.7	-607.1	569.2	528.7	40.51	14.049	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-11-2HN - Wellbore #1 - Plan #1 (7-02-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	20.14	70.3	25.8	74.9					
100.0	100.0	100.0	100.0	0.1	0.1	20.14	70.3	25.8	74.9	74.7	0.22	333.173		
200.0	200.0	200.0	200.0	0.3	0.3	20.14	70.3	25.8	74.9	74.2	0.67	111.058		
300.0	300.0	300.0	300.0	0.6	0.6	20.14	70.3	25.8	74.9	73.8	1.12	66.635		
400.0	400.0	400.0	400.0	0.8	0.8	20.14	70.3	25.8	74.9	73.3	1.57	47.596		
500.0	500.0	500.0	500.0	1.0	1.0	20.14	70.3	25.8	74.9	72.9	2.02	37.019		
600.0	600.0	600.0	600.0	1.2	1.2	20.14	70.3	25.8	74.9	72.4	2.47	30.288		
700.0	700.0	700.0	700.0	1.5	1.5	20.14	70.3	25.8	74.9	72.0	2.92	25.629		
800.0	800.0	800.0	800.0	1.7	1.7	20.14	70.3	25.8	74.9	71.5	3.37	22.212 CC, ES		
900.0	900.0	900.0	900.0	1.9	1.9	113.92	70.3	25.8	75.6	71.8	3.81	19.849		
1,000.0	999.8	999.8	999.8	2.1	2.1	117.40	70.3	25.8	77.8	73.6	4.24	18.374		
1,100.0	1,099.5	1,099.5	1,099.5	2.3	2.4	122.71	70.3	25.8	82.2	77.6	4.68	17.584		
1,200.0	1,198.7	1,198.7	1,198.7	2.6	2.6	129.15	70.3	25.8	89.4	84.3	5.12	17.451		
1,300.0	1,297.5	1,297.5	1,297.5	2.9	2.8	135.92	70.3	25.8	100.1	94.5	5.58	17.949		
1,400.0	1,395.8	1,395.8	1,395.8	3.2	3.0	142.26	70.3	25.8	114.1	108.1	6.03	18.913		
1,500.0	1,494.0	1,494.0	1,494.0	3.5	3.2	147.28	70.3	25.8	129.4	122.9	6.49	19.937		
1,600.0	1,592.3	1,592.3	1,592.3	3.9	3.5	151.23	70.3	25.8	145.5	138.6	6.95	20.939		
1,700.0	1,690.5	1,690.5	1,690.5	4.3	3.7	154.39	70.3	25.8	162.1	154.7	7.41	21.893		
1,800.0	1,788.8	1,788.8	1,788.8	4.6	3.9	156.96	70.3	25.8	179.1	171.3	7.86	22.784		
1,900.0	1,887.0	1,893.2	1,893.2	5.0	4.1	159.09	70.1	24.3	195.1	186.8	8.32	23.457		
2,000.0	1,985.3	1,999.6	1,999.4	5.4	4.3	160.70	69.2	18.9	207.7	198.9	8.76	23.706		
2,100.0	2,083.5	2,104.9	2,104.4	5.8	4.6	161.90	67.7	9.9	216.9	207.6	9.21	23.545		
2,200.0	2,181.8	2,204.5	2,203.5	6.2	4.8	162.89	66.1	0.2	225.1	215.4	9.66	23.300		
2,300.0	2,280.0	2,304.1	2,302.6	6.6	5.0	163.81	64.5	-9.4	233.3	223.2	10.11	23.076		
2,400.0	2,378.3	2,403.7	2,401.7	7.0	5.2	164.67	62.9	-19.0	241.6	231.1	10.56	22.871		
2,500.0	2,476.5	2,503.3	2,500.8	7.5	5.5	165.47	61.3	-28.7	250.0	239.0	11.02	22.683		
2,600.0	2,574.8	2,602.9	2,599.9	7.9	5.7	166.22	59.7	-38.3	258.4	246.9	11.48	22.510		
2,700.0	2,673.0	2,702.5	2,699.0	8.3	6.0	166.92	58.1	-47.9	266.8	254.9	11.94	22.349		
2,800.0	2,771.3	2,802.1	2,798.2	8.7	6.2	167.58	56.5	-57.6	275.3	262.9	12.40	22.200		
2,900.0	2,869.5	2,901.7	2,897.3	9.1	6.5	168.20	54.9	-67.2	283.8	271.0	12.87	22.061		
3,000.0	2,967.8	3,001.3	2,996.4	9.5	6.7	168.79	53.3	-76.8	292.4	279.1	13.33	21.932		
3,100.0	3,066.0	3,100.9	3,095.5	9.9	7.0	169.34	51.7	-86.5	301.0	287.2	13.80	21.811		
3,200.0	3,164.3	3,200.4	3,194.6	10.4	7.2	169.86	50.1	-96.1	309.6	295.3	14.27	21.698		
3,300.0	3,262.5	3,300.0	3,293.7	10.8	7.5	170.35	48.5	-105.7	318.2	303.5	14.74	21.591		
3,400.0	3,360.8	3,399.6	3,392.8	11.2	7.8	170.81	46.9	-115.4	326.9	311.6	15.21	21.491		
3,500.0	3,459.0	3,499.2	3,491.9	11.6	8.0	171.25	45.3	-125.0	335.5	319.8	15.68	21.396		
3,600.0	3,557.3	3,598.8	3,591.0	12.0	8.3	171.67	43.7	-134.6	344.2	328.1	16.16	21.307		
3,700.0	3,655.5	3,698.4	3,690.2	12.4	8.6	172.07	42.1	-144.3	352.9	336.3	16.63	21.222		
3,800.0	3,753.8	3,798.0	3,789.3	12.9	8.9	172.45	40.5	-153.9	361.7	344.5	17.11	21.141		
3,900.0	3,852.1	3,897.6	3,888.4	13.3	9.1	172.81	38.9	-163.5	370.4	352.8	17.58	21.065		
4,000.0	3,950.3	3,997.2	3,987.5	13.7	9.4	173.16	37.3	-173.2	379.1	361.1	18.06	20.992		
4,100.0	4,048.6	4,096.8	4,086.6	14.1	9.7	173.49	35.7	-182.8	387.9	369.4	18.54	20.922		
4,200.0	4,146.8	4,196.4	4,185.7	14.5	10.0	173.80	34.1	-192.4	396.7	377.7	19.02	20.856		
4,300.0	4,245.1	4,295.9	4,284.8	15.0	10.2	174.10	32.5	-202.1	405.5	386.0	19.50	20.793		
4,400.0	4,343.3	4,395.5	4,383.9	15.4	10.5	174.39	30.9	-211.7	414.3	394.3	19.98	20.732		
4,500.0	4,441.6	4,495.1	4,483.0	15.8	10.8	174.67	29.3	-221.3	423.1	402.6	20.46	20.674		
4,600.0	4,539.8	4,594.7	4,582.2	16.2	11.1	174.93	27.7	-231.0	431.9	411.0	20.95	20.618		
4,700.0	4,638.1	4,694.3	4,681.3	16.7	11.4	175.19	26.1	-240.6	440.7	419.3	21.43	20.565		
4,800.0	4,736.3	4,793.9	4,780.4	17.1	11.6	175.43	24.5	-250.3	449.6	427.7	21.92	20.513		
4,900.0	4,834.6	4,893.5	4,879.5	17.5	11.9	175.67	22.9	-259.9	458.4	436.0	22.40	20.464		
5,000.0	4,932.8	4,993.1	4,978.6	17.9	12.2	175.89	21.3	-269.5	467.3	444.4	22.89	20.417		
5,100.0	5,031.1	5,092.7	5,077.7	18.3	12.5	176.11	19.7	-279.2	476.1	452.8	23.37	20.371		

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-11-2HN - Wellbore #1 - Plan #1 (7-02-14)												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	5,129.3	5,192.3	5,176.8	18.8	12.8	176.32	18.1	-288.8	485.0	461.1	23.86	20.327	
5,300.0	5,227.6	5,291.9	5,275.9	19.2	13.1	176.52	16.5	-298.4	493.9	469.5	24.35	20.284	
5,400.0	5,325.8	5,391.4	5,375.0	19.6	13.3	176.72	14.9	-308.1	502.7	477.9	24.84	20.243	
5,500.0	5,424.1	5,491.0	5,474.1	20.0	13.6	176.91	13.3	-317.7	511.6	486.3	25.32	20.203	
5,600.0	5,522.3	5,590.6	5,573.3	20.5	13.9	177.09	11.7	-327.3	520.5	494.7	25.81	20.165	
5,700.0	5,620.6	5,690.2	5,672.4	20.9	14.2	177.26	10.1	-337.0	529.4	503.1	26.30	20.128	
5,800.0	5,718.8	5,789.8	5,771.5	21.3	14.5	177.43	8.5	-346.6	538.3	511.5	26.79	20.092	
5,900.0	5,817.1	5,889.4	5,870.6	21.7	14.8	177.60	6.9	-356.2	547.2	519.9	27.28	20.057	
6,000.0	5,915.3	5,989.0	5,969.7	22.2	15.1	177.76	5.3	-365.9	556.1	528.3	27.77	20.024	
6,100.0	6,013.6	6,088.6	6,068.8	22.6	15.3	177.91	3.7	-375.5	565.0	536.8	28.26	19.991	
6,200.0	6,111.8	6,188.2	6,167.9	23.0	15.6	178.06	2.1	-385.1	573.9	545.2	28.76	19.959	
6,300.0	6,210.1	6,287.8	6,267.0	23.4	15.9	178.21	0.5	-394.8	582.9	553.6	29.25	19.929	
6,400.0	6,308.3	6,387.4	6,366.1	23.8	16.2	178.35	-1.1	-404.4	591.8	562.0	29.74	19.899	
8,000.0	7,817.5	7,629.1	7,548.9	26.6	18.6	-28.06	205.1	-441.9	598.8	569.1	29.75	20.129	
8,100.0	7,876.6	7,650.0	7,563.4	26.5	18.6	-31.09	220.2	-441.9	569.8	540.1	29.67	19.203	
8,200.0	7,923.8	7,674.3	7,579.7	26.5	18.7	-34.63	238.3	-441.8	543.9	513.5	30.43	17.877	
8,300.0	7,958.4	7,687.7	7,588.3	26.8	18.7	-37.00	248.4	-441.8	523.4	492.1	31.27	16.738	
8,400.0	7,979.6	7,700.0	7,596.1	27.3	18.8	-39.01	257.9	-441.8	510.0	477.5	32.51	15.688	
8,500.0	7,987.0	7,700.0	7,596.1	28.0	18.8	-39.26	257.9	-441.8	504.8	471.4	33.39	15.117	
8,503.7	7,987.0	7,700.0	7,596.1	28.1	18.8	-39.26	257.9	-441.8	504.8	471.4	33.42	15.105	
8,600.0	7,987.0	7,700.0	7,596.1	29.0	18.8	-39.26	257.9	-441.8	513.6	479.5	34.09	15.066 SF	
8,700.0	7,987.0	7,700.0	7,596.1	30.2	18.8	-39.26	257.9	-441.8	541.1	506.2	34.91	15.499	
8,800.0	7,987.0	7,700.0	7,596.1	31.6	18.8	-39.26	257.9	-441.8	584.5	548.7	35.86	16.302	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey K-11-2HN - Wellbore #1 - Plan #1 (7-02-14)													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	20.04	84.5	30.8	90.0					
100.0	100.0	99.0	99.0	0.1	0.1	20.04	84.5	30.8	90.0	89.7	0.22	402.253		
200.0	200.0	199.0	199.0	0.3	0.3	20.04	84.5	30.8	90.0	89.3	0.67	133.861		
300.0	300.0	299.0	299.0	0.6	0.6	20.04	84.5	30.8	90.0	88.8	1.12	80.210		
400.0	400.0	399.0	399.0	0.8	0.8	20.04	84.5	30.8	90.0	88.4	1.57	57.260		
500.0	500.0	499.0	499.0	1.0	1.0	20.04	84.5	30.8	90.0	87.9	2.02	44.521		
600.0	600.0	599.0	599.0	1.2	1.2	20.04	84.5	30.8	90.0	87.5	2.47	36.419		
700.0	700.0	699.0	699.0	1.5	1.5	20.04	84.5	30.8	90.0	87.0	2.92	30.812		
800.0	800.0	799.0	799.0	1.7	1.7	20.04	84.5	30.8	90.0	86.6	3.37	26.701	CC, ES	
900.0	900.0	899.0	899.0	1.9	1.9	113.62	84.5	30.8	90.6	86.8	3.81	23.821		
1,000.0	999.8	998.8	998.8	2.1	2.1	116.54	84.5	30.8	92.9	88.6	4.23	21.930		
1,100.0	1,099.5	1,098.5	1,098.5	2.3	2.4	121.06	84.5	30.8	97.1	92.4	4.67	20.767		
1,200.0	1,198.7	1,197.7	1,197.7	2.6	2.6	126.68	84.5	30.8	103.9	98.8	5.13	20.275		
1,300.0	1,297.5	1,296.5	1,296.5	2.9	2.8	132.81	84.5	30.8	114.0	108.4	5.58	20.420		
1,400.0	1,395.8	1,394.8	1,394.8	3.2	3.0	138.79	84.5	30.8	127.3	121.3	6.05	21.054		
1,500.0	1,494.0	1,493.0	1,493.0	3.5	3.2	143.71	84.5	30.8	141.9	135.4	6.51	21.798		
1,600.0	1,592.3	1,591.3	1,591.3	3.9	3.5	147.71	84.5	30.8	157.4	150.4	6.97	22.571		
1,700.0	1,690.5	1,689.5	1,689.5	4.3	3.7	150.98	84.5	30.8	173.5	166.1	7.44	23.336		
1,800.0	1,788.8	1,787.8	1,787.8	4.6	3.9	153.69	84.5	30.8	190.1	182.2	7.90	24.072		
1,900.0	1,887.0	1,886.0	1,886.0	5.0	4.1	155.97	84.5	30.8	207.0	198.6	8.36	24.770		
2,000.0	1,985.3	1,984.3	1,984.3	5.4	4.3	157.90	84.5	30.8	224.2	215.3	8.82	25.426		
2,100.0	2,083.5	2,089.9	2,089.9	5.8	4.6	159.74	83.7	29.7	240.3	231.0	9.27	25.924		
2,200.0	2,181.8	2,198.0	2,197.8	6.2	4.8	161.56	80.7	25.1	253.0	243.3	9.70	26.086		
2,300.0	2,280.0	2,302.0	2,301.4	6.6	5.0	163.31	76.0	17.9	262.7	252.6	10.12	25.951		
2,400.0	2,378.3	2,401.2	2,400.3	7.0	5.2	164.89	71.2	10.6	272.2	261.7	10.55	25.802		
2,500.0	2,476.5	2,500.5	2,499.2	7.5	5.4	166.36	66.4	3.3	281.9	270.9	10.98	25.672		
2,600.0	2,574.8	2,599.8	2,598.1	7.9	5.6	167.73	61.6	-4.0	291.8	280.3	11.42	25.556		
2,700.0	2,673.0	2,699.1	2,697.0	8.3	5.8	169.02	56.8	-11.3	301.8	289.9	11.86	25.452		
2,800.0	2,771.3	2,798.4	2,795.9	8.7	6.0	170.22	52.0	-18.5	311.9	299.6	12.30	25.356		
2,900.0	2,869.5	2,897.6	2,894.8	9.1	6.3	171.34	47.1	-25.8	322.2	309.4	12.75	25.268		
3,000.0	2,967.8	2,996.9	2,993.7	9.5	6.5	172.39	42.3	-33.1	332.6	319.4	13.20	25.186		
3,100.0	3,066.0	3,096.2	3,092.6	9.9	6.7	173.38	37.5	-40.4	343.1	329.4	13.66	25.108		
3,200.0	3,164.3	3,195.5	3,191.5	10.4	7.0	174.32	32.7	-47.7	353.7	339.5	14.13	25.035		
3,300.0	3,262.5	3,294.7	3,290.4	10.8	7.2	175.19	27.9	-55.0	364.3	349.8	14.59	24.965		
