

Bayswater Exploration & Production, LLC

Well Name: **Ivey P-11-12HN**

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

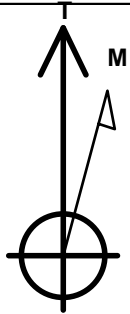
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 5107.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1234142.01	3149754.34	39.974865	-104.965650	
Original Well Elev WELL @ 5129.5ft (Original Well Elev)						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 1035'FSL, 1746'FEL, SEC.11	1.0	0.0	0.0	Point
BHL 190'FSL, 2175'FWL, SEC.12	7739.0	-858.7	3921.1	Point
LANDING PT. 190'FSL, 2175'FEL, SEC.11	7754.0	-844.4	-429.1	Point



Azimuths to True North
Magnetic North: 8.50°

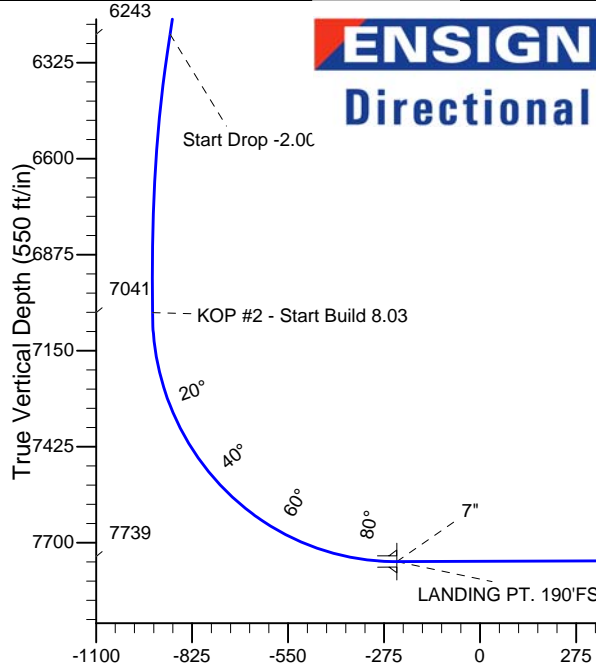
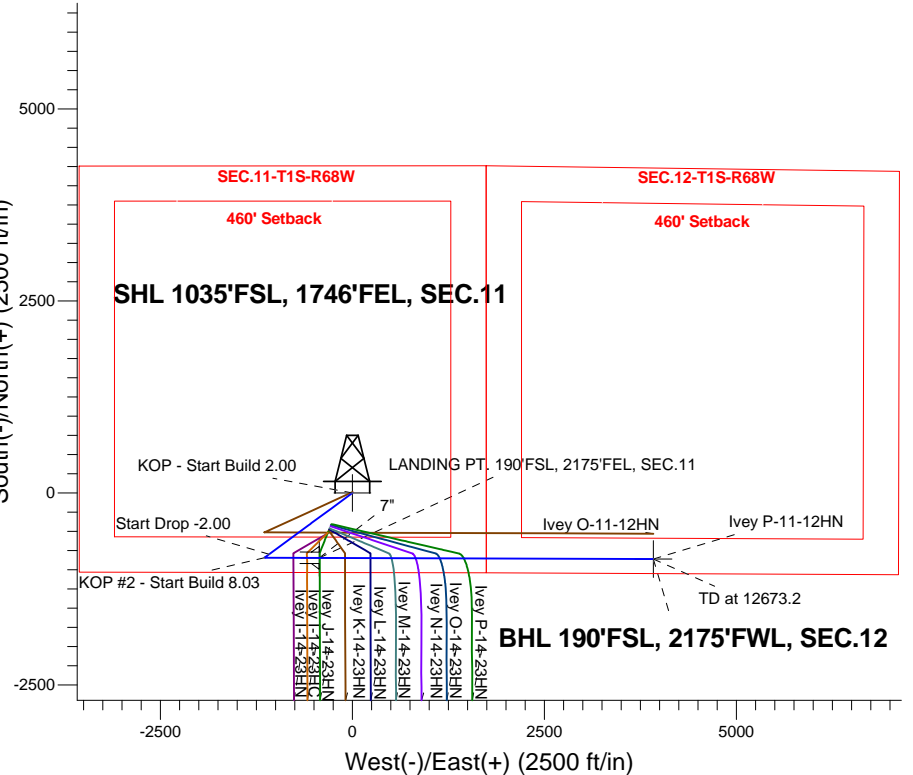
Magnetic Field
Strength: 52547.0nT
Dip Angle: 66.56°
Date: 8/27/2014
Model: IGRF2010

Ivey Pad Sec.11-T1S-R68W
Ivey P-11-12HN
Plan #1 (8-21-14)

ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	KOP - Start Build 2.00
6243.2	6396.5	Start Drop -2.00
7040.6	7199.8	KOP #2 - Start Build 8.03
7739.0	12673.2	TD at 12673.2

South(-)/North(+) (2500 ft/in)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	862.7	13.25	233.67	856.8	-45.2	-61.5	2.00	233.67	-50.4	
4	6396.5	13.25	233.67	6243.2	-796.8	-1083.6	0.00	0.00	-888.1	
5	7059.2	0.00	0.00	6900.0	-842.0	-1145.1	2.00	180.00	-938.5	
6	7199.8	0.00	0.00	7040.6	-842.0	-1145.1	0.00	0.00	-938.5	
7	8322.9	90.20	90.19	7754.0	-844.4	-429.2	8.03	90.19	-238.6	LANDING PT. 190'FSL, 2175'FEL, SEC.11
8	8323.0	90.20	90.19	7754.0	-844.4	-429.1	0.00	0.00	-238.5	
9	8323.5	90.20	90.19	7754.0	-844.4	-428.6	1.00	-122.00	-238.1	
10	12673.2	90.20	90.19	7739.0	-858.7	3921.1	0.00	0.00	4014.0	BHL 190'FSL, 2175'FWL, SEC.12

BHL 190'FSL, 2175'FWL, SEC.12

Vertical Section at 102.35° (550 ft/in)



Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey P-11-12HN

Wellbore #1

Plan: Plan #1 (8-21-14)

Standard Planning Report

27 August, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Database:	landmark	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey P-11-12HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-21-14)		

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 P-11-12HN					
Well Position	+N/-S	-141.0 ft	Northing:	1,234,142.01 ft	Latitude:	39.974865
	+E/-W	-51.6 ft	Easting:	3,149,754.34 ft	Longitude:	-104.965650
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,107.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/27/2014	8.50	66.56	52,547

Design	Plan #1 (8-21-14)			
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	102.35

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
862.7	13.25	233.67	856.8	-45.2	-61.5	2.00	2.00	0.00	233.67	
6,396.5	13.25	233.67	6,243.2	-796.8	-1,083.6	0.00	0.00	0.00	0.00	
7,059.2	0.00	0.00	6,900.0	-842.0	-1,145.1	2.00	-2.00	0.00	180.00	
7,199.8	0.00	0.00	7,040.6	-842.0	-1,145.1	0.00	0.00	0.00	0.00	
8,322.9	90.20	90.19	7,754.0	-844.4	-429.2	8.03	8.03	0.00	90.19	
8,323.0	90.20	90.19	7,754.0	-844.4	-429.1	0.00	0.00	0.00	0.00	LANDING PT. 190'I
8,323.5	90.20	90.19	7,754.0	-844.4	-428.6	1.00	-0.53	-0.85	-122.00	
12,673.2	90.20	90.19	7,739.0	-858.7	3,921.1	0.00	0.00	0.00	0.00	BHL 190'FSL, 2175

Database:	landmark	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey P-11-12HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-21-14)		

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
KOP - Start Build 2.00									
300.0	2.00	233.67	300.0	-1.0	-1.4	-1.2	2.00	2.00	0.00
400.0	4.00	233.67	399.8	-4.1	-5.6	-4.6	2.00	2.00	0.00
500.0	6.00	233.67	499.5	-9.3	-12.6	-10.4	2.00	2.00	0.00
600.0	8.00	233.67	598.7	-16.5	-22.5	-18.4	2.00	2.00	0.00
700.0	10.00	233.67	697.5	-25.8	-35.1	-28.7	2.00	2.00	0.00
800.0	12.00	233.67	795.6	-37.1	-50.4	-41.3	2.00	2.00	0.00
862.7	13.25	233.67	856.8	-45.2	-61.5	-50.4	2.00	2.00	0.00
900.0	13.25	233.67	893.1	-50.3	-68.4	-56.0	0.00	0.00	0.00
1,000.0	13.25	233.67	990.4	-63.9	-86.8	-71.2	0.00	0.00	0.00
1,100.0	13.25	233.67	1,087.8	-77.4	-105.3	-86.3	0.00	0.00	0.00
1,200.0	13.25	233.67	1,185.1	-91.0	-123.8	-101.4	0.00	0.00	0.00
1,300.0	13.25	233.67	1,282.5	-104.6	-142.3	-116.6	0.00	0.00	0.00
1,400.0	13.25	233.67	1,379.8	-118.2	-160.7	-131.7	0.00	0.00	0.00
1,500.0	13.25	233.67	1,477.1	-131.8	-179.2	-146.9	0.00	0.00	0.00
1,600.0	13.25	233.67	1,574.5	-145.3	-197.7	-162.0	0.00	0.00	0.00
1,700.0	13.25	233.67	1,671.8	-158.9	-216.1	-177.1	0.00	0.00	0.00
1,800.0	13.25	233.67	1,769.1	-172.5	-234.6	-192.3	0.00	0.00	0.00
1,900.0	13.25	233.67	1,866.5	-186.1	-253.1	-207.4	0.00	0.00	0.00
2,000.0	13.25	233.67	1,963.8	-199.7	-271.5	-222.5	0.00	0.00	0.00
2,100.0	13.25	233.67	2,061.1	-213.3	-290.0	-237.7	0.00	0.00	0.00
2,200.0	13.25	233.67	2,158.5	-226.8	-308.5	-252.8	0.00	0.00	0.00
2,300.0	13.25	233.67	2,255.8	-240.4	-327.0	-268.0	0.00	0.00	0.00
2,400.0	13.25	233.67	2,353.2	-254.0	-345.4	-283.1	0.00	0.00	0.00
2,500.0	13.25	233.67	2,450.5	-267.6	-363.9	-298.2	0.00	0.00	0.00
2,600.0	13.25	233.67	2,547.8	-281.2	-382.4	-313.4	0.00	0.00	0.00
2,700.0	13.25	233.67	2,645.2	-294.7	-400.8	-328.5	0.00	0.00	0.00
2,800.0	13.25	233.67	2,742.5	-308.3	-419.3	-343.7	0.00	0.00	0.00
2,900.0	13.25	233.67	2,839.8	-321.9	-437.8	-358.8	0.00	0.00	0.00
3,000.0	13.25	233.67	2,937.2	-335.5	-456.3	-373.9	0.00	0.00	0.00
3,100.0	13.25	233.67	3,034.5	-349.1	-474.7	-389.1	0.00	0.00	0.00
3,200.0	13.25	233.67	3,131.8	-362.7	-493.2	-404.2	0.00	0.00	0.00
3,300.0	13.25	233.67	3,229.2	-376.2	-511.7	-419.3	0.00	0.00	0.00
3,400.0	13.25	233.67	3,326.5	-389.8	-530.1	-434.5	0.00	0.00	0.00
3,500.0	13.25	233.67	3,423.9	-403.4	-548.6	-449.6	0.00	0.00	0.00
3,600.0	13.25	233.67	3,521.2	-417.0	-567.1	-464.8	0.00	0.00	0.00
3,700.0	13.25	233.67	3,618.5	-430.6	-585.6	-479.9	0.00	0.00	0.00
3,800.0	13.25	233.67	3,715.9	-444.1	-604.0	-495.0	0.00	0.00	0.00
3,900.0	13.25	233.67	3,813.2	-457.7	-622.5	-510.2	0.00	0.00	0.00
4,000.0	13.25	233.67	3,910.5	-471.3	-641.0	-525.3	0.00	0.00	0.00
4,100.0	13.25	233.67	4,007.9	-484.9	-659.4	-540.4	0.00	0.00	0.00
4,200.0	13.25	233.67	4,105.2	-498.5	-677.9	-555.6	0.00	0.00	0.00
4,300.0	13.25	233.67	4,202.5	-512.1	-696.4	-570.7	0.00	0.00	0.00
4,400.0	13.25	233.67	4,299.9	-525.6	-714.9	-585.9	0.00	0.00	0.00
4,500.0	13.25	233.67	4,397.2	-539.2	-733.3	-601.0	0.00	0.00	0.00
4,600.0	13.25	233.67	4,494.6	-552.8	-751.8	-616.1	0.00	0.00	0.00
4,700.0	13.25	233.67	4,591.9	-566.4	-770.3	-631.3	0.00	0.00	0.00
4,800.0	13.25	233.67	4,689.2	-580.0	-788.7	-646.4	0.00	0.00	0.00
4,900.0	13.25	233.67	4,786.6	-593.5	-807.2	-661.6	0.00	0.00	0.00
5,000.0	13.25	233.67	4,883.9	-607.1	-825.7	-676.7	0.00	0.00	0.00
5,100.0	13.25	233.67	4,981.2	-620.7	-844.1	-691.8	0.00	0.00	0.00

Database:	landmark	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey P-11-12HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-21-14)		

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	13.25	233.67	5,078.6	-634.3	-862.6	-707.0	0.00	0.00	0.00
5,300.0	13.25	233.67	5,175.9	-647.9	-881.1	-722.1	0.00	0.00	0.00
5,400.0	13.25	233.67	5,273.2	-661.5	-899.6	-737.2	0.00	0.00	0.00
5,500.0	13.25	233.67	5,370.6	-675.0	-918.0	-752.4	0.00	0.00	0.00
5,600.0	13.25	233.67	5,467.9	-688.6	-936.5	-767.5	0.00	0.00	0.00
5,700.0	13.25	233.67	5,565.3	-702.2	-955.0	-782.7	0.00	0.00	0.00
5,800.0	13.25	233.67	5,662.6	-715.8	-973.4	-797.8	0.00	0.00	0.00
5,900.0	13.25	233.67	5,759.9	-729.4	-991.9	-812.9	0.00	0.00	0.00
6,000.0	13.25	233.67	5,857.3	-742.9	-1,010.4	-828.1	0.00	0.00	0.00
6,100.0	13.25	233.67	5,954.6	-756.5	-1,028.9	-843.2	0.00	0.00	0.00
6,200.0	13.25	233.67	6,051.9	-770.1	-1,047.3	-858.3	0.00	0.00	0.00
6,300.0	13.25	233.67	6,149.3	-783.7	-1,065.8	-873.5	0.00	0.00	0.00
6,396.5	13.25	233.67	6,243.2	-796.8	-1,083.6	-888.1	0.00	0.00	0.00
Start Drop -2.00									
6,400.0	13.18	233.67	6,246.6	-797.3	-1,084.3	-888.6	2.01	-2.01	0.00
6,500.0	11.18	233.67	6,344.4	-809.8	-1,101.3	-902.6	2.00	-2.00	0.00
6,600.0	9.18	233.67	6,442.8	-820.2	-1,115.5	-914.2	2.00	-2.00	0.00
6,700.0	7.18	233.67	6,541.7	-828.7	-1,127.0	-923.6	2.00	-2.00	0.00
6,800.0	5.18	233.67	6,641.2	-835.1	-1,135.7	-930.7	2.00	-2.00	0.00
6,900.0	3.18	233.67	6,740.9	-839.4	-1,141.5	-935.6	2.00	-2.00	0.00
7,000.0	1.18	233.67	6,840.8	-841.6	-1,144.6	-938.1	2.00	-2.00	0.00
7,059.2	0.00	0.00	6,900.0	-842.0	-1,145.1	-938.5	2.00	-2.00	0.00
7,100.0	0.00	0.00	6,940.8	-842.0	-1,145.1	-938.5	0.00	0.00	0.00
7,199.8	0.00	0.00	7,040.6	-842.0	-1,145.1	-938.5	0.00	0.00	0.00
KOP #2 - Start Build 8.03									
7,200.0	0.00	90.19	7,040.8	-842.0	-1,145.1	-938.5	0.00	0.00	0.00
7,300.0	8.05	90.19	7,140.5	-842.0	-1,138.1	-931.6	8.05	8.05	0.00
7,400.0	16.08	90.19	7,238.2	-842.1	-1,117.2	-911.2	8.03	8.03	0.00
7,500.0	24.11	90.19	7,332.0	-842.2	-1,082.9	-877.6	8.03	8.03	0.00
7,600.0	32.14	90.19	7,420.1	-842.4	-1,035.8	-831.6	8.03	8.03	0.00
7,700.0	40.17	90.19	7,500.8	-842.6	-976.8	-774.0	8.03	8.03	0.00
7,800.0	48.20	90.19	7,572.5	-842.8	-907.2	-705.9	8.03	8.03	0.00
7,900.0	56.24	90.19	7,633.7	-843.1	-828.2	-628.7	8.03	8.03	0.00
8,000.0	64.27	90.19	7,683.3	-843.4	-741.4	-543.9	8.03	8.03	0.00
8,100.0	72.30	90.19	7,720.2	-843.7	-648.6	-453.1	8.03	8.03	0.00
8,200.0	80.33	90.19	7,743.9	-844.0	-551.5	-358.2	8.03	8.03	0.00
8,300.0	88.36	90.19	7,753.7	-844.3	-452.1	-261.0	8.03	8.03	0.00
8,322.9	90.20	90.19	7,754.0	-844.4	-429.2	-238.6	8.03	8.03	0.00
7"									
8,323.0	90.20	90.19	7,754.0	-844.4	-429.1	-238.5	0.00	0.00	0.00
8,323.5	90.20	90.19	7,754.0	-844.4	-428.6	-238.1	1.00	-0.53	-0.85
8,400.0	90.20	90.19	7,753.7	-844.6	-352.1	-163.3	0.00	0.00	0.00
8,500.0	90.20	90.19	7,753.4	-845.0	-252.1	-65.5	0.00	0.00	0.00
8,600.0	90.20	90.19	7,753.0	-845.3	-152.1	32.2	0.00	0.00	0.00
8,700.0	90.20	90.19	7,752.7	-845.6	-52.1	130.0	0.00	0.00	0.00
8,800.0	90.20	90.19	7,752.4	-846.0	47.9	227.8	0.00	0.00	0.00
8,900.0	90.20	90.19	7,752.0	-846.3	147.9	325.5	0.00	0.00	0.00
9,000.0	90.20	90.19	7,751.7	-846.6	247.9	423.3	0.00	0.00	0.00
9,100.0	90.20	90.19	7,751.3	-846.9	347.9	521.0	0.00	0.00	0.00
9,200.0	90.20	90.19	7,751.0	-847.3	447.9	618.8	0.00	0.00	0.00
9,300.0	90.20	90.19	7,750.6	-847.6	547.9	716.5	0.00	0.00	0.00
9,400.0	90.20	90.19	7,750.3	-847.9	647.9	814.3	0.00	0.00	0.00
9,500.0	90.20	90.19	7,749.9	-848.3	747.9	912.0	0.00	0.00	0.00

