

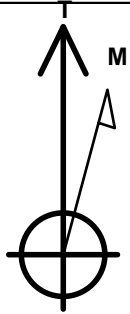
Bayswater Exploration & Production, LLC

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

Surface Location: Ivey Pad Sec.11-T1S-R68W
 North American Datum 1983, US State Plane 1983, Colorado Northern Zone
 Ground Elevation: 5110.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1233722.89 3149478.56 39.973719 -104.966643
 Original Well Elev WELL @ 5132.5ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 617'FSL, 2024'FEL, SEC.11	1.0	0.0	0.0	Point
BHL 2604'FNL, 520'FEL, SEC.23	7832.0	-8528.2	1530.0	Point
LANDING PT. 465'FNL, 520'FEL, SEC.14	7848.0	-1084.8	1505.1	Point



Azimuths to True North
 Magnetic North: 8.52°

Magnetic Field
 Strength: 52560.0srT
 Dip Angle: 66.57°
 Date: 7/10/2014
 Model: IGRF2010

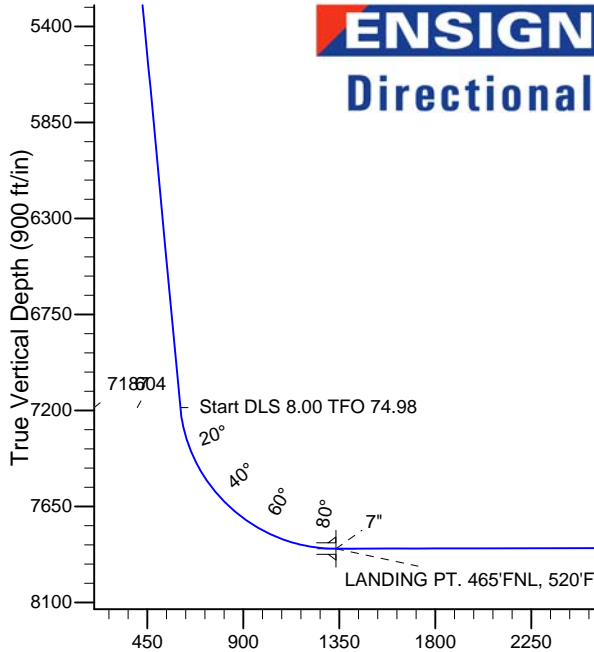
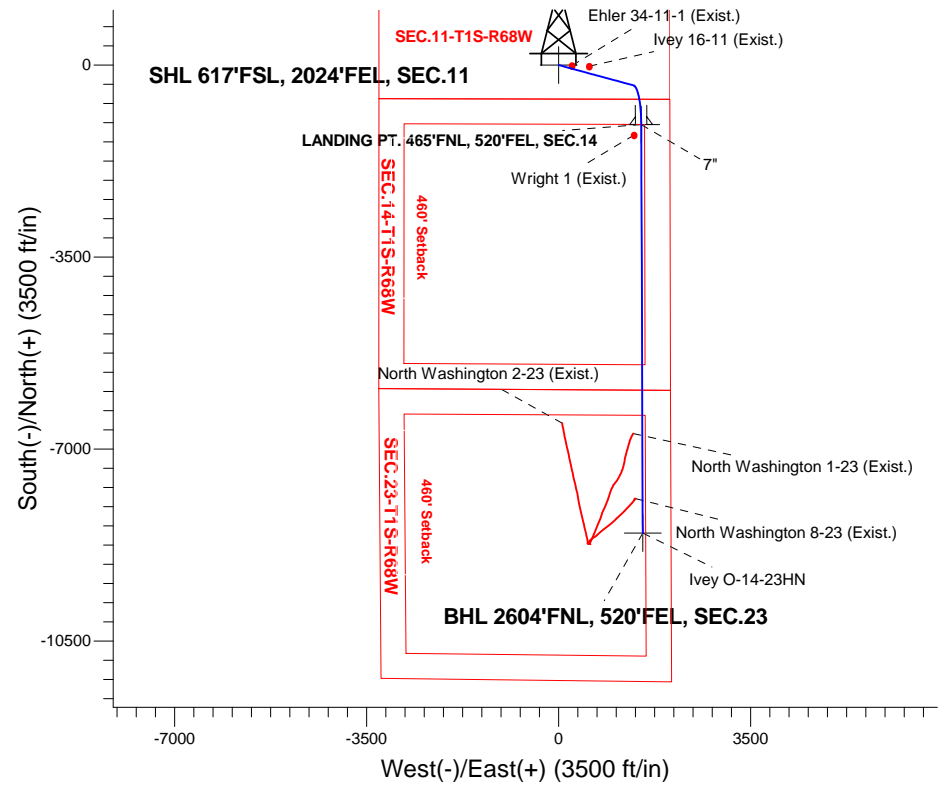
Ivey Pad Sec.11-T1S-R68W
 Ivey O-14-23HN
 Plan #2 (11-5-14)
 16:10, November 07 2014

ANNOTATIONS

TVD	MD	Annotation
400.0	400.0	KOP - Start Build 2.00
7186.7	7336.5	Start DLS 8.00 TFO 74.98
7832.0	15866.0	TD at 15866.0

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

SHL 617'FSL, 2024'FEL, SEC.11



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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1014.9	12.30	105.14	1010.2	-17.2	63.5	2.00	105.14	28.1	
4	7336.5	12.30	105.14	7186.7	-368.7	1363.3	0.00	0.00	603.7	
5	8422.6	90.12	179.80	7848.0	-1084.8	1505.1	8.00	74.98	1333.5	LANDING PT. 465'FNL, 520'FEL, SEC.14
6	8423.5	90.12	179.81	7848.0	-1085.7	1505.1	1.00	70.20	1334.4	
7	15866.0	90.12	179.81	7832.0	-8528.2	1530.0	0.00	0.00	8664.4	BHL 2604'FNL, 520'FEL, SEC.23

BHL 2604'FNL, 520'FEL, SEC.23

Vertical Section at 169.83° (900 ft/in)



Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey O-14-23HN

Wellbore #1

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

Standard Planning Report

07 November, 2014



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-5-14)		

Project	SEC.11-T1S-R68W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

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

Well	Ivey O-14-23HN					
Well Position	+N-S	-558.5 ft	Northing:	1,233,722.89 ft	Latitude:	39.973719
	+E-W	-329.9 ft	Easting:	3,149,478.56 ft	Longitude:	-104.966643
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,110.0 ft

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

Design	Plan #2 (11-5-14)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
	0.0	0.0	0.0	169.83

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,014.9	12.30	105.14	1,010.2	-17.2	63.5	2.00	2.00	0.00	105.14	
7,336.5	12.30	105.14	7,186.7	-368.7	1,363.3	0.00	0.00	0.00	0.00	
8,422.6	90.12	179.80	7,848.0	-1,084.8	1,505.1	8.00	7.17	6.87	74.98	LANDING PT. 465'I
8,423.5	90.12	179.81	7,848.0	-1,085.7	1,505.1	1.00	0.34	0.94	70.20	
15,866.0	90.12	179.81	7,832.0	-8,528.2	1,530.0	0.00	0.00	0.00	0.00	BHL 2604'FNL, 520

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey O-14-23HN
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Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-5-14)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 2.00									
500.0	2.00	105.14	500.0	-0.5	1.7	0.7	2.00	2.00	0.00
600.0	4.00	105.14	599.8	-1.8	6.7	3.0	2.00	2.00	0.00
700.0	6.00	105.14	699.5	-4.1	15.1	6.7	2.00	2.00	0.00
800.0	8.00	105.14	798.7	-7.3	26.9	11.9	2.00	2.00	0.00
900.0	10.00	105.14	897.5	-11.4	42.0	18.6	2.00	2.00	0.00
1,000.0	12.00	105.14	995.6	-16.3	60.4	26.8	2.00	2.00	0.00
1,014.9	12.30	105.14	1,010.2	-17.2	63.5	28.1	2.00	2.00	0.00
1,100.0	12.30	105.14	1,093.3	-21.9	81.0	35.8	0.00	0.00	0.00
1,200.0	12.30	105.14	1,191.0	-27.5	101.5	45.0	0.00	0.00	0.00
1,300.0	12.30	105.14	1,288.7	-33.0	122.1	54.1	0.00	0.00	0.00
1,400.0	12.30	105.14	1,386.5	-38.6	142.6	63.2	0.00	0.00	0.00
1,500.0	12.30	105.14	1,484.2	-44.1	163.2	72.3	0.00	0.00	0.00
1,600.0	12.30	105.14	1,581.9	-49.7	183.8	81.4	0.00	0.00	0.00
1,700.0	12.30	105.14	1,679.6	-55.3	204.3	90.5	0.00	0.00	0.00
1,800.0	12.30	105.14	1,777.3	-60.8	224.9	99.6	0.00	0.00	0.00
1,900.0	12.30	105.14	1,875.0	-66.4	245.4	108.7	0.00	0.00	0.00
2,000.0	12.30	105.14	1,972.7	-72.0	266.0	117.8	0.00	0.00	0.00
2,100.0	12.30	105.14	2,070.4	-77.5	286.6	126.9	0.00	0.00	0.00
2,200.0	12.30	105.14	2,168.1	-83.1	307.1	136.0	0.00	0.00	0.00
2,300.0	12.30	105.14	2,265.8	-88.6	327.7	145.1	0.00	0.00	0.00
2,400.0	12.30	105.14	2,363.5	-94.2	348.3	154.2	0.00	0.00	0.00
2,500.0	12.30	105.14	2,461.2	-99.8	368.8	163.3	0.00	0.00	0.00
2,600.0	12.30	105.14	2,558.9	-105.3	389.4	172.4	0.00	0.00	0.00
2,700.0	12.30	105.14	2,656.6	-110.9	409.9	181.5	0.00	0.00	0.00
2,800.0	12.30	105.14	2,754.3	-116.4	430.5	190.6	0.00	0.00	0.00
2,900.0	12.30	105.14	2,852.0	-122.0	451.1	199.7	0.00	0.00	0.00
3,000.0	12.30	105.14	2,949.7	-127.6	471.6	208.8	0.00	0.00	0.00
3,100.0	12.30	105.14	3,047.4	-133.1	492.2	218.0	0.00	0.00	0.00
3,200.0	12.30	105.14	3,145.1	-138.7	512.8	227.1	0.00	0.00	0.00
3,300.0	12.30	105.14	3,242.8	-144.3	533.3	236.2	0.00	0.00	0.00
3,400.0	12.30	105.14	3,340.6	-149.8	553.9	245.3	0.00	0.00	0.00
3,500.0	12.30	105.14	3,438.3	-155.4	574.4	254.4	0.00	0.00	0.00
3,600.0	12.30	105.14	3,536.0	-160.9	595.0	263.5	0.00	0.00	0.00
3,700.0	12.30	105.14	3,633.7	-166.5	615.6	272.6	0.00	0.00	0.00
3,800.0	12.30	105.14	3,731.4	-172.1	636.1	281.7	0.00	0.00	0.00
3,900.0	12.30	105.14	3,829.1	-177.6	656.7	290.8	0.00	0.00	0.00
4,000.0	12.30	105.14	3,926.8	-183.2	677.2	299.9	0.00	0.00	0.00
4,100.0	12.30	105.14	4,024.5	-188.7	697.8	309.0	0.00	0.00	0.00
4,200.0	12.30	105.14	4,122.2	-194.3	718.4	318.1	0.00	0.00	0.00
4,300.0	12.30	105.14	4,219.9	-199.9	738.9	327.2	0.00	0.00	0.00
4,400.0	12.30	105.14	4,317.6	-205.4	759.5	336.3	0.00	0.00	0.00
4,500.0	12.30	105.14	4,415.3	-211.0	780.1	345.4	0.00	0.00	0.00
4,600.0	12.30	105.14	4,513.0	-216.6	800.6	354.5	0.00	0.00	0.00
4,700.0	12.30	105.14	4,610.7	-222.1	821.2	363.6	0.00	0.00	0.00
4,800.0	12.30	105.14	4,708.4	-227.7	841.7	372.7	0.00	0.00	0.00
4,900.0	12.30	105.14	4,806.1	-233.2	862.3	381.8	0.00	0.00	0.00
5,000.0	12.30	105.14	4,903.8	-238.8	882.9	390.9	0.00	0.00	0.00
5,100.0	12.30	105.14	5,001.5	-244.4	903.4	400.1	0.00	0.00	0.00

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.0	12.30	105.14	5,099.2	-249.9	924.0	409.2	0.00	0.00	0.00
5,300.0	12.30	105.14	5,196.9	-255.5	944.5	418.3	0.00	0.00	0.00
5,400.0	12.30	105.14	5,294.7	-261.0	965.1	427.4	0.00	0.00	0.00
5,500.0	12.30	105.14	5,392.4	-266.6	985.7	436.5	0.00	0.00	0.00
5,600.0	12.30	105.14	5,490.1	-272.2	1,006.2	445.6	0.00	0.00	0.00
5,700.0	12.30	105.14	5,587.8	-277.7	1,026.8	454.7	0.00	0.00	0.00
5,800.0	12.30	105.14	5,685.5	-283.3	1,047.4	463.8	0.00	0.00	0.00
5,900.0	12.30	105.14	5,783.2	-288.9	1,067.9	472.9	0.00	0.00	0.00
6,000.0	12.30	105.14	5,880.9	-294.4	1,088.5	482.0	0.00	0.00	0.00
6,100.0	12.30	105.14	5,978.6	-300.0	1,109.0	491.1	0.00	0.00	0.00
6,200.0	12.30	105.14	6,076.3	-305.5	1,129.6	500.2	0.00	0.00	0.00
6,300.0	12.30	105.14	6,174.0	-311.1	1,150.2	509.3	0.00	0.00	0.00
6,400.0	12.30	105.14	6,271.7	-316.7	1,170.7	518.4	0.00	0.00	0.00
6,500.0	12.30	105.14	6,369.4	-322.2	1,191.3	527.5	0.00	0.00	0.00
6,600.0	12.30	105.14	6,467.1	-327.8	1,211.9	536.6	0.00	0.00	0.00
6,700.0	12.30	105.14	6,564.8	-333.4	1,232.4	545.7	0.00	0.00	0.00
6,800.0	12.30	105.14	6,662.5	-338.9	1,253.0	554.8	0.00	0.00	0.00
6,900.0	12.30	105.14	6,760.2	-344.5	1,273.5	563.9	0.00	0.00	0.00
7,000.0	12.30	105.14	6,857.9	-350.0	1,294.1	573.0	0.00	0.00	0.00
7,100.0	12.30	105.14	6,955.6	-355.6	1,314.7	582.2	0.00	0.00	0.00
7,200.0	12.30	105.14	7,053.3	-361.2	1,335.2	591.3	0.00	0.00	0.00
7,300.0	12.30	105.14	7,151.1	-366.7	1,355.8	600.4	0.00	0.00	0.00
7,336.5	12.30	105.14	7,186.7	-368.8	1,363.3	603.7	0.00	0.00	0.00
Start DLS 8.00 TFO 74.98									
7,400.0	14.46	125.18	7,248.5	-375.1	1,376.3	612.2	8.01	3.41	31.56
7,500.0	20.08	144.68	7,344.0	-396.3	1,396.5	636.7	8.00	5.62	19.50
7,600.0	26.90	155.30	7,435.7	-430.9	1,415.9	674.2	8.00	6.82	10.62
7,700.0	34.21	161.76	7,521.8	-478.3	1,434.2	724.0	8.00	7.30	6.46
7,800.0	41.74	166.15	7,600.6	-537.4	1,451.0	785.2	8.00	7.54	4.39
7,900.0	49.40	169.39	7,670.6	-607.1	1,465.9	856.5	8.00	7.66	3.25
8,000.0	57.13	171.97	7,730.3	-686.2	1,478.8	936.5	8.00	7.73	2.57
8,100.0	64.91	174.12	7,778.8	-772.9	1,489.3	1,023.8	8.00	7.77	2.16
8,200.0	72.71	176.02	7,814.9	-865.8	1,497.3	1,116.5	8.00	7.80	1.90
8,300.0	80.53	177.76	7,838.0	-962.8	1,502.5	1,213.0	8.00	7.82	1.74
8,400.0	88.35	179.43	7,847.7	-1,062.2	1,505.0	1,311.3	8.00	7.83	1.66
8,422.6	90.12	179.80	7,848.0	-1,084.8	1,505.1	1,333.6	7.98	7.81	1.64
7"									
8,423.5	90.12	179.81	7,848.0	-1,085.7	1,505.1	1,334.4	1.05	0.36	0.99
8,500.0	90.12	179.81	7,847.8	-1,162.2	1,505.4	1,409.8	0.00	0.00	0.00
8,600.0	90.12	179.81	7,847.6	-1,262.2	1,505.7	1,508.3	0.00	0.00	0.00
8,700.0	90.12	179.81	7,847.4	-1,362.2	1,506.0	1,606.8	0.00	0.00	0.00
8,800.0	90.12	179.81	7,847.2	-1,462.2	1,506.4	1,705.2	0.00	0.00	0.00
8,900.0	90.12	179.81	7,847.0	-1,562.2	1,506.7	1,803.7	0.00	0.00	0.00
9,000.0	90.12	179.81	7,846.8	-1,662.2	1,507.0	1,902.2	0.00	0.00	0.00
9,100.0	90.12	179.81	7,846.5	-1,762.2	1,507.4	2,000.7	0.00	0.00	0.00
9,200.0	90.12	179.81	7,846.3	-1,862.2	1,507.7	2,099.2	0.00	0.00	0.00
9,300.0	90.12	179.81	7,846.1	-1,962.2	1,508.0	2,197.7	0.00	0.00	0.00
9,400.0	90.12	179.81	7,845.9	-2,062.2	1,508.4	2,296.2	0.00	0.00	0.00
9,500.0	90.12	179.81	7,845.7	-2,162.2	1,508.7	2,394.7	0.00	0.00	0.00
9,600.0	90.12	179.81	7,845.5	-2,262.2	1,509.1	2,493.1	0.00	0.00	0.00
9,700.0	90.12	179.81	7,845.3	-2,362.2	1,509.4	2,591.6	0.00	0.00	0.00
9,800.0	90.12	179.81	7,845.0	-2,462.2	1,509.7	2,690.1	0.00	0.00	0.00
9,900.0	90.12	179.81	7,844.8	-2,562.2	1,510.1	2,788.6	0.00	0.00	0.00
10,000.0	90.12	179.81	7,844.6	-2,662.2	1,510.4	2,887.1	0.00	0.00	0.00