3,400.0	3,360.8	3,394.0	3,389.3	11.2	7.5	176.02	23.1	-62.3	375.1	360.0	15.07	24.897		
3,500.0	3,459.0	3,493.3	3,488.2	11.6	7.7	176.80	18.3	-69.6	385.9	370.4	15.54	24.833		
3,600.0	3,557.3	3,592.6	3,587.0	12.0	8.0	177.54	13.5	-76.9	396.8	380.8	16.02	24.770		
3,700.0	3,655.5	3,691.8	3,685.9	12.4	8.2	178.24	8.7	-84.2	407.8	391.3	16.50	24.709		
3,800.0	3,753.8	3,791.1	3,784.8	12.9	8.5	178.90	3.9	-91.5	418.8	401.8	16.99	24.651		
3,900.0	3,852.1	3,890.4	3,883.7	13.3	8.7	179.53	-0.9	-98.8	429.9	412.4	17.48	24.594		
4,000.0	3,950.3	3,985.6	3,978.6	13.7	9.0	-179.91	-5.5	-105.6	441.2	423.2	17.96	24.565		
4,100.0	4,048.6	4,073.0	4,065.8	14.1	9.2	-179.55	-8.5	-110.1	454.5	436.1	18.40	24.699		
4,200.0	4,146.8	4,159.7	4,152.5	14.5	9.3	-179.39	-10.0	-112.4	470.5	451.6	18.84	24.975		
4,300.0	4,245.1	4,251.3	4,244.1	15.0	9.5	-179.39	-10.2	-112.8	488.7	469.4	19.28	25.349		
4,400.0	4,343.3	4,349.6	4,342.3	15.4	9.7	-179.41	-10.2	-112.8	507.3	487.6	19.74	25.705		
4,500.0	4,441.6	4,447.8	4,440.6	15.8	9.9	-179.43	-10.2	-112.8	525.9	505.8	20.20	26.040		
4,600.0	4,539.8	4,546.1	4,538.8	16.2	10.1	-179.45	-10.2	-112.8	544.6	523.9	20.66	26.360		
4,700.0	4,638.1	4,644.3	4,637.1	16.7	10.3	-179.47	-10.2	-112.8	563.2	542.1	21.12	26.665		
4,800.0	4,736.3	4,742.6	4,735.3	17.1	10.5	-179.49	-10.2	-112.8	581.8	560.2	21.58	26.956		
4,900.0	4,834.5	4,840.8	4,833.2	17.5	10.7	-179.51	-10.2	-112.8	600.4	578.6	22.04	27.247		
5,000.0	4,932.7	4,939.0	4,931.4	17.9	10.9	-179.53	-10.2	-112.8	619.0	597.2	22.50	27.538		
5,100.0	5,030.9	5,037.2	5,025.0	18.3	11.1	-179.55	-10.2	-112.8	637.6	615.8	22.96	27.829		
5,200.0	5,129.1	5,135.4	5,122.2	18.7	11.3	-179.57	-10.2	-112.8	656.2	634.4	23.42	28.120		
5,300.0	5,227.3	5,233.6	5,220.4	19.1	11.5	-179.59	-10.2	-112.8	674.8	653.0	23.88	28.411		
5,400.0	5,325.5	5,331.8	5,312.8	19.5	11.7	-179.61	-10.2	-112.8	693.4	671.6	24.34	28.702		
5,500.0	5,423.7	5,429.9	5,405.6	19.9	11.9	-179.63	-10.2	-112.8	712.0	690.2	24.80	28.993		
5,600.0	5,521.9	5,528.2	5,502.0	20.3	12.1	-179.65	-10.2	-112.8	730.6	708.8	25.26	29.284		
5,700.0	5,620.1	5,626.4	5,593.2	20.7	12.3	-179.67	-10.2	-112.8	749.2	727.4	25.72	29.575		
5,800.0	5,718.3	5,724.6	5,685.0	21.1	12.5	-179.69	-10.2	-112.8	767.8	746.0	26.18	29.866		
5,900.0	5,816.5	5,822.8	5,776.2	21.5	12.7	-179.71	-10.2	-112.8	786.4	764.6	26.64	30.157		
6,000.0	5,914.7	5,921.0	5,868.2	21.9	12.9	-179.73	-10.2	-112.8	805.0	783.2	27.10	30.448		
6,100.0	6,012.9	6,019.2	5,960.4	22.3	13.1	-179.75	-10.2	-112.8	823.6	801.8	27.56	30.739		
6,200.0	6,111.1	6,117.4	6,052.6	22.7	13.3	-179.77	-10.2	-112.8	842.2	820.4	28.02	31.030		
6,300.0	6,209.3	6,215.6	6,145.8	23.1	13.5	-179.79	-10.2	-112.8	860.8	839.0	28.48	31.321		
6,400.0	6,307.5	6,313.8	6,238.0	23.5	13.7	-179.81	-10.2	-112.8	879.4	857.6	28.94	31.612		
6,500.0	6,405.7	6,412.0	6,326.2	23.9	13.9	-179.83	-10.2	-112.8	898.0	876.2	29.40	31.903		
6,600.0	6,503.9	6,510.2	6,418.4	24.3	14.1	-179.85	-10.2	-112.8	916.6	894.8	29.86	32.194		
6,700.0	6,602.1	6,608.4	6,510.6	24.7	14.3	-179.87	-10.2	-112.8	935.2	913.4	30.32	32.485		
6,800.0	6,700.3	6,706.6	6,602.8	25.1	14.5	-179.89	-10.2	-112.8	953.8	932.0	30.78	32.776		
6,900.0	6,798.5	6,804.8	6,695.0	25.5	14.7	-179.91	-10.2	-112.8	972.4	950.6	31.24	33.067		
7,000.0	6,896.7	6,903.0	6,787.2	25.9	14.9	-179.93	-10.2	-112.8	991.0	969.2	31.70	33.358		
7,100.0	6,994.9	6,999.2	6,880.4	26.3	15.1	-179.95	-10.2	-112.8	1,009.6	987.8	32.16	33.649		
7,200.0	7,093.1	7,097.4	6,974.6	26.7	15.3	-179.97	-10.2	-112.8	1,028.2	1,006.4	32.62	33.940		
7,300.0	7,191.3	7,195.6	7,066.8	27.1	15.5	-179.99	-10.2	-112.8	1,046.8	1,025.0	33.08	34.231		
7,400.0	7,289.5	7,293.8	7,165.0	27.5	15.7	-180.01	-10.2	-112.8	1,065.4	1,043.6	33.54	34.522		
7,500.0	7,387.7	7,392.0	7,258.2	27.9	15.9	-180.03	-10.2	-112.8	1,084.0	1,062.2	34.00	34.813		
7,600.0	7,485.9	7,490.2	7,356.4	28.3	16.1	-180.05	-10.2	-112.8	1,102.6	1,080.8	34.46	35.104		
7,700.0	7,584.1	7,588.4	7,454.6	28.7	16.3	-180.07	-10.2	-112.8	1,121.2	1,099.4	34.92	35.395		
7,800.0	7,682.3	7,686.6	7,550.8	29.1	16.5	-180.09	-10.2	-112.8	1,139.8	1,118.0	35.38	35.686		
7,900.0	7,780.5	7,784.8	7,645.0	29.5	16.7	-180.11	-10.2	-112.8	1,158.4	1,136.6	35.84	35.977		
8,000.0	7,878.7	7,883.0	7,743.2	29.9	16.9	-180.13	-10.2	-112.8	1,177.0	1,155.2	36.30	36.268		
8,100.0	7,976.9	7,981.2	7,841.4	30.3	17.1	-180.15	-10.2	-112.8	1,195.6	1,173.8	36.76	36.559		
8,200.0	8													

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey K-11-2HN - Wellbore #1 - Plan #1 (7-02-14)												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
8,800.0	7,987.0	7,737.5	7,662.0	31.6	16.7	-41.88	227.9	-112.0	436.6	400.6	35.92	12.153	
8,835.1	7,987.0	7,737.5	7,662.0	32.1	16.7	-41.88	227.9	-112.0	435.2	398.8	36.31	11.984	
8,900.0	7,987.0	7,737.5	7,662.0	33.1	16.7	-41.88	227.9	-112.0	440.0	402.9	37.03	11.882 SF	
9,000.0	7,987.0	7,737.5	7,662.0	34.9	16.7	-41.88	227.9	-112.0	465.3	427.1	38.24	12.170	
9,100.0	7,987.0	7,737.5	7,662.0	36.7	16.7	-41.88	227.9	-112.0	509.4	469.9	39.53	12.886	
9,200.0	7,987.0	7,737.5	7,662.0	38.7	16.7	-41.88	227.9	-112.0	567.9	527.0	40.91	13.882	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey L-11-2HN - Wellbore #1 - Plan #1 (7-01-14)													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		
0.0	0.0	0.0	0.0	0.0	0.0	19.97	98.7	35.9	105.0					
100.0	100.0	99.0	99.0	0.1	0.1	19.97	98.7	35.9	105.0	104.8	0.22	469.680		
200.0	200.0	199.0	199.0	0.3	0.3	19.97	98.7	35.9	105.0	104.4	0.67	156.300		
300.0	300.0	299.0	299.0	0.6	0.6	19.97	98.7	35.9	105.0	103.9	1.12	93.655		
400.0	400.0	399.0	399.0	0.8	0.8	19.97	98.7	35.9	105.0	103.5	1.57	66.858		
500.0	500.0	499.0	499.0	1.0	1.0	19.97	98.7	35.9	105.0	103.0	2.02	51.984		
600.0	600.0	599.0	599.0	1.2	1.2	19.97	98.7	35.9	105.0	102.6	2.47	42.524		
700.0	700.0	699.0	699.0	1.5	1.5	19.97	98.7	35.9	105.0	102.1	2.92	35.977		
800.0	800.0	799.0	799.0	1.7	1.7	19.97	98.7	35.9	105.0	101.7	3.37	31.177 CC, ES		
900.0	900.0	899.0	899.0	1.9	1.9	113.40	98.7	35.9	105.7	101.9	3.81	27.782		
1,000.0	999.8	998.8	998.8	2.1	2.1	115.91	98.7	35.9	107.9	103.7	4.23	25.481		
1,100.0	1,099.5	1,098.5	1,098.5	2.3	2.4	119.84	98.7	35.9	112.0	107.3	4.68	23.955		
1,200.0	1,198.7	1,197.7	1,197.7	2.6	2.6	124.82	98.7	35.9	118.6	113.4	5.13	23.120		
1,300.0	1,297.5	1,296.5	1,296.5	2.9	2.8	130.38	98.7	35.9	128.2	122.6	5.59	22.933		
1,400.0	1,395.8	1,394.8	1,394.8	3.2	3.0	135.98	98.7	35.9	140.9	134.8	6.06	23.250		
1,500.0	1,494.0	1,493.0	1,493.0	3.5	3.2	140.74	98.7	35.9	154.9	148.4	6.53	23.720		
1,600.0	1,592.3	1,591.3	1,591.3	3.9	3.5	144.69	98.7	35.9	169.8	162.8	7.00	24.263		
1,700.0	1,690.5	1,689.5	1,689.5	4.3	3.7	148.00	98.7	35.9	185.4	178.0	7.47	24.837		
1,800.0	1,788.8	1,787.8	1,787.8	4.6	3.9	150.80	98.7	35.9	201.5	193.6	7.93	25.414		
1,900.0	1,887.0	1,886.0	1,886.0	5.0	4.1	153.18	98.7	35.9	218.0	209.6	8.39	25.979		
2,000.0	1,985.3	1,984.3	1,984.3	5.4	4.3	155.22	98.7	35.9	234.9	226.0	8.85	26.523		
2,100.0	2,083.5	2,078.6	2,078.6	5.8	4.5	157.13	98.2	36.8	252.6	243.3	9.29	27.186		
2,200.0	2,181.8	2,171.2	2,171.1	6.2	4.7	159.28	96.1	40.3	272.4	262.7	9.70	28.081		
2,300.0	2,280.0	2,262.4	2,262.1	6.6	4.9	161.59	92.6	46.2	294.5	284.4	10.10	29.157		
2,400.0	2,378.3	2,358.3	2,357.5	7.0	5.1	163.93	88.0	54.0	318.3	307.8	10.51	30.280		
2,500.0	2,476.5	2,454.6	2,453.4	7.5	5.3	165.96	83.4	61.8	342.5	331.6	10.93	31.341		
2,600.0	2,574.8	2,551.0	2,549.3	7.9	5.5	167.73	78.8	69.6	367.1	355.7	11.35	32.335		
2,700.0	2,673.0	2,647.3	2,645.2	8.3	5.7	169.27	74.2	77.4	391.9	380.1	11.78	33.259		
2,800.0	2,771.3	2,743.7	2,741.2	8.7	5.9	170.64	69.6	85.2	417.0	404.8	12.22	34.124		
2,900.0	2,869.5	2,840.0	2,837.1	9.1	6.2	171.84	64.9	93.0	442.3	429.7	12.66	34.930		
3,000.0	2,967.8	2,936.4	2,933.0	9.5	6.4	172.92	60.3	100.8	467.8	454.7	13.11	35.680		
3,100.0	3,066.0	3,032.7	3,028.9	9.9	6.6	173.89	55.7	108.6	493.4	479.8	13.56	36.381		
3,200.0	3,164.3	3,129.1	3,124.8	10.4	6.9	174.76	51.1	116.4	519.1	505.1	14.02	37.034		
3,300.0	3,262.5	3,225.4	3,220.8	10.8	7.1	175.55	46.5	124.2	544.9	530.4	14.47	37.646		
3,400.0	3,360.8	3,321.8	3,316.7	11.2	7.3	176.27	41.9	132.1	570.8	555.9	14.94	38.218		
3,500.0	3,459.0	3,418.1	3,412.6	11.6	7.6	176.92	37.3	139.9	596.8	581.4	15.40	38.753		
8,800.0	7,987.0	7,738.3	7,660.9	31.6	16.8	-41.94	228.4	218.2	569.6	533.6	36.00	15.823		
8,900.0	7,987.0	7,738.3	7,660.9	33.1	16.8	-41.94	228.4	218.2	511.3	474.2	37.10	13.779		
9,000.0	7,987.0	7,738.3	7,660.9	34.9	16.8	-41.94	228.4	218.2	467.3	429.0	38.31	12.196		
9,100.0	7,987.0	7,738.3	7,660.9	36.7	16.8	-41.94	228.4	218.2	441.9	402.3	39.61	11.156		
9,165.3	7,987.0	7,738.3	7,660.9	38.0	16.8	-41.94	228.4	218.2	437.1	396.6	40.51	10.789		
9,200.0	7,987.0	7,738.3	7,660.9	38.7	16.8	-41.94	228.4	218.2	438.4	397.5	40.99	10.697 SF		
9,300.0	7,987.0	7,738.3	7,660.9	40.8	16.8	-41.94	228.4	218.2	457.4	414.9	42.43	10.779		
9,400.0	7,987.0	7,738.3	7,660.9	42.9	16.8	-41.94	228.4	218.2	496.1	452.2	43.93	11.294		
9,500.0	7,987.0	7,738.3	7,660.9	45.2	16.8	-41.94	228.4	218.2	550.5	505.0	45.47	12.107		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-11-12HN - Wellbore #1 - Plan #1 (7-02-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		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	20.03	13.8	5.0	14.7	14.7	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	20.03	13.8	5.0	14.7	14.5	0.22	65.532		
200.0	200.0	200.0	200.0	0.3	0.3	20.03	13.8	5.0	14.7	14.1	0.67	21.844		
300.0	300.0	300.0	300.0	0.6	0.6	20.03	13.8	5.0	14.7	13.6	1.12	13.106		
400.0	400.0	400.0	400.0	0.8	0.8	20.03	13.8	5.0	14.7	13.2	1.57	9.362		
500.0	500.0	500.0	500.0	1.0	1.0	20.03	13.8	5.0	14.7	12.7	2.02	7.281		