Database:	landmark	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey P-11-12HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-21-14)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,600.0	90.20	90.19	7,749.6	-848.6	847.9	1,009.8	0.00	0.00	0.00	
9,700.0	90.20	90.19	7,749.3	-848.9	947.9	1,107.5	0.00	0.00	0.00	
9,800.0	90.20	90.19	7,748.9	-849.2	1,047.9	1,205.3	0.00	0.00	0.00	
9,900.0	90.20	90.19	7,748.6	-849.6	1,147.9	1,303.0	0.00	0.00	0.00	
10,000.0	90.20	90.19	7,748.2	-849.9	1,247.9	1,400.8	0.00	0.00	0.00	
10,100.0	90.20	90.19	7,747.9	-850.2	1,347.9	1,498.6	0.00	0.00	0.00	
10,200.0	90.20	90.19	7,747.5	-850.6	1,447.9	1,596.3	0.00	0.00	0.00	
10,300.0	90.20	90.19	7,747.2	-850.9	1,547.9	1,694.1	0.00	0.00	0.00	
10,400.0	90.20	90.19	7,746.8	-851.2	1,647.9	1,791.8	0.00	0.00	0.00	
10,500.0	90.20	90.19	7,746.5	-851.5	1,747.9	1,889.6	0.00	0.00	0.00	
10,600.0	90.20	90.19	7,746.1	-851.9	1,847.9	1,987.3	0.00	0.00	0.00	
10,700.0	90.20	90.19	7,745.8	-852.2	1,947.9	2,085.1	0.00	0.00	0.00	
10,800.0	90.20	90.19	7,745.5	-852.5	2,047.9	2,182.8	0.00	0.00	0.00	
10,900.0	90.20	90.19	7,745.1	-852.8	2,147.9	2,280.6	0.00	0.00	0.00	
11,000.0	90.20	90.19	7,744.8	-853.2	2,247.9	2,378.3	0.00	0.00	0.00	
11,100.0	90.20	90.19	7,744.4	-853.5	2,347.9	2,476.1	0.00	0.00	0.00	
11,200.0	90.20	90.19	7,744.1	-853.8	2,447.9	2,573.9	0.00	0.00	0.00	
11,300.0	90.20	90.19	7,743.7	-854.2	2,547.9	2,671.6	0.00	0.00	0.00	
11,400.0	90.20	90.19	7,743.4	-854.5	2,647.9	2,769.4	0.00	0.00	0.00	
11,500.0	90.20	90.19	7,743.0	-854.8	2,747.9	2,867.1	0.00	0.00	0.00	
11,600.0	90.20	90.19	7,742.7	-855.1	2,847.9	2,964.9	0.00	0.00	0.00	
11,700.0	90.20	90.19	7,742.4	-855.5	2,947.9	3,062.6	0.00	0.00	0.00	
11,800.0	90.20	90.19	7,742.0	-855.8	3,047.9	3,160.4	0.00	0.00	0.00	
11,900.0	90.20	90.19	7,741.7	-856.1	3,147.9	3,258.1	0.00	0.00	0.00	
12,000.0	90.20	90.19	7,741.3	-856.5	3,247.9	3,355.9	0.00	0.00	0.00	
12,100.0	90.20	90.19	7,741.0	-856.8	3,347.9	3,453.6	0.00	0.00	0.00	
12,200.0	90.20	90.19	7,740.6	-857.1	3,447.9	3,551.4	0.00	0.00	0.00	
12,300.0	90.20	90.19	7,740.3	-857.4	3,547.9	3,649.1	0.00	0.00	0.00	
12,400.0	90.20	90.19	7,739.9	-857.8	3,647.9	3,746.9	0.00	0.00	0.00	
12,500.0	90.20	90.19	7,739.6	-858.1	3,747.9	3,844.7	0.00	0.00	0.00	
12,600.0	90.20	90.19	7,739.3	-858.4	3,847.8	3,942.4	0.00	0.00	0.00	
12,673.2	90.20	90.19	7,739.0	-858.7	3,921.0	4,014.0	0.00	0.00	0.00	
TD at 12673.2										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
8,322.9	7,754.0	7"	7	7-1/2	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP - Start Build 2.00	
6,396.5	6,243.2	-796.8	-1,083.6	Start Drop -2.00	
7,199.8	7,040.6	-842.0	-1,145.1	KOP #2 - Start Build 8.03	
12,673.2	7,739.0	-858.7	3,921.0	TD at 12673.2	



Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey P-11-12HN

Wellbore #1

Plan #1 (8-21-14)

Anticollision Report

27 August, 2014



Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (8-21-14)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 8/27/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,673.2	Plan #1 (8-21-14) (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
Offset Well - Wellbore - Design						
Ivey Pad Sec.11-T1S-R68W						
Ivey I-14-23HC - Wellbore #1 - Plan #1 (8-21-14)	8,148.1	7,733.9	87.3	47.6	2.198	CC, ES, SF
Ivey I-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	5,256.7	5,170.1	176.4	137.5	4.537	CC
Ivey I-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	5,300.0	5,212.3	176.7	137.5	4.516	ES
Ivey I-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	7,882.0	7,594.8	180.0	138.8	4.374	SF
Ivey J-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	8,324.3	7,650.0	254.0	219.2	7.313	CC, ES, SF
Ivey K-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	8,658.4	7,700.0	187.5	147.9	4.733	CC, ES, SF
Ivey L-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	8,988.3	7,711.9	185.9	139.7	4.027	CC, ES
Ivey L-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	9,000.0	7,711.9	186.2	139.9	4.020	SF
Ivey M-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	9,293.9	7,700.0	249.1	197.8	4.858	CC
Ivey M-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	9,300.0	7,700.0	249.2	197.8	4.851	ES, SF
Ivey N-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	9,616.5	7,740.6	247.0	187.9	4.177	CC, ES, SF
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	200.0	200.0	14.8	14.2	22.002	CC, ES
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	12,673.2	12,732.5	342.1	84.3	1.327	Level 3, SF
Ivey O-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	9,931.4	7,836.4	179.7	108.0	2.508	CC, ES, SF
Ivey P-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	10,261.1	7,863.9	242.3	164.9	3.128	CC, ES
Ivey P-14-23HN - Wellbore #1 - Plan #1 (8-21-14)	10,300.0	7,868.8	245.3	165.8	3.086	SF

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-14-23HC - Wellbore #1 - Plan #1 (8-21-14)												
Survey Program: 0-MWD												
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
0.0	0.0	3.0	3.0	0.0	0.0	-148.22	-514.4	-318.7	605.1			
100.0	100.0	103.0	103.0	0.1	0.1	-148.22	-514.4	-318.7	605.1	604.8	0.23	2,613.632
200.0	200.0	203.0	203.0	0.3	0.3	-148.22	-514.4	-318.7	605.1	604.4	0.68	888.462
300.0	300.0	303.0	303.0	0.5	0.6	-21.97	-514.4	-318.7	603.5	602.3	1.12	539.401
400.0	399.8	402.8	402.8	0.8	0.8	-22.19	-514.4	-318.7	598.6	597.1	1.56	384.072
500.0	499.5	502.5	502.5	1.0	1.0	-22.57	-514.4	-318.7	590.5	588.5	2.01	293.610
600.0	598.7	601.7	601.7	1.3	1.2	-23.12	-514.4	-318.7	579.3	576.8	2.47	234.102
700.0	697.5	700.5	700.5	1.6	1.5	-23.86	-514.4	-318.7	564.9	562.0	2.95	191.507
800.0	795.6	798.6	798.6	2.0	1.7	-24.82	-514.4	-318.7	547.5	544.0	3.44	159.105
900.0	893.1	896.1	896.1	2.5	1.9	-25.94	-514.4	-318.7	527.3	523.3	3.95	133.440
1,000.0	990.4	993.4	993.4	2.9	2.1	-27.06	-514.4	-318.7	506.7	502.2	4.48	113.129
1,100.0	1,087.8	1,090.8	1,090.8	3.4	2.3	-28.29	-514.4	-318.7	486.2	481.2	5.02	96.820

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-14-23HC - Wellbore #1 - Plan #1 (8-21-14)												Offset Site Error:	0.0 ft
Survey Program: 0-MWDD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,200.0	1,185.1	1,188.1	1,188.1	3.9	2.6	-29.61	-514.4	-318.7	466.1	460.5	5.58	83.497	
1,300.0	1,282.5	1,274.7	1,274.7	4.4	2.7	-30.84	-515.0	-319.4	447.2	441.1	6.11	73.191	
1,400.0	1,379.8	1,360.7	1,360.6	4.9	2.9	-32.03	-517.5	-321.9	431.2	424.6	6.63	65.030	
1,500.0	1,477.1	1,447.6	1,447.3	5.4	3.1	-33.15	-521.9	-326.3	418.2	411.0	7.16	58.370	
1,600.0	1,574.5	1,538.2	1,537.4	5.9	3.2	-34.22	-528.3	-332.8	408.1	400.3	7.72	52.846	
1,700.0	1,671.8	1,637.4	1,636.1	6.4	3.5	-35.40	-535.9	-340.5	398.8	390.5	8.32	47.913	
1,800.0	1,769.1	1,736.6	1,734.7	6.9	3.7	-36.63	-543.5	-348.2	389.8	380.8	8.95	43.567	
1,900.0	1,866.5	1,835.9	1,833.3	7.4	3.9	-37.92	-551.1	-355.9	380.9	371.3	9.59	39.722	
2,000.0	1,963.8	1,935.1	1,932.0	7.9	4.2	-39.27	-558.7	-363.6	372.3	362.0	10.25	36.306	
2,100.0	2,061.1	2,034.3	2,030.6	8.4	4.4	-40.68	-566.3	-371.2	363.8	352.9	10.94	33.264	
2,200.0	2,158.5	2,133.6	2,129.2	8.9	4.7	-42.15	-573.9	-378.9	355.6	344.0	11.64	30.543	
2,300.0	2,255.8	2,232.8	2,227.9	9.4	5.0	-43.70	-581.5	-386.6	347.7	335.3	12.37	28.103	
2,400.0	2,353.2	2,332.0	2,326.5	9.9	5.3	-45.32	-589.1	-394.3	340.0	326.8	13.12	25.911	
2,500.0	2,450.5	2,431.2	2,425.2	10.4	5.5	-47.00	-596.7	-402.0	332.5	318.6	13.89	23.937	
2,600.0	2,547.8	2,530.5	2,523.8	10.9	5.8	-48.77	-604.3	-409.7	325.4	310.7	14.69	22.158	
2,700.0	2,645.2	2,629.7	2,622.4	11.4	6.1	-50.61	-611.9	-417.4	318.6	303.1	15.50	20.552	
2,800.0	2,742.5	2,728.9	2,721.1	11.9	6.4	-52.52	-619.5	-425.1	312.2	295.9	16.34	19.101	
2,900.0	2,839.8	2,828.2	2,819.7	12.4	6.7	-54.52	-627.1	-432.8	306.1	288.9	17.21	17.792	
3,000.0	2,937.2	2,927.4	2,918.3	12.9	7.0	-56.59	-634.7	-440.5	300.4	282.3	18.09	16.610	
3,100.0	3,034.5	3,026.6	3,017.0	13.4	7.2	-58.74	-642.3	-448.2	295.2	276.2	18.99	15.543	
3,200.0	3,131.8	3,125.9	3,115.6	13.9	7.5	-60.96	-649.9	-455.9	290.3	270.4	19.91	14.583	
3,300.0	3,229.2	3,225.1	3,214.3	14.4	7.8	-63.25	-657.5	-463.6	285.9	265.1	20.84	13.720	
3,400.0	3,326.5	3,324.3	3,312.9	14.9	8.1	-65.61	-665.1	-471.3	282.0	260.2	21.79	12.945	
3,500.0	3,423.9	3,423.5	3,411.5	15.4	8.4	-68.03	-672.7	-479.0	278.6	255.9	22.74	12.253	
3,600.0	3,521.2	3,522.8	3,510.2	15.9	8.7	-70.50	-680.3	-486.7	275.7	252.0	23.69	11.636	
3,700.0	3,618.5	3,622.0	3,608.8	16.4	9.0	-73.02	-687.9	-494.4	273.3	248.7	24.65	11.088	
3,800.0	3,715.9	3,721.2	3,707.4	16.9	9.3	-75.58	-695.5	-502.1	271.5	245.9	25.60	10.605	
3,900.0	3,813.2	3,820.5	3,806.1	17.4	9.6	-78.17	-703.1	-509.7	270.3	243.7	26.54	10.182	
4,000.0	3,910.5	3,919.7	3,904.7	17.9	9.9	-80.78	-710.7	-517.4	269.6	242.1	27.47	9.812	
4,073.1	3,981.7	3,992.2	3,976.8	18.2	10.1	-82.69	-716.3	-523.1	269.4	241.3	28.14	9.575	
4,100.0	4,007.9	4,018.9	4,003.4	18.4	10.2	-83.39	-718.3	-525.1	269.4	241.0	28.38	9.494	
4,200.0	4,105.2	4,118.1	4,102.0	18.9	10.5	-86.00	-725.9	-532.8	269.9	240.6	29.27	9.221	
4,300.0	4,202.5	4,217.4	4,200.6	19.4	10.8	-88.60	-733.5	-540.5	270.9	240.7	30.13	8.991	
4,400.0	4,299.9	4,316.6	4,299.3	19.9	11.1	-91.17	-741.1	-548.2	272.4	241.5	30.96	8.800	
4,500.0	4,397.2	4,415.8	4,397.9	20.4	11.4	-93.71	-748.7	-555.9	274.5	242.8	31.76	8.645	
4,600.0	4,494.6	4,515.1	4,496.6	20.9	11.7	-96.21	-756.3	-563.6	277.2	244.7	32.52	8.523	
4,700.0	4,591.9	4,614.3	4,595.2	21.4	12.0	-98.66	-763.9	-571.3	280.4	247.1	33.26	8.430	
4,800.0	4,689.2	4,713.5	4,693.8	21.9	12.3	-101.04	-771.5	-579.0	284.1	250.1	33.96	8.365	
4,900.0	4,786.6	4,811.7	4,791.6	22.4	12.5	-103.72	-777.7	-585.3	288.4	253.9	34.55	8.348	
5,000.0	4,883.9	4,908.9	4,888.7	22.9	12.7	-106.91	-781.5	-589.1	293.9	258.9	34.99	8.399	
5,100.0	4,981.2	5,004.9	4,984.6	23.4	12.9	-110.54	-783.0	-590.6	301.0	265.7	35.30	8.527	
5,200.0	5,078.6	5,101.9	5,081.6	23.9	13.1	-114.40	-783.1	-590.7	310.0	274.5	35.50	8.732	
5,300.0	5,175.9	5,199.2	5,178.9	24.4	13.2	-118.06	-783.1	-590.7	320.3	284.7	35.63	8.991	
5,400.0	5,273.2	5,296.5	5,276.2	24.9	13.4	-121.49	-783.1	-590.7	332.0	296.2	35.72	9.294	
5,500.0	5,370.6	5,393.9	5,373.6	25.4	13.5	-124.68	-783.1	-590.7	344.7	308.9	35.78	9.634	
5,600.0	5,467.9	5,491.2	5,470.9	25.9	13.7	-127.65	-783.1	-590.7	358.5	322.7	35.83	10.005	
5,700.0	5,565.3	5,588.5	5,568.3	26.4	13.9	-130.39	-783.1	-590.7	373.2	337.3	35.88	10.401	
5,800.0	5,662.6	5,685.9	5,665.6	26.9	14.0	-132.93	-783.1	-590.7	388.6	352.7	35.93	10.817	
5,900.0	5,759.9	5,783.2	5,762.9	27.4	14.2	-135.28	-783.1	-590.7	404.8	368.8	35.99	11.248	
6,000.0	5,857.3	5,880.5	5,860.3	27.9	14.4	-137.44	-783.1	-590.7	421.6	385.6	36.07	11.690	
6,100.0	5,954.6	5,977.9	5,957.6	28.4	14.5	-139.44	-783.1	-590.7	439.0	402.8	36.16	12.139	
6,200.0	6,051.9	6,075.2	6,054.9	28.9	14.7	-141.29	-783.1	-590.7	456.8	420.6	36.28	12.593	