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Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-5-14)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,100.0	90.12	179.81	7,844.4	-2,762.2	1,510.7	2,985.6	0.00	0.00	0.00
10,200.0	90.12	179.81	7,844.2	-2,862.2	1,511.1	3,084.1	0.00	0.00	0.00
10,300.0	90.12	179.81	7,844.0	-2,962.2	1,511.4	3,182.5	0.00	0.00	0.00
10,400.0	90.12	179.81	7,843.7	-3,062.2	1,511.7	3,281.0	0.00	0.00	0.00
10,500.0	90.12	179.81	7,843.5	-3,162.2	1,512.1	3,379.5	0.00	0.00	0.00
10,600.0	90.12	179.81	7,843.3	-3,262.2	1,512.4	3,478.0	0.00	0.00	0.00
10,700.0	90.12	179.81	7,843.1	-3,362.2	1,512.7	3,576.5	0.00	0.00	0.00
10,800.0	90.12	179.81	7,842.9	-3,462.2	1,513.1	3,675.0	0.00	0.00	0.00
10,900.0	90.12	179.81	7,842.7	-3,562.2	1,513.4	3,773.5	0.00	0.00	0.00
11,000.0	90.12	179.81	7,842.5	-3,662.2	1,513.7	3,872.0	0.00	0.00	0.00
11,100.0	90.12	179.81	7,842.2	-3,762.2	1,514.1	3,970.4	0.00	0.00	0.00
11,200.0	90.12	179.81	7,842.0	-3,862.2	1,514.4	4,068.9	0.00	0.00	0.00
11,300.0	90.12	179.81	7,841.8	-3,962.2	1,514.7	4,167.4	0.00	0.00	0.00
11,400.0	90.12	179.81	7,841.6	-4,062.2	1,515.1	4,265.9	0.00	0.00	0.00
11,500.0	90.12	179.81	7,841.4	-4,162.2	1,515.4	4,364.4	0.00	0.00	0.00
11,600.0	90.12	179.81	7,841.2	-4,262.2	1,515.7	4,462.9	0.00	0.00	0.00
11,700.0	90.12	179.81	7,841.0	-4,362.2	1,516.1	4,561.4	0.00	0.00	0.00
11,800.0	90.12	179.81	7,840.7	-4,462.2	1,516.4	4,659.9	0.00	0.00	0.00
11,900.0	90.12	179.81	7,840.5	-4,562.2	1,516.7	4,758.3	0.00	0.00	0.00
12,000.0	90.12	179.81	7,840.3	-4,662.2	1,517.1	4,856.8	0.00	0.00	0.00
12,100.0	90.12	179.81	7,840.1	-4,762.2	1,517.4	4,955.3	0.00	0.00	0.00
12,200.0	90.12	179.81	7,839.9	-4,862.2	1,517.7	5,053.8	0.00	0.00	0.00
12,300.0	90.12	179.81	7,839.7	-4,962.2	1,518.1	5,152.3	0.00	0.00	0.00
12,400.0	90.12	179.81	7,839.5	-5,062.2	1,518.4	5,250.8	0.00	0.00	0.00
12,500.0	90.12	179.81	7,839.2	-5,162.2	1,518.7	5,349.3	0.00	0.00	0.00
12,600.0	90.12	179.81	7,839.0	-5,262.2	1,519.1	5,447.7	0.00	0.00	0.00
12,700.0	90.12	179.81	7,838.8	-5,362.2	1,519.4	5,546.2	0.00	0.00	0.00
12,800.0	90.12	179.81	7,838.6	-5,462.2	1,519.7	5,644.7	0.00	0.00	0.00
12,900.0	90.12	179.81	7,838.4	-5,562.2	1,520.1	5,743.2	0.00	0.00	0.00
13,000.0	90.12	179.81	7,838.2	-5,662.2	1,520.4	5,841.7	0.00	0.00	0.00
13,100.0	90.12	179.81	7,837.9	-5,762.2	1,520.7	5,940.2	0.00	0.00	0.00
13,200.0	90.12	179.81	7,837.7	-5,862.2	1,521.1	6,038.7	0.00	0.00	0.00
13,300.0	90.12	179.81	7,837.5	-5,962.2	1,521.4	6,137.2	0.00	0.00	0.00
13,400.0	90.12	179.81	7,837.3	-6,062.2	1,521.7	6,235.6	0.00	0.00	0.00
13,500.0	90.12	179.81	7,837.1	-6,162.2	1,522.1	6,334.1	0.00	0.00	0.00
13,600.0	90.12	179.81	7,836.9	-6,262.2	1,522.4	6,432.6	0.00	0.00	0.00
13,700.0	90.12	179.81	7,836.7	-6,362.2	1,522.7	6,531.1	0.00	0.00	0.00
13,800.0	90.12	179.81	7,836.4	-6,462.2	1,523.1	6,629.6	0.00	0.00	0.00
13,900.0	90.12	179.81	7,836.2	-6,562.2	1,523.4	6,728.1	0.00	0.00	0.00
14,000.0	90.12	179.81	7,836.0	-6,662.2	1,523.7	6,826.6	0.00	0.00	0.00
14,100.0	90.12	179.81	7,835.8	-6,762.2	1,524.1	6,925.0	0.00	0.00	0.00
14,200.0	90.12	179.81	7,835.6	-6,862.2	1,524.4	7,023.5	0.00	0.00	0.00
14,300.0	90.12	179.81	7,835.4	-6,962.2	1,524.7	7,122.0	0.00	0.00	0.00
14,400.0	90.12	179.81	7,835.2	-7,062.2	1,525.1	7,220.5	0.00	0.00	0.00
14,500.0	90.12	179.81	7,834.9	-7,162.2	1,525.4	7,319.0	0.00	0.00	0.00
14,600.0	90.12	179.81	7,834.7	-7,262.2	1,525.7	7,417.5	0.00	0.00	0.00
14,700.0	90.12	179.81	7,834.5	-7,362.2	1,526.1	7,516.0	0.00	0.00	0.00
14,800.0	90.12	179.81	7,834.3	-7,462.2	1,526.4	7,614.5	0.00	0.00	0.00
14,900.0	90.12	179.81	7,834.1	-7,562.2	1,526.7	7,712.9	0.00	0.00	0.00
15,000.0	90.12	179.81	7,833.9	-7,662.2	1,527.1	7,811.4	0.00	0.00	0.00
15,100.0	90.12	179.81	7,833.6	-7,762.2	1,527.4	7,909.9	0.00	0.00	0.00
15,200.0	90.12	179.81	7,833.4	-7,862.2	1,527.7	8,008.4	0.00	0.00	0.00
15,300.0	90.12	179.81	7,833.2	-7,962.2	1,528.1	8,106.9	0.00	0.00	0.00
15,400.0	90.12	179.81	7,833.0	-8,062.2	1,528.4	8,205.4	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Project:	SEC.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site:	Ivey Pad Sec.11-T1S-R68W	North Reference:	True
Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (11-5-14)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,500.0	90.12	179.81	7,832.8	-8,162.2	1,528.7	8,303.9	0.00	0.00	0.00	
15,600.0	90.12	179.81	7,832.6	-8,262.2	1,529.1	8,402.3	0.00	0.00	0.00	
15,700.0	90.12	179.81	7,832.4	-8,362.2	1,529.4	8,500.8	0.00	0.00	0.00	
15,800.0	90.12	179.81	7,832.1	-8,462.2	1,529.7	8,599.3	0.00	0.00	0.00	
15,866.0	90.12	179.81	7,832.0	-8,528.2	1,530.0	8,664.3	0.00	0.00	0.00	
TD at 15866.0										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
BHL 2604'FNL, 520'FI - plan hits target center - Point	0.00	0.00	7,832.0	-8,528.2	1,530.0	1,225,204.32	3,151,059.74	39.950308	-104.961186	
LANDING PT. 465'FN - plan hits target center - Point	0.00	0.00	7,848.0	-1,084.8	1,505.1	1,232,647.21	3,150,990.13	39.970741	-104.961273	
SHL 617'FSL, 2024'FI - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,233,722.90	3,149,478.56	39.973719	-104.966643	

Casing Points							
Measured Depth (ft)	Vertical Depth (ft)	Name			Casing Diameter (")	Hole Diameter (")	
8,422.6	7,848.0	7"			7	7-1/2	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP - Start Build 2.00	
7,336.5	7,186.7	-368.8	1,363.3	Start DLS 8.00 TFO 74.98	
15,866.0	7,832.0	-8,528.2	1,530.0	TD at 15866.0	



Directional

Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W

Ivey Pad Sec.11-T1S-R68W

Ivey O-14-23HN

Wellbore #1

Plan #2 (11-5-14)

Anticollision Report

07 November, 2014



**BAYSWATER
EXPLORATION & PRODUCTION, LLC**

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (11-5-14)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	11/5/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	15,865.8	Plan #2 (11-5-14) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Existing Pad Sec.11-T1S-R68W						
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	1,815.9	1,758.3	57.9	16.7	1.407	Level 3, CC, ES, SF
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	3,259.8	3,171.0	125.2	49.1	1.644	CC
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	3,300.0	3,210.3	125.5	48.4	1.628	ES
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	3,400.0	3,308.1	128.7	49.5	1.625	SF
Wright 1 (Exist.) - Wellbore #1 - Wellbore #1	8,610.1	7,826.1	130.4	-57.7	0.693	Level 1, CC, ES, SF
Ivey Pad Sec.11-T1S-R68W						
Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)	400.0	400.0	30.0	28.4	19.052	CC
Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)	500.0	500.0	30.3	28.2	15.067	ES
Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)	15,866.0	15,920.8	519.4	202.6	1.640	SF
Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	400.0	400.0	14.9	13.4	9.492	CC
Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	500.0	500.0	15.2	13.2	7.593	ES
Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	15,866.0	15,717.4	342.1	26.0	1.082	Level 2, SF
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	1,488.9	1,515.3	406.9	398.1	46.266	CC
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	1,500.0	1,525.5	406.9	398.0	45.800	ES
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	7,700.0	9,969.7	494.1	415.0	6.248	SF
Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	7,836.5	9,931.3	179.4	107.8	2.506	CC, ES, SF
Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	200.0	200.0	15.0	14.4	22.302	CC
Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	300.0	299.9	15.4	14.3	13.886	ES
Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	15,866.0	15,844.5	342.0	20.8	1.065	Level 2, SF
North Washington Pad SEC.23-T1S-R68W						
North Washington 1-23 (Exist.) - Wellbore #1 North Was	14,128.4	8,217.1	207.4	37.9	1.224	Level 2, CC, ES, SF
North Washington 2-23 (Exist.) - North Washington 2-23						Out of range
North Washington 8-23 (Exist.) - Wellbore #1 N Washing	15,240.5	8,050.4	140.2	-33.9	0.805	Level 1, CC, ES, SF

Offset Design													Offset Site Error:	0.0ft
Existing Pad Sec.11-T1S-R68W - Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1													Offset Well Error:	0.0ft
Survey Program: 8707-UNKNOWN														
Reference	Offset	Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	91.37	-5.8	243.3	245.8					
100.0	100.0	65.5	65.5	0.1	1.3	91.37	-5.8	243.3	243.3	241.9	1.42	171.059		
200.0	200.0	165.5	165.5	0.3	3.3	91.37	-5.8	243.3	243.3	239.7	3.65	66.718		
300.0	300.0	265.5	265.5	0.6	5.3	91.37	-5.8	243.3	243.3	237.5	5.87	41.441		

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Existing Pad Sec.11-T1S-R68W - Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0ft
Survey Program: 8707-UNKNOWN														Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
400.0	400.0	365.5	365.5	0.8	7.3	91.37	-5.8	243.3	243.3	235.2	8.10	30.054			
500.0	500.0	465.5	465.5	1.0	9.3	-13.87	-5.8	243.3	241.7	231.4	10.30	23.461			
600.0	599.8	565.3	565.3	1.2	11.3	-14.20	-5.8	243.3	236.6	224.1	12.48	18.958			
700.0	699.5	665.0	665.0	1.4	13.3	-14.78	-5.8	243.3	228.1	213.5	14.64	15.582			
800.0	798.7	764.2	764.2	1.7	15.3	-15.67	-5.8	243.3	216.4	199.6	16.78	12.897			
900.0	897.5	863.0	863.0	2.0	17.3	-16.95	-5.8	243.3	201.3	182.5	18.88	10.662			
1,000.0	995.6	961.1	961.1	2.4	19.2	-18.81	-5.8	243.3	183.1	162.2	20.96	8.737			
1,100.0	1,093.3	1,058.8	1,058.8	2.8	21.2	-21.23	-5.8	243.3	163.1	140.0	23.15	7.046			
1,200.0	1,191.0	1,156.5	1,156.5	3.2	23.1	-24.31	-5.8	243.3	143.4	118.0	25.40	5.646			
1,300.0	1,288.7	1,254.2	1,254.2	3.7	25.1	-28.33	-5.8	243.3	124.2	96.5	27.69	4.485			
1,400.0	1,386.5	1,352.0	1,352.0	4.1	27.0	-33.78	-5.8	243.3	105.8	75.8	30.07	3.520			
1,500.0	1,484.2	1,449.7	1,449.7	4.6	29.0	-41.37	-5.8	243.3	88.8	56.2	32.57	2.726			
1,600.0	1,581.9	1,547.4	1,547.4	5.0	30.9	-52.18	-5.8	243.3	73.9	38.7	35.25	2.098			
1,700.0	1,679.6	1,645.1	1,645.1	5.5	32.9	-67.38	-5.8	243.3	62.9	24.9	38.07	1.653			
1,800.0	1,777.3	1,742.8	1,742.8	5.9	34.9	-86.73	-5.8	243.3	58.0	17.2	40.77	1.422 Level 3			
1,815.9	1,792.8	1,758.3	1,758.3	6.0	35.2	-90.00	-5.8	243.3	57.9	16.7	41.16	1.407 Level 3, CC, ES, SF			
1,900.0	1,875.0	1,840.5	1,840.5	6.4	36.8	-106.82	-5.8	243.3	60.6	17.6	42.96	1.411 Level 3			
2,000.0	1,972.7	1,938.2	1,938.2	6.8	38.8	-123.50	-5.8	243.3	69.9	25.2	44.71	1.564			
2,100.0	2,070.4	2,035.9	2,035.9	7.3	40.7	-135.60	-5.8	243.3	83.7	37.4	46.39	1.805			
2,200.0	2,168.1	2,133.6	2,133.6	7.8	42.7	-144.09	-5.8	243.3	100.2	52.1	48.17	2.081			
2,300.0	2,265.8	2,231.3	2,231.3	8.2	44.6	-150.12	-5.8	243.3	118.3	68.2	50.05	2.363			
2,400.0	2,363.5	2,329.0	2,329.0	8.7	46.6	-154.53	-5.8	243.3	137.2	85.2	52.02	2.638			
2,500.0	2,461.2	2,426.7	2,426.7	9.2	48.5	-157.87	-5.8	243.3	156.8	102.7	54.05	2.901			
2,600.0	2,558.9	2,524.4	2,524.4	9.6	50.5	-160.47	-5.8	243.3	176.8	120.6	56.12	3.150			
2,700.0	2,656.6	2,622.1	2,622.1	10.1	52.4	-162.53	-5.8	243.3	197.0	138.8	58.21	3.384			
2,800.0	2,754.3	2,719.8	2,719.8	10.6	54.4	-164.22	-5.8	243.3	217.5	157.1	60.32	3.605			
2,900.0	2,852.0	2,817.5	2,817.5	11.0	56.4	-165.61	-5.8	243.3	238.1	175.6	62.45	3.812			
3,000.0	2,949.7	2,915.2	2,915.2	11.5	58.3	-166.78	-5.8	243.3	258.8	194.2	64.59	4.007			
3,100.0	3,047.4	3,012.9	3,012.9	12.0	60.3	-167.78	-5.8	243.3	279.6	212.8	66.73	4.190			
3,200.0	3,145.1	3,110.6	3,110.6	12.5	62.2	-168.64	-5.8	243.3	300.5	231.6	68.88	4.362			
3,300.0	3,242.8	3,208.3	3,208.3	12.9	64.2	-169.38	-5.8	243.3	321.4	250.3	71.04	4.524			
3,400.0	3,340.6	3,306.1	3,306.1	13.4	66.1	-170.04	-5.8	243.3	342.4	269.2	73.20	4.677			
3,500.0	3,438.3	3,403.8	3,403.8	13.9	68.1	-170.62	-5.8	243.3	363.4	288.0	75.36	4.822			
3,600.0	3,536.0	3,501.5	3,501.5	14.3	70.0	-171.14	-5.8	243.3	384.4	306.9	77.52	4.959			
3,700.0	3,633.7	3,599.2	3,599.2	14.8	72.0	-171.60	-5.8	243.3	405.5	325.8	79.69	5.088			
3,800.0	3,731.4	3,696.9	3,696.9	15.3	73.9	-172.02	-5.8	243.3	426.6	344.7	81.86	5.211			
3,900.0	3,829.1	3,794.6	3,794.6	15.7	75.9	-172.40	-5.8	243.3	447.7	363.7	84.02	5.328			
4,000.0	3,926.8	3,892.3	3,892.3	16.2	77.8	-172.74	-5.8	243.3	468.8	382.6	86.20	5.439			
4,100.0	4,024.5	3,990.0	3,990.0	16.7	79.8	-173.06	-5.8	243.3	490.0	401.6	88.37	5.545			
4,200.0	4,122.2	4,087.7	4,087.7	17.2	81.8	-173.34	-5.8	243.3	511.1	420.6	90.54	5.645			
4,300.0	4,219.9	4,185.4	4,185.4	17.6	83.7	-173.61	-5.8	243.3	532.3	439.6	92.71	5.741			
4,400.0	4,317.6	4,283.1	4,283.1	18.1	85.7	-173.86	-5.8	243.3	553.5	458.6	94.88	5.833			
4,500.0	4,415.3	4,380.8	4,380.8	18.6	87.6	-174.08	-5.8	243.3	574.7	477.6	97.06	5.921			
4,600.0	4,513.0	4,478.5	4,478.5	19.0	89.6	-174.29	-5.8	243.3	595.8	496.6	99.23	6.005			
4,700.0	4,610.7	4,576.2	4,576.2	19.5	91.5	-174.49	-5.8	243.3	617.1	515.6	101.41	6.085			
4,800.0	4,708.4	4,673.9	4,673.9	20.0	93.5	-174.67	-5.8	243.3	638.3	534.7	103.58	6.162			
4,900.0	4,806.1	4,771.6	4,771.6	20.5	95.4	-174.85	-5.8	243.3	659.5	553.7	105.76	6.236			
5,000.0	4,903.8	4,869.3	4,869.3	20.9	97.4	-175.01	-5.8	243.3	680.7	572.8	107.93	6.307			
5,100.0	5,001.5	4,967.0	4,967.0	21.4	99.3	-175.16	-5.8	243.3	701.9	591.8	110.11	6.375			
5,200.0	5,099.2	5,064.7	5,064.7	21.9	101.3	-175.30	-5.8	243.3	723.2	610.9	112.29	6.440			
5,300.0	5,196.9	5,162.4	5,162.4	22.3	103.2	-175.43	-5.8	243.3	744.4	629.9	114.46	6.503			
5,400.0	5,294.7	5,260.2	5,260.2	22.8	105.2	-175.56	-5.8	243.3	765.6	649.0	116.64	6.564			