600.0	600.0	600.0	600.0	1.2	1.2	20.03	13.8	5.0	14.7	12.3	2.47	5.957		
700.0	700.0	700.0	700.0	1.5	1.5	20.03	13.8	5.0	14.7	11.8	2.92	5.041		
800.0	800.0	800.0	800.0	1.7	1.7	20.03	13.8	5.0	14.7	11.4	3.37	4.369 CC, ES		
900.0	900.0	900.0	900.0	1.9	1.9	118.56	13.8	5.0	15.5	11.7	3.81	4.067		
1,000.0	999.8	999.8	999.8	2.1	2.1	132.84	13.8	5.0	18.6	14.3	4.23	4.384		
1,100.0	1,099.5	1,100.1	1,100.1	2.3	2.3	144.79	14.0	3.3	24.0	19.4	4.65	5.160		
1,200.0	1,198.7	1,200.6	1,200.4	2.6	2.6	151.42	14.4	-2.0	30.3	25.2	5.06	5.990		
1,300.0	1,297.5	1,301.3	1,300.8	2.9	2.8	155.12	15.1	-10.7	37.1	31.6	5.48	6.766		
1,400.0	1,395.8	1,402.3	1,401.0	3.2	3.0	156.81	16.1	-23.1	43.4	37.5	5.92	7.334		
1,500.0	1,494.0	1,503.7	1,501.1	3.5	3.3	156.08	17.3	-39.0	47.0	40.6	6.41	7.335		
1,600.0	1,592.3	1,605.0	1,600.6	3.9	3.6	153.20	18.8	-58.4	47.6	40.6	6.94	6.854		
1,700.0	1,690.5	1,705.2	1,698.4	4.3	4.0	148.64	20.5	-80.0	46.3	38.8	7.55	6.142		
1,800.0	1,788.8	1,805.2	1,795.9	4.6	4.4	143.83	22.2	-101.6	45.4	37.2	8.22	5.520		
1,900.0	1,887.0	1,905.1	1,893.5	5.0	4.8	138.84	24.0	-123.1	44.7	35.8	8.97	4.990		
2,000.0	1,985.3	2,005.0	1,991.0	5.4	5.2	133.75	25.7	-144.7	44.5	34.7	9.79	4.544		
2,030.0	2,014.7	2,035.0	2,020.3	5.5	5.3	132.21	26.2	-151.2	44.5	34.4	10.05	4.425		
2,100.0	2,083.5	2,104.9	2,088.6	5.8	5.6	128.63	27.4	-166.3	44.5	33.9	10.67	4.175		
2,200.0	2,181.8	2,204.9	2,186.1	6.2	6.0	123.57	29.1	-187.9	45.0	33.4	11.60	3.878		
2,300.0	2,280.0	2,304.8	2,283.7	6.6	6.5	118.65	30.8	-209.4	45.7	33.2	12.56	3.642		
2,400.0	2,378.3	2,404.7	2,381.2	7.0	6.9	113.91	32.5	-231.0	46.8	33.3	13.53	3.460		
2,500.0	2,476.5	2,504.6	2,478.8	7.5	7.4	109.43	34.2	-252.6	48.2	33.7	14.51	3.323		
2,600.0	2,574.8	2,604.5	2,576.3	7.9	7.8	105.22	35.9	-274.2	49.9	34.4	15.48	3.224		
2,700.0	2,673.0	2,704.5	2,673.9	8.3	8.3	101.30	37.6	-295.7	51.8	35.4	16.43	3.155		
2,800.0	2,771.3	2,804.4	2,771.4	8.7	8.7	97.68	39.3	-317.3	54.0	36.6	17.35	3.110		
2,900.0	2,869.5	2,904.3	2,869.0	9.1	9.2	94.35	41.0	-338.9	56.3	38.1	18.26	3.084		
3,000.0	2,967.8	3,004.2	2,966.5	9.5	9.6	91.29	42.7	-360.5	58.8	39.7	19.14	3.074		
3,100.0	3,066.0	3,104.1	3,064.1	9.9	10.1	88.49	44.4	-382.1	61.5	41.5	20.00	3.076		
3,200.0	3,164.3	3,204.1	3,161.6	10.4	10.6	85.94	46.1	-403.6	64.3	43.5	20.84	3.087		
3,300.0	3,262.5	3,304.0	3,259.2	10.8	11.0	83.59	47.8	-425.2	67.3	45.6	21.66	3.105		
3,400.0	3,360.8	3,403.9	3,356.7	11.2	11.5	81.45	49.5	-446.8	70.3	47.8	22.47	3.129		
3,500.0	3,459.0	3,503.8	3,454.3	11.6	12.0	79.49	51.2	-468.4	73.4	50.2	23.26	3.157		
3,600.0	3,557.3	3,603.7	3,551.8	12.0	12.4	77.69	52.9	-489.9	76.6	52.6	24.04	3.188		
3,700.0	3,655.5	3,703.7	3,649.4	12.4	12.9	76.04	54.6	-511.5	79.9	55.1	24.81	3.221		
3,800.0	3,753.8	3,803.6	3,746.9	12.9	13.4	74.51	56.3	-533.1	83.2	57.7	25.57	3.256		
3,900.0	3,852.1	3,903.5	3,844.5	13.3	13.8	73.11	58.0	-554.7	86.6	60.3	26.32	3.291		
4,000.0	3,950.3	4,003.4	3,942.0	13.7	14.3	71.81	59.7	-576.2	90.1	63.0	27.06	3.328		
4,100.0	4,048.6	4,103.3	4,039.6	14.1	14.8	70.61	61.4	-597.8	93.5	65.7	27.80	3.364		
4,200.0	4,146.8	4,203.3	4,137.1	14.5	15.3	69.49	63.1	-619.4	97.0	68.5	28.54	3.401		
4,300.0	4,245.1	4,303.2	4,234.7	15.0	15.7	68.45	64.8	-641.0	100.6	71.3	29.27	3.437		
4,400.0	4,343.3	4,403.1	4,332.2	15.4	16.2	67.49	66.5	-662.5	104.2	74.2	30.00	3.473		
4,500.0	4,441.6	4,503.0	4,429.8	15.8	16.7	66.58	68.2	-684.1	107.8	77.1	30.72	3.509		
4,600.0	4,539.8	4,603.0	4,527.3	16.2	17.1	65.74	69.9	-705.7	111.4	80.0	31.44	3.544		
4,700.0	4,638.1	4,702.9	4,624.9	16.7	17.6	64.95	71.6	-727.3	115.1	82.9	32.16	3.578		
4,800.0	4,736.3	4,802.8	4,722.4	17.1	18.1	64.21	73.3	-748.9	118.8	85.9	32.88	3.612		
4,900.0	4,834.6	4,902.7	4,820.0	17.5	18.6	63.51	75.0	-770.4	122.5	88.9	33.60	3.645		
5,000.0	4,932.8	5,002.6	4,917.5	17.9	19.0	62.86	76.7	-792.0	126.2	91.9	34.31	3.677		

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-11-12HN - Wellbore #1 - Plan #1 (7-02-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.0	5,031.1	5,102.6	5,015.1	18.3	19.5	62.24	78.4	-813.6	129.9	94.9	35.02	3.709		
5,200.0	5,129.3	5,202.5	5,112.6	18.8	20.0	61.65	80.1	-835.2	133.6	97.9	35.74	3.740		
5,300.0	5,227.6	5,302.4	5,210.1	19.2	20.5	61.10	81.8	-856.7	137.4	100.9	36.45	3.770		
5,400.0	5,325.8	5,402.3	5,307.7	19.6	20.9	60.58	83.5	-878.3	141.2	104.0	37.16	3.799		
5,500.0	5,424.1	5,502.2	5,405.2	20.0	21.4	60.09	85.2	-899.9	144.9	107.1	37.87	3.828		
5,600.0	5,522.3	5,602.2	5,502.8	20.5	21.9	59.62	86.9	-921.5	148.7	110.1	38.58	3.855		
5,700.0	5,620.6	5,702.1	5,600.3	20.9	22.3	59.17	88.6	-943.0	152.5	113.2	39.28	3.883		
5,800.0	5,718.8	5,802.0	5,697.9	21.3	22.8	58.74	90.3	-964.6	156.3	116.3	39.99	3.909		
5,900.0	5,817.1	5,901.9	5,795.4	21.7	23.3	58.34	92.0	-986.2	160.1	119.4	40.70	3.935		
6,000.0	5,915.3	6,001.8	5,893.0	22.2	23.8	57.95	93.7	-1,007.8	164.0	122.6	41.41	3.960		
6,100.0	6,013.6	6,101.8	5,990.5	22.6	24.2	57.58	95.4	-1,029.3	167.8	125.7	42.12	3.984		
6,200.0	6,111.8	6,201.7	6,088.1	23.0	24.7	57.23	97.1	-1,050.9	171.6	128.8	42.82	4.008		
6,300.0	6,210.1	6,301.6	6,185.6	23.4	25.2	56.90	98.9	-1,072.5	175.5	131.9	43.53	4.031		
6,400.0	6,308.3	6,401.7	6,283.3	23.8	25.7	56.57	100.6	-1,094.1	179.3	135.1	44.23	4.054		
6,500.0	6,406.6	6,505.9	6,385.5	24.3	26.0	56.74	102.2	-1,114.6	181.9	137.0	44.96	4.046		
6,600.0	6,504.9	6,610.1	6,488.3	24.7	26.3	57.81	103.5	-1,131.4	182.2	136.3	45.90	3.969		
6,700.0	6,603.1	6,714.0	6,591.3	25.1	26.6	59.82	104.5	-1,144.4	180.3	133.2	47.06	3.831		
6,800.0	6,701.4	6,817.2	6,694.2	25.5	26.8	62.85	105.3	-1,153.7	176.5	128.1	48.42	3.646		
6,900.0	6,799.6	6,919.7	6,796.5	26.0	26.9	67.02	105.7	-1,159.2	171.5	121.5	49.96	3.432		
7,000.0	6,897.9	7,021.0	6,897.8	26.4	27.1	72.49	105.8	-1,161.1	165.8	114.2	51.59	3.214		
7,100.0	6,996.1	7,119.3	6,996.1	26.8	27.2	78.72	105.8	-1,161.1	161.1	108.0	53.07	3.035		
7,200.0	7,094.4	7,219.1	7,095.8	27.2	27.3	86.05	105.8	-1,159.0	158.2	103.9	54.26	2.915		
7,251.3	7,144.9	7,269.2	7,145.6	27.4	27.3	91.78	105.8	-1,153.4	157.5	103.0	54.60	2.886		
7,300.0	7,193.0	7,314.9	7,190.6	27.6	27.2	98.66	105.8	-1,145.3	158.3	103.7	54.64	2.898		
7,400.0	7,292.8	7,406.5	7,278.7	27.7	27.1	-92.24	105.7	-1,120.5	164.4	110.7	53.69	3.061		
7,500.0	7,392.2	7,495.0	7,360.1	27.7	26.9	-69.62	105.6	-1,086.0	175.2	123.4	51.80	3.382		
7,600.0	7,489.3	7,580.7	7,434.3	27.6	26.6	-60.59	105.4	-1,043.2	189.1	139.8	49.35	3.833		
7,700.0	7,582.1	7,664.0	7,501.1	27.4	26.4	-53.88	105.3	-993.4	204.6	158.0	46.64	4.388		
7,800.0	7,668.8	7,745.5	7,560.2	27.1	26.2	-48.70	105.1	-937.4	220.5	176.6	43.88	5.024		
7,900.0	7,747.8	7,825.4	7,611.7	26.8	26.1	-44.69	104.9	-876.4	235.7	194.4	41.25	5.714		
8,000.0	7,817.5	7,900.0	7,653.4	26.6	26.0	-41.70	104.7	-814.6	249.5	210.6	38.94	6.408		
8,100.0	7,876.6	7,981.5	7,691.2	26.5	26.1	-39.28	104.5	-742.5	261.5	224.4	37.03	7.061		
8,200.0	7,923.8	8,058.2	7,719.1	26.5	26.3	-37.57	104.2	-671.1	271.2	235.4	35.83	7.569		
8,300.0	7,958.4	8,134.3	7,739.0	26.8	26.7	-36.40	104.0	-597.6	278.4	243.0	35.45	7.855		
8,400.0	7,979.6	8,210.0	7,751.0	27.3	27.2	-35.69	103.7	-522.9	282.9	247.0	35.93	7.875		
8,500.0	7,987.0	8,288.0	7,755.0	28.0	27.8	-35.42	103.5	-445.1	284.7	247.5	37.25	7.642		
8,514.2	7,987.0	8,298.8	7,755.0	28.2	27.9	-35.41	103.4	-434.2	284.8	247.4	37.41	7.612		
8,600.0	7,987.0	8,384.7	7,754.7	29.0	28.8	-35.39	103.2	-348.4	285.0	246.4	38.57	7.389		
8,700.0	7,987.0	8,484.7	7,754.3	30.2	30.1	-35.35	102.8	-248.4	285.3	245.1	40.12	7.110		
8,800.0	7,987.0	8,584.7	7,754.0	31.6	31.5	-35.31	102.5	-148.4	285.5	243.6	41.90	6.814		
8,900.0	7,987.0	8,684.7	7,753.6	33.1	33.1	-35.27	102.2	-48.4	285.8	241.9	43.88	6.514		
9,000.0	7,987.0	8,784.7	7,753.3	34.9	34.9	-35.23	101.8	51.6	286.1	240.1	46.02	6.216		
9,100.0	7,987.0	8,884.7	7,752.9	36.7	36.8	-35.19	101.5	151.6	286.4	238.1	48.32	5.927		
9,200.0	7,987.0	8,984.7	7,752.6	38.7	38.8	-35.15	101.2	251.6	286.7	235.9	50.73	5.650		
9,300.0	7,987.0	9,084.7	7,752.3	40.8	40.9	-35.11	100.9	351.6	286.9	233.7	53.26	5.388		
9,400.0	7,987.0	9,184.7	7,751.9	42.9	43.1	-35.07	100.5	451.6	287.2	231.4	55.88	5.140		
9,500.0	7,987.0	9,284.7	7,751.6	45.2	45.3	-35.03	100.2	551.6	287.5	228.9	58.57	4.909		
9,600.0	7,987.0	9,384.7	7,751.2	47.5	47.6	-34.99	99.9	651.6	287.8	226.5	61.33	4.692		
9,700.0	7,987.0	9,484.7	7,750.9	49.8	50.0	-34.95	99.5	751.6	288.1	223.9	64.15	4.490		
9,800.0	7,987.0	9,584.7	7,750.5	52.2	52.4	-34.91	99.2	851.6	288.4	221.3	67.02	4.302		
9,900.0	7,987.0	9,684.7	7,750.2	54.6	54.8	-34.87	98.9	951.6	288.6	218.7	69.94	4.127		
10,000.0	7,987.0	9,784.7	7,749.8	57.1	57.3	-34.83	98.6	1,051.6	288.9	216.0	72.89	3.964		

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-11-12HN - Wellbore #1 - Plan #1 (7-02-14)												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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,100.0	7,987.0	9,884.7	7,749.5	59.6	59.8	-34.79	98.2	1,151.6	289.2	213.3	75.87	3.812	
10,200.0	7,987.0	9,984.7	7,749.1	62.1	62.3	-34.75	97.9	1,251.6	289.5	210.6	78.88	3.670	
10,300.0	7,987.0	10,084.7	7,748.8	64.6	64.9	-34.71	97.6	1,351.6	289.8	207.9	81.91	3.538	
10,400.0	7,987.0	10,184.7	7,748.5	67.2	67.5	-34.68	97.3	1,451.6	290.1	205.1	84.96	3.414	
10,500.0	7,987.0	10,284.7	7,748.1	69.8	70.1	-34.64	96.9	1,551.6	290.3	202.3	88.03	3.298	
10,600.0	7,987.0	10,384.7	7,747.8	72.4	72.7	-34.60	96.6	1,651.6	290.6	199.5	91.12	3.189	
10,700.0	7,987.0	10,484.7	7,747.4	75.0	75.3	-34.56	96.3	1,751.6	290.9	196.7	94.22	3.087	
10,800.0	7,987.0	10,584.7	7,747.1	77.6	77.9	-34.52	95.9	1,851.6	291.2	193.9	97.33	2.992	
10,900.0	7,987.0	10,684.7	7,746.7	80.2	80.6	-34.48	95.6	1,951.6	291.5	191.0	100.46	2.902	