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-14-23HC - 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	
6,300.0	6,149.3	6,172.5	6,152.3	29.4	14.9	-143.01	-783.1	-590.7	475.1	438.7	36.41	13.049	
6,400.0	6,246.6	6,269.9	6,249.6	29.9	15.1	-144.60	-783.1	-590.7	493.8	457.2	36.56	13.505	
6,500.0	6,344.4	6,367.6	6,347.4	30.3	15.2	-146.16	-783.1	-590.7	511.3	474.7	36.64	13.953	
6,600.0	6,442.8	6,466.0	6,445.8	30.6	15.4	-147.39	-783.1	-590.7	526.2	489.4	36.77	14.310	
6,700.0	6,541.7	6,565.0	6,544.7	30.8	15.6	-148.33	-783.1	-590.7	538.2	501.3	36.92	14.577	
6,800.0	6,641.2	6,664.4	6,644.2	31.0	15.8	-149.02	-783.1	-590.7	547.5	510.4	37.11	14.754	
6,900.0	6,740.9	6,764.2	6,743.9	31.2	16.0	-149.47	-783.1	-590.7	553.7	516.4	37.30	14.844	
7,000.0	6,840.8	6,864.1	6,843.8	31.3	16.2	-149.70	-783.1	-590.7	557.0	519.5	37.52	14.848	
7,100.0	6,940.8	6,964.1	6,943.8	31.4	16.3	83.93	-783.1	-590.7	557.6	513.2	44.31	12.584	
7,200.0	7,040.8	7,064.1	7,043.8	31.5	16.5	83.93	-783.1	-590.7	557.6	512.9	44.61	12.499	
7,300.0	7,140.5	7,163.8	7,143.5	31.5	16.7	-6.40	-783.1	-590.7	550.6	512.9	37.66	14.618	
7,400.0	7,238.2	7,261.5	7,241.2	31.4	16.9	-6.85	-783.1	-590.7	529.8	493.3	36.49	14.518	
7,500.0	7,332.0	7,360.5	7,340.1	31.2	17.1	-7.35	-786.2	-590.7	495.4	460.7	34.73	14.263	
7,600.0	7,420.1	7,453.9	7,432.2	30.9	17.4	-6.57	-801.0	-590.6	447.2	414.4	32.78	13.641	
7,700.0	7,500.8	7,534.9	7,510.1	30.6	17.6	-4.01	-823.4	-590.5	386.8	356.0	30.82	12.552	
7,800.0	7,572.5	7,602.1	7,572.3	30.3	17.9	1.28	-848.6	-590.5	316.8	287.5	29.27	10.824	
7,900.0	7,633.7	7,655.4	7,619.8	30.0	18.1	11.15	-872.7	-590.4	240.2	210.9	29.29	8.201	
8,000.0	7,683.3	7,695.7	7,654.6	29.7	18.3	27.63	-893.2	-590.3	162.3	129.5	32.73	4.958	
8,100.0	7,720.2	7,724.2	7,678.3	29.6	18.5	47.01	-908.8	-590.3	98.3	60.3	38.03	2.585	
8,148.1	7,733.3	7,733.9	7,686.4	29.5	18.5	53.90	-914.4	-590.2	87.3	47.6	39.73	2.198 CC, ES, SF	
8,200.0	7,743.9	7,741.7	7,692.7	29.5	18.6	58.00	-919.0	-590.2	100.3	59.7	40.58	2.470	
8,300.0	7,753.7	7,750.0	7,699.4	29.6	18.6	56.29	-923.8	-590.2	169.4	129.3	40.04	4.229	
8,400.0	7,753.7	7,750.0	7,699.4	29.9	18.6	53.97	-923.8	-590.2	257.4	217.4	40.02	6.432	
8,500.0	7,753.4	7,750.0	7,699.4	30.5	18.6	53.97	-923.8	-590.2	351.8	310.8	41.02	8.577	
8,600.0	7,753.0	7,750.0	7,699.4	31.4	18.6	53.97	-923.8	-590.2	448.7	406.5	42.18	10.637	
8,700.0	7,752.7	7,750.0	7,699.4	32.7	18.6	53.97	-923.8	-590.2	546.7	503.2	43.48	12.572	
8,800.0	7,752.4	7,750.0	7,699.4	34.1	18.6	53.97	-923.8	-590.2	645.3	600.4	44.91	14.369	
8,900.0	7,752.0	7,750.0	7,699.4	35.8	18.6	53.97	-923.8	-590.2	744.2	697.8	46.44	16.027	
9,000.0	7,751.7	7,750.0	7,699.4	37.7	18.6	53.97	-923.8	-590.2	843.5	795.4	48.06	17.552	
9,100.0	7,751.3	7,750.0	7,699.4	39.8	18.6	53.97	-923.8	-590.2	942.8	893.1	49.75	18.951	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-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	3.0	3.0	0.0	0.0	-148.43	-528.2	-324.6	620.0				
100.0	100.0	103.0	103.0	0.1	0.1	-148.43	-528.2	-324.6	620.0	619.7	0.23	2,677.869	
200.0	200.0	203.0	203.0	0.3	0.3	-148.43	-528.2	-324.6	620.0	619.3	0.68	910.299	
300.0	300.0	303.0	303.0	0.5	0.6	-22.18	-528.2	-324.6	618.3	617.2	1.12	552.704	
400.0	399.8	402.8	402.8	0.8	0.8	-22.40	-528.2	-324.6	613.5	611.9	1.56	393.624	
500.0	499.5	502.5	502.5	1.0	1.0	-22.78	-528.2	-324.6	605.4	603.4	2.01	301.008	
600.0	598.7	601.7	601.7	1.3	1.2	-23.32	-528.2	-324.6	594.2	591.7	2.47	240.109	
700.0	697.5	700.5	700.5	1.6	1.5	-24.05	-528.2	-324.6	579.9	576.9	2.95	196.539	
800.0	795.6	798.6	798.6	2.0	1.7	-24.99	-528.2	-324.6	562.4	559.0	3.44	163.414	
900.0	893.1	896.1	896.1	2.5	1.9	-26.09	-528.2	-324.6	542.3	538.3	3.95	137.191	
1,000.0	990.4	993.4	993.4	2.9	2.1	-27.19	-528.2	-324.6	521.7	517.2	4.48	116.442	
1,100.0	1,087.8	1,079.3	1,079.3	3.4	2.3	-28.16	-528.8	-325.5	502.3	497.3	4.98	100.940	
1,200.0	1,185.1	1,165.3	1,165.2	3.9	2.5	-29.03	-530.6	-328.7	485.5	480.1	5.47	88.767	
1,300.0	1,282.5	1,252.2	1,251.9	4.4	2.6	-29.77	-533.7	-334.2	471.3	465.3	5.98	78.861	
1,400.0	1,379.8	1,339.9	1,339.1	4.9	2.8	-30.36	-538.2	-342.0	459.6	453.1	6.50	70.734	
1,500.0	1,477.1	1,435.4	1,433.9	5.4	3.1	-30.85	-544.3	-352.6	449.9	442.8	7.05	63.769	
1,600.0	1,574.5	1,534.9	1,532.5	5.9	3.3	-31.38	-550.7	-363.7	440.3	432.7	7.64	57.641	
1,700.0	1,671.8	1,634.4	1,631.1	6.4	3.6	-31.92	-557.1	-374.8	430.8	422.6	8.24	52.295	
1,800.0	1,769.1	1,733.8	1,729.8	6.9	3.9	-32.49	-563.5	-385.9	421.3	412.5	8.85	47.605	
1,900.0	1,866.5	1,833.3	1,828.4	7.4	4.1	-33.09	-569.8	-397.0	411.9	402.4	9.48	43.469	
2,000.0	1,963.8	1,932.8	1,927.0	7.9	4.4	-33.71	-576.2	-408.2	402.5	392.4	10.11	39.801	
2,100.0	2,061.1	2,032.2	2,025.7	8.4	4.7	-34.37	-582.6	-419.3	393.2	382.4	10.76	36.528	
2,200.0	2,158.5	2,131.7	2,124.3	8.9	5.0	-35.05	-589.0	-430.4	383.9	372.5	11.43	33.596	
2,300.0	2,255.8	2,231.1	2,222.9	9.4	5.4	-35.77	-595.4	-441.5	374.7	362.6	12.10	30.958	
2,400.0	2,353.2	2,330.6	2,321.6	9.9	5.7	-36.52	-601.8	-452.6	365.6	352.8	12.79	28.574	
2,500.0	2,450.5	2,430.1	2,420.2	10.4	6.0	-37.32	-608.2	-463.8	356.5	343.0	13.50	26.412	
2,600.0	2,547.8	2,529.5	2,518.8	10.9	6.3	-38.15	-614.5	-474.9	347.5	333.2	14.21	24.445	
2,700.0	2,645.2	2,629.0	2,617.4	11.4	6.6	-39.03	-620.9	-486.0	338.5	323.6	14.95	22.649	
2,800.0	2,742.5	2,728.4	2,716.1	11.9	6.9	-39.96	-627.3	-497.1	329.7	314.0	15.69	21.005	
2,900.0	2,839.8	2,827.9	2,814.7	12.4	7.3	-40.94	-633.7	-508.3	320.9	304.4	16.46	19.496	
3,000.0	2,937.2	2,927.4	2,913.3	12.9	7.6	-41.97	-640.1	-519.4	312.2	295.0	17.24	18.109	
3,100.0	3,034.5	3,026.8	3,012.0	13.4	7.9	-43.06	-646.5	-530.5	303.7	285.6	18.04	16.831	
3,200.0	3,131.8	3,126.3	3,110.6	13.9	8.2	-44.21	-652.9	-541.6	295.2	276.3	18.86	15.651	
3,300.0	3,229.2	3,225.7	3,209.2	14.4	8.5	-45.43	-659.2	-552.7	286.9	267.2	19.70	14.561	
3,400.0	3,326.5	3,325.2	3,307.9	14.9	8.9	-46.72	-665.6	-563.9	278.7	258.1	20.56	13.553	
3,500.0	3,423.9	3,424.7	3,406.5	15.4	9.2	-48.09	-672.0	-575.0	270.7	249.2	21.45	12.619	
3,600.0	3,521.2	3,524.1	3,505.1	15.9	9.5	-49.54	-678.4	-586.1	262.8	240.4	22.36	11.755	
3,700.0	3,618.5	3,623.6	3,603.8	16.4	9.9	-51.08	-684.8	-597.2	255.1	231.8	23.29	10.955	
3,800.0	3,715.9	3,723.1	3,702.4	16.9	10.2	-52.71	-691.2	-608.3	247.6	223.4	24.24	10.214	
3,900.0	3,813.2	3,822.5	3,801.0	17.4	10.5	-54.45	-697.6	-619.5	240.3	215.1	25.22	9.529	
4,000.0	3,910.5	3,922.0	3,899.6	17.9	10.8	-56.28	-703.9	-630.6	233.3	207.1	26.22	8.896	
4,100.0	4,007.9	4,021.4	3,998.3	18.4	11.2	-58.23	-710.3	-641.7	226.5	199.2	27.25	8.312	
4,200.0	4,105.2	4,120.9	4,096.9	18.9	11.5	-60.30	-716.7	-652.8	220.0	191.7	28.30	7.774	
4,300.0	4,202.5	4,220.4	4,195.5	19.4	11.8	-62.49	-723.1	-663.9	213.8	184.4	29.36	7.281	
4,400.0	4,299.9	4,319.8	4,294.2	19.9	12.2	-64.81	-729.5	-675.1	207.9	177.4	30.44	6.830	
4,500.0	4,397.2	4,419.3	4,392.8	20.4	12.5	-67.26	-735.9	-686.2	202.4	170.8	31.52	6.420	
4,600.0	4,494.6	4,518.7	4,491.4	20.9	12.8	-69.83	-742.3	-697.3	197.2	164.6	32.61	6.048	
4,700.0	4,591.9	4,618.2	4,590.1	21.4	13.1	-72.54	-748.6	-708.4	192.5	158.8	33.69	5.714	
4,800.0	4,689.2	4,717.7	4,688.7	21.9	13.5	-75.38	-755.0	-719.5	188.3	153.5	34.76	5.416	
4,900.0	4,786.6	4,817.1	4,787.3	22.4	13.8	-78.33	-761.4	-730.7	184.5	148.7	35.81	5.153	
5,000.0	4,883.9	4,916.6	4,886.0	22.9	14.1	-81.40	-767.8	-741.8	181.3	144.5	36.81	4.924	
5,100.0	4,981.2	5,016.0	4,984.6	23.4	14.4	-84.74	-773.9	-752.5	178.6	140.8	37.74	4.732	

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey I-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
5,200.0	5,078.6	5,114.7	5,082.9	23.9	14.6	-89.12	-778.5	-760.4	176.8	138.2	38.52	4.588	
5,256.7	5,133.7	5,170.1	5,138.2	24.2	14.8	-92.09	-780.3	-763.6	176.4	137.5	38.89	4.537 CC	
5,300.0	5,175.9	5,212.3	5,180.3	24.4	14.8	-94.57	-781.4	-765.4	176.7	137.5	39.12	4.516 ES	
5,400.0	5,273.2	5,308.7	5,276.7	24.9	15.0	-100.90	-782.6	-767.5	179.2	139.8	39.42	4.546	
5,500.0	5,370.6	5,405.6	5,373.6	25.4	15.1	-107.66	-782.6	-767.6	185.0	145.6	39.40	4.695	
5,600.0	5,467.9	5,503.0	5,470.9	25.9	15.3	-114.00	-782.6	-767.6	193.3	154.2	39.14	4.939	
5,700.0	5,565.3	5,600.3	5,568.3	26.4	15.4	-119.78	-782.6	-767.6	203.9	165.2	38.75	5.263	
5,800.0	5,662.6	5,697.6	5,665.6	26.9	15.6	-124.96	-782.6	-767.6	216.5	178.2	38.31	5.651	
5,900.0	5,759.9	5,795.0	5,762.9	27.4	15.7	-129.56	-782.6	-767.6	230.6	192.7	37.87	6.089	
6,000.0	5,857.3	5,892.3	5,860.3	27.9	15.9	-133.62	-782.6	-767.6	246.0	208.6	37.47	6.566	
6,100.0	5,954.6	5,989.6	5,957.6	28.4	16.1	-137.20	-782.6	-767.6	262.6	225.5	37.14	7.070	
6,200.0	6,051.9	6,087.0	6,054.9	28.9	16.2	-140.36	-782.6	-767.6	280.1	243.2	36.88	7.593	
6,300.0	6,149.3	6,184.3	6,152.3	29.4	16.4	-143.14	-782.6	-767.6	298.2	261.5	36.70	8.126	
6,400.0	6,246.6	6,281.6	6,249.6	29.9	16.5	-145.61	-782.6	-767.6	317.1	280.5	36.59	8.665	
6,500.0	6,344.4	6,379.4	6,347.4	30.3	16.7	-147.83	-782.6	-767.6	334.8	298.4	36.46	9.183	
6,600.0	6,442.8	6,477.8	6,445.8	30.6	16.9	-149.52	-782.6	-767.6	350.0	313.5	36.44	9.605	
6,700.0	6,541.7	6,576.8	6,544.7	30.8	17.0	-150.78	-782.6	-767.6	362.4	325.9	36.49	9.930	
6,800.0	6,641.2	6,676.2	6,644.2	31.0	17.2	-151.68	-782.6	-767.6	371.8	335.2	36.60	10.158	
6,900.0	6,740.9	6,775.9	6,743.9	31.2	17.4	-152.27	-782.6	-767.6	378.3	341.5	36.75	10.292	
7,000.0	6,840.8	6,875.8	6,843.8	31.3	17.5	-152.57	-782.6	-767.6	381.6	344.7	36.93	10.333	
7,100.0	6,940.8	6,975.8	6,943.8	31.4	17.7	81.06	-782.6	-767.6	382.2	335.8	46.42	8.234	
7,200.0	7,040.8	7,076.1	7,044.1	31.5	17.9	81.06	-782.6	-767.6	382.2	335.5	46.70	8.185	
7,300.0	7,140.5	7,183.6	7,151.1	31.5	18.1	-8.11	-791.1	-767.5	374.1	336.7	37.36	10.013	
7,400.0	7,238.2	7,284.5	7,249.4	31.4	18.4	-5.08	-813.6	-767.4	351.0	313.9	37.15	9.449	
7,500.0	7,332.0	7,374.0	7,333.2	31.2	18.7	0.33	-844.9	-767.3	315.6	278.5	37.05	8.517	
7,600.0	7,420.1	7,450.0	7,400.8	30.9	19.0	8.62	-879.6	-767.1	272.1	234.7	37.40	7.276	
7,700.0	7,500.8	7,512.4	7,453.3	30.6	19.3	19.93	-913.3	-767.0	227.1	188.6	38.50	5.898	
7,800.0	7,572.5	7,562.3	7,493.1	30.3	19.6	32.83	-943.4	-766.8	191.3	151.2	40.10	4.770	
7,882.0	7,623.5	7,594.8	7,517.8	30.0	19.8	42.33	-964.5	-766.7	180.0	138.8	41.14	4.374 SF	
7,900.0	7,633.7	7,600.0	7,521.7	30.0	19.8	43.80	-967.9	-766.7	180.6	139.4	41.20	4.383	
8,000.0	7,683.3	7,629.9	7,543.4	29.7	20.0	50.92	-988.5	-766.6	205.2	163.7	41.51	4.943	
8,100.0	7,720.2	7,650.0	7,557.5	29.6	20.1	52.55	-1,002.8	-766.6	258.2	217.5	40.79	6.331	
8,200.0	7,743.9	7,662.9	7,566.3	29.5	20.2	49.95	-1,012.1	-766.5	327.2	288.1	39.18	8.351	
8,300.0	7,753.7	7,668.2	7,570.0	29.6	20.2	44.20	-1,016.1	-766.5	404.0	367.3	36.68	11.016	
8,400.0	7,753.7	7,668.7	7,570.3	29.9	20.2	42.66	-1,016.4	-766.5	485.8	449.2	36.62	13.265	
8,500.0	7,753.4	7,668.9	7,570.4	30.5	20.2	42.71	-1,016.6	-766.5	573.3	535.7	37.53	15.273	
8,600.0	7,753.0	7,669.2	7,570.6	31.4	20.2	42.77	-1,016.8	-766.5	664.3	625.7	38.58	17.219	
8,700.0	7,752.7	7,669.4	7,570.8	32.7	20.2	42.83	-1,017.0	-766.5	757.6	717.8	39.74	19.064	
8,800.0	7,752.4	7,669.7	7,571.0	34.1	20.2	42.89	-1,017.2	-766.5	852.4	811.4	41.00	20.790	
8,900.0	7,752.0	7,669.9	7,571.1	35.8	20.3	42.94	-1,017.4	-766.5	948.3	905.9	42.35	22.392	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-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	3.0	3.0	0.0	0.0	-147.98	-500.5	-313.1	590.4				
100.0	100.0	103.0	103.0	0.1	0.1	-147.98	-500.5	-313.1	590.4	590.1	0.23	2,550.074	
200.0	200.0	203.0	203.0	0.3	0.3	-147.98	-500.5	-313.1	590.4	589.7	0.68	866.857	
300.0	300.0	303.0	303.0	0.5	0.6	-21.72	-500.5	-313.1	588.7	587.6	1.12	526.238	
400.0	399.8	402.8	402.8	0.8	0.8	-21.95	-500.5	-313.1	583.9	582.3	1.56	374.620	
500.0	499.5	502.5	502.5	1.0	1.0	-22.33	-500.5	-313.1	575.8	573.8	2.01	286.289	
600.0	598.7	601.7	601.7	1.3	1.2	-22.89	-500.5	-313.1	564.5	562.1	2.47	228.158	
700.0	697.5	700.5	700.5	1.6	1.5	-23.64	-500.5	-313.1	550.1	547.2	2.95	186.528	
800.0	795.6	798.6	798.6	2.0	1.7	-24.61	-500.5	-313.1	532.7	529.2	3.44	154.843	
900.0	893.1	896.1	896.1	2.5	1.9	-25.75	-500.5	-313.1	512.4	508.5	3.95	129.730	
1,000.0	990.4	993.4	993.4	2.9	2.1	-26.90	-500.5	-313.1	491.8	487.3	4.48	109.852	
1,100.0	1,087.8	1,090.8	1,090.8	3.4	2.3	-28.16	-500.5	-313.1	471.3	466.3	5.02	93.890	
1,200.0	1,185.1	1,188.1	1,188.1	3.9	2.6	-29.52	-500.5	-313.1	451.1	445.6	5.58	80.849	
1,300.0	1,282.5	1,285.5	1,285.5	4.4	2.8	-31.01	-500.5	-313.1	431.2	425.0	6.16	70.034	
1,400.0	1,379.8	1,382.8	1,382.8	4.9	3.0	-32.65	-500.5	-313.1	411.6	404.8	6.75	60.948	
1,500.0	1,477.1	1,480.1	1,480.1	5.4	3.2	-34.44	-500.5	-313.1	392.3	384.9	7.37	53.235	
1,600.0	1,574.5	1,577.5	1,577.5	5.9	3.4	-36.41	-500.5	-313.1	373.5	365.4	8.01	46.629	
1,700.0	1,671.8	1,674.8	1,674.8	6.4	3.7	-38.58	-500.5	-313.1	355.1	346.4	8.67	40.932	
1,800.0	1,769.1	1,772.1	1,772.1	6.9	3.9	-40.99	-500.5	-313.1	337.3	327.9	9.37	35.995	
1,900.0	1,866.5	1,862.6	1,862.6	7.4	4.1	-43.42	-501.2	-313.3	320.8	310.8	10.05	31.917	
2,000.0	1,963.8	1,951.1	1,951.0	7.9	4.2	-45.92	-504.2	-314.5	308.0	297.2	10.73	28.698	
2,100.0	2,061.1	2,040.4	2,040.1	8.4	4.4	-48.48	-509.9	-316.8	298.8	287.4	11.43	26.148	
2,200.0	2,158.5	2,133.4	2,132.7	8.9	4.6	-51.12	-518.3	-320.1	293.2	281.0	12.16	24.114	
2,300.0	2,255.8	2,232.3	2,231.0	9.4	4.7	-53.97	-527.9	-323.9	288.8	275.9	12.93	22.334	
2,400.0	2,353.2	2,331.1	2,329.3	9.9	4.9	-56.90	-537.4	-327.7	285.3	271.5	13.73	20.776	
2,500.0	2,450.5	2,429.9	2,427.6	10.4	5.2	-59.89	-547.0	-331.5	282.5	267.9	14.55	19.417	
2,600.0	2,547.8	2,528.8	2,525.9	10.9	5.4	-62.93	-556.6	-335.3	280.5	265.1	15.38	18.236	
2,700.0	2,645.2	2,627.6	2,624.2	11.4	5.6	-66.01	-566.1	-339.1	279.3	263.1	16.23	17.216	
2,790.3	2,733.0	2,716.8	2,712.9	11.8	5.8	-68.80	-574.7	-342.5	279.0	262.0	16.99	16.418	
2,800.0	2,742.5	2,726.4	2,722.5	11.9	5.9	-69.10	-575.7	-342.9	279.0	261.9	17.08	16.338	
2,900.0	2,839.8	2,825.2	2,820.8	12.4	6.1	-72.19	-585.2	-346.7	279.5	261.6	17.93	15.589	
3,000.0	2,937.2	2,924.1	2,919.1	12.9	6.3	-75.27	-594.8	-350.5	280.8	262.0	18.78	14.953	
3,100.0	3,034.5	3,022.9	3,017.3	13.4	6.6	-78.30	-604.3	-354.3	283.0	263.3	19.62	14.419	
3,200.0	3,131.8	3,121.7	3,115.6	13.9	6.8	-81.28	-613.9	-358.1	285.9	265.4	20.46	13.975	
3,300.0	3,229.2	3,220.6	3,213.9	14.4	7.1	-84.20	-623.4	-361.9	289.6	268.3	21.28	13.610	
3,400.0	3,326.5	3,319.4	3,312.2	14.9	7.4	-87.03	-633.0	-365.7	294.1	272.0	22.09	13.315	
3,500.0	3,423.9	3,418.2	3,410.5	15.4	7.6	-89.78	-642.5	-369.5	299.2	276.4	22.88	13.082	
3,600.0	3,521.2	3,517.1	3,508.8	15.9	7.9	-92.43	-652.1	-373.3	305.1	281.4	23.65	12.902	
3,700.0	3,618.5	3,615.9	3,607.1	16.4	8.2	-94.97	-661.7	-377.1	311.6	287.2	24.40	12.770	
3,800.0	3,715.9	3,714.7	3,705.4	16.9	8.4	-97.41	-671.2	-380.9	318.7	293.5	25.13	12.678	
3,900.0	3,813.2	3,813.5	3,803.7	17.4	8.7	-99.74	-680.8	-384.6	326.3	300.4	25.85	12.622	
4,000.0	3,910.5	3,912.4	3,902.0	17.9	9.0	-101.97	-690.3	-388.4	334.5	307.9	26.55	12.596	
4,100.0	4,007.9	4,011.2	4,000.3	18.4	9.3	-104.08	-699.9	-392.2	343.1	315.9	27.24	12.597	
4,200.0	4,105.2	4,110.0	4,098.6	18.9	9.5	-106.09	-709.4	-396.0	352.2	324.3	27.91	12.621	
4,300.0	4,202.5	4,208.9	4,196.9	19.4	9.8	-108.00	-719.0	-399.8	361.7	333.2	28.56	12.663	
4,400.0	4,299.9	4,307.7	4,295.2	19.9	10.1	-109.81	-728.5	-403.6	371.6	342.4	29.21	12.723	
4,500.0	4,397.2	4,406.5	4,393.5	20.4	10.4	-111.53	-738.1	-407.4	381.9	352.0	29.84	12.796	
4,600.0	4,494.6	4,505.4	4,491.8	20.9	10.7	-113.15	-747.6	-411.2	392.4	362.0	30.47	12.881	
4,700.0	4,591.9	4,604.2	4,590.1	21.4	10.9	-114.69	-757.2	-415.0	403.3	372.2	31.08	12.975	
4,800.0	4,689.2	4,703.0	4,688.4	21.9	11.2	-116.15	-766.8	-418.8	414.4	382.7	31.69	13.078	
4,900.0	4,786.6	4,802.7	4,787.6	22.4	11.5	-117.72	-775.2	-422.2	425.8	393.5	32.24	13.205	
5,000.0	4,883.9	4,901.6	4,886.4	22.9	11.7	-119.64	-780.4	-424.2	437.3	404.6	32.68	13.379	