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Existing Pad Sec.11-T1S-R68W - Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1													Offset Well Error:	0.0 ft
Survey Program: 8707-UNKNOWN														
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		
5,500.0	5,392.4	5,357.9	5,357.9	23.3	107.2	-175.68	-5.8	243.3	786.9	668.0	118.82	6.622		
5,600.0	5,490.1	5,455.6	5,455.6	23.7	109.1	-175.80	-5.8	243.3	808.1	687.1	121.00	6.679		
5,700.0	5,587.8	5,553.3	5,553.3	24.2	111.1	-175.90	-5.8	243.3	829.4	706.2	123.17	6.733		
5,800.0	5,685.5	5,651.0	5,651.0	24.7	113.0	-176.01	-5.8	243.3	850.6	725.3	125.35	6.786		
5,900.0	5,783.2	5,748.7	5,748.7	25.2	115.0	-176.10	-5.8	243.3	871.9	744.3	127.53	6.837		
6,000.0	5,880.9	5,846.4	5,846.4	25.6	116.9	-176.20	-5.8	243.3	893.1	763.4	129.71	6.886		
6,100.0	5,978.6	5,944.1	5,944.1	26.1	118.9	-176.28	-5.8	243.3	914.4	782.5	131.89	6.933		
6,200.0	6,076.3	6,041.8	6,041.8	26.6	120.8	-176.37	-5.8	243.3	935.6	801.6	134.06	6.979		
6,300.0	6,174.0	6,139.5	6,139.5	27.0	122.8	-176.45	-5.8	243.3	956.9	820.7	136.24	7.023		
6,400.0	6,271.7	6,237.2	6,237.2	27.5	124.7	-176.53	-5.8	243.3	978.2	839.7	138.42	7.067		
6,500.0	6,369.4	6,334.9	6,334.9	28.0	126.7	-176.60	-5.8	243.3	999.4	858.8	140.60	7.108		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 8250-UNKNOWN													Offset Well Error:	0.0 ft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	92.17	-21.1	557.7	559.1					
100.0	100.0	67.5	67.5	0.1	1.4	92.17	-21.1	557.7	558.1	556.7	1.46	381.613		
200.0	200.0	167.5	167.5	0.3	3.4	92.17	-21.1	557.7	558.1	554.5	3.69	151.366		
300.0	300.0	267.5	267.5	0.6	5.4	92.17	-21.1	557.7	558.1	552.2	5.91	94.406		
400.0	400.0	367.5	367.5	0.8	7.4	92.17	-21.1	557.7	558.1	550.0	8.14	68.594		
500.0	500.0	467.5	467.5	1.0	9.3	-13.01	-21.1	557.7	556.4	546.1	10.34	53.813		
600.0	599.8	567.3	567.3	1.2	11.3	-13.16	-21.1	557.7	551.3	538.8	12.52	44.042		
700.0	699.5	667.0	667.0	1.4	13.3	-13.41	-21.1	557.7	542.9	528.2	14.68	36.982		
800.0	798.7	766.2	766.2	1.7	15.3	-13.77	-21.1	557.7	531.0	514.2	16.81	31.585		
900.0	897.5	865.0	865.0	2.0	17.3	-14.26	-21.1	557.7	515.8	496.9	18.91	27.276		
1,000.0	995.6	963.1	963.1	2.4	19.3	-14.90	-21.1	557.7	497.3	476.4	20.97	23.715		
1,100.0	1,093.3	1,060.8	1,060.8	2.8	21.2	-15.57	-21.1	557.7	476.8	453.7	23.13	20.614		
1,200.0	1,191.0	1,158.5	1,158.5	3.2	23.2	-16.29	-21.1	557.7	456.3	430.9	25.32	18.021		
1,300.0	1,288.7	1,256.2	1,256.2	3.7	25.1	-17.07	-21.1	557.7	435.8	408.3	27.52	15.838		
1,400.0	1,386.5	1,354.0	1,354.0	4.1	27.1	-17.93	-21.1	557.7	415.5	385.7	29.73	13.976		
1,500.0	1,484.2	1,451.7	1,451.7	4.6	29.0	-18.88	-21.1	557.7	395.2	363.3	31.95	12.371		
1,600.0	1,581.9	1,549.4	1,549.4	5.0	31.0	-19.93	-21.1	557.7	375.1	340.9	34.18	10.974		
1,700.0	1,679.6	1,647.1	1,647.1	5.5	32.9	-21.10	-21.1	557.7	355.1	318.6	36.42	9.748		
1,800.0	1,777.3	1,744.8	1,744.8	5.9	34.9	-22.40	-21.1	557.7	335.2	296.5	38.68	8.665		
1,900.0	1,875.0	1,842.5	1,842.5	6.4	36.8	-23.87	-21.1	557.7	315.6	274.6	40.96	7.703		
2,000.0	1,972.7	1,940.2	1,940.2	6.8	38.8	-25.53	-21.1	557.7	296.1	252.9	43.27	6.844		
2,100.0	2,070.4	2,037.9	2,037.9	7.3	40.8	-27.42	-21.1	557.7	277.0	231.4	45.60	6.074		
2,200.0	2,168.1	2,135.6	2,135.6	7.8	42.7	-29.59	-21.1	557.7	258.1	210.2	47.96	5.382		
2,300.0	2,265.8	2,233.3	2,233.3	8.2	44.7	-32.09	-21.1	557.7	239.7	189.4	50.37	4.760		
2,400.0	2,363.5	2,331.0	2,331.0	8.7	46.6	-34.99	-21.1	557.7	221.9	169.0	52.83	4.199		
2,500.0	2,461.2	2,428.7	2,428.7	9.2	48.6	-38.38	-21.1	557.7	204.6	149.3	55.36	3.697		
2,600.0	2,558.9	2,526.4	2,526.4	9.6	50.5	-42.37	-21.1	557.7	188.2	130.3	57.96	3.248		
2,700.0	2,656.6	2,624.1	2,624.1	10.1	52.5	-47.07	-21.1	557.7	172.9	112.3	60.65	2.851		
2,800.0	2,754.3	2,721.8	2,721.8	10.6	54.4	-52.62	-21.1	557.7	159.0	95.5	63.43	2.506		
2,900.0	2,852.0	2,819.5	2,819.5	11.0	56.4	-59.13	-21.1	557.7	146.8	80.5	66.28	2.215		
3,000.0	2,949.7	2,917.2	2,917.2	11.5	58.3	-66.65	-21.1	557.7	136.9	67.7	69.17	1.979		
3,100.0	3,047.4	3,014.9	3,014.9	12.0	60.3	-75.13	-21.1	557.7	129.8	57.8	72.00	1.802		
3,200.0	3,145.1	3,112.6	3,112.6	12.5	62.3	-84.33	-21.1	557.7	125.9	51.2	74.67	1.686		
3,259.8	3,203.5	3,171.0	3,171.0	12.7	63.4	-90.00	-21.1	557.7	125.2	49.1	76.15	1.644 CC		
3,300.0	3,242.8	3,210.3	3,210.3	12.9	64.2	-93.83	-21.1	557.7	125.5	48.4	77.09	1.628 ES		
3,400.0	3,340.6	3,308.1	3,308.1	13.4	66.2	-103.12	-21.1	557.7	128.7	49.5	79.22	1.625 SF		
3,500.0	3,438.3	3,405.8	3,405.8	13.9	68.1	-111.76	-21.1	557.7	135.3	54.2	81.09	1.668		
3,600.0	3,536.0	3,503.5	3,503.5	14.3	70.1	-119.48	-21.1	557.7	144.7	61.9	82.81	1.747		
3,700.0	3,633.7	3,601.2	3,601.2	14.8	72.0	-126.19	-21.1	557.7	156.5	72.0	84.46	1.852		
3,800.0	3,731.4	3,698.9	3,698.9	15.3	74.0	-131.92	-21.1	557.7	170.1	84.0	86.10	1.975		
3,900.0	3,829.1	3,796.6	3,796.6	15.7	75.9	-136.78	-21.1	557.7	185.2	97.4	87.78	2.109		
4,000.0	3,926.8	3,894.3	3,894.3	16.2	77.9	-140.89	-21.1	557.7	201.4	111.9	89.51	2.250		
4,100.0	4,024.5	3,992.0	3,992.0	16.7	79.8	-144.39	-21.1	557.7	218.4	127.1	91.30	2.393		
4,200.0	4,122.2	4,089.7	4,089.7	17.2	81.8	-147.38	-21.1	557.7	236.2	143.1	93.14	2.536		
4,300.0	4,219.9	4,187.4	4,187.4	17.6	83.7	-149.95	-21.1	557.7	254.5	159.5	95.03	2.678		
4,400.0	4,317.6	4,285.1	4,285.1	18.1	85.7	-152.18	-21.1	557.7	273.3	176.3	96.96	2.818		
4,500.0	4,415.3	4,382.8	4,382.8	18.6	87.7	-154.12	-21.1	557.7	292.4	193.4	98.92	2.955		
4,600.0	4,513.0	4,480.5	4,480.5	19.0	89.6	-155.82	-21.1	557.7	311.7	210.8	100.92	3.089		
4,700.0	4,610.7	4,578.2	4,578.2	19.5	91.6	-157.32	-21.1	557.7	331.4	228.4	102.94	3.219		
4,800.0	4,708.4	4,675.9	4,675.9	20.0	93.5	-158.66	-21.1	557.7	351.2	246.2	104.98	3.345		
4,900.0	4,806.1	4,773.6	4,773.6	20.5	95.5	-159.85	-21.1	557.7	371.1	264.1	107.04	3.467		
5,000.0	4,903.8	4,871.3	4,871.3	20.9	97.4	-160.93	-21.1	557.7	391.3	282.1	109.12	3.586		

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Existing Pad Sec.11-T1S-R68W - Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1													Offset Well Error:	0.0 ft
Survey Program: 8250-UNKNOWN														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.0	5,001.5	4,969.0	4,969.0	21.4	99.4	-161.89	-21.1	557.7	411.5	300.3	111.20	3.700		
5,200.0	5,099.2	5,066.7	5,066.7	21.9	101.3	-162.77	-21.1	557.7	431.8	318.5	113.30	3.812		
5,300.0	5,196.9	5,164.4	5,164.4	22.3	103.3	-163.57	-21.1	557.7	452.3	336.9	115.40	3.919		
5,400.0	5,294.7	5,262.2	5,262.2	22.8	105.2	-164.30	-21.1	557.7	472.8	355.3	117.52	4.023		
5,500.0	5,392.4	5,359.9	5,359.9	23.3	107.2	-164.96	-21.1	557.7	493.3	373.7	119.64	4.124		
5,600.0	5,490.1	5,457.6	5,457.6	23.7	109.2	-165.58	-21.1	557.7	514.0	392.2	121.77	4.221		
5,700.0	5,587.8	5,555.3	5,555.3	24.2	111.1	-166.15	-21.1	557.7	534.7	410.8	123.90	4.315		
5,800.0	5,685.5	5,653.0	5,653.0	24.7	113.1	-166.67	-21.1	557.7	555.4	429.4	126.03	4.407		
5,900.0	5,783.2	5,750.7	5,750.7	25.2	115.0	-167.16	-21.1	557.7	576.2	448.0	128.18	4.495		
6,000.0	5,880.9	5,848.4	5,848.4	25.6	117.0	-167.61	-21.1	557.7	597.0	466.7	130.32	4.581		
6,100.0	5,978.6	5,946.1	5,946.1	26.1	118.9	-168.04	-21.1	557.7	617.8	485.3	132.47	4.664		
6,200.0	6,076.3	6,043.8	6,043.8	26.6	120.9	-168.43	-21.1	557.7	638.7	504.1	134.62	4.745		
6,300.0	6,174.0	6,141.5	6,141.5	27.0	122.8	-168.80	-21.1	557.7	659.6	522.8	136.77	4.823		
6,400.0	6,271.7	6,239.2	6,239.2	27.5	124.8	-169.15	-21.1	557.7	680.5	541.6	138.92	4.899		
6,500.0	6,369.4	6,336.9	6,336.9	28.0	126.7	-169.48	-21.1	557.7	701.5	560.4	141.08	4.972		
6,600.0	6,467.1	6,434.6	6,434.6	28.5	128.7	-169.79	-21.1	557.7	722.4	579.2	143.23	5.044		
6,700.0	6,564.8	6,532.3	6,532.3	28.9	130.6	-170.08	-21.1	557.7	743.4	598.0	145.39	5.113		
6,800.0	6,662.5	6,630.0	6,630.0	29.4	132.6	-170.35	-21.1	557.7	764.4	616.9	147.56	5.181		
6,900.0	6,760.2	6,727.7	6,727.7	29.9	134.6	-170.61	-21.1	557.7	785.4	635.7	149.72	5.246		
7,000.0	6,857.9	6,825.4	6,825.4	30.3	136.5	-170.86	-21.1	557.7	806.5	654.6	151.88	5.310		
7,100.0	6,955.6	6,923.1	6,923.1	30.8	138.5	-171.09	-21.1	557.7	827.5	673.5	154.04	5.372		
7,200.0	7,053.3	7,020.8	7,020.8	31.3	140.4	-171.32	-21.1	557.7	848.6	692.4	156.21	5.432		
7,300.0	7,151.1	7,118.6	7,118.6	31.8	142.4	-171.53	-21.1	557.7	869.7	711.3	158.38	5.491		
7,400.0	7,248.5	7,216.0	7,216.0	32.2	144.3	167.83	-21.1	557.7	891.8	732.5	159.32	5.598		
7,500.0	7,344.0	7,311.5	7,311.5	32.7	146.2	147.82	-21.1	557.7	918.8	759.5	159.38	5.765		
7,600.0	7,435.7	7,403.2	7,403.2	33.2	148.1	136.98	-21.1	557.7	951.0	791.7	159.32	5.969		
7,700.0	7,521.8	7,489.3	7,489.3	33.8	149.8	130.37	-21.1	557.7	988.5	829.2	159.33	6.204		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Existing Pad Sec.11-T1S-R68W - Wright 1 (Exist.) - Wellbore #1 - Wellbore #1													Offset Well Error:	0.0 ft
Survey Program: 8105-UNKNOWN														
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		
6,200.0	6,076.3	6,054.8	6,054.8	26.6	121.1	61.17	-1,272.8	1,375.4	998.0	853.2	144.78	6.893		
6,300.0	6,174.0	6,152.5	6,152.5	27.0	123.1	62.24	-1,272.8	1,375.4	987.7	840.3	147.35	6.703		
6,400.0	6,271.7	6,250.2	6,250.2	27.5	125.0	63.32	-1,272.8	1,375.4	977.8	827.8	149.92	6.522		
6,500.0	6,369.4	6,347.9	6,347.9	28.0	127.0	64.43	-1,272.8	1,375.4	968.2	815.7	152.50	6.349		
6,600.0	6,467.1	6,445.6	6,445.6	28.5	128.9	65.55	-1,272.8	1,375.4	959.0	804.0	155.08	6.184		
6,700.0	6,564.8	6,543.3	6,543.3	28.9	130.9	66.70	-1,272.8	1,375.4	950.2	792.6	157.66	6.027		
6,800.0	6,662.5	6,641.0	6,641.0	29.4	132.8	67.87	-1,272.8	1,375.4	941.9	781.6	160.25	5.878		
6,900.0	6,760.2	6,738.7	6,738.7	29.9	134.8	69.05	-1,272.8	1,375.4	933.9	771.0	162.83	5.735		
7,000.0	6,857.9	6,836.4	6,836.4	30.3	136.7	70.26	-1,272.8	1,375.4	926.3	760.9	165.42	5.600		
7,100.0	6,955.6	6,934.1	6,934.1	30.8	138.7	71.48	-1,272.8	1,375.4	919.2	751.2	168.01	5.471		
7,200.0	7,053.3	7,031.8	7,031.8	31.3	140.6	72.72	-1,272.8	1,375.4	912.5	741.9	170.59	5.349		
7,300.0	7,151.1	7,129.6	7,129.6	31.8	142.6	73.98	-1,272.8	1,375.4	906.3	733.1	173.17	5.233		
7,400.0	7,248.5	7,227.0	7,227.0	32.2	144.5	75.25	-1,272.8	1,375.4	897.7	723.3	174.38	5.148		
7,500.0	7,344.0	7,322.5	7,322.5	32.7	146.5	76.54	-1,272.8	1,375.4	886.7	714.5	175.24	5.090		
7,600.0	7,435.7	7,414.2	7,414.2	33.2	148.3	77.83	-1,272.8	1,375.4	876.7	704.5	175.76	5.045		
7,700.0	7,521.8	7,500.3	7,500.3	33.8	150.0	79.12	-1,272.8	1,375.4	867.7	695.5	176.01	5.005		
7,800.0	7,606.6	7,579.1	7,579.1	34.5	151.6	80.41	-1,272.8	1,375.4	859.3	687.0	176.11	4.971		
7,900.0	7,670.6	7,649.1	7,649.1	35.2	153.0	81.70	-1,272.8	1,375.4	851.8	678.8	176.07	4.931		
8,000.0	7,730.3	7,708.8	7,708.8	35.9	154.2	83.00	-1,272.8	1,375.4	845.2	671.0	175.92	4.891		
8,100.0	7,778.8	7,757.3	7,757.3	36.7	155.1	84.30	-1,272.8	1,375.4	839.3	663.6	175.68	4.851		
8,200.0	7,814.9	7,793.4	7,793.4	37.5	155.9	85.60	-1,272.8	1,375.4	834.1	656.3	175.35	4.811		
8,300.0	7,838.0	7,816.5	7,816.5	38.4	156.3	86.90	-1,272.8	1,375.4	829.3	649.2	174.87	4.771		
8,400.0	7,847.7	7,826.2	7,826.2	39.4	156.5	88.20	-1,272.8	1,375.4	825.1	642.3	174.26	4.731	Level 3	
8,500.0	7,847.8	7,826.3	7,826.3	40.3	156.5	89.50	-1,272.8	1,375.4	821.4	635.6	173.54	4.691	Level 1	
8,600.0	7,847.6	7,826.1	7,826.1	41.3	156.5	90.80	-1,272.8	1,375.4	818.1	629.1	172.73	4.651	Level 1	
8,610.1	7,847.6	7,826.1	7,826.1	41.5	156.5	91.00	-1,272.8	1,375.4	815.2	622.8	171.81	4.611	Level 1, CC, ES, SF	
8,700.0	7,847.4	7,825.9	7,825.9	42.5	156.5	92.30	-1,272.8	1,375.4	812.7	616.6	170.80	4.571	Level 1	
8,800.0	7,847.2	7,825.7	7,825.7	43.6	156.5	93.60	-1,272.8	1,375.4	810.5	610.2	169.71	4.531	Level 2	
8,900.0	7,847.0	7,825.5	7,825.5	44.9	156.5	94.90	-1,272.8	1,375.4	808.7	604.0	168.56	4.491		
9,000.0	7,846.8	7,825.3	7,825.3	46.1	156.5	96.20	-1,272.8	1,375.4	807.2	598.0	167.36	4.451		
9,100.0	7,846.5	7,825.0	7,825.0	47.4	156.5	97.50	-1,272.8	1,375.4	806.0	591.8	166.11	4.411		
9,200.0	7,846.3	7,824.8	7,824.8	48.8	156.5	98.80	-1,272.8	1,375.4	805.1	585.9	164.83	4.371		
9,300.0	7,846.1	7,824.6	7,824.6	50.2	156.5	100.10	-1,272.8	1,375.4	804.4	580.0	163.51	4.331		
9,400.0	7,845.9	7,824.4	7,824.4	51.6	156.5	101.40	-1,272.8	1,375.4	803.9	574.1	162.16	4.291		
9,500.0	7,845.7	7,824.2	7,824.2	53.1	156.5	102.70	-1,272.8	1,375.4	803.4	568.1	160.78	4.251		
9,600.0	7,845.5	7,824.0	7,824.0	54.6	156.5	104.00	-1,272.8	1,375.4	803.0	562.0	159.37	4.211		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-157.46	-27.7	-11.5	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	-157.46	-27.7	-11.5	30.0	29.8	0.22	133.364		
200.0	200.0	200.0	200.0	0.3	0.3	-157.46	-27.7	-11.5	30.0	29.3	0.67	44.455		
300.0	300.0	300.0	300.0	0.6	0.6	-157.46	-27.7	-11.5	30.0	28.9	1.12	26.673		
400.0	400.0	400.0	400.0	0.8	0.8	-157.46	-27.7	-11.5	30.0	28.4	1.57	19.052	CC	
500.0	500.0	500.0	500.0	1.0	1.0	100.68	-27.7	-11.5	30.3	28.2	2.01	15.067	ES	
600.0	599.8	599.8	599.8	1.2	1.2	109.99	-27.7	-11.5	31.6	29.2	2.44	12.962		
700.0	699.5	699.5	699.5	1.4	1.5	123.20	-27.7	-11.5	35.6	32.7	2.89	12.296		
800.0	798.7	798.7	798.7	1.7	1.7	136.60	-27.7	-11.5	43.5	40.1	3.36	12.957		
900.0	897.5	899.0	898.9	2.0	1.9	146.56	-28.3	-9.9	54.6	50.8	3.80	14.369		
1,000.0	995.6	999.7	999.6	2.4	2.1	152.80	-30.1	-5.0	66.9	62.7	4.23	15.822		
1,100.0	1,093.3	1,101.2	1,100.6	2.8	2.3	156.57	-33.2	3.3	78.8	74.1	4.68	16.815		
1,200.0	1,191.0	1,203.4	1,202.0	3.2	2.6	158.34	-37.5	15.1	87.7	82.5	5.17	16.979		
1,300.0	1,288.7	1,304.3	1,301.8	3.7	2.8	158.99	-42.8	29.4	94.1	88.4	5.67	16.592		
1,400.0	1,386.5	1,404.1	1,400.4	4.1	3.1	159.48	-48.2	43.9	100.2	94.0	6.19	16.197		
1,500.0	1,484.2	1,503.9	1,499.0	4.6	3.4	159.92	-53.5	58.3	106.4	99.7	6.71	15.845		
1,600.0	1,581.9	1,603.7	1,597.6	5.0	3.8	160.31	-58.9	72.7	112.5	105.3	7.25	15.532		
1,700.0	1,679.6	1,703.5	1,696.2	5.5	4.1	160.66	-64.2	87.1	118.7	110.9	7.78	15.257		
1,800.0	1,777.3	1,803.3	1,794.8	5.9	4.4	160.98	-69.6	101.6	124.9	116.5	8.32	15.010		
1,900.0	1,875.0	1,903.1	1,893.5	6.4	4.8	161.26	-74.9	116.0	131.0	122.2	8.86	14.789		
2,000.0	1,972.7	2,002.9	1,992.1	6.8	5.1	161.52	-80.2	130.4	137.2	127.8	9.40	14.591		
2,100.0	2,070.4	2,102.7	2,090.7	7.3	5.5	161.76	-85.6	144.9	143.4	133.4	9.95	14.413		
2,200.0	2,168.1	2,202.5	2,189.3	7.8	5.8	161.98	-90.9	159.3	149.6	139.1	10.49	14.251		
2,300.0	2,265.8	2,302.3	2,287.9	8.2	6.2	162.18	-96.3	173.7	155.7	144.7	11.04	14.105		
2,400.0	2,363.5	2,402.2	2,386.5	8.7	6.5	162.36	-101.6	188.2	161.9	150.3	11.59	13.971		
2,500.0	2,461.2	2,502.0	2,485.1	9.2	6.9	162.54	-107.0	202.6	168.1	156.0	12.14	13.849		
2,600.0	2,558.9	2,601.8	2,583.8	9.6	7.3	162.69	-112.3	217.0	174.3	161.6	12.69	13.737		
2,700.0	2,656.6	2,701.6	2,682.4	10.1	7.6	162.84	-117.6	231.5	180.5	167.2	13.24	13.633		
2,800.0	2,754.3	2,801.4	2,781.0	10.6	8.0	162.98	-123.0	245.9	186.6	172.9	13.79	13.538		
2,900.0	2,852.0	2,901.2	2,879.6	11.0	8.3	163.11	-128.3	260.3	192.8	178.5	14.34	13.449		
3,000.0	2,949.7	3,001.0	2,978.2	11.5	8.7	163.23	-133.7	274.7	199.0	184.1	14.89	13.367		
3,100.0	3,047.4	3,100.8	3,076.8	12.0	9.1	163.35	-139.0	289.2	205.2	189.8	15.44	13.291		
3,200.0	3,145.1	3,200.6	3,175.4	12.5	9.4	163.45	-144.4	303.6	211.4	195.4	15.99	13.220		
3,300.0	3,242.8	3,300.4	3,274.1	12.9	9.8	163.56	-149.7	318.0	217.6	201.0	16.54	13.153		
3,400.0	3,340.6	3,400.2	3,372.7	13.4	10.2	163.65	-155.1	332.5	223.8	206.7	17.09	13.091		
3,500.0	3,438.3	3,500.0	3,471.3	13.9	10.5	163.74	-160.4	346.9	230.0	212.3	17.65	13.032		
3,600.0	3,536.0	3,599.8	3,569.9	14.3	10.9	163.83	-165.7	361.3	236.2	218.0	18.20	12.977		
3,700.0	3,633.7	3,699.6	3,668.5	14.8	11.3	163.91	-171.1	375.8	242.4	223.6	18.75	12.925		
3,800.0	3,731.4	3,799.5	3,767.1	15.3	11.6	163.99	-176.4	390.2	248.6	229.2	19.30	12.876		
3,900.0	3,829.1	3,899.3	3,865.7	15.7	12.0	164.06	-181.8	404.6	254.7	234.9	19.86	12.830		
4,000.0	3,926.8	3,999.1	3,964.4	16.2	12.4	164.13	-187.1	419.1	260.9	240.5	20.41	12.786		
4,100.0	4,024.5	4,098.9	4,063.0	16.7	12.7	164.20	-192.5	433.5	267.1	246.2	20.96	12.744		
4,200.0	4,122.2	4,198.7	4,161.6	17.2	13.1	164.26	-197.8	447.9	273.3	251.8	21.51	12.705		
4,300.0	4,219.9	4,298.5	4,260.2	17.6	13.5	164.32	-203.1	462.3	279.5	257.5	22.07	12.667		
4,400.0	4,317.6	4,398.3	4,358.8	18.1	13.8	164.38	-208.5	476.8	285.7	263.1	22.62	12.631		
4,500.0	4,415.3	4,498.1	4,457.4	18.6	14.2	164.44	-213.8	491.2	291.9	268.7	23.17	12.597		
4,600.0	4,513.0	4,597.9	4,556.0	19.0	14.6	164.49	-219.2	505.6	298.1	274.4	23.73	12.565		
4,700.0	4,610.7	4,697.7	4,654.7	19.5	14.9	164.54	-224.5	520.1	304.3	280.0	24.28	12.534		
4,800.0	4,708.4	4,797.5	4,753.3	20.0	15.3	164.59	-229.9	534.5	310.5	285.7	24.83	12.504		
4,900.0	4,806.1	4,897.3	4,851.9	20.5	15.7	164.64	-235.2	548.9	316.7	291.3	25.38	12.476		
5,000.0	4,903.8	4,997.1	4,950.5	20.9	16.1	164.69	-240.6	563.4	322.9	297.0	25.94	12.449		
5,100.0	5,001.5	5,097.0	5,049.1	21.4	16.4	164.73	-245.9	577.8	329.1	302.6	26.49	12.423		