11,000.0	7,987.0	10,784.7	7,746.4	82.9	83.2	-34.44	95.3	2,051.6	291.8	188.2	103.59	2.817	
11,100.0	7,987.0	10,884.7	7,746.0	85.5	85.9	-34.41	95.0	2,151.6	292.0	185.3	106.72	2.736	
11,200.0	7,987.0	10,984.7	7,745.7	88.2	88.6	-34.37	94.6	2,251.6	292.3	182.5	109.87	2.661	
11,300.0	7,987.0	11,084.7	7,745.4	90.9	91.2	-34.33	94.3	2,351.6	292.6	179.6	113.02	2.589	
11,400.0	7,987.0	11,184.7	7,745.0	93.6	93.9	-34.29	94.0	2,451.6	292.9	176.7	116.17	2.521	
11,500.0	7,987.0	11,284.7	7,744.7	96.3	96.6	-34.25	93.6	2,551.6	293.2	173.9	119.33	2.457	
11,600.0	7,987.0	11,384.7	7,744.3	99.0	99.3	-34.22	93.3	2,651.6	293.5	171.0	122.49	2.396	
11,700.0	7,987.0	11,484.7	7,744.0	101.7	102.0	-34.18	93.0	2,751.6	293.8	168.1	125.65	2.338	
11,800.0	7,987.0	11,584.7	7,743.6	104.4	104.7	-34.14	92.7	2,851.6	294.0	165.2	128.82	2.283	
11,900.0	7,987.0	11,684.7	7,743.3	107.1	107.5	-34.10	92.3	2,951.6	294.3	162.3	131.98	2.230	
12,000.0	7,987.0	11,784.7	7,742.9	109.8	110.2	-34.06	92.0	3,051.6	294.6	159.5	135.15	2.180	
12,100.0	7,987.0	11,884.7	7,742.6	112.5	112.9	-34.03	91.7	3,151.6	294.9	156.6	138.32	2.132	
12,200.0	7,987.0	11,984.7	7,742.3	115.3	115.6	-33.99	91.3	3,251.6	295.2	153.7	141.49	2.086	
12,300.0	7,987.0	12,084.7	7,741.9	118.0	118.4	-33.95	91.0	3,351.6	295.5	150.8	144.65	2.043	
12,400.0	7,987.0	12,184.7	7,741.6	120.7	121.1	-33.91	90.7	3,451.6	295.8	147.9	147.82	2.001	
12,500.0	7,987.0	12,284.7	7,741.2	123.5	123.8	-33.88	90.4	3,551.6	296.0	145.1	150.98	1.961	
12,600.0	7,987.0	12,384.7	7,740.9	126.2	126.6	-33.84	90.0	3,651.6	296.3	142.2	154.15	1.922	
12,700.0	7,987.0	12,484.7	7,740.5	128.9	129.3	-33.80	89.7	3,751.6	296.6	139.3	157.31	1.886	
12,800.0	7,987.0	12,584.7	7,740.2	131.7	132.1	-33.77	89.4	3,851.6	296.9	136.4	160.47	1.850	
12,853.1	7,987.0	12,637.7	7,740.0	133.1	133.5	-33.75	89.2	3,904.6	297.1	134.9	162.15	1.832 SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-11-2HC - Wellbore #1 - Plan #1 (7-01-14)													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	33.81	98.4	65.9	118.4					
100.0	100.0	98.0	98.0	0.1	0.1	33.81	98.4	65.9	118.4	118.2	0.22	531.972		
200.0	200.0	198.0	198.0	0.3	0.3	33.81	98.4	65.9	118.4	117.7	0.67	176.732		
300.0	300.0	298.0	298.0	0.6	0.6	33.81	98.4	65.9	118.4	117.3	1.12	105.755		
400.0	400.0	398.0	398.0	0.8	0.8	33.81	98.4	65.9	118.4	116.8	1.57	75.453		
500.0	500.0	498.0	498.0	1.0	1.0	33.81	98.4	65.9	118.4	116.4	2.02	58.648		
600.0	600.0	598.0	598.0	1.2	1.2	33.81	98.4	65.9	118.4	115.9	2.47	47.966		
700.0	700.0	698.0	698.0	1.5	1.5	33.81	98.4	65.9	118.4	115.5	2.92	40.575		
800.0	800.0	798.0	798.0	1.7	1.7	33.81	98.4	65.9	118.4	115.0	3.37	35.158 CC, ES		
900.0	900.0	896.2	896.2	1.9	1.9	127.71	98.1	67.5	120.1	116.3	3.78	31.738		
1,000.0	999.8	993.8	993.6	2.1	2.1	131.50	97.3	72.3	125.8	121.6	4.19	30.039		
1,100.0	1,099.5	1,089.9	1,089.5	2.3	2.3	136.98	95.9	80.3	136.5	131.8	4.61	29.596		
1,200.0	1,198.7	1,184.1	1,183.0	2.6	2.5	143.18	94.1	91.2	153.2	148.1	5.05	30.342		
1,300.0	1,297.5	1,279.8	1,277.8	2.9	2.8	149.16	92.0	104.0	175.7	170.2	5.49	31.980		
1,400.0	1,395.8	1,374.8	1,371.9	3.2	3.0	154.23	89.9	116.6	202.3	196.3	5.94	34.067		
1,500.0	1,494.0	1,469.7	1,465.9	3.5	3.3	158.22	87.8	129.2	230.2	223.8	6.38	36.071		
1,600.0	1,592.3	1,564.6	1,559.9	3.9	3.6	161.36	85.7	141.9	259.0	252.2	6.83	37.931		
1,700.0	1,690.5	1,659.4	1,653.9	4.3	3.9	163.87	83.6	154.5	288.4	281.1	7.27	39.636		
1,800.0	1,788.8	1,754.3	1,748.0	4.6	4.2	165.92	81.4	167.1	318.1	310.4	7.73	41.175		
1,900.0	1,887.0	1,849.2	1,842.0	5.0	4.5	167.62	79.3	179.8	348.2	340.0	8.18	42.579		
2,000.0	1,985.3	1,944.1	1,936.0	5.4	4.8	169.05	77.2	192.4	378.5	369.9	8.63	43.850		
2,100.0	2,083.5	2,039.0	2,030.1	5.8	5.1	170.27	75.1	205.0	409.0	400.0	9.09	45.002		
2,200.0	2,181.8	2,133.9	2,124.1	6.2	5.4	171.32	73.0	217.7	439.7	430.1	9.55	46.047		
2,300.0	2,280.0	2,228.8	2,218.1	6.6	5.7	172.23	70.9	230.3	470.5	460.5	10.01	46.999		
2,400.0	2,378.3	2,323.7	2,312.1	7.0	6.0	173.04	68.8	242.9	501.3	490.9	10.47	47.867		
2,500.0	2,476.5	2,418.6	2,406.2	7.5	6.3	173.75	66.7	255.5	532.3	521.3	10.94	48.660		
2,600.0	2,574.8	2,513.5	2,500.2	7.9	6.6	174.38	64.6	268.2	563.3	551.9	11.41	49.388		
2,700.0	2,673.0	2,608.4	2,594.2	8.3	7.0	174.94	62.4	280.8	594.4	582.5	11.87	50.057		
9,200.0	7,987.0	7,850.0	7,757.6	38.7	20.7	-47.52	183.0	712.9	570.2	523.6	46.67	12.219		
9,300.0	7,987.0	7,850.0	7,757.6	40.8	20.7	-47.52	183.0	712.9	493.1	444.8	48.24	10.222		
9,400.0	7,987.0	7,850.0	7,757.6	42.9	20.7	-47.52	183.0	712.9	425.5	375.7	49.87	8.533		
9,500.0	7,987.0	7,850.0	7,757.6	45.2	20.7	-47.52	183.0	712.9	372.9	321.3	51.56	7.233		
9,600.0	7,987.0	7,850.0	7,757.6	47.5	20.7	-47.52	183.0	712.9	342.1	288.8	53.29	6.419		
9,660.2	7,987.0	7,850.0	7,757.6	48.9	20.7	-47.52	183.0	712.9	336.7	282.4	54.35	6.195		
9,700.0	7,987.0	7,850.0	7,757.6	49.8	20.7	-47.52	183.0	712.9	339.1	284.0	55.06	6.158 SF		
9,800.0	7,987.0	7,850.0	7,757.6	52.2	20.7	-47.52	183.0	712.9	364.6	307.7	56.87	6.411		
9,900.0	7,987.0	7,850.0	7,757.6	54.6	20.7	-47.52	183.0	712.9	413.4	354.7	58.70	7.042		
10,000.0	7,987.0	7,850.0	7,757.6	57.1	20.7	-47.52	183.0	712.9	478.4	417.8	60.57	7.899		
10,100.0	7,987.0	7,850.0	7,757.6	59.6	20.7	-47.52	183.0	712.9	553.9	491.5	62.45	8.869		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-11-2HN - Wellbore #1 - Plan #1 (7-01-14)													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	27.41	98.4	51.0	110.8				
100.0	100.0	99.0	99.0	0.1	0.1	27.41	98.4	51.0	110.8	110.6	0.22	495.433	
200.0	200.0	199.0	199.0	0.3	0.3	27.41	98.4	51.0	110.8	110.1	0.67	164.870	
300.0	300.0	299.0	299.0	0.6	0.6	27.41	98.4	51.0	110.8	109.7	1.12	98.790	
400.0	400.0	399.0	399.0	0.8	0.8	27.41	98.4	51.0	110.8	109.2	1.57	70.524	
500.0	500.0	499.0	499.0	1.0	1.0	27.41	98.4	51.0	110.8	108.8	2.02	54.834	
600.0	600.0	599.0	599.0	1.2	1.2	27.41	98.4	51.0	110.8	108.3	2.47	44.855	
700.0	700.0	699.0	699.0	1.5	1.5	27.41	98.4	51.0	110.8	107.9	2.92	37.949	
800.0	800.0	799.0	799.0	1.7	1.7	27.41	98.4	51.0	110.8	107.4	3.37	32.886 CC, ES	
900.0	900.0	899.0	899.0	1.9	1.9	120.74	98.4	51.0	111.7	107.9	3.81	29.349	
1,000.0	999.8	998.8	998.8	2.1	2.1	122.95	98.4	51.0	114.4	110.2	4.23	27.031	
1,100.0	1,099.5	1,098.5	1,098.5	2.3	2.4	126.37	98.4	51.0	119.4	114.7	4.67	25.560	
1,200.0	1,198.7	1,197.7	1,197.7	2.6	2.6	130.66	98.4	51.0	127.0	121.9	5.12	24.813	
1,300.0	1,297.5	1,296.5	1,296.5	2.9	2.8	135.42	98.4	51.0	137.8	132.2	5.58	24.715	
1,400.0	1,395.8	1,394.8	1,394.8	3.2	3.0	140.21	98.4	51.0	151.5	145.5	6.04	25.088	
1,500.0	1,494.0	1,493.0	1,493.0	3.5	3.2	144.29	98.4	51.0	166.4	159.9	6.51	25.563	
1,600.0	1,592.3	1,587.4	1,587.4	3.9	3.4	147.89	98.1	52.3	182.9	175.9	6.95	26.301	
1,700.0	1,690.5	1,680.3	1,680.2	4.3	3.6	151.45	97.2	56.5	202.3	194.9	7.38	27.420	
1,800.0	1,788.8	1,771.7	1,771.2	4.6	3.8	154.87	95.6	63.6	224.9	217.1	7.80	28.835	
1,900.0	1,887.0	1,862.3	1,861.3	5.0	4.0	158.06	93.5	73.3	250.5	242.3	8.22	30.484	
2,000.0	1,985.3	1,957.6	1,956.0	5.4	4.2	160.95	91.1	84.6	277.8	269.2	8.64	32.139	
2,100.0	2,083.5	2,053.0	2,050.6	5.8	4.5	163.32	88.6	96.0	305.6	296.6	9.07	33.685	
2,200.0	2,181.8	2,148.3	2,145.2	6.2	4.7	165.30	86.2	107.3	333.9	324.4	9.51	35.115	
2,300.0	2,280.0	2,243.7	2,239.9	6.6	5.0	166.97	83.7	118.6	362.4	352.5	9.95	36.429	
2,400.0	2,378.3	2,339.0	2,334.5	7.0	5.2	168.39	81.3	129.9	391.2	380.8	10.39	37.647	
2,500.0	2,476.5	2,434.3	2,429.2	7.5	5.5	169.63	78.8	141.2	420.2	409.4	10.84	38.769	
2,600.0	2,574.8	2,529.7	2,523.8	7.9	5.7	170.70	76.3	152.5	449.3	438.0	11.29	39.804	
2,700.0	2,673.0	2,625.0	2,618.4	8.3	6.0	171.65	73.9	163.8	478.6	466.9	11.74	40.760	
2,800.0	2,771.3	2,720.4	2,713.1	8.7	6.3	172.48	71.4	175.2	508.0	495.8	12.20	41.644	
2,900.0	2,869.5	2,815.7	2,807.7	9.1	6.6	173.23	69.0	186.5	537.4	524.8	12.66	42.464	
3,000.0	2,967.8	2,911.0	2,902.3	9.5	6.8	173.90	66.5	197.8	567.0	553.9	13.12	43.225	
3,100.0	3,066.0	3,006.4	2,997.0	9.9	7.1	174.50	64.1	209.1	596.6	583.0	13.58	43.933	
9,200.0	7,987.0	7,700.0	7,590.9	38.7	18.8	-38.73	252.1	548.1	586.2	545.9	40.37	14.522	
9,300.0	7,987.0	7,700.0	7,590.9	40.8	18.8	-38.73	252.1	548.1	542.8	501.1	41.73	13.007	
9,400.0	7,987.0	7,700.0	7,590.9	42.9	18.8	-38.73	252.1	548.1	515.4	472.2	43.15	11.945	
9,495.1	7,987.0	7,700.0	7,590.9	45.1	18.8	-38.73	252.1	548.1	506.5	462.0	44.54	11.374	
9,500.0	7,987.0	7,700.0	7,590.9	45.2	18.8	-38.73	252.1	548.1	506.5	461.9	44.61	11.356	
9,600.0	7,987.0	7,700.0	7,590.9	47.5	18.8	-38.73	252.1	548.1	517.3	471.2	46.11	11.219 SF	
9,700.0	7,987.0	7,700.0	7,590.9	49.8	18.8	-38.73	252.1	548.1	546.4	498.7	47.64	11.469	
9,800.0	7,987.0	7,700.0	7,590.9	52.2	18.8	-38.73	252.1	548.1	591.2	542.0	49.21	12.015	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-11-12HN - Wellbore #1 - Plan #1 (7-02-13)													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	-159.45	-14.2	-5.3	15.2	15.2	0.00	N/A		
100.0	100.0	99.0	99.0	0.1	0.1	-159.45	-14.2	-5.3	15.2	14.9	0.22	67.824		
200.0	200.0	199.0	199.0	0.3	0.3	-159.45	-14.2	-5.3	15.2	14.5	0.67	22.570		
300.0	300.0	299.0	299.0	0.6	0.6	-159.45	-14.2	-5.3	15.2	14.0	1.12	13.524		
400.0	400.0	399.0	399.0	0.8	0.8	-159.45	-14.2	-5.3	15.2	13.6	1.57	9.655		
500.0	500.0	499.0	499.0	1.0	1.0	-159.45	-14.2	-5.3	15.2	13.1	2.02	7.507		
600.0	600.0	599.0	599.0	1.2	1.2	-159.45	-14.2	-5.3	15.2	12.7	2.47	6.141 CC, ES		
700.0	700.0	698.7	698.7	1.5	1.4	-154.25	-14.5	-7.0	16.1	13.2	2.90	5.547		
800.0	800.0	798.1	798.0	1.7	1.6	-141.97	-15.4	-12.1	19.6	16.3	3.33	5.884		
900.0	900.0	897.3	896.7	1.9	1.9	-39.34	-17.0	-20.5	25.3	21.6	3.75	6.745		
1,000.0	999.8	996.2	994.9	2.1	2.1	-33.84	-19.1	-32.2	31.7	27.6	4.17	7.605		
1,100.0	1,099.5	1,094.8	1,092.4	2.3	2.4	-30.84	-21.8	-47.3	38.5	33.9	4.60	8.363		