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey J-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							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	4,981.2	4,999.5	4,984.3	23.4	11.9	-121.87	-782.5	-425.0	449.2	416.2	33.03	13.599		
5,200.0	5,078.6	5,096.9	5,081.6	23.9	12.1	-124.23	-782.5	-425.1	462.0	428.7	33.33	13.863		
5,300.0	5,175.9	5,194.2	5,178.9	24.4	12.2	-126.48	-782.5	-425.1	475.5	441.9	33.59	14.154		
5,400.0	5,273.2	5,291.5	5,276.2	24.9	12.4	-128.60	-782.5	-425.1	489.7	455.8	33.85	14.465		
5,500.0	5,370.6	5,388.9	5,373.6	25.4	12.6	-130.61	-782.5	-425.1	504.6	470.4	34.10	14.794		
5,600.0	5,467.9	5,486.2	5,470.9	25.9	12.8	-132.50	-782.5	-425.1	520.0	485.6	34.35	15.137		
5,700.0	5,565.3	5,583.5	5,568.3	26.4	12.9	-134.28	-782.5	-425.1	536.0	501.4	34.60	15.491		
5,800.0	5,662.6	5,680.9	5,665.6	26.9	13.1	-135.96	-782.5	-425.1	552.4	517.6	34.85	15.853		
5,900.0	5,759.9	5,778.2	5,762.9	27.4	13.3	-137.55	-782.5	-425.1	569.3	534.2	35.10	16.222		
6,000.0	5,857.3	5,875.5	5,860.3	27.9	13.5	-139.04	-782.5	-425.1	586.7	551.3	35.35	16.595		
6,100.0	5,954.6	5,972.9	5,957.6	28.4	13.7	-140.45	-782.5	-425.1	604.4	568.7	35.61	16.970		
6,200.0	6,051.9	6,070.2	6,054.9	28.9	13.8	-141.78	-782.5	-425.1	622.4	586.5	35.88	17.347		
6,300.0	6,149.3	6,167.6	6,152.3	29.4	14.0	-143.04	-782.5	-425.1	640.7	604.6	36.15	17.724		
6,400.0	6,246.6	6,264.9	6,249.6	29.9	14.2	-144.23	-782.5	-425.1	659.4	622.9	36.43	18.100		
6,500.0	6,344.4	6,362.6	6,347.4	30.3	14.4	-145.47	-782.5	-425.1	676.8	640.1	36.63	18.478		
6,600.0	6,442.8	6,461.1	6,445.8	30.6	14.6	-146.46	-782.5	-425.1	691.5	654.6	36.84	18.770		
6,700.0	6,541.7	6,560.0	6,544.7	30.8	14.8	-147.23	-782.5	-425.1	703.4	666.4	37.06	18.978		
6,800.0	6,641.2	6,659.4	6,644.2	31.0	15.0	-147.80	-782.5	-425.1	712.5	675.2	37.30	19.104		
6,900.0	6,740.9	6,759.2	6,743.9	31.2	15.2	-148.17	-782.5	-425.1	718.7	681.2	37.53	19.149		
7,000.0	6,840.8	6,859.1	6,843.8	31.3	15.4	-148.36	-782.5	-425.1	722.0	684.2	37.77	19.115		
7,100.0	6,940.8	6,959.1	6,943.8	31.4	15.6	85.28	-782.5	-425.1	722.5	679.4	43.12	16.755		
7,200.0	7,040.8	7,059.3	7,044.0	31.5	15.8	85.28	-782.5	-425.1	722.5	679.1	43.43	16.635		
7,300.0	7,140.5	7,166.8	7,151.1	31.5	16.0	-4.33	-791.0	-425.0	714.9	676.7	38.22	18.706		
7,400.0	7,238.2	7,267.7	7,249.4	31.4	16.3	-2.68	-813.4	-425.0	692.8	655.1	37.74	18.357		
7,500.0	7,332.0	7,357.2	7,333.1	31.2	16.7	0.03	-844.7	-424.9	658.0	621.0	36.94	17.809		
7,600.0	7,420.1	7,433.2	7,400.7	30.9	17.1	3.78	-879.3	-424.8	612.5	576.6	35.86	17.079		
7,700.0	7,500.8	7,495.5	7,453.2	30.6	17.5	8.58	-913.0	-424.7	558.8	524.2	34.62	16.144		
7,800.0	7,572.5	7,545.3	7,492.9	30.3	17.8	14.43	-943.0	-424.6	499.7	466.2	33.46	14.932		
7,900.0	7,633.7	7,583.9	7,522.2	30.0	18.1	21.16	-968.2	-424.6	437.8	405.0	32.73	13.374		
8,000.0	7,683.3	7,612.8	7,543.2	29.7	18.3	28.30	-988.0	-424.5	376.6	343.9	32.68	11.524		
8,100.0	7,720.2	7,633.0	7,557.4	29.6	18.5	34.92	-1,002.4	-424.5	320.8	287.6	33.24	9.650		
8,200.0	7,743.9	7,650.0	7,569.0	29.5	18.6	40.89	-1,014.8	-424.5	277.4	243.0	34.43	8.057		
8,300.0	7,753.7	7,650.0	7,569.0	29.6	18.6	42.12	-1,014.8	-424.5	255.0	220.5	34.58	7.375		
8,324.3	7,754.3	7,650.0	7,569.0	29.7	18.6	42.13	-1,014.8	-424.5	254.0	219.2	34.73	7.313 CC, ES, SF		
8,400.0	7,753.7	7,650.0	7,569.0	29.9	18.6	42.19	-1,014.8	-424.5	263.5	228.3	35.21	7.482		
8,500.0	7,753.4	7,650.0	7,569.0	30.5	18.6	42.19	-1,014.8	-424.5	306.0	269.9	36.10	8.477		
8,600.0	7,753.0	7,650.0	7,569.0	31.4	18.6	42.19	-1,014.8	-424.5	371.3	334.2	37.11	10.006		
8,700.0	7,752.7	7,650.0	7,569.0	32.7	18.6	42.19	-1,014.8	-424.5	449.6	411.3	38.23	11.759		
8,800.0	7,752.4	7,650.0	7,569.0	34.1	18.6	42.19	-1,014.8	-424.5	535.1	495.7	39.45	13.564		
8,900.0	7,752.0	7,650.0	7,569.0	35.8	18.6	42.19	-1,014.8	-424.5	625.0	584.2	40.76	15.334		
9,000.0	7,751.7	7,650.0	7,569.0	37.7	18.6	42.19	-1,014.8	-424.5	717.5	675.4	42.14	17.028		
9,100.0	7,751.3	7,650.0	7,569.0	39.8	18.6	42.19	-1,014.8	-424.5	811.8	768.2	43.58	18.629		
9,200.0	7,751.0	7,650.0	7,569.0	41.9	18.6	42.19	-1,014.8	-424.5	907.3	862.3	45.07	20.130		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey K-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							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	3.0	3.0	0.0	0.0	-147.74	-486.7	-307.2	575.5					
100.0	100.0	103.0	103.0	0.1	0.1	-147.74	-486.7	-307.2	575.5	575.3	0.23	2,485.918		
200.0	200.0	203.0	203.0	0.3	0.3	-147.74	-486.7	-307.2	575.5	574.8	0.68	845.048		
300.0	300.0	303.0	303.0	0.5	0.6	-21.49	-486.7	-307.2	573.9	572.8	1.12	512.953		
400.0	399.8	402.8	402.8	0.8	0.8	-21.72	-486.7	-307.2	569.0	567.5	1.56	365.080		
500.0	499.5	502.5	502.5	1.0	1.0	-22.11	-486.7	-307.2	560.9	558.9	2.01	278.899		
600.0	598.7	601.7	601.7	1.3	1.2	-22.67	-486.7	-307.2	549.7	547.2	2.47	222.156		
700.0	697.5	700.5	700.5	1.6	1.5	-23.43	-486.7	-307.2	535.2	532.3	2.95	181.499		
800.0	795.6	798.6	798.6	2.0	1.7	-24.42	-486.7	-307.2	517.7	514.3	3.44	150.537		
900.0	893.1	896.1	896.1	2.5	1.9	-25.58	-486.7	-307.2	497.5	493.5	3.95	125.981		
1,000.0	990.4	993.4	993.4	2.9	2.1	-26.77	-486.7	-307.2	476.8	472.3	4.48	106.540		
1,100.0	1,087.8	1,090.8	1,090.8	3.4	2.3	-28.05	-486.7	-307.2	456.3	451.3	5.02	90.927		
1,200.0	1,185.1	1,188.1	1,188.1	3.9	2.6	-29.46	-486.7	-307.2	436.1	430.5	5.58	78.172		
1,300.0	1,282.5	1,285.5	1,285.5	4.4	2.8	-31.00	-486.7	-307.2	416.2	410.0	6.16	67.593		
1,400.0	1,379.8	1,382.8	1,382.8	4.9	3.0	-32.70	-486.7	-307.2	396.5	389.8	6.75	58.709		
1,500.0	1,477.1	1,480.1	1,480.1	5.4	3.2	-34.56	-486.7	-307.2	377.3	369.9	7.37	51.169		
1,600.0	1,574.5	1,577.5	1,577.5	5.9	3.4	-36.62	-486.7	-307.2	358.5	350.5	8.02	44.714		
1,700.0	1,671.8	1,674.8	1,674.8	6.4	3.7	-38.90	-486.7	-307.2	340.2	331.5	8.69	39.153		
1,800.0	1,769.1	1,772.1	1,772.1	6.9	3.9	-41.43	-486.7	-307.2	322.4	313.1	9.39	34.340		
1,900.0	1,866.5	1,869.5	1,869.5	7.4	4.1	-44.24	-486.7	-307.2	305.4	295.3	10.13	30.163		
2,000.0	1,963.8	1,966.8	1,966.8	7.9	4.3	-47.37	-486.7	-307.2	289.2	278.3	10.90	26.537		
2,100.0	2,061.1	2,059.7	2,059.7	8.4	4.5	-50.76	-487.2	-306.8	274.5	262.8	11.68	23.502		
2,200.0	2,158.5	2,150.2	2,150.1	8.9	4.7	-54.72	-489.9	-304.9	263.3	250.8	12.48	21.094		
2,300.0	2,255.8	2,240.4	2,240.1	9.4	4.8	-59.27	-494.9	-301.3	256.4	243.1	13.32	19.246		
2,389.6	2,343.1	2,320.9	2,320.2	9.8	5.0	-63.71	-501.3	-296.7	254.4	240.3	14.10	18.036		
2,400.0	2,353.2	2,330.2	2,329.5	9.9	5.0	-64.24	-502.1	-296.1	254.4	240.2	14.20	17.922		
2,500.0	2,450.5	2,421.0	2,419.5	10.4	5.2	-69.50	-511.7	-289.3	257.6	242.5	15.07	17.086		
2,600.0	2,547.8	2,517.5	2,515.0	10.9	5.4	-74.96	-522.7	-281.5	264.2	248.2	15.95	16.563		
2,700.0	2,645.2	2,613.9	2,610.5	11.4	5.6	-80.12	-533.6	-273.7	273.2	256.4	16.78	16.283		
2,800.0	2,742.5	2,710.3	2,706.0	11.9	5.9	-84.93	-544.5	-265.9	284.4	266.8	17.55	16.200		
2,900.0	2,839.8	2,806.8	2,801.5	12.4	6.1	-89.37	-555.4	-258.1	297.5	279.2	18.28	16.272		
3,000.0	2,937.2	2,903.2	2,897.0	12.9	6.4	-93.44	-566.3	-250.3	312.3	293.3	18.97	16.462		
3,100.0	3,034.5	2,999.6	2,992.5	13.4	6.6	-97.13	-577.2	-242.6	328.6	309.0	19.63	16.743		
3,200.0	3,131.8	3,096.1	3,088.0	13.9	6.9	-100.48	-588.1	-234.8	346.1	325.9	20.25	17.089		
3,300.0	3,229.2	3,192.5	3,183.5	14.4	7.2	-103.51	-599.0	-227.0	364.8	343.9	20.86	17.483		
3,400.0	3,326.5	3,288.9	3,279.0	14.9	7.4	-106.24	-609.9	-219.2	384.3	362.8	21.46	17.908		
3,500.0	3,423.9	3,385.4	3,374.5	15.4	7.7	-108.72	-620.8	-211.4	404.6	382.6	22.05	18.353		
3,600.0	3,521.2	3,481.8	3,470.0	15.9	8.0	-110.96	-631.8	-203.6	425.6	403.0	22.63	18.810		
3,700.0	3,618.5	3,578.3	3,565.5	16.4	8.3	-112.99	-642.7	-195.8	447.2	424.0	23.21	19.271		
3,800.0	3,715.9	3,674.7	3,661.0	16.9	8.6	-114.84	-653.6	-188.0	469.3	445.5	23.78	19.731		
3,900.0	3,813.2	3,771.1	3,756.5	17.4	8.9	-116.52	-664.5	-180.3	491.8	467.5	24.36	20.187		
4,000.0	3,910.5	3,867.6	3,852.0	17.9	9.2	-118.06	-675.4	-172.5	514.7	489.8	24.94	20.635		
4,100.0	4,007.9	3,964.0	3,947.5	18.4	9.5	-119.47	-686.3	-164.7	537.9	512.4	25.53	21.074		
4,200.0	4,105.2	4,060.4	4,043.0	18.9	9.8	-120.76	-697.2	-156.9	561.4	535.3	26.11	21.502		
4,300.0	4,202.5	4,156.9	4,138.5	19.4	10.1	-121.95	-708.1	-149.1	585.2	558.5	26.70	21.918		
4,400.0	4,299.9	4,253.3	4,234.0	19.9	10.4	-123.05	-719.0	-141.3	609.2	581.9	27.29	22.322		
4,500.0	4,397.2	4,349.7	4,329.5	20.4	10.8	-124.07	-729.9	-133.5	633.3	605.5	27.88	22.713		
4,600.0	4,494.6	4,446.2	4,425.0	20.9	11.1	-125.01	-740.9	-125.7	657.7	629.2	28.48	23.091		
4,700.0	4,591.9	4,542.6	4,520.5	21.4	11.4	-125.88	-751.8	-118.0	682.2	653.1	29.08	23.457		
4,800.0	4,689.2	4,642.5	4,619.4	21.9	11.7	-126.73	-763.0	-109.9	706.8	677.1	29.69	23.808		
4,900.0	4,786.6	4,762.4	4,738.6	22.4	12.0	-127.83	-773.9	-102.1	729.6	699.3	30.27	24.101		
5,000.0	4,883.9	4,883.2	4,859.1	22.9	12.3	-129.12	-780.9	-97.2	749.4	718.6	30.80	24.333		