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.0	5,099.2	5,196.8	5,147.7	21.9	16.8	164.77	-251.2	592.2	335.3	308.2	27.04	12.398		
5,300.0	5,196.9	5,296.6	5,246.3	22.3	17.2	164.81	-256.6	606.7	341.5	313.9	27.60	12.374		
5,400.0	5,294.7	5,396.4	5,345.0	22.8	17.5	164.85	-261.9	621.1	347.7	319.5	28.15	12.351		
5,500.0	5,392.4	5,496.2	5,443.6	23.3	17.9	164.89	-267.3	635.5	353.9	325.2	28.70	12.329		
5,600.0	5,490.1	5,596.0	5,542.2	23.7	18.3	164.93	-272.6	650.0	360.1	330.8	29.26	12.307		
5,700.0	5,587.8	5,695.8	5,640.8	24.2	18.6	164.96	-278.0	664.4	366.3	336.5	29.81	12.287		
5,800.0	5,685.5	5,795.6	5,739.4	24.7	19.0	165.00	-283.3	678.8	372.5	342.1	30.36	12.267		
5,900.0	5,783.2	5,895.4	5,838.0	25.2	19.4	165.03	-288.6	693.2	378.7	347.8	30.92	12.248		
6,000.0	5,880.9	5,995.2	5,936.6	25.6	19.8	165.06	-294.0	707.7	384.9	353.4	31.47	12.229		
6,100.0	5,978.6	6,095.0	6,035.2	26.1	20.1	165.09	-299.3	722.1	391.1	359.0	32.02	12.212		
6,200.0	6,076.3	6,194.8	6,133.9	26.6	20.5	165.12	-304.7	736.5	397.3	364.7	32.58	12.194		
6,300.0	6,174.0	6,294.6	6,232.5	27.0	20.9	165.15	-310.0	751.0	403.5	370.3	33.13	12.178		
6,400.0	6,271.7	6,394.5	6,331.1	27.5	21.2	165.18	-315.4	765.4	409.7	376.0	33.68	12.162		
6,500.0	6,369.4	6,494.3	6,429.7	28.0	21.6	165.21	-320.7	779.8	415.9	381.6	34.24	12.146		
6,600.0	6,467.1	6,594.1	6,528.3	28.5	22.0	165.23	-326.1	794.3	422.1	387.3	34.79	12.131		
6,700.0	6,564.8	6,693.9	6,626.9	28.9	22.3	165.26	-331.4	808.7	428.3	392.9	35.34	12.117		
6,800.0	6,662.5	6,793.7	6,725.5	29.4	22.7	165.29	-336.7	823.1	434.5	398.6	35.90	12.102		
6,900.0	6,760.2	6,893.5	6,824.2	29.9	23.1	165.31	-342.1	837.6	440.7	404.2	36.45	12.089		
7,000.0	6,857.9	6,993.3	6,922.8	30.3	23.5	165.33	-347.4	852.0	446.9	409.8	37.01	12.075		
7,100.0	6,955.6	7,093.1	7,021.4	30.8	23.8	165.36	-352.8	866.4	453.1	415.5	37.56	12.062		
7,200.0	7,053.3	7,192.9	7,120.0	31.3	24.2	165.38	-358.1	880.8	459.3	421.1	38.11	12.050		
7,300.0	7,151.1	7,292.7	7,218.6	31.8	24.6	165.40	-363.5	895.3	465.5	426.8	38.67	12.038		
7,400.0	7,248.5	7,392.4	7,317.1	32.2	24.9	145.94	-368.8	909.7	471.7	432.5	39.22	12.028		
7,500.0	7,344.0	7,493.6	7,416.4	32.7	25.3	127.88	-381.1	924.2	478.0	438.3	39.71	12.036		
7,600.0	7,435.7	7,596.1	7,514.2	33.2	25.8	118.70	-407.9	938.6	484.2	443.8	40.40	11.987		
7,700.0	7,521.8	7,700.0	7,608.4	33.8	26.3	113.65	-449.1	952.5	490.2	449.0	41.29	11.873		
7,800.0	7,600.6	7,805.2	7,696.9	34.5	26.9	110.65	-504.4	965.6	495.9	453.5	42.43	11.687		
7,900.0	7,670.6	7,911.7	7,777.2	35.2	27.6	108.79	-573.2	977.6	501.0	457.2	43.86	11.422		
8,000.0	7,730.3	8,019.4	7,847.3	35.9	28.4	107.59	-654.1	988.1	505.5	459.9	45.62	11.081		
8,100.0	7,778.8	8,128.1	7,905.1	36.7	29.3	106.82	-745.7	996.8	509.2	461.5	47.72	10.671		
8,200.0	7,814.9	8,237.7	7,948.7	37.5	30.4	106.33	-845.8	1,003.5	512.0	461.8	50.15	10.209		
8,300.0	7,838.0	8,347.8	7,976.9	38.4	31.5	106.04	-952.0	1,008.0	513.8	460.9	52.88	9.717		
8,400.0	7,847.7	8,458.2	7,988.7	39.4	32.7	105.91	-1,061.7	1,010.0	514.6	458.8	55.84	9.216		
8,500.0	7,847.8	8,560.4	7,989.0	40.3	33.9	105.92	-1,163.9	1,010.4	514.7	456.1	58.57	8.788		
8,600.0	7,847.6	8,660.4	7,989.0	41.3	35.1	105.94	-1,263.9	1,010.7	514.8	453.4	61.37	8.388		
8,700.0	7,847.4	8,760.4	7,989.0	42.5	36.4	105.96	-1,363.9	1,011.1	514.8	450.6	64.27	8.011		
8,800.0	7,847.2	8,860.4	7,989.0	43.6	37.8	105.99	-1,463.9	1,011.4	514.9	447.7	67.24	7.657		
8,900.0	7,847.0	8,960.4	7,989.0	44.9	39.2	106.01	-1,563.9	1,011.7	515.0	444.7	70.29	7.327		
9,000.0	7,846.8	9,060.4	7,989.0	46.1	40.6	106.03	-1,663.9	1,012.1	515.0	441.6	73.39	7.018		
9,100.0	7,846.5	9,160.4	7,989.0	47.4	42.1	106.06	-1,763.9	1,012.4	515.1	438.5	76.54	6.729		
9,200.0	7,846.3	9,260.4	7,989.0	48.8	43.6	106.08	-1,863.9	1,012.7	515.1	435.4	79.75	6.460		
9,300.0	7,846.1	9,360.4	7,989.0	50.2	45.1	106.10	-1,963.9	1,013.1	515.2	432.2	82.99	6.208		
9,400.0	7,845.9	9,460.4	7,989.0	51.6	46.7	106.12	-2,063.9	1,013.4	515.3	429.0	86.27	5.973		
9,500.0	7,845.7	9,560.4	7,989.0	53.1	48.3	106.15	-2,163.9	1,013.7	515.3	425.7	89.58	5.753		
9,600.0	7,845.5	9,660.4	7,989.0	54.6	49.9	106.17	-2,263.9	1,014.1	515.4	422.5	92.92	5.547		
9,700.0	7,845.3	9,760.4	7,989.0	56.1	51.6	106.19	-2,363.9	1,014.4	515.4	419.2	96.29	5.353		
9,800.0	7,845.0	9,860.4	7,989.0	57.6	53.2	106.22	-2,463.9	1,014.7	515.5	415.8	99.67	5.172		
9,900.0	7,844.8	9,960.4	7,989.0	59.2	54.9	106.24	-2,563.9	1,015.1	515.6	412.5	103.08	5.001		
10,000.0	7,844.6	10,060.4	7,989.0	60.8	56.6	106.26	-2,663.9	1,015.4	515.6	409.1	106.51	4.841		
10,100.0	7,844.4	10,160.4	7,989.0	62.4	58.3	106.28	-2,763.9	1,015.7	515.7	405.7	109.95	4.690		
10,200.0	7,844.2	10,260.4	7,989.0	64.0	60.0	106.31	-2,863.9	1,016.0	515.8	402.3	113.41	4.548		
10,300.0	7,844.0	10,360.4	7,989.0	65.6	61.7	106.33	-2,963.9	1,016.4	515.8	398.9	116.89	4.413		

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,400.0	7,843.7	10,460.4	7,989.0	67.3	63.5	106.35	-3,063.9	1,016.7	515.9	395.5	120.37	4.286		
10,500.0	7,843.5	10,560.4	7,989.0	68.9	65.2	106.38	-3,163.9	1,017.0	515.9	392.1	123.87	4.165		
10,600.0	7,843.3	10,660.4	7,989.0	70.6	67.0	106.40	-3,263.9	1,017.4	516.0	388.6	127.37	4.051		
10,700.0	7,843.1	10,760.4	7,989.0	72.3	68.8	106.42	-3,363.9	1,017.7	516.1	385.2	130.89	3.943		
10,800.0	7,842.9	10,860.4	7,989.0	74.0	70.5	106.44	-3,463.9	1,018.0	516.1	381.7	134.42	3.840		
10,900.0	7,842.7	10,960.4	7,989.0	75.7	72.3	106.47	-3,563.9	1,018.4	516.2	378.2	137.95	3.742		
11,000.0	7,842.5	11,060.4	7,989.0	77.4	74.1	106.49	-3,663.9	1,018.7	516.3	374.8	141.49	3.649		
11,100.0	7,842.2	11,160.4	7,989.0	79.1	75.9	106.51	-3,763.9	1,019.0	516.3	371.3	145.04	3.560		
11,200.0	7,842.0	11,260.4	7,989.0	80.9	77.7	106.54	-3,863.9	1,019.4	516.4	367.8	148.59	3.475		
11,300.0	7,841.8	11,360.4	7,989.0	82.6	79.5	106.56	-3,963.9	1,019.7	516.4	364.3	152.15	3.394		
11,400.0	7,841.6	11,460.4	7,989.0	84.4	81.3	106.58	-4,063.9	1,020.0	516.5	360.8	155.71	3.317		
11,500.0	7,841.4	11,560.4	7,989.0	86.1	83.1	106.60	-4,163.8	1,020.4	516.6	357.3	159.28	3.243		
11,600.0	7,841.2	11,660.4	7,989.0	87.9	84.9	106.63	-4,263.8	1,020.7	516.6	353.8	162.85	3.172		
11,700.0	7,841.0	11,760.4	7,989.0	89.7	86.8	106.65	-4,363.8	1,021.0	516.7	350.3	166.43	3.105		
11,800.0	7,840.7	11,860.4	7,989.0	91.5	88.6	106.67	-4,463.8	1,021.4	516.8	346.8	170.01	3.040		
11,900.0	7,840.5	11,960.4	7,989.0	93.2	90.4	106.70	-4,563.8	1,021.7	516.8	343.2	173.59	2.977		
12,000.0	7,840.3	12,060.4	7,989.0	95.0	92.3	106.72	-4,663.8	1,022.0	516.9	339.7	177.18	2.917		
12,100.0	7,840.1	12,160.4	7,989.0	96.8	94.1	106.74	-4,763.8	1,022.4	517.0	336.2	180.77	2.860		
12,200.0	7,839.9	12,260.4	7,989.0	98.6	95.9	106.76	-4,863.8	1,022.7	517.0	332.7	184.36	2.804		
12,300.0	7,839.7	12,360.4	7,989.0	100.4	97.8	106.79	-4,963.8	1,023.0	517.1	329.1	187.96	2.751		
12,400.0	7,839.5	12,460.4	7,989.0	102.2	99.6	106.81	-5,063.8	1,023.4	517.1	325.6	191.56	2.700		
12,500.0	7,839.2	12,560.4	7,989.0	104.0	101.5	106.83	-5,163.8	1,023.7	517.2	322.0	195.16	2.650		
12,600.0	7,839.0	12,660.4	7,989.0	105.9	103.3	106.85	-5,263.8	1,024.0	517.3	318.5	198.76	2.602		
12,700.0	7,838.8	12,760.4	7,989.0	107.7	105.2	106.88	-5,363.8	1,024.3	517.3	315.0	202.36	2.556		
12,800.0	7,838.6	12,860.4	7,989.0	109.5	107.0	106.90	-5,463.8	1,024.7	517.4	311.4	205.97	2.512		
12,900.0	7,838.4	12,960.4	7,989.0	111.3	108.9	106.92	-5,563.8	1,025.0	517.5	307.9	209.58	2.469		
13,000.0	7,838.2	13,060.4	7,989.0	113.2	110.8	106.95	-5,663.8	1,025.3	517.5	304.3	213.19	2.428		
13,100.0	7,837.9	13,160.4	7,989.0	115.0	112.6	106.97	-5,763.8	1,025.7	517.6	300.8	216.80	2.387		
13,200.0	7,837.7	13,260.4	7,989.0	116.8	114.5	106.99	-5,863.8	1,026.0	517.7	297.2	220.41	2.349		
13,300.0	7,837.5	13,360.4	7,989.0	118.7	116.3	107.01	-5,963.8	1,026.3	517.7	293.7	224.02	2.311		
13,400.0	7,837.3	13,460.4	7,989.0	120.5	118.2	107.04	-6,063.8	1,026.7	517.8	290.1	227.64	2.275		
13,500.0	7,837.1	13,560.4	7,989.0	122.3	120.1	107.06	-6,163.8	1,027.0	517.8	286.6	231.25	2.239		
13,600.0	7,836.9	13,660.4	7,989.0	124.2	122.0	107.08	-6,263.8	1,027.3	517.9	283.0	234.87	2.205		
13,700.0	7,836.7	13,760.4	7,989.0	126.0	123.8	107.10	-6,363.8	1,027.7	518.0	279.5	238.48	2.172		
13,800.0	7,836.4	13,860.4	7,989.0	127.9	125.7	107.13	-6,463.8	1,028.0	518.0	275.9	242.10	2.140		
13,900.0	7,836.2	13,960.4	7,989.0	129.7	127.6	107.15	-6,563.8	1,028.3	518.1	272.4	245.72	2.109		
14,000.0	7,836.0	14,060.4	7,989.0	131.6	129.4	107.17	-6,663.8	1,028.7	518.2	268.8	249.34	2.078		
14,100.0	7,835.8	14,160.4	7,989.0	133.4	131.3	107.19	-6,763.8	1,029.0	518.2	265.3	252.96	2.049		
14,200.0	7,835.6	14,260.4	7,989.0	135.3	133.2	107.22	-6,863.8	1,029.3	518.3	261.7	256.58	2.020		
14,300.0	7,835.4	14,360.4	7,989.0	137.1	135.1	107.24	-6,963.8	1,029.7	518.4	258.2	260.20	1.992		
14,400.0	7,835.2	14,460.4	7,989.0	139.0	137.0	107.26	-7,063.8	1,030.0	518.4	254.6	263.82	1.965		
14,500.0	7,834.9	14,560.4	7,989.0	140.9	138.8	107.29	-7,163.8	1,030.3	518.5	251.1	267.44	1.939		
14,600.0	7,834.7	14,660.4	7,989.0	142.7	140.7	107.31	-7,263.8	1,030.7	518.6	247.5	271.06	1.913		
14,700.0	7,834.5	14,760.4	7,989.0	144.6	142.6	107.33	-7,363.8	1,031.0	518.6	244.0	274.68	1.888		
14,800.0	7,834.3	14,860.4	7,989.0	146.4	144.5	107.35	-7,463.8	1,031.3	518.7	240.4	278.30	1.864		
14,900.0	7,834.1	14,960.4	7,989.0	148.3	146.4	107.38	-7,563.8	1,031.7	518.8	236.8	281.93	1.840		
15,000.0	7,833.9	15,060.4	7,989.0	150.2	148.3	107.40	-7,663.8	1,032.0	518.8	233.3	285.55	1.817		
15,100.0	7,833.6	15,160.4	7,989.0	152.0	150.1	107.42	-7,763.8	1,032.3	518.9	229.7	289.17	1.794		
15,200.0	7,833.4	15,260.4	7,989.0	153.9	152.0	107.44	-7,863.8	1,032.6	519.0	226.2	292.79	1.772		
15,300.0	7,833.2	15,360.4	7,989.0	155.8	153.9	107.47	-7,963.8	1,033.0	519.0	222.6	296.41	1.751		
15,400.0	7,833.0	15,460.4	7,989.0	157.7	155.8	107.49	-8,063.8	1,033.3	519.1	219.1	300.04	1.730		
15,500.0	7,832.8	15,560.4	7,989.0	159.5	157.7	107.51	-8,163.8	1,033.6	519.2	215.5	303.66	1.710		