1,200.0	1,198.7	1,193.2	1,189.0	2.6	2.8	-29.28	-25.1	-65.5	45.5	40.4	5.05	9.005		
1,300.0	1,297.5	1,291.4	1,284.7	2.9	3.1	-28.59	-29.0	-87.0	52.6	47.1	5.52	9.531		
1,400.0	1,395.8	1,391.0	1,381.3	3.2	3.6	-28.66	-33.4	-110.8	59.2	53.2	6.03	9.819		
1,500.0	1,494.0	1,490.8	1,478.1	3.5	4.0	-28.83	-37.7	-134.6	65.7	59.1	6.57	9.994		
1,600.0	1,592.3	1,590.6	1,575.0	3.9	4.5	-28.96	-42.0	-158.5	72.2	65.0	7.13	10.123		
1,700.0	1,690.5	1,690.4	1,671.8	4.3	5.0	-29.08	-46.4	-182.3	78.6	70.9	7.70	10.216		
1,800.0	1,788.8	1,790.2	1,768.6	4.6	5.5	-29.17	-50.7	-206.1	85.1	76.8	8.27	10.285		
1,900.0	1,887.0	1,890.0	1,865.4	5.0	6.0	-29.26	-55.0	-230.0	91.5	82.7	8.86	10.337		
2,000.0	1,985.3	1,989.8	1,962.2	5.4	6.5	-29.33	-59.4	-253.8	98.0	88.6	9.45	10.375		
2,100.0	2,083.5	2,089.5	2,059.0	5.8	7.0	-29.39	-63.7	-277.6	104.5	94.4	10.04	10.403		
2,200.0	2,181.8	2,189.3	2,155.8	6.2	7.5	-29.45	-68.0	-301.5	110.9	100.3	10.64	10.424		
2,300.0	2,280.0	2,289.1	2,252.6	6.6	8.0	-29.50	-72.3	-325.3	117.4	106.1	11.24	10.439		
2,400.0	2,378.3	2,388.9	2,349.4	7.0	8.6	-29.54	-76.7	-349.1	123.8	112.0	11.85	10.450		
2,500.0	2,476.5	2,488.7	2,446.2	7.5	9.1	-29.58	-81.0	-373.0	130.3	117.8	12.46	10.458		
2,600.0	2,574.8	2,588.5	2,543.0	7.9	9.6	-29.62	-85.3	-396.8	136.7	123.7	13.07	10.463		
2,700.0	2,673.0	2,688.3	2,639.8	8.3	10.1	-29.65	-89.7	-420.6	143.2	129.5	13.68	10.466		
2,800.0	2,771.3	2,788.1	2,736.6	8.7	10.6	-29.68	-94.0	-444.5	149.7	135.4	14.30	10.468		
2,900.0	2,869.5	2,887.9	2,833.4	9.1	11.2	-29.71	-98.3	-468.3	156.1	141.2	14.91	10.469		
3,000.0	2,967.8	2,987.7	2,930.2	9.5	11.7	-29.73	-102.7	-492.1	162.6	147.1	15.53	10.468		
3,100.0	3,066.0	3,087.5	3,027.0	9.9	12.2	-29.76	-107.0	-516.0	169.0	152.9	16.15	10.467		
3,200.0	3,164.3	3,187.2	3,123.9	10.4	12.7	-29.78	-111.3	-539.8	175.5	158.7	16.77	10.465		
3,300.0	3,262.5	3,287.0	3,220.7	10.8	13.2	-29.80	-115.7	-563.6	182.0	164.6	17.39	10.463		
3,400.0	3,360.8	3,386.8	3,317.5	11.2	13.8	-29.82	-120.0	-587.5	188.4	170.4	18.01	10.461		
3,500.0	3,459.0	3,486.6	3,414.3	11.6	14.3	-29.84	-124.3	-611.3	194.9	176.2	18.63	10.458		
3,600.0	3,557.3	3,586.4	3,511.1	12.0	14.8	-29.85	-128.6	-635.1	201.3	182.1	19.26	10.455		
3,700.0	3,655.5	3,686.2	3,607.9	12.4	15.3	-29.87	-133.0	-659.0	207.8	187.9	19.88	10.452		
3,800.0	3,753.8	3,786.0	3,704.7	12.9	15.9	-29.88	-137.3	-682.8	214.3	193.8	20.51	10.448		
3,900.0	3,852.1	3,885.8	3,801.5	13.3	16.4	-29.90	-141.6	-706.6	220.7	199.6	21.13	10.445		
4,000.0	3,950.3	3,985.6	3,898.3	13.7	16.9	-29.91	-146.0	-730.5	227.2	205.4	21.76	10.442		
4,100.0	4,048.6	4,085.4	3,995.1	14.1	17.4	-29.92	-150.3	-754.3	233.6	211.3	22.38	10.438		
4,200.0	4,146.8	4,185.2	4,091.9	14.5	18.0	-29.93	-154.6	-778.2	240.1	217.1	23.01	10.435		
4,300.0	4,245.1	4,285.0	4,188.7	15.0	18.5	-29.94	-159.0	-802.0	246.6	222.9	23.63	10.432		
4,400.0	4,343.3	4,384.7	4,285.5	15.4	19.0	-29.95	-163.3	-825.8	253.0	228.8	24.26	10.428		
4,500.0	4,441.6	4,484.5	4,382.3	15.8	19.5	-29.96	-167.6	-849.7	259.5	234.6	24.89	10.425		
4,600.0	4,539.8	4,584.3	4,479.1	16.2	20.1	-29.97	-172.0	-873.5	265.9	240.4	25.52	10.422		
4,700.0	4,638.1	4,684.1	4,575.9	16.7	20.6	-29.98	-176.3	-897.3	272.4	246.2	26.14	10.419		
4,800.0	4,736.3	4,783.9	4,672.8	17.1	21.1	-29.99	-180.6	-921.2	278.9	252.1	26.77	10.416		
4,900.0	4,834.6	4,883.7	4,769.6	17.5	21.6	-30.00	-184.9	-945.0	285.3	257.9	27.40	10.413		
5,000.0	4,932.8	4,983.5	4,866.4	17.9	22.2	-30.01	-189.3	-968.8	291.8	263.7	28.03	10.410		
5,100.0	5,031.1	5,083.3	4,963.2	18.3	22.7	-30.01	-193.6	-992.7	298.2	269.6	28.66	10.407		

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-11-12HN - Wellbore #1 - Plan #1 (7-02-13)												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	5,129.3	5,183.1	5,060.0	18.8	23.2	-30.02	-197.9	-1,016.5	304.7	275.4	29.29	10.404	
5,300.0	5,227.6	5,282.9	5,156.8	19.2	23.8	-30.03	-202.3	-1,040.3	311.1	281.2	29.92	10.401	
5,400.0	5,325.8	5,382.7	5,253.6	19.6	24.3	-30.03	-206.6	-1,064.2	317.6	287.1	30.55	10.398	
5,500.0	5,424.1	5,488.0	5,355.9	20.0	24.8	-30.07	-211.1	-1,088.9	323.7	292.5	31.18	10.379	
5,600.0	5,522.3	5,596.6	5,465.1	20.5	25.2	-30.36	-215.2	-1,111.5	326.6	294.8	31.85	10.254	
5,700.0	5,620.6	5,711.3	5,575.2	20.9	25.5	-30.95	-218.5	-1,129.9	326.0	293.4	32.58	10.008	
5,800.0	5,718.8	5,822.6	5,685.6	21.3	25.8	-31.85	-221.1	-1,144.0	321.9	288.5	33.37	9.646	
5,900.0	5,817.1	5,933.3	5,795.8	21.7	26.0	-33.09	-222.9	-1,153.9	314.3	280.1	34.25	9.178	
6,000.0	5,915.3	6,043.0	5,905.4	22.2	26.2	-34.76	-223.9	-1,159.5	303.5	268.2	35.23	8.613	
6,100.0	6,013.6	6,150.2	6,012.6	22.6	26.3	-36.90	-224.2	-1,161.0	289.5	253.2	36.36	7.963	
6,200.0	6,111.8	6,248.5	6,110.8	23.0	26.4	-39.21	-224.2	-1,161.0	274.8	237.2	37.55	7.317	
6,300.0	6,210.1	6,346.8	6,209.1	23.4	26.5	-41.78	-224.2	-1,161.0	260.5	221.7	38.85	6.706	
6,400.0	6,308.3	6,445.0	6,307.3	23.8	26.6	-44.64	-224.2	-1,161.0	246.8	206.6	40.25	6.133	
6,500.0	6,406.6	6,543.3	6,405.6	24.3	26.7	-47.81	-224.2	-1,161.0	233.8	192.1	41.76	5.599	
6,600.0	6,504.9	6,641.5	6,503.9	24.7	26.8	-51.34	-224.2	-1,161.0	221.6	178.2	43.39	5.107	
6,700.0	6,603.1	6,739.8	6,602.1	25.1	26.9	-55.26	-224.2	-1,161.0	210.4	165.2	45.12	4.663	
6,800.0	6,701.4	6,838.0	6,700.4	25.5	27.0	-59.59	-224.2	-1,161.0	200.2	153.3	46.92	4.267	
6,900.0	6,799.6	6,936.3	6,798.6	26.0	27.1	-64.33	-224.2	-1,161.0	191.3	142.6	48.74	3.925	
7,000.0	6,897.9	7,034.5	6,896.9	26.4	27.3	-69.49	-224.2	-1,161.0	183.9	133.4	50.54	3.639	
7,100.0	6,996.1	7,132.8	6,995.1	26.8	27.4	-75.01	-224.2	-1,161.0	178.1	125.9	52.21	3.412	
7,200.0	7,094.4	7,232.4	7,094.7	27.2	27.5	-81.58	-224.2	-1,159.0	174.0	120.2	53.76	3.236	
7,281.3	7,174.7	7,311.2	7,172.7	27.5	27.4	-87.45	-224.2	-1,148.7	172.4	117.7	54.70	3.151	
7,300.0	7,193.0	7,328.1	7,189.4	27.6	27.4	-89.21	-224.3	-1,145.3	172.6	117.7	54.86	3.146	
7,400.0	7,292.8	7,419.6	7,277.4	27.7	27.3	-59.94	-224.3	-1,120.6	176.6	121.9	54.76	3.225	
7,500.0	7,392.2	7,508.0	7,358.7	27.7	27.1	64.75	-224.5	-1,086.2	185.3	131.7	53.59	3.457	
7,600.0	7,489.3	7,593.6	7,432.8	27.6	26.8	58.68	-224.6	-1,043.5	197.2	145.5	51.62	3.819	
7,700.0	7,582.1	7,676.9	7,499.6	27.4	26.6	53.03	-224.8	-993.7	210.8	161.7	49.14	4.290	
7,800.0	7,668.8	7,758.3	7,558.8	27.1	26.4	48.32	-224.9	-937.9	225.1	178.7	46.40	4.852	
7,900.0	7,747.8	7,838.1	7,610.3	26.8	26.3	44.52	-225.1	-877.0	239.0	195.4	43.61	5.482	
8,000.0	7,817.5	7,916.6	7,654.0	26.6	26.3	41.53	-225.4	-811.8	251.8	210.9	40.98	6.145	
8,100.0	7,876.6	7,994.1	7,689.9	26.5	26.4	39.24	-225.6	-743.2	263.0	224.3	38.74	6.789	
8,200.0	7,923.8	8,070.8	7,717.8	26.5	26.6	37.54	-225.8	-671.8	272.1	235.0	37.10	7.334	
8,300.0	7,958.4	8,150.0	7,738.5	26.8	27.0	36.35	-226.1	-595.4	278.9	242.7	36.23	7.698	
8,400.0	7,979.6	8,222.6	7,749.9	27.3	27.4	35.68	-226.3	-523.7	283.1	246.8	36.27	7.806	
8,500.0	7,987.0	8,301.4	7,754.0	28.0	28.1	35.42	-226.6	-445.1	284.7	247.5	37.20	7.654	
8,518.5	7,987.1	8,315.5	7,754.0	28.2	28.2	35.41	-226.6	-430.9	284.8	247.4	37.41	7.612	
8,600.0	7,987.0	8,397.0	7,753.7	29.0	29.0	35.39	-226.9	-349.4	285.0	246.5	38.51	7.400	
8,700.0	7,987.0	8,497.0	7,753.3	30.2	30.3	35.35	-227.2	-249.4	285.3	245.2	40.09	7.115	
8,800.0	7,987.0	8,597.0	7,753.0	31.6	31.7	35.31	-227.5	-149.4	285.5	243.6	41.89	6.816	
8,900.0	7,987.0	8,697.0	7,752.6	33.1	33.3	35.27	-227.9	-49.4	285.8	241.9	43.88	6.513	
9,000.0	7,987.0	8,797.0	7,752.3	34.9	35.1	35.23	-228.2	50.6	286.1	240.1	46.04	6.214	
9,100.0	7,987.0	8,897.0	7,751.9	36.7	37.0	35.19	-228.5	150.6	286.4	238.0	48.34	5.924	
9,200.0	7,987.0	8,997.0	7,751.6	38.7	39.0	35.15	-228.9	250.6	286.7	235.9	50.76	5.647	
9,300.0	7,987.0	9,097.0	7,751.3	40.8	41.1	35.11	-229.2	350.6	286.9	233.7	53.29	5.384	
9,400.0	7,987.0	9,197.0	7,750.9	42.9	43.3	35.07	-229.5	450.6	287.2	231.3	55.91	5.137	
9,500.0	7,987.0	9,297.0	7,750.6	45.2	45.5	35.03	-229.8	550.6	287.5	228.9	58.60	4.906	
9,600.0	7,987.0	9,397.0	7,750.2	47.5	47.9	34.99	-230.2	650.5	287.8	226.4	61.36	4.690	
9,700.0	7,987.0	9,497.0	7,749.9	49.8	50.2	34.95	-230.5	750.5	288.1	223.9	64.18	4.489	
9,800.0	7,987.0	9,597.0	7,749.5	52.2	52.6	34.91	-230.8	850.5	288.4	221.3	67.04	4.301	
9,900.0	7,987.0	9,697.0	7,749.2	54.6	55.1	34.87	-231.1	950.5	288.6	218.7	69.95	4.127	
10,000.0	7,987.0	9,797.0	7,748.8	57.1	57.6	34.83	-231.5	1,050.5	288.9	216.0	72.89	3.964	
10,100.0	7,987.0	9,897.0	7,748.5	59.6	60.1	34.79	-231.8	1,150.5	289.2	213.3	75.86	3.812	

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-11-12HN - Wellbore #1 - Plan #1 (7-02-13)												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)		
10,200.0	7,987.0	9,997.0	7,748.2	62.1	62.6	34.75	-232.1	1,250.5	289.5	210.6	78.86	3.671	
10,300.0	7,987.0	10,097.0	7,747.8	64.6	65.2	34.71	-232.5	1,350.5	289.8	207.9	81.88	3.539	
10,400.0	7,987.0	10,197.0	7,747.5	67.2	67.7	34.68	-232.8	1,450.5	290.1	205.1	84.92	3.416	
10,500.0	7,987.0	10,297.0	7,747.1	69.8	70.3	34.64	-233.1	1,550.5	290.3	202.4	87.98	3.300	
10,600.0	7,987.0	10,397.0	7,746.8	72.4	72.9	34.60	-233.4	1,650.5	290.6	199.6	91.06	3.192	
10,700.0	7,987.0	10,497.0	7,746.4	75.0	75.6	34.56	-233.8	1,750.5	290.9	196.8	94.14	3.090	
10,800.0	7,987.0	10,597.0	7,746.1	77.6	78.2	34.52	-234.1	1,850.5	291.2	193.9	97.24	2.994	
10,900.0	7,987.0	10,697.0	7,745.7	80.2	80.8	34.48	-234.4	1,950.5	291.5	191.1	100.35	2.905	
11,000.0	7,987.0	10,797.0	7,745.4	82.9	83.5	34.44	-234.8	2,050.5	291.8	188.3	103.47	2.820	
11,100.0	7,987.0	10,897.0	7,745.1	85.5	86.2	34.41	-235.1	2,150.5	292.0	185.4	106.59	2.740	
11,200.0	7,987.0	10,997.0	7,744.7	88.2	88.8	34.37	-235.4	2,250.5	292.3	182.6	109.72	2.664	