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey K-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
5,100.0	4,981.2	5,004.5	4,980.3	23.4	12.5	-130.58	-783.6	-95.2	766.5	735.2	31.27	24.510	
5,200.0	5,078.6	5,105.8	5,081.6	23.9	12.7	-131.89	-783.7	-95.2	781.8	750.1	31.71	24.659	
5,300.0	5,175.9	5,203.1	5,178.9	24.4	12.9	-133.10	-783.7	-95.2	797.6	765.4	32.13	24.819	
5,400.0	5,273.2	5,300.4	5,276.2	24.9	13.0	-134.26	-783.7	-95.2	813.6	781.1	32.56	24.989	
5,500.0	5,370.6	5,397.8	5,373.6	25.4	13.2	-135.38	-783.7	-95.2	830.0	797.0	32.98	25.168	
5,600.0	5,467.9	5,495.1	5,470.9	25.9	13.4	-136.45	-783.7	-95.2	846.7	813.3	33.39	25.354	
5,700.0	5,565.3	5,592.4	5,568.3	26.4	13.6	-137.49	-783.7	-95.2	863.6	829.8	33.81	25.546	
5,800.0	5,662.6	5,689.8	5,665.6	26.9	13.7	-138.49	-783.7	-95.2	880.9	846.7	34.22	25.743	
5,900.0	5,759.9	5,787.1	5,762.9	27.4	13.9	-139.44	-783.7	-95.2	898.4	863.8	34.63	25.944	
6,000.0	5,857.3	5,884.4	5,860.3	27.9	14.1	-140.37	-783.7	-95.2	916.1	881.1	35.03	26.149	
6,100.0	5,954.6	5,981.8	5,957.6	28.4	14.3	-141.25	-783.7	-95.2	934.1	898.6	35.44	26.356	
6,200.0	6,051.9	6,079.1	6,054.9	28.9	14.4	-142.11	-783.7	-95.2	952.2	916.4	35.85	26.565	
6,300.0	6,149.3	6,176.5	6,152.3	29.4	14.6	-142.93	-783.7	-95.2	970.6	934.4	36.25	26.775	
6,400.0	6,246.6	6,273.8	6,249.6	29.9	14.8	-143.73	-783.7	-95.2	989.2	952.5	36.66	26.986	
7,500.0	7,332.0	7,369.7	7,342.4	31.2	17.1	-1.94	-815.0	-95.1	988.2	951.4	36.77	26.871	
7,600.0	7,420.1	7,453.7	7,421.1	30.9	17.4	-0.09	-844.3	-95.0	940.8	905.6	35.15	26.764	
7,700.0	7,500.8	7,523.8	7,483.7	30.6	17.8	2.51	-875.6	-94.9	882.7	849.5	33.20	26.586	
7,800.0	7,572.5	7,580.3	7,531.9	30.3	18.1	5.94	-905.2	-94.8	815.9	784.8	31.12	26.220	
7,900.0	7,633.7	7,624.4	7,567.7	30.0	18.4	10.41	-931.0	-94.7	741.9	712.6	29.26	25.353	
8,000.0	7,683.3	7,657.5	7,593.5	29.7	18.6	16.23	-951.7	-94.7	662.3	634.1	28.24	23.449	
8,100.0	7,720.2	7,680.7	7,611.0	29.6	18.8	23.78	-966.9	-94.6	578.5	549.7	28.83	20.070	
8,200.0	7,743.9	7,700.0	7,625.2	29.5	18.9	34.34	-980.0	-94.6	492.0	460.1	31.93	15.409	
8,300.0	7,753.7	7,700.0	7,625.2	29.6	18.9	43.49	-980.0	-94.6	404.4	369.0	35.40	11.423	
8,400.0	7,753.7	7,700.0	7,625.2	29.9	18.9	45.82	-980.0	-94.6	319.3	282.3	36.95	8.641	
8,500.0	7,753.4	7,700.0	7,625.2	30.5	18.9	45.82	-980.0	-94.6	245.5	207.6	37.87	6.482	
8,600.0	7,753.0	7,700.0	7,625.2	31.4	18.9	45.82	-980.0	-94.6	196.4	157.5	38.93	5.045	
8,658.4	7,752.8	7,700.0	7,625.2	32.1	18.9	45.82	-980.0	-94.6	187.5	147.9	39.62	4.733 CC, ES, SF	
8,700.0	7,752.7	7,700.0	7,625.2	32.7	18.9	45.82	-980.0	-94.6	192.1	152.0	40.12	4.788	
8,800.0	7,752.4	7,700.0	7,625.2	34.1	18.9	45.82	-980.0	-94.6	235.0	193.6	41.40	5.675	
8,900.0	7,752.0	7,700.0	7,625.2	35.8	18.9	45.82	-980.0	-94.6	305.8	263.1	42.78	7.149	
9,000.0	7,751.7	7,700.0	7,625.2	37.7	18.9	45.82	-980.0	-94.6	389.7	345.4	44.24	8.808	
9,100.0	7,751.3	7,700.0	7,625.2	39.8	18.9	45.82	-980.0	-94.6	479.8	434.0	45.77	10.483	
9,200.0	7,751.0	7,700.0	7,625.2	41.9	18.9	45.82	-980.0	-94.6	573.1	525.8	47.35	12.104	
9,300.0	7,750.6	7,700.0	7,625.2	44.1	18.9	45.82	-980.0	-94.6	668.4	619.5	48.99	13.645	
9,400.0	7,750.3	7,700.0	7,625.2	46.4	18.9	45.82	-980.0	-94.6	764.9	714.3	50.67	15.098	
9,500.0	7,749.9	7,700.0	7,625.2	48.7	18.9	45.82	-980.0	-94.6	862.2	809.9	52.38	16.460	
9,600.0	7,749.6	7,700.0	7,625.2	51.1	18.9	45.82	-980.0	-94.6	960.1	906.0	54.13	17.735	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey L-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							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	3.0	3.0	0.0	0.0	-147.49	-472.8	-301.3	560.7					
100.0	100.0	103.0	103.0	0.1	0.1	-147.49	-472.8	-301.3	560.7	560.4	0.23	2,421.807		
200.0	200.0	203.0	203.0	0.3	0.3	-147.49	-472.8	-301.3	560.7	560.0	0.68	823.254		
300.0	300.0	303.0	303.0	0.5	0.6	-21.24	-472.8	-301.3	559.0	557.9	1.12	499.676		
400.0	399.8	402.8	402.8	0.8	0.8	-21.48	-472.8	-301.3	554.2	552.6	1.56	355.546		
500.0	499.5	502.5	502.5	1.0	1.0	-21.87	-472.8	-301.3	546.1	544.1	2.01	271.513		
600.0	598.7	601.7	601.7	1.3	1.2	-22.44	-472.8	-301.3	534.8	532.3	2.47	216.159		
700.0	697.5	700.5	700.5	1.6	1.5	-23.21	-472.8	-301.3	520.3	517.4	2.95	176.473		
800.0	795.6	798.6	798.6	2.0	1.7	-24.21	-472.8	-301.3	502.8	499.4	3.44	146.232		
900.0	893.1	896.1	896.1	2.5	1.9	-25.40	-472.8	-301.3	482.5	478.6	3.95	122.233		
1,000.0	990.4	993.4	993.4	2.9	2.1	-26.62	-472.8	-301.3	461.8	457.3	4.47	103.228		
1,100.0	1,087.8	1,090.8	1,090.8	3.4	2.3	-27.94	-472.8	-301.3	441.3	436.3	5.02	87.964		
1,200.0	1,185.1	1,188.1	1,188.1	3.9	2.6	-29.40	-472.8	-301.3	421.1	415.5	5.58	75.494		
1,300.0	1,282.5	1,284.1	1,284.1	4.4	2.8	-31.14	-473.5	-300.2	401.3	395.1	6.14	65.354		
1,400.0	1,379.8	1,379.1	1,378.9	4.9	2.9	-33.52	-475.6	-296.4	382.4	375.7	6.72	56.893		
1,500.0	1,477.1	1,473.1	1,472.7	5.4	3.1	-36.56	-479.3	-290.0	364.9	357.6	7.35	49.637		
1,600.0	1,574.5	1,567.4	1,566.5	5.9	3.3	-40.32	-484.4	-281.2	349.4	341.4	8.05	43.408		
1,700.0	1,671.8	1,663.1	1,661.5	6.4	3.6	-44.51	-489.8	-271.9	335.8	327.0	8.81	38.108		
1,800.0	1,769.1	1,758.8	1,756.6	6.9	3.8	-49.00	-495.2	-262.6	324.3	314.7	9.62	33.695		
1,900.0	1,866.5	1,854.5	1,851.7	7.4	4.0	-53.76	-500.6	-253.3	315.0	304.5	10.47	30.072		
2,000.0	1,963.8	1,950.2	1,946.8	7.9	4.3	-58.75	-506.0	-244.0	308.2	296.8	11.35	27.149		
2,100.0	2,061.1	2,045.9	2,041.9	8.4	4.5	-63.91	-511.3	-234.7	304.0	291.8	12.24	24.841		
2,200.0	2,158.5	2,141.5	2,136.9	8.9	4.8	-69.16	-516.7	-225.4	302.6	289.4	13.12	23.066		
2,201.7	2,160.1	2,143.1	2,138.5	8.9	4.8	-69.25	-516.8	-225.2	302.6	289.4	13.13	23.041		
2,300.0	2,255.8	2,237.2	2,232.0	9.4	5.1	-74.41	-522.1	-216.1	303.9	289.9	13.97	21.749		
2,400.0	2,353.2	2,332.9	2,327.1	9.9	5.3	-79.58	-527.5	-206.8	308.0	293.2	14.79	20.819		
2,500.0	2,450.5	2,428.6	2,422.2	10.4	5.6	-84.58	-532.9	-197.5	314.7	299.2	15.57	20.214		
2,600.0	2,547.8	2,524.3	2,517.3	10.9	5.9	-89.35	-538.3	-188.2	323.9	307.6	16.30	19.875		
2,700.0	2,645.2	2,620.0	2,612.4	11.4	6.1	-93.85	-543.6	-178.9	335.4	318.4	16.98	19.752		
2,800.0	2,742.5	2,715.7	2,707.4	11.9	6.4	-98.05	-549.0	-169.6	348.9	331.3	17.62	19.802		
2,900.0	2,839.8	2,811.4	2,802.5	12.4	6.7	-101.93	-554.4	-160.3	364.3	346.1	18.22	19.988		
3,000.0	2,937.2	2,907.0	2,897.6	12.9	7.0	-105.51	-559.8	-151.0	381.2	362.4	18.80	20.279		
3,100.0	3,034.5	3,002.7	2,992.7	13.4	7.3	-108.78	-565.2	-141.7	399.6	380.2	19.35	20.649		
3,200.0	3,131.8	3,098.4	3,087.8	13.9	7.6	-111.78	-570.5	-132.3	419.1	399.2	19.88	21.077		
3,300.0	3,229.2	3,194.1	3,182.8	14.4	7.8	-114.51	-575.9	-123.0	439.7	419.3	20.41	21.548		
3,400.0	3,326.5	3,289.8	3,277.9	14.9	8.1	-117.00	-581.3	-113.7	461.2	440.3	20.92	22.048		
3,500.0	3,423.9	3,385.5	3,373.0	15.4	8.4	-119.27	-586.7	-104.4	483.5	462.1	21.43	22.566		
3,600.0	3,521.2	3,481.2	3,468.1	15.9	8.7	-121.35	-592.1	-95.1	506.5	484.6	21.93	23.095		
3,700.0	3,618.5	3,576.9	3,563.2	16.4	9.0	-123.25	-597.5	-85.8	530.1	507.6	22.43	23.627		
3,800.0	3,715.9	3,672.6	3,658.3	16.9	9.3	-124.99	-602.8	-76.5	554.2	531.2	22.94	24.159		
3,900.0	3,813.2	3,768.2	3,753.3	17.4	9.6	-126.59	-608.2	-67.2	578.7	555.3	23.44	24.686		
4,000.0	3,910.5	3,863.9	3,848.4	17.9	9.9	-128.06	-613.6	-57.9	603.7	579.7	23.95	25.206		
4,100.0	4,007.9	3,959.6	3,943.5	18.4	10.1	-129.42	-619.0	-48.6	629.0	604.5	24.46	25.717		
4,200.0	4,105.2	4,055.3	4,038.6	18.9	10.4	-130.67	-624.4	-39.3	654.6	629.6	24.97	26.216		
4,300.0	4,202.5	4,151.0	4,133.7	19.4	10.7	-131.83	-629.7	-30.0	680.5	655.0	25.48	26.704		
4,400.0	4,299.9	4,246.7	4,228.8	19.9	11.0	-132.91	-635.1	-20.7	706.6	680.6	26.00	27.179		
4,500.0	4,397.2	4,342.4	4,323.8	20.4	11.3	-133.91	-640.5	-11.4	733.0	706.5	26.52	27.641		
4,600.0	4,494.6	4,438.1	4,418.9	20.9	11.6	-134.84	-645.9	-2.1	759.5	732.5	27.04	28.089		
4,700.0	4,591.9	4,533.7	4,514.0	21.4	11.9	-135.71	-651.3	7.2	786.3	758.7	27.56	28.525		
4,800.0	4,689.2	4,629.4	4,609.1	21.9	12.2	-136.52	-656.6	16.5	813.2	785.1	28.09	28.947		
4,900.0	4,786.6	4,725.1	4,704.2	22.4	12.5	-137.28	-662.0	25.8	840.2	811.6	28.62	29.357		
5,000.0	4,883.9	4,820.8	4,799.2	22.9	12.8	-137.99	-667.4	35.1	867.4	838.2	29.15	29.753		

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey L-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							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	4,981.2	4,916.5	4,894.3	23.4	13.1	-138.67	-672.8	44.4	894.6	865.0	29.69	30.137		
5,200.0	5,078.6	5,012.2	4,989.4	23.9	13.4	-139.30	-678.2	53.7	922.0	891.8	30.22	30.509		
5,300.0	5,175.9	5,107.9	5,084.5	24.4	13.7	-139.89	-683.6	63.1	949.5	918.8	30.76	30.869		
5,400.0	5,273.2	5,203.6	5,179.6	24.9	14.0	-140.45	-688.9	72.4	977.1	945.8	31.30	31.218		
8,000.0	7,683.3	7,667.2	7,593.1	29.7	21.4	11.62	-951.1	235.2	987.0	959.7	27.25	36.220		
8,100.0	7,720.2	7,690.4	7,610.6	29.6	21.5	17.66	-966.4	235.3	899.4	872.4	26.99	33.322		
8,200.0	7,743.9	7,700.0	7,617.7	29.5	21.6	25.93	-972.9	235.3	807.7	778.5	29.23	27.634		
8,300.0	7,753.7	7,710.7	7,625.5	29.6	21.6	41.52	-980.2	235.3	712.9	676.6	36.25	19.664		
8,400.0	7,753.7	7,711.1	7,625.7	29.9	21.6	46.07	-980.4	235.3	617.0	578.1	38.88	15.868		
8,500.0	7,753.4	7,711.2	7,625.9	30.5	21.6	46.11	-980.5	235.3	522.5	482.6	39.82	13.120		
8,600.0	7,753.0	7,711.4	7,626.0	31.4	21.7	46.15	-980.6	235.3	430.5	389.6	40.91	10.523		
8,700.0	7,752.7	7,711.5	7,626.1	32.7	21.7	46.20	-980.7	235.3	343.0	300.9	42.12	8.145		
8,800.0	7,752.4	7,711.6	7,626.2	34.1	21.7	46.24	-980.8	235.3	264.6	221.1	43.43	6.092		
8,900.0	7,752.0	7,711.8	7,626.3	35.8	21.7	46.29	-980.9	235.3	205.8	160.9	44.84	4.589		
8,988.3	7,751.7	7,711.9	7,626.4	37.5	21.7	46.33	-981.0	235.3	185.9	139.7	46.16	4.027 CC, ES		
9,000.0	7,751.7	7,711.9	7,626.4	37.7	21.7	46.33	-981.0	235.3	186.2	139.9	46.33	4.020 SF		
9,100.0	7,751.3	7,712.1	7,626.5	39.8	21.7	46.38	-981.1	235.3	216.8	169.0	47.89	4.528		
9,200.0	7,751.0	7,712.2	7,626.6	41.9	21.7	46.42	-981.2	235.3	281.7	232.2	49.52	5.689		
9,300.0	7,750.6	7,712.4	7,626.7	44.1	21.7	46.47	-981.3	235.3	362.9	311.7	51.19	7.089		
9,400.0	7,750.3	7,712.5	7,626.8	46.4	21.7	46.51	-981.4	235.3	451.7	398.8	52.92	8.537		
9,500.0	7,749.9	7,712.7	7,626.9	48.7	21.7	46.56	-981.5	235.3	544.4	489.7	54.68	9.956		
9,600.0	7,749.6	7,712.8	7,627.0	51.1	21.7	46.60	-981.6	235.3	639.3	582.8	56.48	11.319		
9,700.0	7,749.3	7,713.0	7,627.1	53.6	21.7	46.65	-981.7	235.3	735.6	677.3	58.31	12.614		
9,800.0	7,748.9	7,713.1	7,627.2	56.0	21.7	46.69	-981.8	235.3	832.7	772.5	60.17	13.839		
9,900.0	7,748.6	7,713.3	7,627.3	58.5	21.7	46.74	-981.9	235.3	930.5	868.4	62.06	14.993		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-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							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	3.0	3.0	0.0	0.0	-147.21	-459.0	-295.7	546.0					
100.0	100.0	103.0	103.0	0.1	0.1	-147.21	-459.0	-295.7	546.0	545.8	0.23	2,358.398		
200.0	200.0	203.0	203.0	0.3	0.3	-147.21	-459.0	-295.7	546.0	545.3	0.68	801.700		
300.0	300.0	303.0	303.0	0.5	0.6	-20.96	-459.0	-295.7	544.4	543.2	1.12	486.544		
400.0	399.8	402.8	402.8	0.8	0.8	-21.19	-459.0	-295.7	539.5	537.9	1.56	346.115		
500.0	499.5	502.5	502.5	1.0	1.0	-21.59	-459.0	-295.7	531.4	529.3	2.01	264.207		
600.0	598.7	601.7	601.7	1.3	1.2	-22.17	-459.0	-295.7	520.0	517.6	2.47	210.226		
700.0	697.5	700.5	700.5	1.6	1.5	-22.95	-459.0	-295.7	505.6	502.6	2.95	171.503		
800.0	795.6	798.6	798.6	2.0	1.7	-23.97	-459.0	-295.7	488.0	484.6	3.44	141.975		
900.0	893.1	896.1	896.1	2.5	1.9	-25.18	-459.0	-295.7	467.7	463.7	3.95	118.528		
1,000.0	990.4	993.4	993.4	2.9	2.1	-26.43	-459.0	-295.7	446.9	442.5	4.47	99.954		
1,100.0	1,087.8	1,091.6	1,091.6	3.4	2.3	-28.00	-459.6	-294.3	426.3	421.3	5.00	85.209		
1,200.0	1,185.1	1,188.8	1,188.7	3.9	2.5	-30.19	-461.4	-290.0	406.0	400.4	5.55	73.131		
1,300.0	1,282.5	1,284.8	1,284.4	4.4	2.7	-33.04	-464.5	-282.7	386.3	380.2	6.15	62.867		
1,400.0	1,379.8	1,379.4	1,378.3	4.9	2.9	-36.62	-468.8	-272.6	368.0	361.2	6.80	54.098		
1,500.0	1,477.1	1,473.8	1,471.8	5.4	3.2	-40.88	-473.9	-260.4	351.7	344.2	7.53	46.688		
1,600.0	1,574.5	1,568.6	1,565.6	5.9	3.4	-45.52	-479.1	-248.1	337.8	329.4	8.33	40.552		
1,700.0	1,671.8	1,663.3	1,659.3	6.4	3.7	-50.48	-484.3	-235.8	326.3	317.2	9.17	35.571		
1,800.0	1,769.1	1,758.0	1,753.1	6.9	4.0	-55.74	-489.5	-223.5	317.8	307.7	10.06	31.601		
1,900.0	1,866.5	1,852.7	1,846.9	7.4	4.3	-61.20	-494.7	-211.2	312.3	301.3	10.95	28.507		
2,000.0	1,963.8	1,947.4	1,940.6	7.9	4.6	-66.79	-499.9	-198.9	310.0	298.2	11.85	26.161		
2,018.2	1,981.5	1,964.6	1,957.7	8.0	4.6	-67.81	-500.9	-196.7	309.9	297.9	12.01	25.806		
2,100.0	2,061.1	2,042.1	2,034.4	8.4	4.9	-72.40	-505.1	-186.6	311.1	298.3	12.72	24.450		
2,200.0	2,158.5	2,136.8	2,128.2	8.9	5.2	-77.92	-510.3	-174.3	315.4	301.8	13.56	23.265		
2,300.0	2,255.8	2,231.5	2,221.9	9.4	5.5	-83.26	-515.5	-162.0	322.9	308.5	14.34	22.513		
2,400.0	2,353.2	2,326.2	2,315.7	9.9	5.8	-88.34	-520.7	-149.7	333.3	318.2	15.07	22.111		
2,500.0	2,450.5	2,420.9	2,409.4	10.4	6.1	-93.11	-525.9	-137.4	346.4	330.6	15.75	21.987		
2,600.0	2,547.8	2,515.7	2,503.2	10.9	6.4	-97.52	-531.1	-125.1	361.8	345.5	16.39	22.079		
2,700.0	2,645.2	2,610.4	2,597.0	11.4	6.7	-101.58	-536.3	-112.8	379.4	362.4	16.99	22.337		
2,800.0	2,742.5	2,705.1	2,690.7	11.9	7.0	-105.29	-541.5	-100.5	398.8	381.2	17.55	22.719		
2,900.0	2,839.8	2,799.8	2,784.5	12.4	7.4	-108.67	-546.7	-88.2	419.7	401.6	18.10	23.192		
3,000.0	2,937.2	2,894.5	2,878.3	12.9	7.7	-111.73	-551.9	-75.9	442.0	423.4	18.63	23.729		
3,100.0	3,034.5	2,989.2	2,972.0	13.4	8.0	-114.51	-557.1	-63.6	465.4	446.3	19.14	24.310		
3,200.0	3,131.8	3,083.9	3,065.8	13.9	8.3	-117.03	-562.3	-51.3	489.8	470.2	19.66	24.918		
3,300.0	3,229.2	3,178.6	3,159.6	14.4	8.6	-119.31	-567.5	-39.0	515.1	494.9	20.17	25.542		
3,400.0	3,326.5	3,273.3	3,253.3	14.9	9.0	-121.39	-572.7	-26.7	541.1	520.4	20.67	26.171		
3,500.0	3,423.9	3,368.0	3,347.1	15.4	9.3	-123.28	-577.9	-14.4	567.7	546.5	21.18	26.799		
3,600.0	3,521.2	3,462.8	3,440.8	15.9	9.6	-125.01	-583.1	-2.1	594.8	573.1	21.69	27.420		
3,700.0	3,618.5	3,557.5	3,534.6	16.4	9.9	-126.59	-588.3	10.2	622.4	600.2	22.20	28.031		
3,800.0	3,715.9	3,652.2	3,628.4	16.9	10.3	-128.03	-593.5	22.5	650.4	627.7	22.72	28.629		
3,900.0	3,813.2	3,746.9	3,722.1	17.4	10.6	-129.36	-598.7	34.8	678.8	655.6	23.24	29.212		
4,000.0	3,910.5	3,841.6	3,815.9	17.9	10.9	-130.59	-603.9	47.1	707.5	683.8	23.76	29.779		
4,100.0	4,007.9	3,936.3	3,909.7	18.4	11.3	-131.72	-609.1	59.4	736.5	712.2	24.28	30.328		
4,200.0	4,105.2	4,031.0	4,003.4	18.9	11.6	-132.76	-614.3	71.7	765.8	740.9	24.81	30.861		
4,300.0	4,202.5	4,125.7	4,097.2	19.4	11.9	-133.74	-619.5	84.0	795.2	769.9	25.34	31.376		
4,400.0	4,299.9	4,220.4	4,191.0	19.9	12.2	-134.64	-624.7	96.3	824.9	799.0	25.88	31.875		
4,500.0	4,397.2	4,315.1	4,284.7	20.4	12.6	-135.48	-629.9	108.7	854.7	828.3	26.42	32.356		
4,600.0	4,494.6	4,409.9	4,378.5	20.9	12.9	-136.26	-635.1	121.0	884.7	857.7	26.96	32.820		
4,700.0	4,591.9	4,504.6	4,472.2	21.4	13.2	-137.00	-640.3	133.3	914.8	887.3	27.50	33.269		
4,800.0	4,689.2	4,599.3	4,566.0	21.9	13.6	-137.68	-645.5	145.6	945.1	917.0	28.04	33.701		
4,900.0	4,786.6	4,694.0	4,659.8	22.4	13.9	-138.33	-650.7	157.9	975.4	946.8	28.59	34.119		
8,400.0	7,753.7	7,632.4	7,523.7	29.9	24.9	27.92	-969.4	534.2	924.9	893.1	31.84	29.045		