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey M-14-23HC - Wellbore #1 - Plan #2 (11-5-14)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
15,600.0	7,832.6	15,660.4	7,989.0	161.4	159.6	107.53	-8,263.8	1,034.0	519.2	211.9	307.28	1.690	
15,700.0	7,832.4	15,760.4	7,989.0	163.3	161.5	107.56	-8,363.8	1,034.3	519.3	208.4	310.90	1.670	
15,800.0	7,832.1	15,860.4	7,989.0	165.2	163.4	107.58	-8,463.8	1,034.6	519.4	204.8	314.53	1.651	
15,834.0	7,832.1	15,894.3	7,989.0	165.8	164.0	107.59	-8,497.8	1,034.8	519.4	203.6	315.75	1.645	
15,866.0	7,832.0	15,920.8	7,989.0	166.4	164.5	107.59	-8,524.2	1,034.8	519.4	202.6	316.82	1.640 SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-157.96	-13.8	-5.6	14.9	14.9	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	-157.96	-13.8	-5.6	14.9	14.7	0.22	66.445		
200.0	200.0	200.0	200.0	0.3	0.3	-157.96	-13.8	-5.6	14.9	14.3	0.67	22.148		
300.0	300.0	300.0	300.0	0.6	0.6	-157.96	-13.8	-5.6	14.9	13.8	1.12	13.289		
400.0	400.0	400.0	400.0	0.8	0.8	-157.96	-13.8	-5.6	14.9	13.4	1.57	9.492 CC		
500.0	500.0	500.0	500.0	1.0	1.0	103.43	-13.8	-5.6	15.2	13.2	2.01	7.593 ES		
600.0	599.8	599.8	599.8	1.2	1.2	120.56	-13.8	-5.6	17.2	14.8	2.44	7.058		
700.0	699.5	700.0	700.0	1.4	1.4	136.48	-14.4	-3.9	21.7	18.8	2.87	7.561		
800.0	798.7	800.4	800.2	1.7	1.6	146.12	-16.1	1.0	27.4	24.1	3.30	8.304		
900.0	897.5	901.0	900.5	2.0	1.9	152.03	-18.8	9.4	33.6	29.9	3.74	8.993		
1,000.0	995.6	1,001.9	1,000.6	2.4	2.1	155.79	-22.7	21.1	40.2	36.0	4.20	9.566		
1,100.0	1,093.3	1,103.1	1,100.5	2.8	2.4	157.69	-27.8	36.2	45.7	41.0	4.69	9.734		
1,200.0	1,191.0	1,203.2	1,199.0	3.2	2.8	158.24	-33.3	53.0	49.5	44.3	5.22	9.485		
1,300.0	1,288.7	1,303.1	1,297.3	3.7	3.1	158.70	-38.9	69.8	53.3	47.6	5.76	9.259		
1,400.0	1,386.5	1,403.0	1,395.7	4.1	3.5	159.10	-44.5	86.6	57.1	50.8	6.30	9.061		
1,500.0	1,484.2	1,502.9	1,494.0	4.6	3.8	159.46	-50.1	103.4	60.9	54.1	6.86	8.888		
1,600.0	1,581.9	1,602.9	1,592.4	5.0	4.2	159.77	-55.7	120.2	64.7	57.3	7.41	8.736		
1,700.0	1,679.6	1,702.8	1,690.7	5.5	4.6	160.04	-61.3	137.0	68.5	60.6	7.97	8.602		
1,800.0	1,777.3	1,802.7	1,789.1	5.9	5.0	160.29	-66.9	153.7	72.4	63.8	8.53	8.483		
1,900.0	1,875.0	1,902.6	1,887.4	6.4	5.4	160.51	-72.4	170.5	76.2	67.1	9.09	8.377		
2,000.0	1,972.7	2,002.6	1,985.8	6.8	5.8	160.71	-78.0	187.3	80.0	70.3	9.66	8.283		
2,100.0	2,070.4	2,102.5	2,084.1	7.3	6.2	160.90	-83.6	204.1	83.8	73.6	10.22	8.198		
2,200.0	2,168.1	2,202.4	2,182.5	7.8	6.6	161.06	-89.2	220.9	87.6	76.8	10.79	8.121		
2,300.0	2,265.8	2,302.3	2,280.8	8.2	7.0	161.22	-94.8	237.7	91.4	80.1	11.36	8.052		
2,400.0	2,363.5	2,402.3	2,379.2	8.7	7.4	161.36	-100.4	254.5	95.3	83.3	11.92	7.989		
2,500.0	2,461.2	2,502.2	2,477.5	9.2	7.8	161.49	-105.9	271.3	99.1	86.6	12.49	7.931		
2,600.0	2,558.9	2,602.1	2,575.9	9.6	8.2	161.61	-111.5	288.1	102.9	89.8	13.06	7.878		
2,700.0	2,656.6	2,702.1	2,674.2	10.1	8.6	161.72	-117.1	304.9	106.7	93.1	13.63	7.829		
2,800.0	2,754.3	2,802.0	2,772.6	10.6	9.0	161.82	-122.7	321.7	110.5	96.3	14.20	7.784		
2,900.0	2,852.0	2,901.9	2,870.9	11.0	9.4	161.92	-128.3	338.4	114.4	99.6	14.77	7.743		
3,000.0	2,949.7	3,001.8	2,969.2	11.5	9.8	162.01	-133.9	355.2	118.2	102.8	15.34	7.704		
3,100.0	3,047.4	3,101.8	3,067.6	12.0	10.2	162.09	-139.5	372.0	122.0	106.1	15.91	7.668		
3,200.0	3,145.1	3,201.7	3,165.9	12.5	10.6	162.17	-145.0	388.8	125.8	109.4	16.48	7.635		
3,300.0	3,242.8	3,301.6	3,264.3	12.9	11.0	162.25	-150.6	405.6	129.7	112.6	17.05	7.603		
3,400.0	3,340.6	3,401.5	3,362.6	13.4	11.4	162.32	-156.2	422.4	133.5	115.9	17.62	7.574		
3,500.0	3,438.3	3,501.5	3,461.0	13.9	11.8	162.39	-161.8	439.2	137.3	119.1	18.19	7.546		
3,600.0	3,536.0	3,601.4	3,559.3	14.3	12.2	162.45	-167.4	456.0	141.1	122.4	18.76	7.520		
3,700.0	3,633.7	3,701.3	3,657.7	14.8	12.6	162.51	-173.0	472.8	144.9	125.6	19.34	7.496		
3,800.0	3,731.4	3,801.2	3,756.0	15.3	13.0	162.57	-178.6	489.6	148.8	128.9	19.91	7.473		
3,900.0	3,829.1	3,901.2	3,854.4	15.7	13.4	162.62	-184.1	506.3	152.6	132.1	20.48	7.451		
4,000.0	3,926.8	4,001.1	3,952.7	16.2	13.8	162.67	-189.7	523.1	156.4	135.4	21.05	7.431		
4,100.0	4,024.5	4,101.0	4,051.1	16.7	14.3	162.72	-195.3	539.9	160.2	138.6	21.62	7.411		
4,200.0	4,122.2	4,201.0	4,149.4	17.2	14.7	162.77	-200.9	556.7	164.1	141.9	22.19	7.393		
4,300.0	4,219.9	4,300.9	4,247.8	17.6	15.1	162.81	-206.5	573.5	167.9	145.1	22.76	7.375		
4,400.0	4,317.6	4,400.8	4,346.1	18.1	15.5	162.86	-212.1	590.3	171.7	148.4	23.34	7.358		
4,500.0	4,415.3	4,500.7	4,444.5	18.6	15.9	162.90	-217.7	607.1	175.5	151.6	23.91	7.342		
4,600.0	4,513.0	4,600.7	4,542.8	19.0	16.3	162.93	-223.2	623.9	179.4	154.9	24.48	7.327		
4,700.0	4,610.7	4,700.6	4,641.2	19.5	16.7	162.97	-228.8	640.7	183.2	158.1	25.05	7.312		
4,800.0	4,708.4	4,800.5	4,739.5	20.0	17.1	163.01	-234.4	657.5	187.0	161.4	25.62	7.298		
4,900.0	4,806.1	4,900.4	4,837.9	20.5	17.5	163.04	-240.0	674.2	190.8	164.6	26.19	7.285		
5,000.0	4,903.8	5,000.4	4,936.2	20.9	17.9	163.08	-245.6	691.0	194.7	167.9	26.77	7.272		
5,100.0	5,001.5	5,100.3	5,034.5	21.4	18.3	163.11	-251.2	707.8	198.5	171.1	27.34	7.260		

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.0	5,099.2	5,200.2	5,132.9	21.9	18.7	163.14	-256.7	724.6	202.3	174.4	27.91	7.248		
5,300.0	5,196.9	5,300.1	5,231.2	22.3	19.1	163.17	-262.3	741.4	206.1	177.6	28.48	7.237		
5,400.0	5,294.7	5,400.1	5,329.6	22.8	19.5	163.20	-267.9	758.2	210.0	180.9	29.05	7.226		
5,500.0	5,392.4	5,500.0	5,427.9	23.3	20.0	163.22	-273.5	775.0	213.8	184.1	29.63	7.216		
5,600.0	5,490.1	5,599.9	5,526.3	23.7	20.4	163.25	-279.1	791.8	217.6	187.4	30.20	7.206		
5,700.0	5,587.8	5,699.9	5,624.6	24.2	20.8	163.27	-284.7	808.6	221.4	190.7	30.77	7.196		
5,800.0	5,685.5	5,799.8	5,723.0	24.7	21.2	163.30	-290.3	825.4	225.2	193.9	31.34	7.187		
5,900.0	5,783.2	5,899.7	5,821.3	25.2	21.6	163.32	-295.8	842.2	229.1	197.2	31.91	7.178		
6,000.0	5,880.9	5,999.6	5,919.7	25.6	22.0	163.35	-301.4	858.9	232.9	200.4	32.49	7.169		
6,100.0	5,978.6	6,099.6	6,018.0	26.1	22.4	163.37	-307.0	875.7	236.7	203.7	33.06	7.161		
6,200.0	6,076.3	6,199.5	6,116.4	26.6	22.8	163.39	-312.6	892.5	240.5	206.9	33.63	7.153		
6,300.0	6,174.0	6,299.4	6,214.7	27.0	23.2	163.41	-318.2	909.3	244.4	210.2	34.20	7.145		
6,400.0	6,271.7	6,399.3	6,313.1	27.5	23.6	163.43	-323.8	926.1	248.2	213.4	34.77	7.138		
6,500.0	6,369.4	6,499.3	6,411.4	28.0	24.0	163.45	-329.4	942.9	252.0	216.7	35.35	7.130		
6,600.0	6,467.1	6,599.2	6,509.8	28.5	24.4	163.47	-334.9	959.7	255.8	219.9	35.92	7.123		
6,700.0	6,564.8	6,699.1	6,608.1	28.9	24.9	163.49	-340.5	976.5	259.7	223.2	36.49	7.116		
6,800.0	6,662.5	6,799.1	6,706.5	29.4	25.3	163.51	-346.1	993.3	263.5	226.4	37.06	7.110		
6,900.0	6,760.2	6,899.0	6,804.8	29.9	25.7	163.52	-351.7	1,010.1	267.3	229.7	37.63	7.103		
7,000.0	6,857.9	6,998.9	6,903.2	30.3	26.1	163.54	-357.3	1,026.8	271.1	232.9	38.21	7.097		
7,100.0	6,955.6	7,098.8	7,001.5	30.8	26.5	163.56	-362.9	1,043.6	275.0	236.2	38.78	7.091		
7,200.0	7,053.3	7,198.7	7,099.8	31.3	26.9	163.58	-368.5	1,060.4	278.8	239.4	39.35	7.085		
7,300.0	7,151.1	7,296.9	7,195.6	31.8	27.3	161.96	-381.9	1,076.8	282.9	242.5	40.43	6.998		
7,400.0	7,248.5	7,392.0	7,285.8	32.2	27.7	138.66	-407.4	1,092.3	288.3	245.9	42.39	6.801		
7,500.0	7,344.0	7,484.6	7,369.7	32.7	28.2	116.20	-443.8	1,106.7	294.7	250.1	44.62	6.604		
7,600.0	7,435.7	7,575.3	7,446.7	33.2	28.8	102.99	-489.6	1,120.0	301.8	255.0	46.85	6.442		
7,700.0	7,521.8	7,664.3	7,516.1	33.8	29.3	94.36	-543.9	1,132.1	309.2	260.3	48.87	6.326		
7,800.0	7,600.6	7,750.0	7,576.2	34.5	29.9	88.28	-604.1	1,142.6	316.5	266.0	50.52	6.264		
7,900.0	7,670.6	7,838.1	7,630.1	35.2	30.6	83.73	-673.0	1,152.0	323.3	271.5	51.81	6.240		
8,000.0	7,730.3	7,923.3	7,674.0	35.9	31.3	80.35	-745.6	1,159.8	329.4	276.8	52.65	6.257		
8,100.0	7,778.8	8,007.8	7,708.7	36.7	32.1	77.87	-822.3	1,166.0	334.5	281.4	53.11	6.299		
8,200.0	7,814.9	8,091.7	7,734.2	37.5	32.9	76.13	-902.0	1,170.6	338.4	285.1	53.29	6.351		
8,300.0	7,838.0	8,175.1	7,750.3	38.4	33.8	75.06	-983.8	1,173.7	341.0	287.7	53.32	6.395		
8,400.0	7,847.7	8,258.3	7,756.8	39.4	34.6	74.60	-1,066.7	1,175.1	342.2	288.8	53.33	6.415		
8,500.0	7,847.8	8,354.8	7,756.8	40.3	35.7	74.58	-1,163.1	1,175.5	342.2	286.9	55.31	6.188		
8,600.0	7,847.6	8,454.8	7,756.6	41.3	36.9	74.58	-1,263.1	1,175.8	342.2	284.2	58.05	5.895		
8,700.0	7,847.4	8,554.8	7,756.4	42.5	38.1	74.58	-1,363.1	1,176.2	342.2	281.3	60.90	5.619		
8,800.0	7,847.2	8,654.8	7,756.2	43.6	39.4	74.59	-1,463.1	1,176.5	342.2	278.4	63.84	5.360		
8,900.0	7,847.0	8,754.8	7,756.0	44.9	40.8	74.59	-1,563.1	1,176.8	342.2	275.3	66.86	5.118		
9,000.0	7,846.8	8,854.8	7,755.8	46.1	42.2	74.59	-1,663.1	1,177.2	342.2	272.3	69.94	4.893		
9,100.0	7,846.5	8,954.8	7,755.6	47.4	43.6	74.59	-1,763.1	1,177.5	342.2	269.1	73.08	4.682		
9,200.0	7,846.3	9,054.8	7,755.4	48.8	45.1	74.60	-1,863.1	1,177.8	342.2	265.9	76.28	4.486		
9,300.0	7,846.1	9,154.8	7,755.2	50.2	46.6	74.60	-1,963.1	1,178.2	342.2	262.7	79.52	4.303		
9,400.0	7,845.9	9,254.8	7,755.0	51.6	48.1	74.60	-2,063.1	1,178.5	342.2	259.4	82.80	4.133		
9,500.0	7,845.7	9,354.8	7,754.8	53.1	49.7	74.60	-2,163.1	1,178.8	342.2	256.1	86.11	3.974		
9,600.0	7,845.5	9,454.8	7,754.6	54.6	51.2	74.60	-2,263.1	1,179.1	342.2	252.7	89.46	3.825		
9,700.0	7,845.3	9,554.8	7,754.4	56.1	52.8	74.61	-2,363.1	1,179.5	342.2	249.3	92.83	3.686		
9,800.0	7,845.0	9,654.8	7,754.2	57.6	54.5	74.61	-2,463.1	1,179.8	342.2	245.9	96.23	3.556		
9,900.0	7,844.8	9,754.8	7,754.0	59.2	56.1	74.61	-2,563.1	1,180.1	342.2	242.5	99.65	3.434		
10,000.0	7,844.6	9,854.8	7,753.8	60.8	57.8	74.61	-2,663.1	1,180.5	342.2	239.1	103.10	3.319		
10,100.0	7,844.4	9,954.8	7,753.6	62.4	59.5	74.62	-2,763.1	1,180.8	342.2	235.6	106.56	3.211		
10,200.0	7,844.2	10,054.8	7,753.4	64.0	61.1	74.62	-2,863.1	1,181.1	342.2	232.1	110.04	3.110		
10,300.0	7,844.0	10,154.8	7,753.2	65.6	62.8	74.62	-2,963.1	1,181.5	342.2	228.6	113.53	3.014		