11,300.0	7,987.0	11,097.0	7,744.4	90.9	91.5	34.33	-235.7	2,350.5	292.6	179.8	112.86	2.593	
11,400.0	7,987.0	11,197.0	7,744.0	93.6	94.2	34.29	-236.1	2,450.5	292.9	176.9	116.00	2.525	
11,500.0	7,987.0	11,297.0	7,743.7	96.3	96.9	34.25	-236.4	2,550.5	293.2	174.0	119.14	2.461	
11,600.0	7,987.0	11,397.0	7,743.3	99.0	99.6	34.22	-236.7	2,650.5	293.5	171.2	122.29	2.400	
11,700.0	7,987.0	11,497.0	7,743.0	101.7	102.3	34.18	-237.0	2,750.5	293.8	168.3	125.43	2.342	
11,800.0	7,987.0	11,597.0	7,742.6	104.4	105.0	34.14	-237.4	2,850.5	294.0	165.5	128.58	2.287	
11,900.0	7,987.0	11,697.0	7,742.3	107.1	107.7	34.10	-237.7	2,950.5	294.3	162.6	131.74	2.234	
12,000.0	7,987.0	11,797.0	7,741.9	109.8	110.5	34.07	-238.0	3,050.5	294.6	159.7	134.89	2.184	
12,100.0	7,987.0	11,897.0	7,741.6	112.5	113.2	34.03	-238.4	3,150.5	294.9	156.9	138.04	2.136	
12,200.0	7,987.0	11,997.0	7,741.3	115.3	115.9	33.99	-238.7	3,250.5	295.2	154.0	141.19	2.091	
12,300.0	7,987.0	12,097.0	7,740.9	118.0	118.6	33.95	-239.0	3,350.5	295.5	151.1	144.34	2.047	
12,400.0	7,987.0	12,197.0	7,740.6	120.7	121.4	33.92	-239.3	3,450.5	295.8	148.3	147.49	2.005	
12,500.0	7,987.0	12,297.0	7,740.2	123.5	124.1	33.88	-239.7	3,550.5	296.0	145.4	150.64	1.965	
12,600.0	7,987.0	12,397.0	7,739.9	126.2	126.9	33.84	-240.0	3,650.5	296.3	142.5	153.79	1.927	
12,700.0	7,987.0	12,497.0	7,739.5	128.9	129.6	33.80	-240.3	3,750.5	296.6	139.7	156.94	1.890	
12,800.0	7,987.0	12,597.0	7,739.2	131.7	132.4	33.77	-240.7	3,850.5	296.9	136.8	160.08	1.855	
12,853.1	7,987.0	12,650.1	7,739.0	133.1	133.8	33.75	-240.8	3,903.6	297.0	135.3	161.75	1.836 SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-11-2HN - Wellbore #1 - Plan #1 (7-01-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	39.57	98.0	81.0	127.2					
100.0	100.0	98.0	98.0	0.1	0.1	39.57	98.0	81.0	127.1	126.9	0.22	571.346		
200.0	200.0	198.0	198.0	0.3	0.3	39.57	98.0	81.0	127.1	126.5	0.67	189.813		
300.0	300.0	298.0	298.0	0.6	0.6	39.57	98.0	81.0	127.1	126.0	1.12	113.583		
400.0	400.0	398.0	398.0	0.8	0.8	39.57	98.0	81.0	127.1	125.6	1.57	81.038		
500.0	500.0	498.0	498.0	1.0	1.0	39.57	98.0	81.0	127.1	125.1	2.02	62.989		
600.0	600.0	598.0	598.0	1.2	1.2	39.57	98.0	81.0	127.1	124.7	2.47	51.516		
700.0	700.0	698.0	698.0	1.5	1.5	39.57	98.0	81.0	127.1	124.2	2.92	43.578		
800.0	800.0	798.0	798.0	1.7	1.7	39.57	98.0	81.0	127.1	123.8	3.37	37.760 CC, ES		
900.0	900.0	895.6	895.6	1.9	1.9	133.28	97.8	82.6	129.2	125.4	3.78	34.143		
1,000.0	999.8	992.6	992.4	2.1	2.1	136.48	97.1	87.4	135.8	131.6	4.19	32.425		
1,100.0	1,099.5	1,088.1	1,087.7	2.3	2.3	141.09	96.1	95.3	147.6	143.0	4.61	32.038		
1,200.0	1,198.7	1,181.7	1,180.6	2.6	2.5	146.31	94.6	106.2	165.5	160.5	5.04	32.843		
1,300.0	1,297.5	1,274.8	1,272.7	2.9	2.8	151.48	92.8	119.6	190.0	184.5	5.48	34.645		
1,400.0	1,395.8	1,369.2	1,366.0	3.2	3.0	156.07	90.9	133.8	218.7	212.7	5.93	36.899		
1,500.0	1,494.0	1,463.6	1,459.3	3.5	3.3	159.69	88.9	147.9	248.6	242.2	6.37	39.024		
1,600.0	1,592.3	1,557.9	1,552.5	3.9	3.6	162.54	87.0	162.1	279.3	272.4	6.82	40.970		
1,700.0	1,690.5	1,652.3	1,645.8	4.3	3.9	164.83	85.1	176.2	310.4	303.2	7.26	42.744		
1,800.0	1,788.8	1,746.6	1,739.0	4.6	4.3	166.71	83.2	190.4	342.0	334.3	7.72	44.320		
1,900.0	1,887.0	1,840.9	1,832.3	5.0	4.6	168.27	81.3	204.5	373.8	365.6	8.17	45.760		
2,000.0	1,985.3	1,935.3	1,925.6	5.4	4.9	169.58	79.4	218.7	405.8	397.2	8.62	47.058		
2,100.0	2,083.5	2,029.6	2,018.8	5.8	5.2	170.71	77.5	232.9	438.0	429.0	9.08	48.230		
2,200.0	2,181.8	2,124.0	2,112.1	6.2	5.5	171.68	75.6	247.0	470.4	460.8	9.54	49.291		
2,300.0	2,280.0	2,218.3	2,205.3	6.6	5.9	172.53	73.6	261.2	502.8	492.8	10.01	50.255		
2,400.0	2,378.3	2,312.7	2,298.6	7.0	6.2	173.27	71.7	275.3	535.3	524.9	10.47	51.132		
2,500.0	2,476.5	2,407.0	2,391.9	7.5	6.5	173.93	69.8	289.5	567.9	557.0	10.94	51.933		
9,600.0	7,987.0	7,733.0	7,593.2	47.5	22.4	-39.22	253.9	879.7	554.3	505.7	48.53	11.422		
9,700.0	7,987.0	7,732.9	7,593.1	49.8	22.4	-39.20	253.8	879.7	521.4	471.3	50.06	10.415		
9,800.0	7,987.0	7,732.7	7,593.0	52.2	22.4	-39.19	253.7	879.7	506.4	454.8	51.63	9.810		
9,826.8	7,987.0	7,732.7	7,593.0	52.8	22.4	-39.18	253.6	879.7	505.7	453.7	52.05	9.716		
9,900.0	7,987.0	7,732.6	7,592.9	54.6	22.4	-39.17	253.5	879.7	511.0	457.8	53.22	9.602 SF		
10,000.0	7,987.0	7,732.4	7,592.8	57.1	22.4	-39.15	253.4	879.7	534.6	479.7	54.83	9.750		
10,100.0	7,987.0	7,732.3	7,592.7	59.6	22.4	-39.14	253.3	879.7	574.8	518.4	56.46	10.181		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-159.95	-28.4	-10.4	30.3					
100.0	100.0	99.0	99.0	0.1	0.1	-159.95	-28.4	-10.4	30.2	30.0	0.22	135.230		
200.0	200.0	199.0	199.0	0.3	0.3	-159.95	-28.4	-10.4	30.2	29.6	0.67	45.002		
300.0	300.0	299.0	299.0	0.6	0.6	-159.95	-28.4	-10.4	30.2	29.1	1.12	26.965		
400.0	400.0	399.0	399.0	0.8	0.8	-159.95	-28.4	-10.4	30.2	28.7	1.57	19.250 CC, ES		
500.0	500.0	498.2	498.2	1.0	1.0	-157.76	-29.1	-11.9	31.5	29.5	2.00	15.719		
600.0	600.0	597.2	597.1	1.2	1.2	-152.09	-31.2	-16.5	35.4	33.0	2.43	14.572		
700.0	700.0	695.7	695.2	1.5	1.4	-145.10	-34.8	-24.2	42.5	39.7	2.88	14.779		
800.0	800.0	793.6	792.3	1.7	1.7	-138.62	-39.6	-34.9	53.2	49.9	3.36	15.844		
900.0	900.0	890.7	888.3	1.9	2.0	-41.61	-45.8	-48.5	66.3	62.5	3.76	17.627		
1,000.0	999.8	987.4	983.3	2.1	2.3	-39.45	-53.4	-64.9	80.1	75.9	4.20	19.092		
1,100.0	1,099.5	1,086.3	1,080.1	2.3	2.7	-38.86	-61.8	-83.5	93.1	88.5	4.65	20.019		
1,200.0	1,198.7	1,185.8	1,177.4	2.6	3.1	-39.61	-70.4	-102.1	103.5	98.3	5.13	20.165		
1,300.0	1,297.5	1,285.4	1,274.9	2.9	3.6	-41.40	-78.9	-120.8	111.2	105.6	5.65	19.678		
1,400.0	1,395.8	1,385.1	1,372.5	3.2	4.0	-43.95	-87.4	-139.5	117.0	110.8	6.23	18.779		
1,500.0	1,494.0	1,484.8	1,470.0	3.5	4.4	-46.35	-96.0	-158.2	122.9	116.1	6.85	17.933		
1,600.0	1,592.3	1,584.5	1,567.6	3.9	4.9	-48.54	-104.5	-176.9	129.0	121.5	7.51	17.176		
1,700.0	1,690.5	1,684.2	1,665.1	4.3	5.3	-50.52	-113.1	-195.6	135.2	127.1	8.19	16.506		
1,800.0	1,788.8	1,783.9	1,762.7	4.6	5.8	-52.33	-121.6	-214.3	141.6	132.7	8.90	15.912		
1,900.0	1,887.0	1,883.6	1,860.2	5.0	6.2	-53.98	-130.2	-233.0	148.2	138.5	9.63	15.387		
2,000.0	1,985.3	1,983.3	1,957.8	5.4	6.7	-55.49	-138.7	-251.7	154.8	144.4	10.37	14.922		
2,100.0	2,083.5	2,083.0	2,055.4	5.8	7.1	-56.87	-147.3	-270.4	161.5	150.4	11.13	14.509		
2,200.0	2,181.8	2,182.7	2,152.9	6.2	7.6	-58.15	-155.8	-289.1	168.4	156.5	11.91	14.141		
2,300.0	2,280.0	2,282.4	2,250.5	6.6	8.0	-59.32	-164.3	-307.8	175.3	162.6	12.69	13.813		
2,400.0	2,378.3	2,382.1	2,348.0	7.0	8.5	-60.41	-172.9	-326.5	182.2	168.7	13.48	13.519		
2,500.0	2,476.5	2,481.8	2,445.6	7.5	9.0	-61.41	-181.4	-345.2	189.3	175.0	14.28	13.255		
2,600.0	2,574.8	2,581.5	2,543.2	7.9	9.4	-62.34	-190.0	-363.9	196.3	181.2	15.08	13.017		
2,700.0	2,673.0	2,681.2	2,640.7	8.3	9.9	-63.21	-198.5	-382.6	203.5	187.6	15.89	12.801		
2,800.0	2,771.3	2,780.9	2,738.3	8.7	10.3	-64.02	-207.1	-401.3	210.6	193.9	16.71	12.606		
2,900.0	2,869.5	2,880.6	2,835.8	9.1	10.8	-64.77	-215.6	-420.0	217.8	200.3	17.53	12.428		
3,000.0	2,967.8	2,980.3	2,933.4	9.5	11.2	-65.48	-224.2	-438.7	225.1	206.7	18.35	12.265		
3,100.0	3,066.0	3,080.0	3,030.9	9.9	11.7	-66.14	-232.7	-457.4	232.4	213.2	19.18	12.117		
3,200.0	3,164.3	3,179.7	3,128.5	10.4	12.2	-66.77	-241.3	-476.0	239.7	219.7	20.01	11.980		
3,300.0	3,262.5	3,279.4	3,226.1	10.8	12.6	-67.35	-249.8	-494.7	247.0	226.2	20.84	11.854		
3,400.0	3,360.8	3,379.1	3,323.6	11.2	13.1	-67.90	-258.3	-513.4	254.4	232.7	21.67	11.738		
3,500.0	3,459.0	3,478.8	3,421.2	11.6	13.5	-68.42	-266.9	-532.1	261.7	239.2	22.50	11.630		
3,600.0	3,557.3	3,578.5	3,518.7	12.0	14.0	-68.92	-275.4	-550.8	269.1	245.8	23.34	11.531		
3,700.0	3,655.5	3,678.2	3,616.3	12.4	14.5	-69.38	-284.0	-569.5	276.6	252.4	24.18	11.438		
3,800.0	3,753.8	3,777.9	3,713.8	12.9	14.9	-69.82	-292.5	-588.2	284.0	259.0	25.02	11.352		
3,900.0	3,852.1	3,877.6	3,811.4	13.3	15.4	-70.24	-301.1	-606.9	291.4	265.6	25.86	11.271		
4,000.0	3,950.3	3,977.3	3,909.0	13.7	15.8	-70.64	-309.6	-625.6	298.9	272.2	26.70	11.196		
4,100.0	4,048.6	4,077.0	4,006.5	14.1	16.3	-71.02	-318.2	-644.3	306.4	278.9	27.54	11.125		
4,200.0	4,146.8	4,176.7	4,104.1	14.5	16.8	-71.38	-326.7	-663.0	313.9	285.5	28.38	11.058		
4,300.0	4,245.1	4,276.4	4,201.6	15.0	17.2	-71.72	-335.2	-681.7	321.4	292.2	29.23	10.996		
4,400.0	4,343.3	4,376.1	4,299.2	15.4	17.7	-72.05	-343.8	-700.4	328.9	298.8	30.07	10.937		
4,500.0	4,441.6	4,475.8	4,396.7	15.8	18.1	-72.36	-352.3	-719.1	336.4	305.5	30.92	10.882		
4,600.0	4,539.8	4,575.5	4,494.3	16.2	18.6	-72.66	-360.9	-737.8	344.0	312.2	31.76	10.830		
4,700.0	4,638.1	4,675.2	4,591.9	16.7	19.1	-72.95	-369.4	-756.5	351.5	318.9	32.61	10.780		
4,800.0	4,736.3	4,774.9	4,689.4	17.1	19.5	-73.23	-378.0	-775.2	359.1	325.6	33.45	10.733		
4,900.0	4,834.6	4,874.6	4,787.0	17.5	20.0	-73.49	-386.5	-793.9	366.6	332.3	34.30	10.689		
5,000.0	4,932.8	4,974.3	4,884.5	17.9	20.4	-73.74	-395.1	-812.6	374.2	339.0	35.15	10.646		
5,100.0	5,031.1	5,074.0	4,982.1	18.3	20.9	-73.98	-403.6	-831.3	381.8	345.8	35.99	10.606		

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,129.3	5,173.7	5,079.7	18.8	21.3	-74.22	-412.2	-850.0	389.3	352.5	36.84	10.568	
5,300.0	5,227.6	5,273.4	5,177.2	19.2	21.8	-74.44	-420.7	-868.7	396.9	359.2	37.69	10.532	
5,400.0	5,325.8	5,373.1	5,274.8	19.6	22.3	-74.66	-429.2	-887.4	404.5	366.0	38.54	10.497	
5,500.0	5,424.1	5,472.8	5,372.3	20.0	22.7	-74.87	-437.8	-906.1	412.1	372.7	39.39	10.464	
5,600.0	5,522.3	5,572.5	5,469.9	20.5	23.2	-75.07	-446.3	-924.8	419.7	379.5	40.23	10.432	
5,700.0	5,620.6	5,672.2	5,567.4	20.9	23.7	-75.26	-454.9	-943.4	427.3	386.3	41.08	10.402	
5,800.0	5,718.8	5,771.9	5,665.0	21.3	24.1	-75.45	-463.4	-962.1	435.0	393.0	41.93	10.373	