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-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
8,500.0	7,753.4	7,640.3	7,529.4	30.5	25.0	29.56	-974.7	535.0	829.4	795.9	33.48	24.770	
8,600.0	7,753.0	7,650.0	7,536.4	31.4	25.0	31.63	-981.4	535.9	734.9	699.4	35.51	20.700	
8,700.0	7,752.7	7,655.6	7,540.4	32.7	25.1	32.85	-985.2	536.5	642.1	604.9	37.17	17.275	
8,800.0	7,752.4	7,663.0	7,545.7	34.1	25.1	34.49	-990.4	537.2	551.6	512.4	39.20	14.069	
8,900.0	7,752.0	7,670.3	7,550.8	35.8	25.2	36.12	-995.6	537.9	464.8	423.5	41.37	11.237	
9,000.0	7,751.7	7,677.5	7,555.8	37.7	25.2	37.74	-1,000.7	538.5	384.4	340.8	43.64	8.808	
9,100.0	7,751.3	7,684.6	7,560.7	39.8	25.3	39.35	-1,005.8	539.2	315.2	269.1	46.03	6.847	
9,200.0	7,751.0	7,691.5	7,565.4	41.9	25.3	40.93	-1,010.8	539.8	266.0	217.5	48.52	5.483	
9,293.9	7,750.7	7,700.0	7,571.1	44.0	25.4	42.88	-1,017.1	540.6	249.1	197.8	51.27	4.858 CC	
9,300.0	7,750.6	7,700.0	7,571.1	44.1	25.4	42.88	-1,017.1	540.6	249.2	197.8	51.36	4.851 ES, SF	
9,400.0	7,750.3	7,700.0	7,571.1	46.4	25.4	42.88	-1,017.1	540.6	270.7	217.8	52.97	5.111	
9,500.0	7,749.9	7,711.5	7,578.7	48.7	25.5	45.51	-1,025.6	541.6	323.0	266.5	56.49	5.718	
9,600.0	7,749.6	7,717.9	7,582.9	51.1	25.5	46.97	-1,030.4	542.2	394.1	334.8	59.28	6.647	
9,700.0	7,749.3	7,724.2	7,587.0	53.6	25.6	48.39	-1,035.2	542.8	475.5	413.4	62.14	7.653	
9,800.0	7,748.9	7,730.4	7,591.0	56.0	25.6	49.78	-1,039.9	543.3	562.9	497.9	65.04	8.655	
9,900.0	7,748.6	7,736.5	7,594.8	58.5	25.7	51.13	-1,044.6	543.8	653.8	585.9	67.97	9.619	
10,000.0	7,748.2	7,750.0	7,603.3	61.1	25.8	54.07	-1,055.1	545.0	747.1	674.9	72.13	10.358	
10,100.0	7,747.9	7,750.0	7,603.3	63.6	25.8	54.07	-1,055.1	545.0	841.7	767.5	74.21	11.342	
10,200.0	7,747.5	7,750.0	7,603.3	66.2	25.8	54.07	-1,055.1	545.0	937.4	861.1	76.31	12.285	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-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							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	3.0	3.0	0.0	0.0	-146.64	-431.3	-283.9	516.4					
100.0	100.0	103.0	103.0	0.1	0.1	-146.64	-431.3	-283.9	516.4	516.1	0.23	2,230.437		
200.0	200.0	203.0	203.0	0.3	0.3	-146.64	-431.3	-283.9	516.4	515.7	0.68	758.201		
300.0	300.0	303.0	303.0	0.5	0.6	-20.40	-431.3	-283.9	514.7	513.6	1.12	460.045		
400.0	399.8	402.8	402.8	0.8	0.8	-20.64	-431.3	-283.9	509.8	508.3	1.56	327.085		
500.0	499.5	502.5	502.5	1.0	1.0	-21.04	-431.3	-283.9	501.7	499.7	2.01	249.463		
600.0	598.7	601.8	601.8	1.3	1.2	-21.64	-431.3	-283.9	490.3	487.8	2.47	198.260		
700.0	697.5	704.4	704.3	1.6	1.5	-22.70	-431.9	-282.1	475.4	472.4	2.94	161.661		
800.0	795.6	805.2	805.1	2.0	1.7	-24.48	-433.6	-276.9	456.7	453.3	3.42	133.502		
900.0	893.1	903.9	903.4	2.5	1.9	-26.98	-436.4	-268.6	435.0	431.1	3.94	110.310		
1,000.0	990.4	1,000.8	999.5	2.9	2.1	-30.06	-440.2	-257.4	413.2	408.7	4.52	91.388		
1,100.0	1,087.8	1,095.9	1,093.4	3.4	2.4	-33.85	-444.8	-243.3	392.5	387.3	5.17	75.875		
1,200.0	1,185.1	1,189.4	1,185.4	3.9	2.7	-38.23	-450.1	-227.6	373.8	367.9	5.90	63.343		
1,300.0	1,282.5	1,282.8	1,277.4	4.4	3.0	-43.00	-455.3	-211.9	357.6	350.9	6.69	53.435		
1,400.0	1,379.8	1,376.3	1,369.4	4.9	3.4	-48.14	-460.5	-196.2	344.4	336.9	7.54	45.699		
1,500.0	1,477.1	1,469.7	1,461.4	5.4	3.7	-53.58	-465.7	-180.5	334.5	326.1	8.42	39.738		
1,600.0	1,574.5	1,563.2	1,553.3	5.9	4.1	-59.27	-471.0	-164.8	328.2	318.9	9.32	35.227		
1,700.0	1,671.8	1,656.7	1,645.3	6.4	4.4	-65.09	-476.2	-149.1	325.6	315.4	10.21	31.894		
1,715.9	1,687.3	1,671.5	1,659.9	6.5	4.5	-66.02	-477.0	-146.6	325.6	315.2	10.35	31.458		
1,800.0	1,769.1	1,750.1	1,737.3	6.9	4.8	-70.93	-481.4	-133.4	326.9	315.9	11.08	29.515		
1,900.0	1,866.5	1,843.6	1,829.3	7.4	5.2	-76.67	-486.7	-117.7	332.1	320.2	11.90	27.901		
2,000.0	1,963.8	1,937.0	1,921.2	7.9	5.5	-82.21	-491.9	-102.0	340.9	328.2	12.68	26.895		
2,100.0	2,061.1	2,030.5	2,013.2	8.4	5.9	-87.44	-497.1	-86.3	353.1	339.7	13.39	26.365		
2,200.0	2,158.5	2,123.9	2,105.2	8.9	6.3	-92.33	-502.3	-70.6	368.3	354.3	14.06	26.202		
2,300.0	2,255.8	2,217.4	2,197.2	9.4	6.6	-96.84	-507.6	-54.9	386.3	371.6	14.68	26.316		
2,400.0	2,353.2	2,310.8	2,289.2	9.9	7.0	-100.97	-512.8	-39.2	406.5	391.3	15.26	26.636		
2,500.0	2,450.5	2,404.3	2,381.1	10.4	7.4	-104.72	-518.0	-23.5	428.8	413.0	15.82	27.104		
2,600.0	2,547.8	2,497.7	2,473.1	10.9	7.8	-108.11	-523.3	-7.8	452.7	436.4	16.36	27.676		
2,700.0	2,645.2	2,591.2	2,565.1	11.4	8.1	-111.17	-528.5	7.9	478.2	461.3	16.89	28.317		
2,800.0	2,742.5	2,684.6	2,657.1	11.9	8.5	-113.94	-533.7	23.6	504.8	487.4	17.41	29.001		
2,900.0	2,839.8	2,778.1	2,749.0	12.4	8.9	-116.44	-538.9	39.3	532.5	514.6	17.92	29.708		
3,000.0	2,937.2	2,871.5	2,841.0	12.9	9.3	-118.70	-544.2	55.0	561.1	542.6	18.44	30.425		
3,100.0	3,034.5	2,965.0	2,933.0	13.4	9.6	-120.75	-549.4	70.7	590.4	571.5	18.96	31.140		
3,200.0	3,131.8	3,058.5	3,025.0	13.9	10.0	-122.61	-554.6	86.5	620.4	600.9	19.48	31.846		
3,300.0	3,229.2	3,151.9	3,116.9	14.4	10.4	-124.31	-559.9	102.2	651.0	631.0	20.01	32.537		
3,400.0	3,326.5	3,245.4	3,208.9	14.9	10.8	-125.85	-565.1	117.9	682.0	661.5	20.54	33.211		
3,500.0	3,423.9	3,338.8	3,300.9	15.4	11.2	-127.27	-570.3	133.6	713.5	692.4	21.07	33.864		
3,600.0	3,521.2	3,432.3	3,392.9	15.9	11.5	-128.57	-575.6	149.3	745.4	723.7	21.61	34.496		
3,700.0	3,618.5	3,525.7	3,484.8	16.4	11.9	-129.76	-580.8	165.0	777.5	755.4	22.15	35.106		
3,800.0	3,715.9	3,619.2	3,576.8	16.9	12.3	-130.86	-586.0	180.7	810.0	787.3	22.69	35.693		
3,900.0	3,813.2	3,712.6	3,668.8	17.4	12.7	-131.88	-591.2	196.4	842.7	819.4	23.24	36.258		
4,000.0	3,910.5	3,806.1	3,760.8	17.9	13.1	-132.82	-596.5	212.1	875.6	851.8	23.79	36.802		
4,100.0	4,007.9	3,899.5	3,852.8	18.4	13.4	-133.70	-601.7	227.8	908.7	884.4	24.35	37.324		
4,200.0	4,105.2	3,993.0	3,944.7	18.9	13.8	-134.51	-606.9	243.5	942.1	917.1	24.91	37.825		
4,300.0	4,202.5	4,086.4	4,036.7	19.4	14.2	-135.27	-612.2	259.2	975.5	950.1	25.47	38.307		
8,700.0	7,752.7	7,650.0	7,505.4	32.7	29.2	22.79	-952.5	852.0	944.1	911.4	32.74	28.834		
8,800.0	7,752.4	7,662.1	7,514.5	34.1	29.3	25.13	-960.3	853.5	848.6	813.4	35.18	24.122		
8,900.0	7,752.0	7,672.5	7,522.2	35.8	29.4	27.24	-967.2	854.9	754.1	716.5	37.62	20.045		
9,000.0	7,751.7	7,682.7	7,529.6	37.7	29.5	29.37	-974.1	856.2	661.0	620.8	40.22	16.433		
9,100.0	7,751.3	7,692.7	7,536.8	39.8	29.5	31.51	-980.9	857.4	570.0	527.0	42.98	13.261		
9,200.0	7,751.0	7,700.0	7,542.0	41.9	29.6	33.11	-985.9	858.3	482.3	436.8	45.46	10.610		
9,300.0	7,750.6	7,712.0	7,550.4	44.1	29.7	35.78	-994.3	859.8	400.1	351.2	48.91	8.181		

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-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
9,400.0	7,750.3	7,721.3	7,556.8	46.4	29.7	37.89	-1,000.9	860.9	327.7	275.6	52.04	6.296	
9,500.0	7,749.9	7,730.3	7,563.0	48.7	29.8	39.96	-1,007.4	862.0	272.8	217.5	55.27	4.936	
9,600.0	7,749.6	7,739.2	7,569.0	51.1	29.9	42.00	-1,013.9	863.0	247.5	189.0	58.57	4.226	
9,616.5	7,749.5	7,740.6	7,569.9	51.5	29.9	42.33	-1,014.9	863.2	247.0	187.9	59.13	4.177	CC, ES, SF
9,700.0	7,749.3	7,750.0	7,576.2	53.6	29.9	44.49	-1,021.9	864.3	260.6	198.2	62.36	4.179	
9,800.0	7,748.9	7,750.0	7,576.2	56.0	29.9	44.49	-1,021.9	864.3	307.2	243.1	64.13	4.791	
9,900.0	7,748.6	7,764.4	7,585.6	58.5	30.1	47.80	-1,032.7	865.9	375.0	306.2	68.78	5.452	
10,000.0	7,748.2	7,772.5	7,590.7	61.1	30.1	49.61	-1,038.8	866.8	454.6	382.4	72.23	6.294	
10,100.0	7,747.9	7,780.3	7,595.7	63.6	30.2	51.36	-1,044.9	867.7	540.9	465.2	75.69	7.146	
10,200.0	7,747.5	7,788.0	7,600.4	66.2	30.2	53.04	-1,050.8	868.5	631.1	551.9	79.15	7.973	
10,300.0	7,747.2	7,800.0	7,607.8	68.8	30.3	55.63	-1,060.2	869.8	723.8	640.4	83.39	8.679	
10,400.0	7,746.8	7,800.0	7,607.8	71.4	30.3	55.63	-1,060.2	869.8	818.1	732.5	85.56	9.561	
10,500.0	7,746.5	7,809.8	7,613.7	74.0	30.4	57.68	-1,068.0	870.9	913.5	824.0	89.45	10.212	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	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
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	21.03	13.8	5.3	14.8	14.8	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	21.03	13.8	5.3	14.8	14.6	0.22	66.005		
200.0	200.0	200.0	200.0	0.3	0.3	21.03	13.8	5.3	14.8	14.2	0.67	22.002 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.6	150.65	13.8	5.3	16.3	15.2	1.11	14.695		
400.0	399.8	399.8	399.8	0.8	0.8	157.61	13.8	5.3	21.1	19.5	1.55	13.564		
500.0	499.5	500.3	500.3	1.0	1.0	162.44	13.1	3.7	27.8	25.8	1.98	14.013		
600.0	598.7	601.0	600.9	1.3	1.2	164.24	10.9	-1.1	34.8	32.4	2.41	14.475		
700.0	697.5	702.0	701.4	1.6	1.4	164.49	7.2	-9.1	42.2	39.3	2.86	14.765		
800.0	795.6	803.1	801.8	2.0	1.7	163.87	2.1	-20.4	49.7	46.4	3.33	14.918		
900.0	893.1	904.5	901.9	2.5	2.0	162.66	-4.6	-35.0	57.3	53.4	3.85	14.877		
1,000.0	990.4	1,006.0	1,001.5	2.9	2.4	160.33	-12.7	-52.7	62.5	58.0	4.43	14.105		
1,100.0	1,087.8	1,105.8	1,099.2	3.4	2.8	157.73	-21.2	-71.5	66.6	61.5	5.06	13.151		
1,200.0	1,185.1	1,205.7	1,196.9	3.9	3.2	155.44	-29.8	-90.2	70.8	65.1	5.73	12.349		
1,300.0	1,282.5	1,305.6	1,294.6	4.4	3.7	153.40	-38.4	-108.9	75.1	68.7	6.44	11.672		
1,400.0	1,379.8	1,405.5	1,392.4	4.9	4.1	151.60	-46.9	-127.6	79.6	72.4	7.17	11.101		
1,500.0	1,477.1	1,505.3	1,490.1	5.4	4.5	149.98	-55.5	-146.4	84.0	76.1	7.92	10.614		
1,600.0	1,574.5	1,605.2	1,587.8	5.9	5.0	148.53	-64.0	-165.1	88.6	79.9	8.69	10.197		
1,700.0	1,671.8	1,705.1	1,685.6	6.4	5.4	147.22	-72.6	-183.8	93.2	83.7	9.47	9.838		
1,800.0	1,769.1	1,805.0	1,783.3	6.9	5.9	146.03	-81.2	-202.6	97.8	87.6	10.27	9.527		
1,900.0	1,866.5	1,904.8	1,881.0	7.4	6.3	144.95	-89.7	-221.3	102.5	91.4	11.08	9.255		
2,000.0	1,963.8	2,004.7	1,978.7	7.9	6.8	143.97	-98.3	-240.0	107.2	95.3	11.89	9.016		
2,100.0	2,061.1	2,104.6	2,076.5	8.4	7.2	143.07	-106.8	-258.7	112.0	99.2	12.72	8.805		
2,200.0	2,158.5	2,204.4	2,174.2	8.9	7.7	142.24	-115.4	-277.5	116.7	103.2	13.55	8.617		
2,300.0	2,255.8	2,304.3	2,271.9	9.4	8.1	141.48	-124.0	-296.2	121.5	107.1	14.38	8.450		
2,400.0	2,353.2	2,404.2	2,369.6	9.9	8.6	140.77	-132.5	-314.9	126.3	111.1	15.22	8.300		
2,500.0	2,450.5	2,504.1	2,467.4	10.4	9.1	140.12	-141.1	-333.7	131.2	115.1	16.06	8.164		
2,600.0	2,547.8	2,603.9	2,565.1	10.9	9.5	139.52	-149.6	-352.4	136.0	119.1	16.91	8.041		
2,700.0	2,645.2	2,703.8	2,662.8	11.4	10.0	138.95	-158.2	-371.1	140.8	123.1	17.76	7.930		
2,800.0	2,742.5	2,803.7	2,760.6	11.9	10.4	138.42	-166.8	-389.8	145.7	127.1	18.62	7.828		
2,900.0	2,839.8	2,903.6	2,858.3	12.4	10.9	137.93	-175.3	-408.6	150.6	131.1	19.47	7.735		
3,000.0	2,937.2	3,003.4	2,956.0	12.9	11.4	137.47	-183.9	-427.3	155.5	135.2	20.33	7.649		
3,100.0	3,034.5	3,103.3	3,053.7	13.4	11.8	137.04	-192.4	-446.0	160.4	139.2	21.19	7.570		
3,200.0	3,131.8	3,203.2	3,151.5	13.9	12.3	136.63	-201.0	-464.8	165.3	143.3	22.05	7.497		
3,300.0	3,229.2	3,303.0	3,249.2	14.4	12.7	136.24	-209.6	-483.5	170.2	147.3	22.91	7.429		
3,400.0	3,326.5	3,402.9	3,346.9	14.9	13.2	135.88	-218.1	-502.2	175.1	151.4	23.77	7.367		
3,500.0	3,423.9	3,502.8	3,444.6	15.4	13.6	135.54	-226.7	-520.9	180.1	155.4	24.64	7.308		
3,600.0	3,521.2	3,602.7	3,542.4	15.9	14.1	135.21	-235.2	-539.7	185.0	159.5	25.51	7.254		
3,700.0	3,618.5	3,702.5	3,640.1	16.4	14.6	134.91	-243.8	-558.4	189.9	163.6	26.37	7.203		
3,800.0	3,715.9	3,802.4	3,737.8	16.9	15.0	134.61	-252.4	-577.1	194.9	167.7	27.24	7.155		
3,900.0	3,813.2	3,902.3	3,835.5	17.4	15.5	134.34	-260.9	-595.9	199.8	171.7	28.11	7.110		
4,000.0	3,910.5	4,002.2	3,933.3	17.9	15.9	134.07	-269.5	-614.6	204.8	175.8	28.98	7.068		
4,100.0	4,007.9	4,102.0	4,031.0	18.4	16.4	133.82	-278.0	-633.3	209.8	179.9	29.85	7.028		
4,200.0	4,105.2	4,201.9	4,128.7	18.9	16.9	133.58	-286.6	-652.0	214.7	184.0	30.72	6.991		
4,300.0	4,202.5	4,301.8	4,226.5	19.4	17.3	133.35	-295.2	-670.8	219.7	188.1	31.59	6.955		
4,400.0	4,299.9	4,401.6	4,324.2	19.9	17.8	133.13	-303.7	-689.5	224.7	192.2	32.46	6.922		
4,500.0	4,397.2	4,501.5	4,421.9	20.4	18.2	132.92	-312.3	-708.2	229.6	196.3	33.33	6.890		
4,600.0	4,494.6	4,601.4	4,519.6	20.9	18.7	132.72	-320.8	-726.9	234.6	200.4	34.20	6.860		
4,700.0	4,591.9	4,701.3	4,617.4	21.4	19.2	132.53	-329.4	-745.7	239.6	204.5	35.08	6.831		
4,800.0	4,689.2	4,801.1	4,715.1	21.9	19.6	132.34	-338.0	-764.4	244.6	208.6	35.95	6.804		
4,900.0	4,786.6	4,901.0	4,812.8	22.4	20.1	132.17	-346.5	-783.1	249.6	212.8	36.82	6.778		
5,000.0	4,883.9	5,000.9	4,910.5	22.9	20.6	132.00	-355.1	-801.9	254.6	216.9	37.70	6.753		
5,100.0	4,981.2	5,100.8	5,008.3	23.4	21.0	131.83	-363.6	-820.6	259.6	221.0	38.57	6.729		