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,400.0	7,843.7	10,254.8	7,753.0	67.3	64.6	74.62	-3,063.1	1,181.8	342.2	225.1	117.04	2.924		
10,500.0	7,843.5	10,354.8	7,752.8	68.9	66.3	74.62	-3,163.1	1,182.1	342.2	221.6	120.56	2.838		
10,600.0	7,843.3	10,454.8	7,752.6	70.6	68.0	74.63	-3,263.1	1,182.5	342.2	218.1	124.09	2.757		
10,700.0	7,843.1	10,554.8	7,752.4	72.3	69.8	74.63	-3,363.1	1,182.8	342.2	214.5	127.63	2.681		
10,800.0	7,842.9	10,654.8	7,752.2	74.0	71.5	74.63	-3,463.1	1,183.1	342.2	211.0	131.18	2.608		
10,900.0	7,842.7	10,754.8	7,752.0	75.7	73.3	74.63	-3,563.1	1,183.5	342.2	207.4	134.74	2.539		
11,000.0	7,842.5	10,854.8	7,751.8	77.4	75.1	74.63	-3,663.1	1,183.8	342.1	203.8	138.31	2.474		
11,100.0	7,842.2	10,954.8	7,751.6	79.1	76.8	74.64	-3,763.1	1,184.1	342.1	200.3	141.88	2.411		
11,200.0	7,842.0	11,054.8	7,751.4	80.9	78.6	74.64	-3,863.1	1,184.5	342.1	196.7	145.47	2.352		
11,300.0	7,841.8	11,154.8	7,751.2	82.6	80.4	74.64	-3,963.1	1,184.8	342.1	193.1	149.06	2.295		
11,400.0	7,841.6	11,254.8	7,751.0	84.4	82.2	74.64	-4,063.1	1,185.1	342.1	189.5	152.65	2.241		
11,500.0	7,841.4	11,354.8	7,750.8	86.1	84.0	74.65	-4,163.1	1,185.5	342.1	185.9	156.25	2.190		
11,600.0	7,841.2	11,454.8	7,750.6	87.9	85.8	74.65	-4,263.1	1,185.8	342.1	182.3	159.86	2.140		
11,700.0	7,841.0	11,554.8	7,750.4	89.7	87.6	74.65	-4,363.1	1,186.1	342.1	178.7	163.47	2.093		
11,800.0	7,840.7	11,654.8	7,750.2	91.5	89.4	74.65	-4,463.1	1,186.5	342.1	175.0	167.09	2.048		
11,900.0	7,840.5	11,754.8	7,750.0	93.2	91.3	74.65	-4,563.1	1,186.8	342.1	171.4	170.71	2.004		
12,000.0	7,840.3	11,854.8	7,749.8	95.0	93.1	74.66	-4,663.1	1,187.1	342.1	167.8	174.33	1.962		
12,100.0	7,840.1	11,954.8	7,749.6	96.8	94.9	74.66	-4,763.1	1,187.5	342.1	164.2	177.96	1.922		
12,200.0	7,839.9	12,054.8	7,749.4	98.6	96.7	74.66	-4,863.1	1,187.8	342.1	160.5	181.60	1.884		
12,300.0	7,839.7	12,154.8	7,749.2	100.4	98.6	74.66	-4,963.1	1,188.1	342.1	156.9	185.23	1.847		
12,400.0	7,839.5	12,254.8	7,749.0	102.2	100.4	74.67	-5,063.1	1,188.5	342.1	153.2	188.87	1.811		
12,500.0	7,839.2	12,354.8	7,748.8	104.0	102.2	74.67	-5,163.1	1,188.8	342.1	149.6	192.51	1.777		
12,600.0	7,839.0	12,454.8	7,748.6	105.9	104.1	74.67	-5,263.1	1,189.1	342.1	146.0	196.16	1.744		
12,700.0	7,838.8	12,554.8	7,748.4	107.7	105.9	74.67	-5,363.1	1,189.5	342.1	142.3	199.81	1.712		
12,800.0	7,838.6	12,654.8	7,748.2	109.5	107.8	74.67	-5,463.1	1,189.8	342.1	138.7	203.46	1.681		
12,900.0	7,838.4	12,754.8	7,748.0	111.3	109.6	74.68	-5,563.1	1,190.1	342.1	135.0	207.11	1.652		
13,000.0	7,838.2	12,854.8	7,747.8	113.2	111.5	74.68	-5,663.1	1,190.5	342.1	131.3	210.76	1.623		
13,100.0	7,837.9	12,954.8	7,747.6	115.0	113.3	74.68	-5,763.1	1,190.8	342.1	127.7	214.42	1.595		
13,200.0	7,837.7	13,054.8	7,747.4	116.8	115.2	74.68	-5,863.1	1,191.1	342.1	124.0	218.08	1.569		
13,300.0	7,837.5	13,154.8	7,747.2	118.7	117.1	74.69	-5,963.1	1,191.5	342.1	120.4	221.74	1.543		
13,400.0	7,837.3	13,254.8	7,747.0	120.5	118.9	74.69	-6,063.1	1,191.8	342.1	116.7	225.41	1.518		
13,500.0	7,837.1	13,354.8	7,746.8	122.3	120.8	74.69	-6,163.1	1,192.1	342.1	113.0	229.07	1.493 Level 3		
13,600.0	7,836.9	13,454.8	7,746.6	124.2	122.6	74.69	-6,263.1	1,192.4	342.1	109.3	232.74	1.470 Level 3		
13,700.0	7,836.7	13,554.8	7,746.4	126.0	124.5	74.69	-6,363.1	1,192.8	342.1	105.7	236.41	1.447 Level 3		
13,800.0	7,836.4	13,654.8	7,746.2	127.9	126.4	74.70	-6,463.1	1,193.1	342.1	102.0	240.08	1.425 Level 3		
13,900.0	7,836.2	13,754.8	7,746.0	129.7	128.2	74.70	-6,563.1	1,193.4	342.1	98.3	243.75	1.403 Level 3		
14,000.0	7,836.0	13,854.8	7,745.8	131.6	130.1	74.70	-6,663.1	1,193.8	342.1	94.7	247.42	1.383 Level 3		
14,100.0	7,835.8	13,954.8	7,745.6	133.4	132.0	74.70	-6,763.1	1,194.1	342.1	91.0	251.10	1.362 Level 3		
14,200.0	7,835.6	14,054.8	7,745.4	135.3	133.8	74.71	-6,863.1	1,194.4	342.1	87.3	254.77	1.343 Level 3		
14,300.0	7,835.4	14,154.8	7,745.1	137.1	135.7	74.71	-6,963.1	1,194.8	342.1	83.6	258.45	1.324 Level 3		
14,400.0	7,835.2	14,254.8	7,744.9	139.0	137.6	74.71	-7,063.1	1,195.1	342.1	79.9	262.13	1.305 Level 3		
14,500.0	7,834.9	14,354.8	7,744.7	140.9	139.5	74.71	-7,163.1	1,195.4	342.1	76.3	265.81	1.287 Level 3		
14,600.0	7,834.7	14,454.8	7,744.5	142.7	141.3	74.71	-7,263.1	1,195.8	342.1	72.6	269.49	1.269 Level 3		
14,700.0	7,834.5	14,554.8	7,744.3	144.6	143.2	74.72	-7,363.1	1,196.1	342.1	68.9	273.17	1.252 Level 3		
14,800.0	7,834.3	14,654.8	7,744.1	146.4	145.1	74.72	-7,463.1	1,196.4	342.1	65.2	276.85	1.236 Level 2		
14,900.0	7,834.1	14,754.8	7,743.9	148.3	147.0	74.72	-7,563.1	1,196.8	342.1	61.5	280.54	1.219 Level 2		
15,000.0	7,833.9	14,854.8	7,743.7	150.2	148.9	74.72	-7,663.1	1,197.1	342.1	57.8	284.22	1.203 Level 2		
15,100.0	7,833.6	14,954.8	7,743.5	152.0	150.7	74.73	-7,763.1	1,197.4	342.1	54.1	287.91	1.188 Level 2		
15,200.0	7,833.4	15,054.8	7,743.3	153.9	152.6	74.73	-7,863.1	1,197.8	342.1	50.5	291.59	1.173 Level 2		
15,300.0	7,833.2	15,154.8	7,743.1	155.8	154.5	74.73	-7,963.1	1,198.1	342.0	46.8	295.28	1.158 Level 2		
15,400.0	7,833.0	15,254.8	7,742.9	157.7	156.4	74.73	-8,063.1	1,198.4	342.0	43.1	298.97	1.144 Level 2		
15,500.0	7,832.8	15,354.8	7,742.7	159.5	158.3	74.73	-8,163.1	1,198.8	342.0	39.4	302.66	1.130 Level 2		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
15,600.0	7,832.6	15,454.8	7,742.5	161.4	160.2	74.74	-8,263.1	1,199.1	342.0	35.7	306.35	1.117	Level 2	
15,700.0	7,832.4	15,554.8	7,742.3	163.3	162.1	74.74	-8,363.1	1,199.4	342.0	32.0	310.04	1.103	Level 2	
15,800.0	7,832.1	15,654.8	7,742.1	165.2	163.9	74.74	-8,463.1	1,199.8	342.0	28.3	313.73	1.090	Level 2	
15,847.9	7,832.0	15,702.7	7,742.0	166.0	164.8	74.74	-8,511.0	1,199.9	342.0	26.5	315.49	1.084	Level 2	
15,866.0	7,832.0	15,717.4	7,742.0	166.4	165.1	74.74	-8,525.7	1,200.0	342.1	26.0	316.05	1.082	Level 2, SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	33.33	431.3	283.6	516.2					
100.0	100.0	97.0	97.0	0.1	0.1	33.33	431.3	283.6	516.2	516.0	0.22	2,331.591		
200.0	200.0	197.0	197.0	0.3	0.3	33.33	431.3	283.6	516.2	515.5	0.67	773.293		
300.0	300.0	297.0	297.0	0.6	0.6	33.33	431.3	283.6	516.2	515.1	1.12	462.109		
400.0	400.0	397.0	397.0	0.8	0.8	33.33	431.3	283.6	516.2	514.6	1.57	329.509		
500.0	500.0	514.3	514.3	1.0	1.0	-72.20	430.4	281.6	514.0	512.0	2.02	254.319		
600.0	599.8	631.3	631.0	1.2	1.3	-73.42	427.4	275.1	507.4	504.9	2.48	204.625		
700.0	699.5	746.4	745.6	1.4	1.6	-75.48	422.6	264.6	496.7	493.7	2.98	166.660		
800.0	798.7	858.9	857.0	1.7	1.9	-78.44	416.1	250.3	482.6	479.0	3.54	136.460		
900.0	897.5	968.0	964.3	2.0	2.3	-82.33	408.0	232.6	465.9	461.7	4.17	111.767		
1,000.0	995.6	1,064.4	1,058.6	2.4	2.6	-86.69	399.8	214.6	448.7	443.8	4.86	92.314		
1,100.0	1,093.3	1,156.6	1,148.9	2.8	3.0	-91.10	391.9	197.3	433.8	428.2	5.61	77.296		
1,200.0	1,191.0	1,248.8	1,239.1	3.2	3.4	-95.71	384.0	180.0	422.0	415.5	6.41	65.841		
1,300.0	1,288.7	1,341.1	1,329.4	3.7	3.8	-100.52	376.1	162.7	413.4	406.2	7.23	57.167		
1,400.0	1,386.5	1,433.3	1,419.6	4.1	4.2	-105.46	368.2	145.4	408.4	400.3	8.06	50.646		
1,488.9	1,473.3	1,515.3	1,499.9	4.5	4.6	-109.92	361.1	130.1	406.9	398.1	8.79	46.266 CC		
1,500.0	1,484.2	1,525.5	1,509.9	4.6	4.6	-110.48	360.3	128.1	406.9	398.0	8.88	45.800 ES		
1,600.0	1,581.9	1,617.8	1,600.1	5.0	5.0	-115.48	352.3	110.9	409.2	399.5	9.68	42.255		
1,700.0	1,679.6	1,710.0	1,690.4	5.5	5.5	-120.40	344.4	93.6	415.0	404.6	10.45	39.731		
1,800.0	1,777.3	1,802.2	1,780.6	5.9	5.9	-125.16	336.5	76.3	424.3	413.1	11.16	38.005		
1,900.0	1,875.0	1,894.4	1,870.8	6.4	6.3	-129.73	328.6	59.0	436.8	425.0	11.84	36.905		
2,000.0	1,972.7	1,986.7	1,961.1	6.8	6.7	-134.04	320.7	41.7	452.3	439.9	12.46	36.292		
2,100.0	2,070.4	2,078.9	2,051.3	7.3	7.1	-138.08	312.8	24.4	470.5	457.4	13.05	36.056		
2,200.0	2,168.1	2,171.1	2,141.6	7.8	7.5	-141.84	304.9	7.1	491.0	477.4	13.60	36.109		
2,300.0	2,265.8	2,263.3	2,231.8	8.2	8.0	-145.32	297.0	-10.2	513.7	499.6	14.12	36.379		
2,400.0	2,363.5	2,355.6	2,322.1	8.7	8.4	-148.52	289.1	-27.5	538.1	523.5	14.62	36.810		
2,500.0	2,461.2	2,447.8	2,412.3	9.2	8.8	-151.46	281.2	-44.8	564.2	549.1	15.10	37.358		
2,600.0	2,558.9	2,540.0	2,502.6	9.6	9.2	-154.15	273.3	-62.1	591.6	576.1	15.57	37.987		
2,700.0	2,656.6	2,632.2	2,592.8	10.1	9.6	-156.62	265.4	-79.4	620.3	604.2	16.04	38.670		
2,800.0	2,754.3	2,724.5	2,683.0	10.6	10.1	-158.88	257.5	-96.7	649.9	633.4	16.50	39.385		
2,900.0	2,852.0	2,816.7	2,773.3	11.0	10.5	-160.95	249.6	-114.0	680.5	663.5	16.96	40.116		
3,000.0	2,949.7	2,908.9	2,863.5	11.5	10.9	-162.85	241.7	-131.3	711.9	694.4	17.43	40.851		
3,100.0	3,047.4	3,001.2	2,953.8	12.0	11.3	-164.60	233.8	-148.6	743.9	726.0	17.89	41.580		
3,200.0	3,145.1	3,093.4	3,044.0	12.5	11.8	-166.21	225.9	-165.9	776.6	758.2	18.36	42.298		
3,300.0	3,242.8	3,185.6	3,134.3	12.9	12.2	-167.70	218.0	-183.2	809.7	790.9	18.83	43.000		
3,400.0	3,340.6	3,277.8	3,224.5	13.4	12.6	-169.07	210.1	-200.4	843.4	824.1	19.31	43.682		
3,500.0	3,438.3	3,370.1	3,314.8	13.9	13.0	-170.34	202.2	-217.7	877.4	857.7	19.79	44.342		
3,600.0	3,536.0	3,462.3	3,405.0	14.3	13.5	-171.52	194.3	-235.0	911.9	891.6	20.27	44.979		
3,700.0	3,633.7	3,554.5	3,495.3	14.8	13.9	-172.62	186.3	-252.3	946.6	925.9	20.76	45.593		
3,800.0	3,731.4	3,646.7	3,585.5	15.3	14.3	-173.64	178.4	-269.6	981.7	960.4	21.26	46.183		
7,100.0	6,955.6	9,851.9	7,839.6	30.8	56.0	-135.43	-101.7	1,318.8	922.6	848.8	73.83	12.496		
7,200.0	7,053.3	9,872.1	7,839.5	31.3	56.5	-132.55	-101.8	1,339.0	830.7	754.3	76.46	10.864		
7,300.0	7,151.1	9,892.3	7,839.4	31.8	57.0	-129.52	-101.8	1,359.2	740.4	661.3	79.11	9.359		
7,400.0	7,248.5	9,912.5	7,839.4	32.2	57.5	-142.96	-101.9	1,379.4	653.7	571.0	82.72	7.903		
7,500.0	7,344.0	9,932.4	7,839.3	32.7	58.0	-156.42	-102.0	1,399.3	578.7	494.8	83.86	6.901		
7,600.0	7,435.7	9,951.6	7,839.2	33.2	58.5	-162.72	-102.0	1,418.5	522.9	440.4	82.45	6.342		
7,700.0	7,521.8	9,969.7	7,839.2	33.8	59.0	-165.82	-102.1	1,436.6	494.1	415.0	79.09	6.248 SF		
7,739.1	7,553.6	9,976.4	7,839.1	34.1	59.1	-166.56	-102.1	1,443.3	491.5	414.2	77.31	6.358		
7,800.0	7,600.6	9,986.4	7,839.1	34.5	59.4	-167.39	-102.1	1,453.3	497.8	423.6	74.11	6.717		
7,900.0	7,670.6	10,001.4	7,839.0	35.2	59.8	-168.13	-102.2	1,468.2	533.3	465.5	67.81	7.864		
8,000.0	7,730.3	10,014.3	7,839.0	35.9	60.1	-168.36	-102.2	1,481.1	594.5	534.0	60.53	9.821		
8,100.0	7,778.8	10,024.9	7,839.0	36.7	60.4	-168.20	-102.3	1,491.8	673.6	620.9	52.71	12.780		