5,900.0	5,817.1	5,871.6	5,762.6	21.7	24.6	-75.63	-472.0	-980.8	442.6	399.8	42.78	10.345	
6,000.0	5,915.3	5,971.3	5,860.1	22.2	25.0	-75.80	-480.5	-999.5	450.2	406.6	43.63	10.319	
6,100.0	6,013.6	6,071.0	5,957.7	22.6	25.5	-75.97	-489.1	-1,018.2	457.8	413.3	44.48	10.293	
6,200.0	6,111.8	6,170.7	6,055.2	23.0	26.0	-76.13	-497.6	-1,036.9	465.5	420.1	45.33	10.268	
6,300.0	6,210.1	6,270.4	6,152.8	23.4	26.4	-76.29	-506.2	-1,055.6	473.1	426.9	46.18	10.245	
6,400.0	6,308.3	6,370.1	6,250.3	23.8	26.9	-76.44	-514.7	-1,074.3	480.7	433.7	47.03	10.222	
6,500.0	6,406.6	6,469.8	6,347.9	24.3	27.3	-76.59	-523.2	-1,093.0	488.4	440.5	47.88	10.200	
6,600.0	6,504.9	6,573.6	6,449.5	24.7	27.8	-76.77	-532.0	-1,112.2	495.9	447.1	48.73	10.176	
6,700.0	6,603.1	6,684.2	6,558.5	25.1	28.1	-77.27	-540.0	-1,129.6	501.6	452.0	49.57	10.119	
6,800.0	6,701.4	6,794.8	6,668.0	25.5	28.4	-78.16	-546.2	-1,143.2	505.2	454.8	50.45	10.014	
6,900.0	6,799.6	6,904.8	6,777.5	26.0	28.6	-79.43	-550.6	-1,152.9	506.9	455.6	51.37	9.869	
7,000.0	6,897.9	7,014.1	6,886.6	26.4	28.8	-81.09	-553.3	-1,158.7	506.8	454.5	52.30	9.691	
7,100.0	6,996.1	7,122.2	6,994.7	26.8	28.9	-83.13	-554.2	-1,160.8	505.3	452.0	53.25	9.489	
7,200.0	7,094.4	7,220.9	7,093.4	27.2	29.0	-85.21	-554.2	-1,160.8	503.4	449.2	54.15	9.296	
7,300.0	7,193.0	7,319.5	7,191.9	27.6	29.1	-85.31	-554.2	-1,158.2	502.1	447.2	54.89	9.148	
7,400.0	7,292.8	7,416.3	7,287.5	27.7	29.0	71.32	-554.3	-1,143.5	501.6	446.3	55.26	9.077	
7,425.3	7,318.1	7,440.4	7,311.0	27.7	29.0	79.47	-554.3	-1,137.9	501.6	446.3	55.29	9.071	
7,500.0	7,392.2	7,510.8	7,378.1	27.7	28.9	82.75	-554.4	-1,116.9	501.8	446.4	55.32	9.070	
7,600.0	7,489.3	7,603.1	7,462.4	27.6	28.7	82.19	-554.5	-1,079.4	502.5	447.4	55.10	9.120	
7,700.0	7,582.1	7,693.6	7,539.7	27.4	28.4	80.90	-554.6	-1,032.5	503.8	449.2	54.64	9.220	
7,800.0	7,668.8	7,782.5	7,609.3	27.1	28.1	79.51	-554.8	-977.3	505.4	451.4	54.02	9.356	
7,900.0	7,747.8	7,870.0	7,670.5	26.8	27.8	78.19	-555.0	-914.8	507.3	453.9	53.33	9.512	
8,000.0	7,817.5	7,956.4	7,723.0	26.6	27.6	77.00	-555.3	-846.3	509.1	456.5	52.67	9.666	
8,100.0	7,876.6	8,041.8	7,766.4	26.5	27.5	76.00	-555.5	-772.9	510.9	458.7	52.19	9.790	
8,200.0	7,923.8	8,126.4	7,800.5	26.5	27.5	75.19	-555.8	-695.4	512.5	460.5	52.00	9.856	
8,300.0	7,958.4	8,210.5	7,825.0	26.8	27.6	74.60	-556.0	-615.0	513.7	461.5	52.19	9.842	
8,400.0	7,979.6	8,294.2	7,839.9	27.3	27.9	74.24	-556.3	-532.7	514.4	461.6	52.84	9.735	
8,500.0	7,987.0	8,377.8	7,845.0	28.0	28.3	74.10	-556.6	-449.4	514.7	460.8	53.96	9.540	
8,600.0	7,987.0	8,476.9	7,844.7	29.0	29.0	74.07	-556.9	-350.2	514.8	459.0	55.84	9.220	
8,700.0	7,987.0	8,576.9	7,844.3	30.2	30.0	74.03	-557.2	-250.2	514.9	456.8	58.15	8.856	
8,800.0	7,987.0	8,676.9	7,843.9	31.6	31.3	73.99	-557.6	-150.2	515.0	454.2	60.85	8.465	
8,900.0	7,987.0	8,776.9	7,843.5	33.1	32.8	73.95	-557.9	-50.2	515.1	451.3	63.89	8.063	
9,000.0	7,987.0	8,876.9	7,843.2	34.9	34.4	73.91	-558.2	49.8	515.2	448.0	67.23	7.664	
9,100.0	7,987.0	8,976.9	7,842.8	36.7	36.3	73.87	-558.6	149.8	515.4	444.5	70.82	7.277	
9,200.0	7,987.0	9,076.9	7,842.4	38.7	38.2	73.83	-558.9	249.8	515.5	440.8	74.62	6.908	
9,300.0	7,987.0	9,176.9	7,842.1	40.8	40.3	73.79	-559.2	349.8	515.6	436.9	78.61	6.558	
9,400.0	7,987.0	9,276.9	7,841.7	42.9	42.4	73.75	-559.5	449.7	515.7	432.9	82.76	6.231	
9,500.0	7,987.0	9,376.9	7,841.3	45.2	44.7	73.71	-559.9	549.7	515.8	428.7	87.04	5.925	
9,600.0	7,987.0	9,476.9	7,841.0	47.5	47.0	73.67	-560.2	649.7	515.9	424.4	91.44	5.642	
9,700.0	7,987.0	9,576.9	7,840.6	49.8	49.3	73.63	-560.5	749.7	516.0	420.0	95.93	5.378	
9,800.0	7,987.0	9,676.9	7,840.2	52.2	51.7	73.59	-560.9	849.7	516.1	415.6	100.52	5.134	
9,900.0	7,987.0	9,776.9	7,839.9	54.6	54.2	73.55	-561.2	949.7	516.2	411.0	105.17	4.908	
10,000.0	7,987.0	9,876.9	7,839.5	57.1	56.6	73.52	-561.5	1,049.7	516.3	406.4	109.89	4.698	
10,100.0	7,987.0	9,976.9	7,839.1	59.6	59.1	73.48	-561.8	1,149.7	516.4	401.7	114.67	4.503	
10,200.0	7,987.0	10,076.9	7,838.8	62.1	61.7	73.44	-562.2	1,249.7	516.5	397.0	119.49	4.322	

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-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.0	7,987.0	10,176.9	7,838.4	64.6	64.2	73.40	-562.5	1,349.7	516.6	392.2	124.36	4.154	
10,400.0	7,987.0	10,276.9	7,838.0	67.2	66.8	73.36	-562.8	1,449.7	516.7	387.4	129.26	3.997	
10,500.0	7,987.0	10,376.9	7,837.7	69.8	69.4	73.32	-563.2	1,549.7	516.8	382.6	134.20	3.851	
10,600.0	7,987.0	10,476.9	7,837.3	72.4	72.0	73.28	-563.5	1,649.7	516.9	377.7	139.17	3.714	
10,700.0	7,987.0	10,576.9	7,836.9	75.0	74.6	73.24	-563.8	1,749.7	517.0	372.9	144.16	3.586	
10,800.0	7,987.0	10,676.9	7,836.6	77.6	77.2	73.20	-564.1	1,849.7	517.1	367.9	149.18	3.466	
10,900.0	7,987.0	10,776.9	7,836.2	80.2	79.9	73.16	-564.5	1,949.7	517.2	363.0	154.22	3.354	
11,000.0	7,987.0	10,876.9	7,835.8	82.9	82.5	73.12	-564.8	2,049.7	517.3	358.1	159.28	3.248	
11,100.0	7,987.0	10,976.9	7,835.5	85.5	85.2	73.09	-565.1	2,149.7	517.4	353.1	164.35	3.148	
11,200.0	7,987.0	11,076.9	7,835.1	88.2	87.9	73.05	-565.4	2,249.7	517.5	348.1	169.44	3.054	
11,300.0	7,987.0	11,176.9	7,834.7	90.9	90.6	73.01	-565.8	2,349.7	517.7	343.1	174.54	2.966	
11,400.0	7,987.0	11,276.9	7,834.4	93.6	93.3	72.97	-566.1	2,449.7	517.8	338.1	179.66	2.882	
11,500.0	7,987.0	11,376.9	7,834.0	96.3	96.0	72.93	-566.4	2,549.7	517.9	333.1	184.79	2.803	
11,600.0	7,987.0	11,476.9	7,833.6	99.0	98.7	72.89	-566.8	2,649.7	518.0	328.1	189.92	2.727	
11,700.0	7,987.0	11,576.9	7,833.3	101.7	101.4	72.85	-567.1	2,749.7	518.1	323.0	195.07	2.656	
11,800.0	7,987.0	11,676.9	7,832.9	104.4	104.1	72.81	-567.4	2,849.7	518.2	318.0	200.22	2.588	
11,900.0	7,987.0	11,776.9	7,832.5	107.1	106.8	72.77	-567.7	2,949.7	518.3	312.9	205.38	2.524	
12,000.0	7,987.0	11,876.9	7,832.1	109.8	109.5	72.74	-568.1	3,049.7	518.4	307.9	210.55	2.462	
12,100.0	7,987.0	11,976.9	7,831.8	112.5	112.2	72.70	-568.4	3,149.7	518.5	302.8	215.72	2.404	
12,200.0	7,987.0	12,076.9	7,831.4	115.3	115.0	72.66	-568.7	3,249.7	518.6	297.7	220.90	2.348	
12,300.0	7,987.0	12,176.9	7,831.0	118.0	117.7	72.62	-569.1	3,349.7	518.7	292.7	226.08	2.294	
12,400.0	7,987.0	12,276.9	7,830.7	120.7	120.4	72.58	-569.4	3,449.7	518.9	287.6	231.27	2.243	
12,500.0	7,987.0	12,376.9	7,830.3	123.5	123.2	72.54	-569.7	3,549.7	519.0	282.5	236.46	2.195	
12,600.0	7,987.0	12,476.9	7,829.9	126.2	125.9	72.50	-570.0	3,649.7	519.1	277.4	241.66	2.148	
12,700.0	7,987.0	12,576.9	7,829.6	128.9	128.7	72.46	-570.4	3,749.7	519.2	272.3	246.86	2.103	
12,800.0	7,987.0	12,676.9	7,829.2	131.7	131.4	72.43	-570.7	3,849.7	519.3	267.2	252.06	2.060	
12,853.1	7,987.0	12,729.9	7,829.0	133.1	132.9	72.41	-570.9	3,902.8	519.4	264.5	254.82	2.038 SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-11-2HN - Wellbore #1 - Plan #1 (7-01-14)												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
0.0	0.0	0.0	0.0	0.0	0.0	44.37	98.0	95.9	137.1				
100.0	100.0	98.0	98.0	0.1	0.1	44.37	98.0	95.9	137.1	136.9	0.22	616.025	
200.0	200.0	198.0	198.0	0.3	0.3	44.37	98.0	95.9	137.1	136.4	0.67	204.656	
300.0	300.0	298.0	298.0	0.6	0.6	44.37	98.0	95.9	137.1	136.0	1.12	122.465	
400.0	400.0	398.0	398.0	0.8	0.8	44.37	98.0	95.9	137.1	135.5	1.57	87.375 CC, ES	
500.0	500.0	495.1	495.1	1.0	1.0	44.88	97.8	97.4	138.1	136.1	2.00	69.068	
600.0	600.0	592.0	591.8	1.2	1.2	46.40	97.4	102.2	141.3	138.9	2.43	58.187	
700.0	700.0	688.4	687.9	1.5	1.4	48.79	96.6	110.3	146.9	144.1	2.87	51.167	
800.0	800.0	784.1	783.0	1.7	1.7	51.82	95.5	121.4	155.2	151.9	3.33	46.555	
900.0	900.0	878.7	876.5	1.9	2.0	147.97	94.1	135.6	167.9	164.1	3.81	44.112	
1,000.0	999.8	974.2	970.5	2.1	2.3	152.03	92.5	152.4	186.4	182.1	4.27	43.608	
1,100.0	1,099.5	1,070.7	1,065.4	2.3	2.6	155.80	90.8	169.7	209.2	204.4	4.73	44.178	
1,200.0	1,198.7	1,166.1	1,159.3	2.6	3.0	159.10	89.1	186.7	235.8	230.7	5.18	45.498	
1,300.0	1,297.5	1,260.5	1,252.1	2.9	3.4	161.92	87.4	203.6	266.3	260.7	5.62	47.377	
1,400.0	1,395.8	1,353.9	1,344.0	3.2	3.7	164.40	85.8	220.4	299.9	293.9	6.06	49.506	
1,500.0	1,494.0	1,447.2	1,435.8	3.5	4.1	166.46	84.2	237.1	334.2	327.7	6.51	51.329	
1,600.0	1,592.3	1,540.6	1,527.6	3.9	4.5	168.14	82.5	253.8	368.8	361.8	6.96	52.975	
1,700.0	1,690.5	1,633.9	1,619.4	4.3	4.8	169.54	80.9	270.5	403.5	396.1	7.42	54.422	
1,800.0	1,788.8	1,727.2	1,711.2	4.6	5.2	170.71	79.3	287.2	438.5	430.6	7.87	55.702	
1,900.0	1,887.0	1,820.6	1,803.0	5.0	5.6	171.71	77.6	303.9	473.6	465.3	8.33	56.838	
2,000.0	1,985.3	1,913.9	1,894.9	5.4	6.0	172.57	76.0	320.6	508.8	500.0	8.80	57.851	
2,100.0	2,083.5	2,007.3	1,986.7	5.8	6.3	173.33	74.4	337.3	544.1	534.9	9.26	58.757	
2,200.0	2,181.8	2,100.6	2,078.5	6.2	6.7	173.99	72.7	354.0	579.5	569.8	9.73	59.571	
9,800.0	7,987.0	7,825.1	7,660.2	52.2	26.9	-41.92	224.7	1,204.7	560.7	504.0	56.72	9.886	
9,900.0	7,987.0	7,825.4	7,660.4	54.6	26.9	-41.96	224.9	1,204.7	504.0	445.6	58.44	8.625	
10,000.0	7,987.0	7,825.8	7,660.6	57.1	26.9	-42.00	225.2	1,204.7	462.2	402.0	60.18	7.680	
10,100.0	7,987.0	7,826.1	7,660.8	59.6	26.9	-42.04	225.4	1,204.7	439.6	377.7	61.95	7.096	
10,151.9	7,987.0	7,826.2	7,660.9	60.9	26.9	-42.07	225.5	1,204.7	436.5	373.7	62.88	6.942	
10,200.0	7,987.0	7,826.4	7,661.0	62.1	26.9	-42.09	225.6	1,204.7	439.2	375.4	63.75	6.890 SF	
10,300.0	7,987.0	7,826.7	7,661.2	64.6	26.9	-42.13	225.9	1,204.7	461.0	395.4	65.56	7.032	
10,400.0	7,987.0	7,827.0	7,661.4	67.2	26.9	-42.17	226.1	1,204.7	502.1	434.8	67.38	7.452	
10,500.0	7,987.0	7,827.3	7,661.7	69.8	26.9	-42.21	226.3	1,204.7	558.4	489.1	69.23	8.065	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		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	-159.62	-42.3	-15.7	45.1					