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	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	5,078.6	5,200.6	5,106.0	23.9	21.5	131.68	-372.2	-839.3	264.5	225.1	39.45	6.707	
5,300.0	5,175.9	5,300.5	5,203.7	24.4	21.9	131.52	-380.8	-858.0	269.5	229.2	40.32	6.685	
5,400.0	5,273.2	5,400.4	5,301.4	24.9	22.4	131.38	-389.3	-876.8	274.5	233.3	41.19	6.664	
5,500.0	5,370.6	5,500.2	5,399.2	25.4	22.9	131.24	-397.9	-895.5	279.5	237.5	42.07	6.645	
5,600.0	5,467.9	5,600.1	5,496.9	25.9	23.3	131.10	-406.4	-914.2	284.5	241.6	42.94	6.626	
5,700.0	5,565.3	5,700.0	5,594.6	26.4	23.8	130.97	-415.0	-933.0	289.5	245.7	43.82	6.607	
5,800.0	5,662.6	5,799.9	5,692.4	26.9	24.2	130.84	-423.6	-951.7	294.5	249.8	44.70	6.590	
5,900.0	5,759.9	5,899.7	5,790.1	27.4	24.7	130.72	-432.1	-970.4	299.5	254.0	45.57	6.573	
6,000.0	5,857.3	5,999.6	5,887.8	27.9	25.2	130.60	-440.7	-989.1	304.5	258.1	46.45	6.557	
6,100.0	5,954.6	6,099.5	5,985.5	28.4	25.6	130.49	-449.2	-1,007.9	309.5	262.2	47.32	6.541	
6,200.0	6,051.9	6,199.4	6,083.3	28.9	26.1	130.38	-457.8	-1,026.6	314.6	266.4	48.20	6.526	
6,300.0	6,149.3	6,299.2	6,181.0	29.4	26.5	130.27	-466.4	-1,045.3	319.6	270.5	49.07	6.512	
6,400.0	6,246.6	6,399.1	6,278.7	29.9	27.0	130.17	-474.9	-1,064.1	324.6	274.6	49.95	6.498	
6,500.0	6,344.4	6,499.0	6,376.5	30.3	27.5	129.87	-483.5	-1,082.8	328.4	277.6	50.80	6.464	
6,600.0	6,442.8	6,595.5	6,471.1	30.6	27.9	129.23	-491.5	-1,100.3	330.3	278.7	51.68	6.392	
6,700.0	6,541.7	6,690.4	6,564.6	30.8	28.1	128.61	-498.1	-1,114.8	331.6	279.2	52.40	6.328	
6,800.0	6,641.2	6,785.4	6,658.7	31.0	28.4	128.01	-503.5	-1,126.5	332.2	279.1	53.03	6.264	
6,900.0	6,740.9	6,880.5	6,753.3	31.2	28.6	127.44	-507.5	-1,135.4	332.1	278.6	53.57	6.200	
7,000.0	6,840.8	6,975.7	6,848.3	31.3	28.7	126.89	-510.3	-1,141.4	331.5	277.4	54.02	6.135	
7,100.0	6,940.8	7,071.0	6,943.5	31.4	28.9	0.09	-511.7	-1,144.6	330.3	286.4	43.85	7.533	
7,181.5	7,022.3	7,149.8	7,022.3	31.5	28.9	0.00	-512.0	-1,145.1	330.0	286.0	44.02	7.498	
7,200.0	7,040.8	7,168.3	7,040.8	31.5	29.0	0.00	-512.0	-1,145.1	330.0	286.0	44.07	7.490	
7,206.8	7,047.6	7,175.1	7,047.6	31.5	29.0	-90.19	-512.0	-1,145.1	330.0	275.4	54.66	6.038	
7,300.0	7,140.5	7,268.1	7,140.6	31.5	29.1	-91.39	-512.0	-1,145.0	330.1	275.0	55.18	5.983	
7,400.0	7,238.2	7,369.3	7,241.4	31.4	29.1	-93.57	-512.0	-1,136.6	330.7	275.0	55.72	5.935	
7,500.0	7,332.0	7,472.5	7,341.8	31.2	29.0	-95.69	-512.1	-1,113.4	331.7	275.8	55.87	5.937	
7,600.0	7,420.1	7,577.5	7,439.5	30.9	28.7	-97.71	-512.2	-1,075.2	333.1	277.5	55.63	5.988	
7,700.0	7,500.8	7,684.5	7,532.2	30.6	28.4	-99.57	-512.4	-1,022.0	334.8	279.7	55.06	6.080	
7,800.0	7,572.5	7,793.3	7,617.3	30.3	28.1	-101.23	-512.6	-954.3	336.5	282.3	54.27	6.202	
7,900.0	7,633.7	7,903.8	7,692.1	30.0	27.8	-102.66	-512.9	-873.1	338.3	284.9	53.43	6.331	
8,000.0	7,683.3	8,015.8	7,754.2	29.7	27.6	-103.81	-513.2	-780.0	339.9	287.1	52.77	6.441	
8,100.0	7,720.2	8,129.0	7,801.4	29.6	27.5	-104.67	-513.5	-677.3	341.2	288.7	52.49	6.499	
8,200.0	7,743.9	8,243.1	7,832.0	29.5	27.7	-105.21	-513.9	-567.5	342.0	289.2	52.78	6.480	
8,300.0	7,753.7	8,357.6	7,844.7	29.6	28.2	-105.41	-514.3	-453.8	342.4	288.6	53.71	6.374	
8,400.0	7,753.7	8,460.7	7,844.7	29.9	28.9	-105.41	-514.6	-350.7	342.4	286.9	55.47	6.172	
8,500.0	7,753.4	8,560.7	7,844.3	30.5	29.9	-105.41	-514.9	-250.7	342.3	284.6	57.73	5.930	
8,600.0	7,753.0	8,660.7	7,844.0	31.4	31.1	-105.40	-515.3	-150.7	342.3	281.9	60.40	5.668	
8,700.0	7,752.7	8,760.7	7,843.6	32.7	32.5	-105.40	-515.6	-50.7	342.3	278.9	63.41	5.398	
8,800.0	7,752.4	8,860.7	7,843.2	34.1	34.2	-105.40	-515.9	49.3	342.3	275.6	66.74	5.129	
8,900.0	7,752.0	8,960.7	7,842.9	35.8	36.0	-105.39	-516.3	149.3	342.3	272.0	70.32	4.868	
9,000.0	7,751.7	9,060.7	7,842.5	37.7	37.9	-105.39	-516.6	249.3	342.3	268.2	74.13	4.618	
9,100.0	7,751.3	9,160.7	7,842.1	39.8	39.9	-105.39	-516.9	349.3	342.3	264.2	78.13	4.381	
9,200.0	7,751.0	9,260.7	7,841.8	41.9	42.1	-105.38	-517.2	449.3	342.3	260.0	82.29	4.160	
9,300.0	7,750.6	9,360.7	7,841.4	44.1	44.3	-105.38	-517.6	549.3	342.3	255.7	86.59	3.953	
9,400.0	7,750.3	9,460.7	7,841.0	46.4	46.6	-105.37	-517.9	649.3	342.3	251.3	91.01	3.761	
9,500.0	7,749.9	9,560.7	7,840.7	48.7	48.9	-105.37	-518.2	749.3	342.3	246.7	95.53	3.583	
9,600.0	7,749.6	9,660.7	7,840.3	51.1	51.3	-105.37	-518.5	849.3	342.3	242.1	100.15	3.418	
9,700.0	7,749.3	9,760.7	7,839.9	53.6	53.8	-105.36	-518.9	949.3	342.3	237.4	104.84	3.265	
9,800.0	7,748.9	9,860.7	7,839.6	56.0	56.2	-105.36	-519.2	1,049.3	342.3	232.7	109.60	3.123	
9,900.0	7,748.6	9,960.7	7,839.2	58.5	58.7	-105.36	-519.5	1,149.3	342.3	227.8	114.41	2.991	
10,000.0	7,748.2	10,060.7	7,838.8	61.1	61.3	-105.35	-519.9	1,249.3	342.3	223.0	119.28	2.869	
10,100.0	7,747.9	10,160.7	7,838.5	63.6	63.8	-105.35	-520.2	1,349.3	342.2	218.0	124.20	2.756	