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
8,200.0	7,814.9	10,033.0	7,838.9	37.5	60.6	-167.57	-102.3	1,499.9	763.9	718.9	45.00	16.978	
8,300.0	7,838.0	10,038.5	7,838.9	38.4	60.7	-165.94	-102.3	1,505.4	860.5	822.0	38.49	22.358	
8,400.0	7,847.7	10,041.2	7,838.9	39.4	60.8	-149.75	-102.3	1,508.1	959.9	921.1	38.81	24.733	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	33.69	417.5	278.3	501.7					
100.0	100.0	97.0	97.0	0.1	0.1	33.69	417.5	278.3	501.7	501.5	0.22	2,266.164		
200.0	200.0	197.0	197.0	0.3	0.3	33.69	417.5	278.3	501.7	501.1	0.67	751.593		
300.0	300.0	316.0	316.0	0.6	0.6	33.60	416.1	276.4	499.9	498.7	1.14	438.284		
400.0	400.0	435.3	435.0	0.8	0.8	33.31	411.7	270.5	494.1	492.5	1.63	303.157		
500.0	500.0	553.5	552.6	1.0	1.2	-72.76	404.6	260.8	484.0	481.9	2.13	227.742		
600.0	599.8	669.9	667.8	1.2	1.5	-74.51	394.7	247.3	469.2	466.6	2.63	178.171		
700.0	699.5	783.6	779.6	1.4	2.0	-77.17	382.4	230.6	450.2	447.0	3.19	141.320		
800.0	798.7	889.9	883.2	1.7	2.4	-80.69	368.6	211.8	427.9	424.1	3.79	112.842		
900.0	897.5	983.8	974.6	2.0	2.9	-84.70	355.8	194.5	405.6	401.1	4.43	91.515		
1,000.0	995.6	1,076.6	1,065.0	2.4	3.3	-89.47	343.2	177.3	384.9	379.8	5.17	74.500		
1,100.0	1,093.3	1,168.6	1,154.6	2.8	3.8	-94.56	330.7	160.3	367.1	361.1	5.99	61.311		
1,200.0	1,191.0	1,260.7	1,244.2	3.2	4.2	-99.99	318.2	143.3	352.7	345.8	6.86	51.415		
1,300.0	1,288.7	1,352.8	1,333.8	3.7	4.7	-105.77	305.7	126.3	342.1	334.4	7.76	44.091		
1,400.0	1,386.5	1,444.8	1,423.4	4.1	5.1	-111.80	293.2	109.3	335.8	327.2	8.66	38.759		
1,490.1	1,474.5	1,527.8	1,504.2	4.5	5.5	-117.34	281.9	94.0	334.0	324.5	9.46	35.300		
1,500.0	1,484.2	1,536.9	1,513.0	4.6	5.6	-117.95	280.7	92.3	334.0	324.5	9.55	34.987		
1,600.0	1,581.9	1,628.9	1,602.6	5.0	6.0	-124.08	268.2	75.3	336.7	326.4	10.38	32.430		
1,700.0	1,679.6	1,721.0	1,692.2	5.5	6.5	-130.07	255.7	58.3	343.9	332.7	11.16	30.817		
1,800.0	1,777.3	1,813.1	1,781.9	5.9	6.9	-135.78	243.2	41.3	355.2	343.4	11.87	29.930		
1,900.0	1,875.0	1,905.1	1,871.5	6.4	7.4	-141.14	230.7	24.3	370.4	357.8	12.51	29.594		
2,000.0	1,972.7	1,997.2	1,961.1	6.8	7.9	-146.10	218.2	7.3	388.8	375.7	13.11	29.668		
2,100.0	2,070.4	2,089.2	2,050.7	7.3	8.3	-150.62	205.7	-9.7	410.2	396.6	13.66	30.040		
2,200.0	2,168.1	2,181.3	2,140.3	7.8	8.8	-154.72	193.2	-26.7	434.0	419.9	14.18	30.620		
2,300.0	2,265.8	2,273.4	2,229.9	8.2	9.2	-158.42	180.7	-43.7	460.0	445.3	14.68	31.341		
2,400.0	2,363.5	2,365.4	2,319.5	8.7	9.7	-161.74	168.2	-60.7	487.6	472.5	15.17	32.149		
2,500.0	2,461.2	2,457.5	2,409.1	9.2	10.2	-164.73	155.7	-77.7	516.8	501.1	15.66	33.008		
2,600.0	2,558.9	2,549.5	2,498.7	9.6	10.6	-167.41	143.2	-94.7	547.2	531.0	16.15	33.887		
2,700.0	2,656.6	2,641.6	2,588.3	10.1	11.1	-169.82	130.7	-111.8	578.6	562.0	16.64	34.769		
2,800.0	2,754.3	2,733.7	2,677.9	10.6	11.5	-171.99	118.2	-128.8	610.9	593.8	17.14	35.638		
2,900.0	2,852.0	2,825.7	2,767.5	11.0	12.0	-173.95	105.6	-145.8	644.0	626.3	17.65	36.486		
3,000.0	2,949.7	2,917.8	2,857.1	11.5	12.5	-175.73	93.1	-162.8	677.6	659.5	18.16	37.306		
3,100.0	3,047.4	3,009.8	2,946.8	12.0	12.9	-177.35	80.6	-179.8	711.9	693.2	18.69	38.096		
3,200.0	3,145.1	3,101.9	3,036.4	12.5	13.4	-178.82	68.1	-196.8	746.6	727.4	19.22	38.854		
3,300.0	3,242.8	3,194.0	3,126.0	12.9	13.8	-179.83	55.6	-213.8	781.7	762.0	19.75	39.579		
3,400.0	3,340.6	3,286.0	3,215.6	13.4	14.3	-178.60	43.1	-230.8	817.2	796.9	20.29	40.271		
3,500.0	3,438.3	3,378.1	3,305.2	13.9	14.8	-177.47	30.6	-247.8	853.0	832.1	20.84	40.932		
3,600.0	3,536.0	3,470.1	3,394.8	14.3	15.2	-176.43	18.1	-264.8	889.0	867.7	21.39	41.561		
3,700.0	3,633.7	3,562.2	3,484.4	14.8	15.7	-175.46	5.6	-281.8	925.3	903.4	21.95	42.161		
3,800.0	3,731.4	3,654.3	3,574.0	15.3	16.1	-174.57	-6.9	-298.8	961.9	939.4	22.51	42.733		
3,900.0	3,829.1	3,746.3	3,663.6	15.7	16.6	-173.74	-19.4	-315.8	998.6	975.5	23.07	43.278		
6,900.0	6,760.2	9,750.5	7,749.1	29.9	54.8	155.89	-431.6	1,276.7	995.7	950.7	45.02	22.118		
7,000.0	6,857.9	9,770.7	7,749.0	30.3	55.3	154.94	-431.7	1,296.9	897.8	851.9	45.90	19.561		
7,100.0	6,955.6	9,791.0	7,748.9	30.8	55.8	153.77	-431.7	1,317.2	799.9	753.0	46.96	17.035		
7,200.0	7,053.3	9,811.2	7,748.9	31.3	56.3	152.28	-431.8	1,337.4	702.1	653.8	48.28	14.541		
7,300.0	7,151.1	9,831.5	7,748.8	31.8	56.8	150.34	-431.9	1,357.6	604.3	554.3	50.01	12.083		
7,400.0	7,248.5	9,851.7	7,748.7	32.2	57.3	153.83	-431.9	1,377.9	506.4	463.7	42.76	11.843		
7,500.0	7,344.0	9,871.6	7,748.7	32.7	57.8	170.08	-432.0	1,397.8	409.2	346.4	62.76	6.520		
7,600.0	7,435.7	9,890.8	7,748.6	33.2	58.3	-179.79	-432.1	1,417.0	315.9	241.4	74.47	4.241		
7,700.0	7,521.8	9,908.9	7,748.5	33.8	58.8	-174.69	-432.1	1,435.1	234.3	158.2	76.11	3.079		
7,800.0	7,606.6	9,925.6	7,748.5	34.5	59.2	-171.61	-432.2	1,451.8	183.9	110.6	73.28	2.510		
7,836.5	7,627.3	9,931.3	7,748.5	34.7	59.3	-170.70	-432.2	1,457.5	179.4	107.8	71.61	2.506 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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 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			
7,900.0	7,670.6	9,940.6	7,748.4	35.2	59.6	-169.20	-432.2	1,466.8	192.7	124.5	68.15	2.827			
8,000.0	7,730.3	9,953.5	7,748.4	35.9	59.9	-166.71	-432.3	1,479.7	254.8	193.0	61.72	4.127			
8,100.0	7,778.8	9,964.2	7,748.3	36.7	60.2	-163.20	-432.3	1,490.4	341.7	286.8	54.88	6.227			
8,200.0	7,814.9	9,972.3	7,748.3	37.5	60.4	-155.24	-432.3	1,498.5	438.1	388.7	49.36	8.874			
8,300.0	7,838.0	9,977.8	7,748.3	38.4	60.5	-94.36	-432.4	1,504.0	537.5	484.7	52.82	10.176			
8,400.0	7,847.7	9,980.5	7,748.3	39.4	60.6	-5.84	-432.4	1,506.7	637.2	604.2	32.99	19.316			
8,500.0	7,847.8	9,981.3	7,748.3	40.3	60.6	-2.62	-432.4	1,507.4	736.2	703.4	32.87	22.398			
8,600.0	7,847.6	9,981.9	7,748.3	41.3	60.6	-3.01	-432.4	1,508.1	835.4	802.1	33.37	25.032			
8,700.0	7,847.4	9,982.6	7,748.3	42.5	60.6	-3.40	-432.4	1,508.8	934.8	900.9	33.91	27.566			

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	23.04	13.8	5.9	15.0	15.0	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	23.04	13.8	5.9	15.0	14.8	0.22	66.906		
200.0	200.0	200.0	200.0	0.3	0.3	23.04	13.8	5.9	15.0	14.4	0.67	22.302	CC	
300.0	300.0	299.9	299.8	0.6	0.5	29.41	13.4	7.6	15.4	14.3	1.11	13.886	ES	
400.0	400.0	399.5	399.3	0.8	0.8	45.86	12.3	12.7	17.6	16.1	1.56	11.340		
500.0	500.0	498.8	498.3	1.0	1.0	-44.17	10.3	21.1	22.2	20.2	2.00	11.129		
600.0	599.8	597.9	596.6	1.2	1.3	-34.91	7.6	32.8	27.9	25.4	2.44	11.410		
700.0	699.5	696.7	694.2	1.4	1.6	-29.07	4.2	47.7	34.0	31.1	2.91	11.706		
800.0	798.7	795.3	791.0	1.7	2.0	-25.24	0.0	65.9	40.4	37.0	3.39	11.929		
900.0	897.5	893.7	886.9	2.0	2.4	-22.62	-4.9	87.3	47.0	43.1	3.89	12.064		
1,000.0	995.6	992.9	983.0	2.4	2.9	-21.01	-10.5	111.5	52.9	48.5	4.42	11.969		
1,100.0	1,093.3	1,092.8	1,079.7	2.8	3.5	-20.43	-16.2	136.1	57.1	52.1	4.99	11.440		
1,200.0	1,191.0	1,192.7	1,176.4	3.2	4.0	-19.94	-21.9	160.6	61.2	55.6	5.56	10.992		
1,300.0	1,288.7	1,292.6	1,273.0	3.7	4.5	-19.52	-27.5	185.2	65.3	59.1	6.14	10.622		
1,400.0	1,386.5	1,392.6	1,369.7	4.1	5.0	-19.14	-33.2	209.8	69.4	62.6	6.73	10.309		
1,500.0	1,484.2	1,492.5	1,466.4	4.6	5.6	-18.81	-38.9	234.3	73.5	66.2	7.32	10.043		
1,600.0	1,581.9	1,592.4	1,563.1	5.0	6.1	-18.51	-44.5	258.9	77.6	69.7	7.91	9.816		
1,700.0	1,679.6	1,692.3	1,659.8	5.5	6.6	-18.24	-50.2	283.4	81.7	73.2	8.50	9.619		
1,800.0	1,777.3	1,792.2	1,756.4	5.9	7.2	-18.00	-55.9	308.0	85.8	76.8	9.09	9.447		
1,900.0	1,875.0	1,892.1	1,853.1	6.4	7.7	-17.78	-61.5	332.6	90.0	80.3	9.68	9.296		
2,000.0	1,972.7	1,992.0	1,949.8	6.8	8.3	-17.58	-67.2	357.1	94.1	83.8	10.27	9.162		
2,100.0	2,070.4	2,092.0	2,046.5	7.3	8.8	-17.40	-72.9	381.7	98.2	87.3	10.86	9.042		
2,200.0	2,168.1	2,191.9	2,143.2	7.8	9.3	-17.23	-78.5	406.3	102.3	90.9	11.45	8.935		
2,300.0	2,265.8	2,291.8	2,239.8	8.2	9.9	-17.07	-84.2	430.8	106.5	94.4	12.04	8.838		
2,400.0	2,363.5	2,391.7	2,336.5	8.7	10.4	-16.93	-89.9	455.4	110.6	97.9	12.64	8.750		
2,500.0	2,461.2	2,491.6	2,433.2	9.2	11.0	-16.79	-95.5	480.0	114.7	101.5	13.23	8.671		
2,600.0	2,558.9	2,591.5	2,529.9	9.6	11.5	-16.67	-101.2	504.5	118.8	105.0	13.82	8.598		
2,700.0	2,656.6	2,691.4	2,626.6	10.1	12.1	-16.55	-106.9	529.1	123.0	108.5	14.41	8.531		
2,800.0	2,754.3	2,791.4	2,723.3	10.6	12.6	-16.45	-112.5	553.7	127.1	112.1	15.01	8.469		
2,900.0	2,852.0	2,891.3	2,819.9	11.0	13.1	-16.34	-118.2	578.2	131.2	115.6	15.60	8.412		
3,000.0	2,949.7	2,991.2	2,916.6	11.5	13.7	-16.25	-123.9	602.8	135.3	119.1	16.19	8.359		
3,100.0	3,047.4	3,091.1	3,013.3	12.0	14.2	-16.16	-129.5	627.4	139.5	122.7	16.78	8.310		
3,200.0	3,145.1	3,191.0	3,110.0	12.5	14.8	-16.07	-135.2	651.9	143.6	126.2	17.38	8.265		
3,300.0	3,242.8	3,290.9	3,206.7	12.9	15.3	-15.99	-140.9	676.5	147.7	129.8	17.97	8.222		
3,400.0	3,340.6	3,390.8	3,303.3	13.4	15.9	-15.92	-146.5	701.1	151.9	133.3	18.56	8.182		
3,500.0	3,438.3	3,490.8	3,400.0	13.9	16.4	-15.85	-152.2	725.6	156.0	136.8	19.15	8.145		
3,600.0	3,536.0	3,590.7	3,496.7	14.3	17.0	-15.78	-157.9	750.2	160.1	140.4	19.74	8.110		
3,700.0	3,633.7	3,690.6	3,593.4	14.8	17.5	-15.71	-163.5	774.8	164.2	143.9	20.34	8.076		
3,800.0	3,731.4	3,790.5	3,690.1	15.3	18.0	-15.65	-169.2	799.3	168.4	147.4	20.93	8.045		
3,900.0	3,829.1	3,890.4	3,786.8	15.7	18.6	-15.59	-174.9	823.9	172.5	151.0	21.52	8.016		
4,000.0	3,926.8	3,990.3	3,883.4	16.2	19.1	-15.54	-180.5	848.5	176.6	154.5	22.11	7.988		
4,100.0	4,024.5	4,090.2	3,980.1	16.7	19.7	-15.48	-186.2	873.0	180.8	158.1	22.70	7.962		
4,200.0	4,122.2	4,190.2	4,076.8	17.2	20.2	-15.43	-191.9	897.6	184.9	161.6	23.30	7.937		
4,300.0	4,219.9	4,290.1	4,173.5	17.6	20.8	-15.39	-197.5	922.2	189.0	165.1	23.89	7.913		
4,400.0	4,317.6	4,390.0	4,270.2	18.1	21.3	-15.34	-203.2	946.7	193.2	168.7	24.48	7.890		
4,500.0	4,415.3	4,489.9	4,366.8	18.6	21.9	-15.29	-208.9	971.3	197.3	172.2	25.07	7.869		
4,600.0	4,513.0	4,589.8	4,463.5	19.0	22.4	-15.25	-214.5	995.9	201.4	175.8	25.67	7.848		
4,700.0	4,610.7	4,689.7	4,560.2	19.5	22.9	-15.21	-220.2	1,020.4	205.6	179.3	26.26	7.828		
4,800.0	4,708.4	4,789.7	4,656.9	20.0	23.5	-15.17	-225.9	1,045.0	209.7	182.8	26.85	7.810		
4,900.0	4,806.1	4,889.6	4,753.6	20.5	24.0	-15.13	-231.5	1,069.6	213.8	186.4	27.44	7.792		
5,000.0	4,903.8	4,989.5	4,850.3	20.9	24.6	-15.10	-237.2	1,094.1	217.9	189.9	28.03	7.775		
5,100.0	5,001.5	5,089.4	4,946.9	21.4	25.1	-15.06	-242.9	1,118.7	222.1	193.5	28.63	7.758		