100.0	100.0	99.0	99.0	0.1	0.1	-159.62	-42.3	-15.7	45.1	44.9	0.22	201.560		
200.0	200.0	199.0	199.0	0.3	0.3	-159.62	-42.3	-15.7	45.1	44.4	0.67	67.075 CC, ES		
300.0	300.0	297.7	297.7	0.6	0.5	-158.50	-43.2	-17.0	46.5	45.4	1.10	42.225		
400.0	400.0	396.1	396.0	0.8	0.8	-155.47	-46.2	-21.1	50.9	49.4	1.54	33.127		
500.0	500.0	494.1	493.6	1.0	1.0	-151.46	-51.2	-27.8	58.5	56.5	2.00	29.251		
600.0	600.0	591.4	590.2	1.2	1.3	-147.36	-58.1	-37.2	69.5	67.0	2.50	27.794		
700.0	700.0	687.8	685.4	1.5	1.6	-143.70	-66.8	-49.1	84.0	80.9	3.05	27.582		
800.0	800.0	783.0	779.0	1.7	2.0	-140.67	-77.3	-63.3	101.9	98.3	3.64	28.026		
900.0	900.0	878.0	871.6	1.9	2.4	-145.94	-89.5	-80.0	121.9	118.1	3.84	31.754		
1,000.0	999.8	976.1	967.2	2.1	2.8	-145.21	-102.9	-98.1	140.8	136.5	4.29	32.816		
1,100.0	1,099.5	1,074.8	1,063.2	2.3	3.3	-145.54	-116.3	-116.3	157.3	152.5	4.76	33.023		
1,200.0	1,198.7	1,173.7	1,159.5	2.6	3.8	-146.64	-129.7	-134.6	171.3	166.1	5.27	32.539		
1,300.0	1,297.5	1,272.8	1,256.0	2.9	4.3	-148.39	-143.2	-152.9	183.2	177.4	5.81	31.517		
1,400.0	1,395.8	1,372.0	1,352.5	3.2	4.8	-150.65	-156.6	-171.2	193.4	187.0	6.42	30.139		
1,500.0	1,494.0	1,471.2	1,449.1	3.5	5.2	-152.78	-170.1	-189.6	203.9	196.8	7.07	28.851		
1,600.0	1,592.3	1,570.4	1,545.6	3.9	5.7	-154.70	-183.6	-207.9	214.5	206.8	7.74	27.704		
1,700.0	1,690.5	1,669.5	1,642.2	4.3	6.2	-156.45	-197.0	-226.2	225.4	216.9	8.45	26.687		
1,800.0	1,788.8	1,768.7	1,738.7	4.6	6.7	-158.03	-210.5	-244.5	236.5	227.3	9.17	25.786		
1,900.0	1,887.0	1,867.9	1,835.2	5.0	7.2	-159.46	-224.0	-262.8	247.7	237.8	9.91	24.987		
2,000.0	1,985.3	1,967.1	1,931.8	5.4	7.7	-160.78	-237.5	-281.2	259.0	248.4	10.67	24.279		
2,100.0	2,083.5	2,066.3	2,028.3	5.8	8.2	-161.98	-250.9	-299.5	270.5	259.1	11.44	23.649		
2,200.0	2,181.8	2,165.5	2,124.9	6.2	8.7	-163.09	-264.4	-317.8	282.1	269.9	12.22	23.087		
2,300.0	2,280.0	2,264.6	2,221.4	6.6	9.2	-164.10	-277.9	-336.1	293.8	280.8	13.01	22.585		
2,400.0	2,378.3	2,363.8	2,317.9	7.0	9.7	-165.04	-291.3	-354.4	305.6	291.8	13.81	22.134		
2,500.0	2,476.5	2,463.0	2,414.5	7.5	10.2	-165.91	-304.8	-372.8	317.5	302.9	14.61	21.727		
2,600.0	2,574.8	2,562.2	2,511.0	7.9	10.7	-166.72	-318.3	-391.1	329.4	314.0	15.42	21.359		
2,700.0	2,673.0	2,661.4	2,607.6	8.3	11.2	-167.47	-331.8	-409.4	341.4	325.1	16.24	21.026		
2,800.0	2,771.3	2,760.6	2,704.1	8.7	11.7	-168.17	-345.2	-427.7	353.4	336.4	17.05	20.722		
2,900.0	2,869.5	2,859.7	2,800.7	9.1	12.2	-168.82	-358.7	-446.0	365.5	347.6	17.88	20.445		
3,000.0	2,967.8	2,958.9	2,897.2	9.5	12.7	-169.44	-372.2	-464.4	377.6	358.9	18.70	20.191		
3,100.0	3,066.0	3,058.1	2,993.7	9.9	13.2	-170.01	-385.6	-482.7	389.8	370.3	19.53	19.958		
3,200.0	3,164.3	3,157.3	3,090.3	10.4	13.7	-170.55	-399.1	-501.0	402.0	381.6	20.36	19.744		
3,300.0	3,262.5	3,256.5	3,186.8	10.8	14.2	-171.06	-412.6	-519.3	414.2	393.1	21.19	19.545		
3,400.0	3,360.8	3,355.7	3,283.4	11.2	14.6	-171.53	-426.1	-537.6	426.5	404.5	22.03	19.362		
3,500.0	3,459.0	3,454.8	3,379.9	11.6	15.1	-171.99	-439.5	-556.0	438.8	415.9	22.87	19.191		
3,600.0	3,557.3	3,554.0	3,476.4	12.0	15.6	-172.41	-453.0	-574.3	451.1	427.4	23.70	19.033		
3,700.0	3,655.5	3,653.2	3,573.0	12.4	16.1	-172.82	-466.5	-592.6	463.5	438.9	24.54	18.885		
3,800.0	3,753.8	3,752.4	3,669.5	12.9	16.6	-173.20	-479.9	-610.9	475.8	450.5	25.38	18.747		
3,900.0	3,852.1	3,851.6	3,766.1	13.3	17.1	-173.56	-493.4	-629.2	488.2	462.0	26.22	18.618		
4,000.0	3,950.3	3,950.8	3,862.6	13.7	17.6	-173.91	-506.9	-647.6	500.6	473.6	27.07	18.497		
4,100.0	4,048.6	4,049.9	3,959.2	14.1	18.1	-174.24	-520.3	-665.9	513.1	485.2	27.91	18.384		
4,200.0	4,146.8	4,149.1	4,055.7	14.5	18.6	-174.55	-533.8	-684.2	525.5	496.7	28.75	18.277		
4,300.0	4,245.1	4,248.3	4,152.2	15.0	19.1	-174.85	-547.3	-702.5	538.0	508.4	29.60	18.176		
4,400.0	4,343.3	4,347.5	4,248.8	15.4	19.6	-175.14	-560.8	-720.8	550.4	520.0	30.44	18.081		
4,500.0	4,441.6	4,446.7	4,345.3	15.8	20.1	-175.41	-574.2	-739.2	562.9	531.6	31.29	17.991		
4,600.0	4,539.8	4,545.9	4,441.9	16.2	20.6	-175.67	-587.7	-757.5	575.4	543.3	32.13	17.906		
4,700.0	4,638.1	4,645.0	4,538.4	16.7	21.1	-175.92	-601.2	-775.8	587.9	554.9	32.98	17.826 SF		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

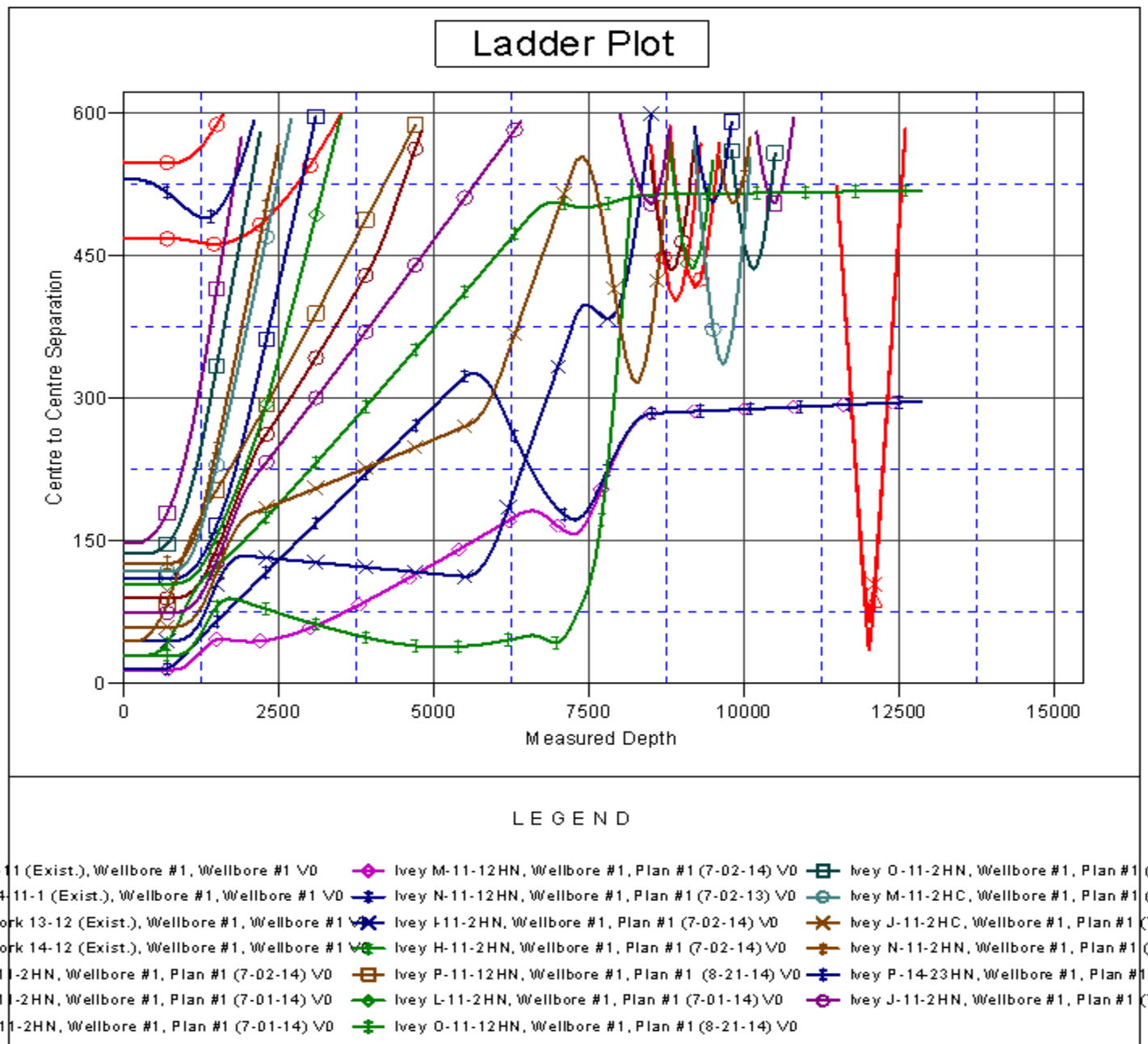
Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-11-2HN - Wellbore #1 - Plan #1 (7-01-14)													Offset Site Error: 0.0 ft
Survey Program: 0-MWD													Offset Well Error: 0.0 ft
Reference	Offset	Semi Major Axis		Distance									Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (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	48.56	98.0	111.0	148.1				
100.0	100.0	98.0	98.0	0.1	0.1	48.56	98.0	111.0	148.1	147.8	0.22	665.348	
200.0	200.0	198.0	198.0	0.3	0.3	48.56	98.0	111.0	148.1	147.4	0.67	221.043 CC, ES	
300.0	300.0	294.6	294.5	0.6	0.5	48.99	97.9	112.5	149.2	148.1	1.10	135.434	
400.0	400.0	390.8	390.7	0.8	0.8	50.27	97.5	117.3	152.7	151.2	1.54	99.249	
500.0	500.0	486.7	486.2	1.0	1.0	52.28	96.9	125.3	158.8	156.8	1.99	79.685	
600.0	600.0	581.9	580.8	1.2	1.3	54.83	96.1	136.3	167.7	165.2	2.47	67.877	
700.0	700.0	676.2	674.1	1.5	1.6	57.72	95.0	150.4	179.5	176.5	2.98	60.257	
800.0	800.0	769.6	765.8	1.7	1.9	60.74	93.7	167.3	194.4	190.9	3.53	55.127	
900.0	900.0	861.3	855.5	1.9	2.3	156.31	92.2	186.8	214.1	210.2	3.94	54.320	
1,000.0	999.8	956.9	948.4	2.1	2.7	159.39	90.5	208.7	239.2	234.8	4.43	54.057	
1,100.0	1,099.5	1,051.8	1,040.8	2.3	3.2	162.10	88.9	230.6	268.1	263.2	4.89	54.846	
1,200.0	1,198.7	1,145.6	1,132.1	2.6	3.6	164.43	87.2	252.2	300.7	295.4	5.34	56.339	
1,300.0	1,297.5	1,238.1	1,222.1	2.9	4.1	166.41	85.6	273.5	336.9	331.1	5.77	58.350	
1,400.0	1,395.8	1,329.5	1,311.0	3.2	4.5	168.20	84.0	294.5	376.0	369.8	6.22	60.491	
1,500.0	1,494.0	1,420.9	1,399.9	3.5	5.0	169.71	82.4	315.5	415.6	408.9	6.66	62.349	
1,600.0	1,592.3	1,512.2	1,488.8	3.9	5.4	170.97	80.8	336.6	455.3	448.2	7.12	63.955	
1,700.0	1,690.5	1,603.5	1,577.6	4.3	5.9	172.02	79.1	357.6	495.2	487.7	7.58	65.352	
1,800.0	1,788.8	1,694.9	1,666.5	4.6	6.3	172.92	77.5	378.6	535.3	527.3	8.04	66.572	
1,900.0	1,887.0	1,786.2	1,755.3	5.0	6.8	173.69	75.9	399.6	575.4	566.9	8.51	67.644	
10,200.0	7,987.0	7,834.1	7,593.1	62.1	32.1	-39.22	251.8	1,538.2	580.8	516.6	64.16	9.052	
10,300.0	7,987.0	7,834.1	7,593.1	64.6	32.1	-39.22	251.8	1,538.2	538.7	472.9	65.84	8.183	
10,400.0	7,987.0	7,834.1	7,593.1	67.2	32.1	-39.22	251.8	1,538.2	513.0	445.5	67.54	7.596	
10,485.3	7,987.0	7,834.1	7,593.1	69.4	32.1	-39.22	251.8	1,538.2	505.9	436.9	69.00	7.332	
10,500.0	7,987.0	7,834.1	7,593.1	69.8	32.1	-39.22	251.8	1,538.2	506.1	436.8	69.25	7.308 SF	
10,600.0	7,987.0	7,834.1	7,593.1	72.4	32.1	-39.22	251.8	1,538.2	518.7	447.8	70.97	7.309	
10,700.0	7,987.0	7,834.1	7,593.1	75.0	32.1	-39.22	251.8	1,538.2	549.6	476.9	72.70	7.559	
10,800.0	7,987.0	7,834.1	7,593.1	77.6	32.1	-39.22	251.8	1,538.2	595.8	521.3	74.44	8.003	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-14-23HN - Wellbore #1 - Plan #1 (8-21-14)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	2.0	2.0	0.0	0.0	-147.13	-445.9	-288.1	530.9				
100.0	100.0	102.0	102.0	0.1	0.1	-147.13	-445.9	-288.1	530.9	530.6	0.23	2,315.573	
200.0	200.0	202.1	202.1	0.3	0.3	-147.13	-445.9	-288.1	530.9	530.2	0.68	782.030	
300.0	300.0	308.8	308.8	0.6	0.6	-147.34	-446.3	-286.1	530.2	529.1	1.13	468.690	
400.0	400.0	415.2	415.0	0.8	0.8	-147.95	-447.7	-280.2	528.3	526.7	1.59	331.770	
500.0	500.0	520.9	520.3	1.0	1.1	-148.97	-449.9	-270.6	525.4	523.3	2.07	254.303	
600.0	600.0	625.9	624.3	1.2	1.4	-150.40	-453.0	-257.3	521.5	518.9	2.55	204.624	
700.0	700.0	729.6	726.6	1.5	1.8	-152.23	-456.9	-240.6	516.9	513.9	3.04	170.165	
800.0	800.0	832.0	826.9	1.7	2.2	-154.47	-461.5	-220.5	512.1	508.5	3.53	145.015	
900.0	900.0	932.3	924.3	1.9	2.6	-64.78	-466.8	-197.4	506.6	502.1	4.52	111.962	
1,000.0	999.8	1,027.6	1,016.6	2.1	3.1	-68.10	-472.2	-174.0	500.8	495.6	5.22	95.982	
1,100.0	1,099.5	1,121.9	1,107.8	2.3	3.6	-71.77	-477.6	-150.8	495.7	489.8	5.93	83.600	
1,200.0	1,198.7	1,215.0	1,197.9	2.6	4.1	-75.78	-482.9	-127.9	491.9	485.3	6.66	73.861	
1,300.0	1,297.5	1,306.7	1,286.7	2.9	4.6	-80.06	-488.1	-105.4	490.2	482.8	7.41	66.146	
1,311.9	1,309.2	1,317.6	1,297.2	2.9	4.6	-80.59	-488.7	-102.7	490.2	482.7	7.50	65.321 CC, ES	
1,400.0	1,395.8	1,397.4	1,374.4	3.2	5.1	-84.53	-493.2	-83.1	491.5	483.3	8.18	60.078	
1,500.0	1,494.0	1,487.9	1,462.0	3.5	5.5	-88.97	-498.4	-60.8	496.3	487.4	8.95	55.468	
1,600.0	1,592.3	1,578.5	1,549.6	3.9	6.0	-93.32	-503.5	-38.5	504.7	495.0	9.70	52.042	
1,700.0	1,690.5	1,669.0	1,637.2	4.3	6.5	-97.52	-508.7	-16.3	516.4	506.0	10.42	49.558	
1,800.0	1,788.8	1,759.6	1,724.8	4.6	7.0	-101.55	-513.8	6.0	531.3	520.2	11.11	47.822	
1,900.0	1,887.0	1,850.1	1,812.5	5.0	7.5	-105.37	-518.9	28.3	549.1	537.3	11.76	46.676	
2,000.0	1,985.3	1,940.7	1,900.1	5.4	8.0	-108.98	-524.1	50.5	569.5	557.1	12.38	45.995	
2,100.0	2,083.5	2,031.2	1,987.7	5.8	8.5	-112.35	-529.2	72.8	592.2	579.2	12.96	45.679 SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5130.5ft (Original Well Elev) Coordinates are relative to: Ivey M-11-12HC
 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: 0.35°



Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey M-11-12HC
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5130.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5130.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey M-11-12HC	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (7-02-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5130.5ft (Original Well Elev) Coordinates are relative to: Ivey M-11-12HC
 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: 0.35°