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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	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
10,200.0	7,747.5	10,260.7	7,838.1	66.2	66.4	-105.34	-520.5	1,449.3	342.2	213.1	129.16	2.650	
10,300.0	7,747.2	10,360.7	7,837.7	68.8	69.0	-105.34	-520.8	1,549.3	342.2	208.1	134.15	2.551	
10,400.0	7,746.8	10,460.7	7,837.4	71.4	71.6	-105.34	-521.2	1,649.3	342.2	203.1	139.17	2.459	
10,500.0	7,746.5	10,560.7	7,837.0	74.0	74.2	-105.33	-521.5	1,749.3	342.2	198.0	144.23	2.373	
10,600.0	7,746.1	10,660.7	7,836.6	76.7	76.8	-105.33	-521.8	1,849.3	342.2	192.9	149.31	2.292	
10,700.0	7,745.8	10,760.7	7,836.3	79.3	79.5	-105.33	-522.2	1,949.3	342.2	187.8	154.41	2.216	
10,800.0	7,745.5	10,860.7	7,835.9	82.0	82.1	-105.32	-522.5	2,049.3	342.2	182.7	159.53	2.145	
10,900.0	7,745.1	10,960.7	7,835.5	84.6	84.8	-105.32	-522.8	2,149.3	342.2	177.5	164.68	2.078	
11,000.0	7,744.8	11,060.7	7,835.1	87.3	87.5	-105.31	-523.1	2,249.3	342.2	172.4	169.84	2.015	
11,100.0	7,744.4	11,160.7	7,834.8	90.0	90.1	-105.31	-523.5	2,349.3	342.2	167.2	175.01	1.955	
11,200.0	7,744.1	11,260.7	7,834.4	92.7	92.8	-105.31	-523.8	2,449.3	342.2	162.0	180.21	1.899	
11,300.0	7,743.7	11,360.7	7,834.0	95.4	95.5	-105.30	-524.1	2,549.3	342.2	156.8	185.41	1.845	
11,400.0	7,743.4	11,460.7	7,833.7	98.1	98.2	-105.30	-524.5	2,649.3	342.2	151.5	190.63	1.795	
11,500.0	7,743.0	11,560.7	7,833.3	100.8	100.9	-105.30	-524.8	2,749.3	342.2	146.3	195.86	1.747	
11,600.0	7,742.7	11,660.7	7,832.9	103.5	103.6	-105.29	-525.1	2,849.3	342.2	141.1	201.10	1.701	
11,700.0	7,742.4	11,760.7	7,832.6	106.2	106.4	-105.29	-525.4	2,949.3	342.1	135.8	206.35	1.658	
11,800.0	7,742.0	11,860.7	7,832.2	108.9	109.1	-105.29	-525.8	3,049.3	342.1	130.5	211.60	1.617	
11,900.0	7,741.7	11,960.7	7,831.8	111.7	111.8	-105.28	-526.1	3,149.3	342.1	125.3	216.87	1.578	
12,000.0	7,741.3	12,060.7	7,831.5	114.4	114.5	-105.28	-526.4	3,249.3	342.1	120.0	222.15	1.540	
12,100.0	7,741.0	12,160.7	7,831.1	117.1	117.3	-105.27	-526.7	3,349.3	342.1	114.7	227.43	1.504	
12,200.0	7,740.6	12,260.7	7,830.7	119.9	120.0	-105.27	-527.1	3,449.3	342.1	109.4	232.71	1.470 Level 3	
12,300.0	7,740.3	12,360.7	7,830.4	122.6	122.7	-105.27	-527.4	3,549.3	342.1	104.1	238.01	1.437 Level 3	
12,400.0	7,739.9	12,460.7	7,830.0	125.3	125.5	-105.26	-527.7	3,649.3	342.1	98.8	243.31	1.406 Level 3	
12,500.0	7,739.6	12,560.7	7,829.6	128.1	128.2	-105.26	-528.1	3,749.3	342.1	93.5	248.62	1.376 Level 3	
12,600.0	7,739.3	12,660.7	7,829.3	130.8	131.0	-105.26	-528.4	3,849.3	342.1	88.2	253.93	1.347 Level 3	
12,653.8	7,739.1	12,714.6	7,829.1	132.3	132.4	-105.25	-528.6	3,903.1	342.1	85.3	256.79	1.332 Level 3	
12,673.2	7,739.0	12,732.5	7,829.0	132.8	132.9	-105.25	-528.6	3,921.0	342.1	84.3	257.78	1.327 Level 3, SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-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										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	3.0	3.0	0.0	0.0	-146.31	-417.5	-278.3	501.7					
100.0	100.0	103.0	103.0	0.1	0.1	-146.31	-417.5	-278.3	501.7	501.5	0.23	2,167.216		
200.0	200.0	203.0	203.0	0.3	0.3	-146.31	-417.5	-278.3	501.7	501.0	0.68	736.710		
300.0	300.0	303.0	303.0	0.5	0.6	-20.06	-417.5	-278.3	500.1	499.0	1.12	446.952		
400.0	399.8	403.0	403.0	0.8	0.8	-20.30	-417.5	-278.3	495.2	493.6	1.56	317.698		
500.0	499.5	508.1	508.0	1.0	1.0	-20.97	-418.0	-276.3	486.4	484.4	2.01	242.013		
600.0	598.7	611.8	611.7	1.3	1.2	-22.29	-419.5	-270.8	473.4	471.0	2.47	191.375		
700.0	697.5	713.8	713.1	1.6	1.5	-24.34	-422.0	-261.7	456.6	453.6	2.97	153.568		
800.0	795.6	813.2	811.8	2.0	1.7	-27.19	-425.2	-249.6	436.5	432.9	3.52	123.915		
900.0	893.1	909.9	907.2	2.5	2.1	-30.84	-429.3	-234.6	414.0	409.9	4.14	99.984		
1,000.0	990.4	1,004.1	999.6	2.9	2.4	-35.14	-434.0	-217.1	392.5	387.6	4.84	81.014		
1,100.0	1,087.8	1,096.3	1,089.7	3.4	2.8	-40.02	-439.2	-198.1	373.5	367.8	5.63	66.303		
1,200.0	1,185.1	1,188.3	1,179.7	3.9	3.2	-45.31	-444.3	-179.2	357.7	351.2	6.48	55.177		
1,300.0	1,282.5	1,280.4	1,269.6	4.4	3.6	-50.97	-449.4	-160.3	345.7	338.3	7.38	46.851		
1,400.0	1,379.8	1,372.5	1,359.5	4.9	4.0	-56.91	-454.5	-141.3	337.7	329.4	8.30	40.710		
1,500.0	1,477.1	1,464.5	1,449.5	5.4	4.4	-63.03	-459.7	-122.4	334.2	325.0	9.21	36.282		
1,527.7	1,504.1	1,490.1	1,474.4	5.5	4.5	-64.74	-461.1	-117.2	334.0	324.6	9.46	35.306		
1,600.0	1,574.5	1,556.6	1,539.4	5.9	4.8	-69.19	-464.8	-103.5	335.2	325.1	10.10	33.193		
1,700.0	1,671.8	1,648.6	1,629.4	6.4	5.2	-75.24	-469.9	-84.5	340.7	329.8	10.94	31.147		
1,800.0	1,769.1	1,740.7	1,719.3	6.9	5.7	-81.07	-475.0	-65.6	350.5	338.8	11.72	29.911		
1,900.0	1,866.5	1,832.8	1,809.3	7.4	6.1	-86.57	-480.2	-46.7	364.3	351.9	12.44	29.294		
2,000.0	1,963.8	1,924.8	1,899.2	7.9	6.5	-91.68	-485.3	-27.8	381.6	368.5	13.09	29.143		
2,100.0	2,061.1	2,016.9	1,989.2	8.4	6.9	-96.37	-490.4	-8.8	401.9	388.2	13.70	29.336		
2,200.0	2,158.5	2,108.9	2,079.1	8.9	7.4	-100.63	-495.5	10.1	424.8	410.6	14.27	29.777		
2,300.0	2,255.8	2,201.0	2,169.1	9.4	7.8	-104.47	-500.7	29.0	450.0	435.2	14.81	30.391		
2,400.0	2,353.2	2,293.1	2,259.0	9.9	8.2	-107.93	-505.8	48.0	477.1	461.7	15.33	31.120		
2,500.0	2,450.5	2,385.1	2,349.0	10.4	8.6	-111.04	-510.9	66.9	505.7	489.9	15.84	31.921		
2,600.0	2,547.8	2,477.2	2,438.9	10.9	9.1	-113.83	-516.0	85.8	535.6	519.3	16.35	32.762		
2,700.0	2,645.2	2,569.2	2,528.9	11.4	9.5	-116.34	-521.2	104.8	566.7	549.8	16.86	33.618		
2,800.0	2,742.5	2,661.3	2,618.8	11.9	9.9	-118.60	-526.3	123.7	598.7	581.3	17.37	34.474		
2,900.0	2,839.8	2,753.4	2,708.8	12.4	10.4	-120.64	-531.4	142.6	631.5	613.6	17.88	35.318		
3,000.0	2,937.2	2,845.4	2,798.7	12.9	10.8	-122.48	-536.5	161.5	664.9	646.5	18.40	36.141		
3,100.0	3,034.5	2,937.5	2,888.6	13.4	11.2	-124.16	-541.7	180.5	699.0	680.0	18.92	36.939		
3,200.0	3,131.8	3,029.5	2,978.6	13.9	11.7	-125.68	-546.8	199.4	733.5	714.1	19.45	37.709		
3,300.0	3,229.2	3,121.6	3,068.5	14.4	12.1	-127.07	-551.9	218.3	768.5	748.5	19.99	38.448		
3,400.0	3,326.5	3,213.7	3,158.5	14.9	12.5	-128.34	-557.0	237.3	803.8	783.3	20.53	39.157		
3,500.0	3,423.9	3,305.7	3,248.4	15.4	13.0	-129.51	-562.2	256.2	839.5	818.4	21.07	39.835		
3,600.0	3,521.2	3,397.8	3,338.4	15.9	13.4	-130.59	-567.3	275.1	875.5	853.8	21.63	40.483		
3,700.0	3,618.5	3,489.8	3,428.3	16.4	13.8	-131.58	-572.4	294.1	911.7	889.5	22.18	41.102		
3,800.0	3,715.9	3,581.9	3,518.3	16.9	14.2	-132.50	-577.5	313.0	948.1	925.4	22.74	41.693		
3,900.0	3,813.2	3,674.0	3,608.2	17.4	14.7	-133.35	-582.7	331.9	984.8	961.5	23.30	42.257		
9,000.0	7,751.7	7,705.9	7,526.7	37.7	33.9	12.44	-899.2	1,156.9	938.7	909.2	29.46	31.860		
9,100.0	7,751.3	7,721.6	7,539.5	39.8	34.0	15.36	-907.9	1,159.7	841.9	809.7	32.26	26.096		
9,200.0	7,751.0	7,736.9	7,551.8	41.9	34.1	18.53	-916.5	1,162.3	745.7	710.1	35.58	20.959		
9,300.0	7,750.6	7,750.0	7,562.2	44.1	34.2	21.50	-924.2	1,164.5	650.2	611.1	39.04	16.653		
9,400.0	7,750.3	7,766.2	7,574.9	46.4	34.3	25.52	-933.9	1,167.2	555.8	512.1	43.73	12.709		
9,500.0	7,749.9	7,780.3	7,585.7	48.7	34.3	29.28	-942.6	1,169.5	463.3	414.8	48.48	9.556		
9,600.0	7,749.6	7,793.9	7,596.0	51.1	34.4	33.17	-951.2	1,171.7	374.1	320.5	53.58	6.981		
9,700.0	7,749.3	7,807.2	7,605.9	53.6	34.5	37.12	-959.8	1,173.8	291.1	232.2	58.93	4.941		
9,800.0	7,748.9	7,820.1	7,615.4	56.0	34.6	41.09	-968.3	1,175.9	221.8	157.4	64.40	3.444		
9,900.0	7,748.6	7,832.6	7,624.4	58.5	34.7	45.01	-976.8	1,177.8	182.3	112.4	69.91	2.608		
9,931.4	7,748.5	7,836.4	7,627.2	59.3	34.7	46.22	-979.4	1,178.4	179.7	108.0	71.62	2.508 CC, ES, 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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-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
10,000.0	7,748.2	7,844.7	7,633.0	61.1	34.8	48.83	-985.1	1,179.6	192.1	116.8	75.34	2.550	
10,100.0	7,747.9	7,856.5	7,641.3	63.6	34.9	52.51	-993.3	1,181.4	245.4	164.7	80.62	3.043	
10,200.0	7,747.5	7,867.9	7,649.1	66.2	34.9	56.01	-1,001.4	1,183.1	321.2	235.5	85.71	3.747	
10,300.0	7,747.2	7,879.0	7,656.7	68.8	35.0	59.32	-1,009.4	1,184.7	407.2	316.6	90.56	4.496	
10,400.0	7,746.8	7,889.7	7,663.8	71.4	35.1	62.40	-1,017.3	1,186.2	498.1	402.9	95.16	5.234	
10,500.0	7,746.5	7,900.0	7,670.6	74.0	35.2	65.22	-1,024.9	1,187.7	591.7	492.2	99.49	5.947	
10,600.0	7,746.1	7,910.3	7,677.2	76.7	35.2	67.92	-1,032.6	1,189.1	686.9	583.3	103.65	6.627	
10,700.0	7,745.8	7,920.1	7,683.5	79.3	35.3	70.36	-1,040.1	1,190.4	783.1	675.6	107.56	7.281	
10,800.0	7,745.5	7,929.7	7,689.4	82.0	35.4	72.59	-1,047.5	1,191.7	880.0	768.8	111.29	7.908	
10,900.0	7,745.1	7,938.9	7,695.1	84.6	35.4	74.64	-1,054.7	1,193.0	977.4	862.6	114.85	8.511	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	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
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	3.0	3.0	0.0	0.0	-145.98	-403.6	-272.4	487.0					
100.0	100.0	103.0	103.0	0.1	0.1	-145.98	-403.6	-272.4	487.0	486.7	0.23	2,103.412		
200.0	200.0	203.2	203.2	0.3	0.3	-145.98	-403.6	-272.4	487.0	486.3	0.68	714.985		
300.0	300.0	309.6	309.5	0.5	0.6	-19.98	-404.1	-270.4	484.6	483.5	1.12	431.670		
400.0	399.8	415.2	415.0	0.8	0.8	-20.93	-405.4	-264.5	477.7	476.2	1.58	302.407		
500.0	499.5	519.5	518.9	1.0	1.1	-22.54	-407.6	-255.1	466.6	464.5	2.08	224.499		
600.0	598.7	621.8	620.3	1.3	1.4	-24.88	-410.6	-242.2	451.6	449.0	2.62	172.290		
700.0	697.5	721.6	718.7	1.6	1.7	-28.02	-414.3	-226.3	433.4	430.2	3.22	134.596		
800.0	795.6	818.2	813.4	2.0	2.1	-32.07	-418.6	-207.7	412.9	409.0	3.89	106.102		
900.0	893.1	911.4	904.1	2.5	2.5	-36.96	-423.4	-186.8	391.6	386.9	4.65	84.141		
1,000.0	990.4	1,002.0	991.8	2.9	3.0	-42.37	-428.5	-164.6	372.9	367.4	5.51	67.716		
1,100.0	1,087.8	1,092.4	1,079.3	3.4	3.5	-48.19	-433.7	-142.4	358.3	351.9	6.41	55.859		
1,200.0	1,185.1	1,182.8	1,166.8	3.9	3.9	-54.35	-438.8	-120.1	348.4	341.1	7.35	47.381		
1,300.0	1,282.5	1,273.3	1,254.3	4.4	4.4	-60.72	-443.9	-97.9	343.6	335.3	8.30	41.425		
1,341.3	1,322.7	1,310.6	1,290.4	4.6	4.6	-63.38	-446.0	-88.7	343.2	334.5	8.68	39.548		
1,400.0	1,379.8	1,363.7	1,341.8	4.9	4.9	-67.16	-449.1	-75.7	344.1	334.9	9.21	37.363		
1,500.0	1,477.1	1,454.1	1,429.3	5.4	5.4	-73.51	-454.2	-53.4	349.8	339.7	10.07	34.734		
1,600.0	1,574.5	1,544.5	1,516.7	5.9	5.9	-79.62	-459.3	-31.2	360.5	349.7	10.87	33.181		
1,700.0	1,671.8	1,634.9	1,604.2	6.4	6.3	-85.37	-464.5	-9.0	375.8	364.2	11.59	32.434		
1,800.0	1,769.1	1,725.3	1,691.7	6.9	6.8	-90.69	-469.6	13.3	395.2	382.9	12.24	32.279		
1,900.0	1,866.5	1,815.8	1,779.2	7.4	7.3	-95.55	-474.7	35.5	418.0	405.2	12.84	32.554		
2,000.0	1,963.8	1,906.2	1,866.7	7.9	7.8	-99.93	-479.9	57.7	443.8	430.4	13.40	33.130		
2,100.0	2,061.1	1,996.6	1,954.2	8.4	8.3	-103.88	-485.0	80.0	472.0	458.1	13.92	33.911		
2,200.0	2,158.5	2,087.0	2,041.7	8.9	8.8	-107.41	-490.1	102.2	502.3	487.9	14.43	34.822		
2,300.0	2,255.8	2,177.4	2,129.2	9.4	9.3	-110.56	-495.3	124.4	534.3	519.4	14.92	35.809		
2,400.0	2,353.2	2,267.8	2,216.7	9.9	9.8	-113.38	-500.4	146.7	567.7	552.3	15.41	36.832		
2,500.0	2,450.5	2,358.2	2,304.1	10.4	10.2	-115.90	-505.5	168.9	602.3	586.4	15.91	37.862		
2,600.0	2,547.8	2,448.7	2,391.6	10.9	10.7	-118.17	-510.7	191.1	637.9	621.5	16.41	38.880		
2,700.0	2,645.2	2,539.1	2,479.1	11.4	11.2	-120.20	-515.8	213.4	674.3	657.4	16.91	39.872		
2,800.0	2,742.5	2,629.5	2,566.6	11.9	11.7	-122.04	-520.9	235.6	711.4	694.0	17.42	40.829		
2,900.0	2,839.8	2,719.9	2,654.1	12.4	12.2	-123.70	-526.1	257.8	749.1	731.2	17.94	41.748		
3,000.0	2,937.2	2,810.3	2,741.6	12.9	12.7	-125.21	-531.2	280.0	787.3	768.8	18.47	42.624		
3,100.0	3,034.5	2,900.7	2,829.1	13.4	13.2	-126.58	-536.3	302.3	826.0	807.0	19.01	43.458		
3,200.0	3,131.8	2,991.2	2,916.6	13.9	13.7	-127.83	-541.5	324.5	865.0	845.5	19.55	44.250		
3,300.0	3,229.2	3,081.6	3,004.1	14.4	14.2	-128.98	-546.6	346.7	904.4	884.3	20.10	45.002		
3,400.0	3,326.5	3,172.0	3,091.6	14.9	14.7	-130.04	-551.7	369.0	944.1	923.4	20.65	45.713		
3,500.0	3,423.9	3,262.4	3,179.0	15.4	15.2	-131.01	-556.9	391.2	984.0	962.8	21.21	46.388		
9,300.0	7,750.6	7,717.1	7,463.7	44.1	39.6	13.04	-917.1	1,480.4	979.0	945.7	33.29	29.411		
9,400.0	7,750.3	7,734.8	7,477.6	46.4	39.7	15.72	-927.4	1,483.9	883.9	847.4	36.45	24.252		
9,500.0	7,749.9	7,750.0	7,489.3	48.7	39.8	18.23	-936.6	1,486.9	789.6	749.9	39.75	19.866		
9,600.0	7,749.6	7,768.4	7,503.2	51.1	39.9	21.51	-948.1	1,490.5	696.4	652.3	44.12	15.784		
9,700.0	7,749.3	7,784.3	7,515.1	53.6	40.0	24.58	-958.3	1,493.5	605.0	556.4	48.57	12.456		
9,800.0	7,748.9	7,800.0	7,526.5	56.0	40.2	27.79	-968.7	1,496.5	516.1	462.6	53.42	9.661		
9,900.0	7,748.6	7,814.5	7,536.9	58.5	40.3	30.90	-978.5	1,499.2	431.4	373.0	58.37	7.391		
10,000.0	7,748.2	7,828.9	7,546.9	61.1	40.4	34.08	-988.4	1,501.7	354.0	290.5	63.57	5.569		
10,100.0	7,747.9	7,842.7	7,556.4	63.6	40.4	37.23	-998.1	1,504.2	290.0	221.1	68.88	4.210		
10,200.0	7,747.5	7,850.0	7,561.4	66.2	40.5	38.93	-1,003.3	1,505.5	249.8	177.3	72.55	3.444		
10,261.1	7,747.3	7,863.9	7,570.7	67.8	40.6	42.16	-1,013.4	1,507.9	242.3	164.9	77.46	3.128 CC, ES		
10,300.0	7,747.2	7,868.8	7,573.9	68.8	40.6	43.31	-1,017.0	1,508.7	245.3	165.8	79.50	3.086 SF		
10,400.0	7,746.8	7,881.2	7,582.0	71.4	40.7	46.19	-1,026.2	1,510.8	278.5	193.8	84.71	3.288		
10,500.0	7,746.5	7,900.0	7,593.9	74.0	40.9	50.48	-1,040.4	1,513.9	338.6	247.1	91.51	3.700		
10,600.0	7,746.1	7,900.0	7,593.9	76.7	40.9	50.48	-1,040.4	1,513.9	413.8	320.2	93.57	4.422		

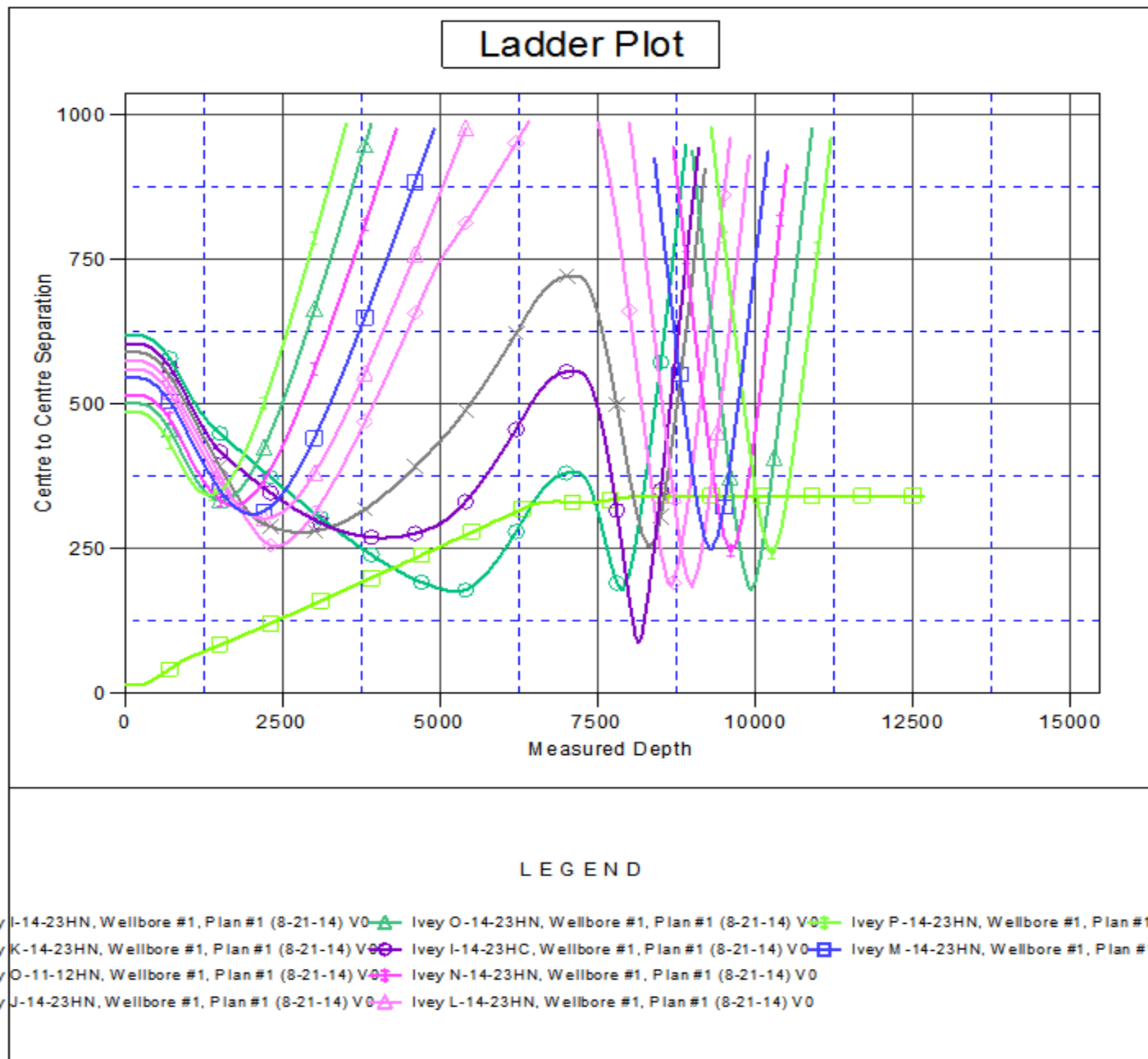
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	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							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)					
10,700.0	7,745.8	7,915.8	7,603.6	79.3	41.0	54.00	-1,052.6	1,516.4	497.4	397.9	99.52	4.998				
10,800.0	7,745.5	7,926.6	7,610.1	82.0	41.0	56.30	-1,061.0	1,518.1	585.9	481.8	104.12	5.627				
10,900.0	7,745.1	7,936.9	7,616.2	84.6	41.1	58.46	-1,069.2	1,519.6	677.4	568.8	108.56	6.240				
11,000.0	7,744.8	7,950.0	7,623.8	87.3	41.2	61.08	-1,079.7	1,521.6	770.8	657.4	113.41	6.797				
11,100.0	7,744.4	7,950.0	7,623.8	90.0	41.2	61.08	-1,079.7	1,521.6	865.5	749.8	115.77	7.477				
11,200.0	7,744.1	7,965.9	7,632.7	92.7	41.3	64.08	-1,092.6	1,523.9	961.1	840.2	120.94	7.947				

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5129.5ft (Original Well Elev) Coordinates are relative to: Ivey P-11-12HN
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 P-11-12HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5129.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5129.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey P-11-12HN	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 (8-21-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5129.5ft (Original Well Elev) Coordinates are relative to: Ivey P-11-12HN
 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°