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 O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.0	5,099.2	5,189.3	5,043.6	21.9	25.7	-15.03	-248.5	1,143.2	226.2	197.0	29.22	7.742		
5,300.0	5,196.9	5,289.2	5,140.3	22.3	26.2	-15.00	-254.2	1,167.8	230.3	200.5	29.81	7.727		
5,400.0	5,294.7	5,389.1	5,237.0	22.8	26.8	-14.96	-259.9	1,192.4	234.5	204.1	30.40	7.713		
5,500.0	5,392.4	5,489.1	5,333.7	23.3	27.3	-14.93	-265.5	1,216.9	238.6	207.6	30.99	7.699		
5,600.0	5,490.1	5,589.0	5,430.3	23.7	27.8	-14.90	-271.2	1,241.5	242.7	211.2	31.58	7.685		
5,700.0	5,587.8	5,688.9	5,527.0	24.2	28.4	-14.88	-276.9	1,266.1	246.9	214.7	32.18	7.672		
5,800.0	5,685.5	5,788.8	5,623.7	24.7	28.9	-14.85	-282.5	1,290.6	251.0	218.2	32.77	7.660		
5,900.0	5,783.2	5,888.7	5,720.4	25.2	29.5	-14.82	-288.2	1,315.2	255.1	221.8	33.36	7.648		
6,000.0	5,880.9	5,988.6	5,817.1	25.6	30.0	-14.80	-293.9	1,339.8	259.3	225.3	33.95	7.636		
6,100.0	5,978.6	6,088.5	5,913.7	26.1	30.6	-14.77	-299.5	1,364.3	263.4	228.9	34.54	7.625		
6,200.0	6,076.3	6,188.5	6,010.4	26.6	31.1	-14.75	-305.2	1,388.9	267.5	232.4	35.14	7.614		
6,300.0	6,174.0	6,288.4	6,107.1	27.0	31.7	-14.72	-310.9	1,413.5	271.7	235.9	35.73	7.604		
6,400.0	6,271.7	6,388.3	6,203.8	27.5	32.2	-14.70	-316.5	1,438.0	275.8	239.5	36.32	7.594		
6,500.0	6,369.4	6,488.2	6,300.5	28.0	32.7	-14.68	-322.2	1,462.6	279.9	243.0	36.91	7.584		
6,600.0	6,467.1	6,588.1	6,397.2	28.5	33.3	-14.66	-327.9	1,487.2	284.1	246.6	37.50	7.574		
6,700.0	6,564.8	6,688.0	6,493.8	28.9	33.8	-14.64	-333.5	1,511.7	288.2	250.1	38.10	7.565		
6,800.0	6,662.5	6,787.9	6,590.5	29.4	34.4	-14.62	-339.2	1,536.3	292.3	253.6	38.69	7.556		
6,900.0	6,760.2	6,887.9	6,687.2	29.9	34.9	-14.60	-344.9	1,560.9	296.5	257.2	39.28	7.548		
7,000.0	6,857.9	6,987.8	6,783.9	30.3	35.5	-14.58	-350.5	1,585.4	300.6	260.7	39.87	7.539		
7,100.0	6,955.6	7,087.7	6,880.6	30.8	36.0	-14.56	-356.2	1,610.0	304.7	264.3	40.46	7.531		
7,200.0	7,053.3	7,187.6	6,977.2	31.3	36.6	-14.54	-361.9	1,634.6	308.9	267.8	41.05	7.523		
7,300.0	7,151.1	7,287.5	7,073.9	31.8	37.1	-14.52	-367.5	1,659.1	313.0	271.3	41.65	7.515		
7,400.0	7,248.5	7,387.2	7,170.1	32.2	37.6	-33.70	-376.6	1,683.6	317.1	275.0	42.14	7.525		
7,500.0	7,344.0	7,486.7	7,264.0	32.7	38.2	-51.88	-398.6	1,707.5	321.2	278.4	42.73	7.517		
7,600.0	7,435.7	7,586.0	7,353.9	33.2	38.8	-61.18	-433.8	1,730.5	325.1	281.6	43.49	7.473		
7,700.0	7,521.8	7,685.3	7,438.2	33.8	39.4	-66.35	-481.5	1,752.0	328.7	284.2	44.47	7.391		
7,800.0	7,600.6	7,784.5	7,515.2	34.5	40.0	-69.45	-540.6	1,771.8	332.0	286.4	45.69	7.268		
7,900.0	7,670.6	7,883.6	7,583.5	35.2	40.7	-71.41	-610.1	1,789.4	335.0	287.8	47.17	7.102		
8,000.0	7,730.3	7,982.6	7,641.8	35.9	41.5	-72.70	-688.6	1,804.5	337.5	288.6	48.95	6.895		
8,100.0	7,778.8	8,081.6	7,689.1	36.7	42.2	-73.55	-774.7	1,816.9	339.6	288.5	51.04	6.654		
8,200.0	7,814.9	8,180.7	7,724.4	37.5	43.0	-74.10	-866.6	1,826.2	341.1	287.7	53.41	6.386		
8,300.0	7,838.0	8,279.7	7,747.0	38.4	43.8	-74.43	-962.8	1,832.3	342.1	286.0	56.04	6.104		
8,400.0	7,847.7	8,378.7	7,756.7	39.4	44.6	-74.58	-1,061.2	1,835.1	342.5	283.6	58.87	5.818		
8,500.0	7,847.8	8,478.5	7,756.8	40.3	45.4	-74.59	-1,161.0	1,835.5	342.5	281.0	61.45	5.574		
8,600.0	7,847.6	8,578.5	7,756.6	41.3	46.3	-74.60	-1,261.0	1,835.9	342.5	278.3	64.18	5.336		
8,700.0	7,847.4	8,678.5	7,756.4	42.5	47.3	-74.60	-1,361.0	1,836.2	342.5	275.4	67.04	5.109		
8,800.0	7,847.2	8,778.5	7,756.2	43.6	48.4	-74.60	-1,461.0	1,836.5	342.5	272.5	69.97	4.894		
8,900.0	7,847.0	8,878.5	7,756.0	44.9	49.5	-74.60	-1,560.9	1,836.9	342.5	269.5	72.97	4.693		
9,000.0	7,846.8	8,978.5	7,755.8	46.1	50.6	-74.60	-1,660.9	1,837.2	342.4	266.4	76.04	4.503		
9,100.0	7,846.5	9,078.5	7,755.6	47.4	51.8	-74.61	-1,760.9	1,837.5	342.4	263.3	79.16	4.326		
9,200.0	7,846.3	9,178.5	7,755.4	48.8	53.1	-74.61	-1,860.9	1,837.9	342.4	260.1	82.34	4.159		
9,300.0	7,846.1	9,278.5	7,755.2	50.2	54.3	-74.61	-1,960.9	1,838.2	342.4	256.9	85.55	4.002		
9,400.0	7,845.9	9,378.5	7,755.0	51.6	55.7	-74.61	-2,060.9	1,838.5	342.4	253.6	88.81	3.856		
9,500.0	7,845.7	9,478.5	7,754.8	53.1	57.0	-74.61	-2,160.9	1,838.9	342.4	250.3	92.10	3.718		
9,600.0	7,845.5	9,578.5	7,754.6	54.6	58.4	-74.62	-2,260.9	1,839.2	342.4	247.0	95.42	3.588		
9,700.0	7,845.3	9,678.5	7,754.4	56.1	59.8	-74.62	-2,360.9	1,839.5	342.4	243.6	98.77	3.467		
9,800.0	7,845.0	9,778.5	7,754.2	57.6	61.2	-74.62	-2,460.9	1,839.9	342.4	240.3	102.15	3.352		
9,900.0	7,844.8	9,878.5	7,754.0	59.2	62.7	-74.62	-2,560.9	1,840.2	342.4	236.8	105.54	3.244		
10,000.0	7,844.6	9,978.5	7,753.8	60.8	64.2	-74.62	-2,660.9	1,840.5	342.4	233.4	108.96	3.142		
10,100.0	7,844.4	10,078.5	7,753.6	62.4	65.7	-74.63	-2,760.9	1,840.8	342.4	230.0	112.40	3.046		
10,200.0	7,844.2	10,178.5	7,753.4	64.0	67.2	-74.63	-2,860.9	1,841.2	342.4	226.5	115.86	2.955		
10,300.0	7,844.0	10,278.5	7,753.2	65.6	68.8	-74.63	-2,960.9	1,841.5	342.4	223.0	119.33	2.869		

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Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 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 Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,400.0	7,843.7	10,378.5	7,753.0	67.3	70.4	-74.63	-3,060.9	1,841.8	342.4	219.5	122.81	2.788		
10,500.0	7,843.5	10,478.5	7,752.8	68.9	71.9	-74.63	-3,160.9	1,842.2	342.4	216.0	126.31	2.710		
10,600.0	7,843.3	10,578.5	7,752.6	70.6	73.6	-74.64	-3,260.9	1,842.5	342.3	212.5	129.82	2.637		
10,700.0	7,843.1	10,678.5	7,752.4	72.3	75.2	-74.64	-3,360.9	1,842.8	342.3	209.0	133.34	2.567		
10,800.0	7,842.9	10,778.5	7,752.2	74.0	76.8	-74.64	-3,460.9	1,843.2	342.3	205.5	136.88	2.501		
10,900.0	7,842.7	10,878.5	7,752.0	75.7	78.5	-74.64	-3,560.9	1,843.5	342.3	201.9	140.42	2.438		
11,000.0	7,842.5	10,978.5	7,751.8	77.4	80.1	-74.64	-3,660.9	1,843.8	342.3	198.4	143.97	2.378		
11,100.0	7,842.2	11,078.5	7,751.6	79.1	81.8	-74.65	-3,760.9	1,844.2	342.3	194.8	147.53	2.320		
11,200.0	7,842.0	11,178.5	7,751.4	80.9	83.5	-74.65	-3,860.9	1,844.5	342.3	191.2	151.10	2.266		
11,300.0	7,841.8	11,278.5	7,751.2	82.6	85.2	-74.65	-3,960.9	1,844.8	342.3	187.6	154.67	2.213		
11,400.0	7,841.6	11,378.5	7,751.0	84.4	86.9	-74.65	-4,060.9	1,845.1	342.3	184.0	158.25	2.163		
11,500.0	7,841.4	11,478.5	7,750.8	86.1	88.6	-74.66	-4,160.9	1,845.5	342.3	180.5	161.84	2.115		
11,600.0	7,841.2	11,578.5	7,750.6	87.9	90.3	-74.66	-4,260.9	1,845.8	342.3	176.9	165.43	2.069		
11,700.0	7,841.0	11,678.5	7,750.4	89.7	92.0	-74.66	-4,360.9	1,846.1	342.3	173.3	169.03	2.025		
11,800.0	7,840.7	11,778.5	7,750.2	91.5	93.7	-74.66	-4,460.9	1,846.5	342.3	169.6	172.63	1.983		
11,900.0	7,840.5	11,878.5	7,750.0	93.2	95.5	-74.66	-4,560.9	1,846.8	342.3	166.0	176.24	1.942		
12,000.0	7,840.3	11,978.5	7,749.8	95.0	97.2	-74.67	-4,660.9	1,847.1	342.3	162.4	179.85	1.903		
12,100.0	7,840.1	12,078.5	7,749.6	96.8	99.0	-74.67	-4,760.9	1,847.5	342.3	158.8	183.47	1.865		
12,200.0	7,839.9	12,178.5	7,749.4	98.6	100.7	-74.67	-4,860.9	1,847.8	342.3	155.2	187.09	1.829		
12,300.0	7,839.7	12,278.5	7,749.2	100.4	102.5	-74.67	-4,960.9	1,848.1	342.2	151.5	190.71	1.795		
12,400.0	7,839.5	12,378.5	7,749.0	102.2	104.3	-74.67	-5,060.9	1,848.5	342.2	147.9	194.34	1.761		
12,500.0	7,839.2	12,478.5	7,748.8	104.0	106.1	-74.68	-5,160.9	1,848.8	342.2	144.3	197.97	1.729		
12,600.0	7,839.0	12,578.5	7,748.6	105.9	107.8	-74.68	-5,260.9	1,849.1	342.2	140.6	201.61	1.697		
12,700.0	7,838.8	12,678.5	7,748.4	107.7	109.6	-74.68	-5,360.9	1,849.5	342.2	137.0	205.25	1.667		
12,800.0	7,838.6	12,778.5	7,748.2	109.5	111.4	-74.68	-5,460.9	1,849.8	342.2	133.3	208.89	1.638		
12,900.0	7,838.4	12,878.5	7,748.0	111.3	113.2	-74.68	-5,560.9	1,850.1	342.2	129.7	212.53	1.610		
13,000.0	7,838.2	12,978.5	7,747.8	113.2	115.0	-74.69	-5,660.9	1,850.4	342.2	126.0	216.18	1.583		
13,100.0	7,837.9	13,078.5	7,747.6	115.0	116.8	-74.69	-5,760.9	1,850.8	342.2	122.4	219.83	1.557		
13,200.0	7,837.7	13,178.5	7,747.4	116.8	118.6	-74.69	-5,860.9	1,851.1	342.2	118.7	223.48	1.531		
13,300.0	7,837.5	13,278.5	7,747.2	118.7	120.4	-74.69	-5,960.9	1,851.4	342.2	115.1	227.13	1.507		
13,400.0	7,837.3	13,378.5	7,747.0	120.5	122.2	-74.69	-6,060.9	1,851.8	342.2	111.4	230.78	1.483 Level 3		
13,500.0	7,837.1	13,478.5	7,746.8	122.3	124.1	-74.70	-6,160.9	1,852.1	342.2	107.7	234.44	1.460 Level 3		
13,600.0	7,836.9	13,578.5	7,746.6	124.2	125.9	-74.70	-6,260.9	1,852.4	342.2	104.1	238.10	1.437 Level 3		
13,700.0	7,836.7	13,678.5	7,746.4	126.0	127.7	-74.70	-6,360.9	1,852.8	342.2	100.4	241.76	1.415 Level 3		
13,800.0	7,836.4	13,778.5	7,746.2	127.9	129.5	-74.70	-6,460.9	1,853.1	342.2	96.7	245.43	1.394 Level 3		
13,900.0	7,836.2	13,878.5	7,746.0	129.7	131.4	-74.70	-6,560.9	1,853.4	342.1	93.1	249.09	1.374 Level 3		
14,000.0	7,836.0	13,978.5	7,745.8	131.6	133.2	-74.71	-6,660.9	1,853.8	342.1	89.4	252.76	1.354 Level 3		
14,100.0	7,835.8	14,078.5	7,745.6	133.4	135.0	-74.71	-6,760.9	1,854.1	342.1	85.7	256.42	1.334 Level 3		
14,200.0	7,835.6	14,178.5	7,745.4	135.3	136.8	-74.71	-6,860.9	1,854.4	342.1	82.0	260.09	1.315 Level 3		
14,300.0	7,835.4	14,278.5	7,745.2	137.1	138.7	-74.71	-6,960.9	1,854.8	342.1	78.4	263.76	1.297 Level 3		
14,400.0	7,835.2	14,378.5	7,745.0	139.0	140.5	-74.71	-7,060.9	1,855.1	342.1	74.7	267.44	1.279 Level 3		
14,500.0	7,834.9	14,478.5	7,744.8	140.9	142.4	-74.72	-7,160.9	1,855.4	342.1	71.0	271.11	1.262 Level 3		
14,600.0	7,834.7	14,578.5	7,744.6	142.7	144.2	-74.72	-7,260.9	1,855.7	342.1	67.3	274.79	1.245 Level 2		
14,700.0	7,834.5	14,678.5	7,744.4	144.6	146.0	-74.72	-7,360.9	1,856.1	342.1	63.6	278.46	1.229 Level 2		
14,800.0	7,834.3	14,778.5	7,744.2	146.4	147.9	-74.72	-7,460.9	1,856.4	342.1	60.0	282.14	1.213 Level 2		
14,900.0	7,834.1	14,878.5	7,744.0	148.3	149.7	-74.73	-7,560.9	1,856.7	342.1	56.3	285.82	1.197 Level 2		
15,000.0	7,833.9	14,978.5	7,743.8	150.2	151.6	-74.73	-7,660.9	1,857.1	342.1	52.6	289.50	1.182 Level 2		
15,100.0	7,833.6	15,078.5	7,743.6	152.0	153.4	-74.73	-7,760.9	1,857.4	342.1	48.9	293.18	1.167 Level 2		
15,200.0	7,833.4	15,178.5	7,743.4	153.9	155.3	-74.73	-7,860.9	1,857.7	342.1	45.2	296.86	1.152 Level 2		
15,300.0	7,833.2	15,278.5	7,743.1	155.8	157.2	-74.73	-7,960.9	1,858.1	342.1	41.5	300.54	1.138 Level 2		
15,400.0	7,833.0	15,378.5	7,742.9	157.7	159.0	-74.74	-8,060.9	1,858.4	342.1	37.8	304.23	1.124 Level 2		
15,500.0	7,832.8	15,478.5	7,742.7	159.5	160.9	-74.74	-8,160.9	1,858.7	342.1	34.1	307.91	1.111 Level 2		

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Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey P-14-23HN - Wellbore #1 - Plan #2 (11-5-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
15,600.0	7,832.6	15,578.5	7,742.5	161.4	162.7	-74.74	-8,260.9	1,859.1	342.0	30.5	311.60	1.098	Level 2	
15,700.0	7,832.4	15,678.5	7,742.3	163.3	164.6	-74.74	-8,360.9	1,859.4	342.0	26.8	315.28	1.085	Level 2	
15,800.0	7,832.1	15,778.5	7,742.1	165.2	166.4	-74.74	-8,460.9	1,859.7	342.0	23.1	318.97	1.072	Level 2	
15,866.0	7,832.0	15,844.5	7,742.0	166.4	167.6	-74.75	-8,526.9	1,859.9	342.0	20.8	321.25	1.065	Level 2, SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

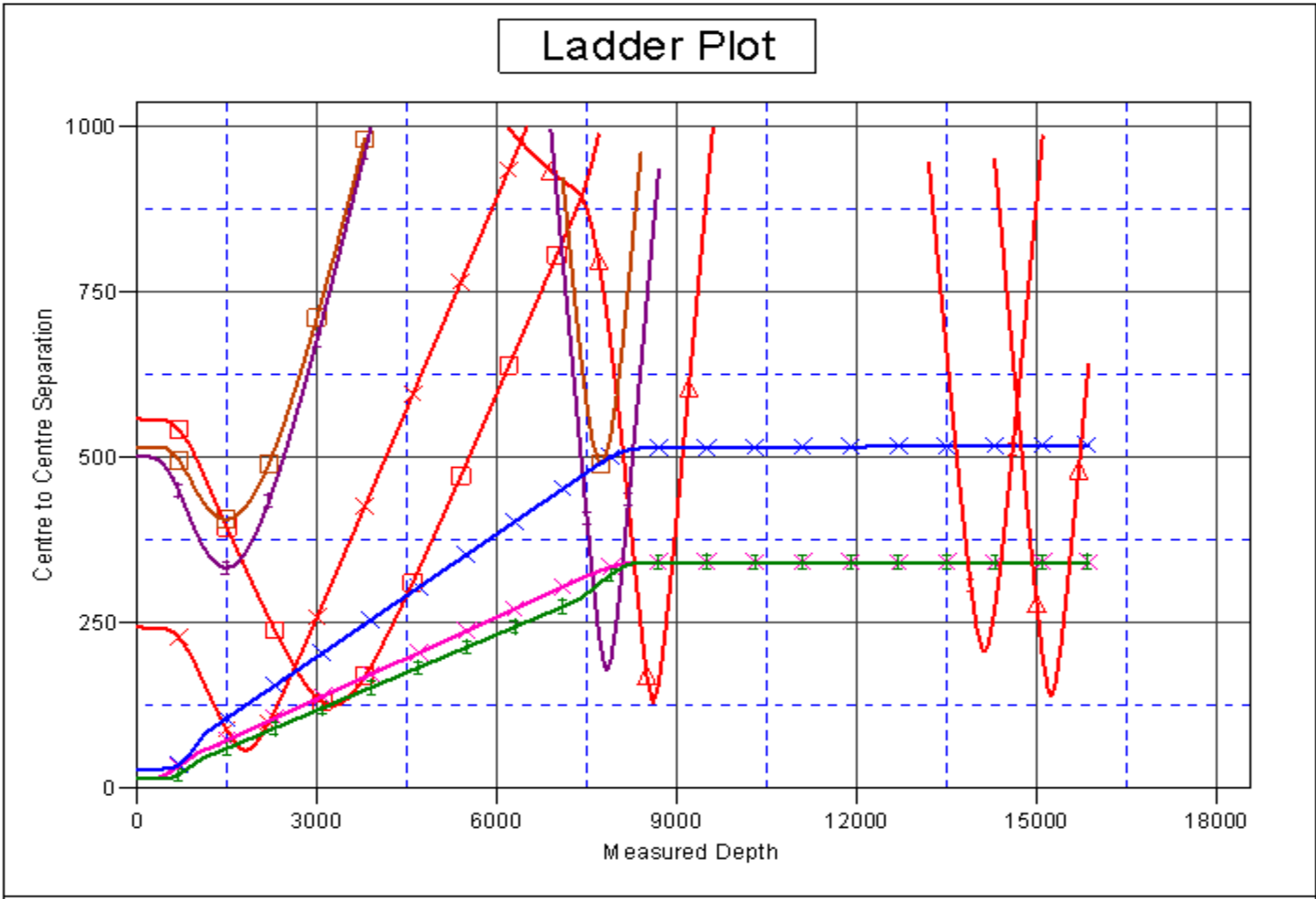
Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 415-													North Washington Pad SEC.23-T1S-R68W - North Washington 1-23 (Exist.) - Wellbore #1 North Washi		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical 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				
13,200.0	7,837.7	8,318.3	7,989.9	116.8	40.3	119.01	-6,780.4	1,322.8	945.7	807.6	138.12	6.847				
13,300.0	7,837.5	8,307.8	7,979.5	118.7	40.3	116.63	-6,781.5	1,322.2	849.0	706.9	142.15	5.973				
13,400.0	7,837.3	8,297.3	7,969.1	120.5	40.2	114.15	-6,782.6	1,321.6	753.0	606.9	146.13	5.153				
13,500.0	7,837.1	8,286.7	7,958.5	122.3	40.2	111.56	-6,783.8	1,321.0	658.0	508.0	150.02	4.386				
13,600.0	7,836.9	8,276.0	7,947.9	124.2	40.2	108.86	-6,784.9	1,320.4	564.6	410.8	153.79	3.671				
13,700.0	7,836.7	8,265.1	7,937.1	126.0	40.2	106.05	-6,786.1	1,319.8	473.5	316.2	157.38	3.009				
13,800.0	7,836.4	8,254.1	7,926.2	127.9	40.1	103.15	-6,787.3	1,319.1	386.7	225.9	160.72	2.406				
13,900.0	7,836.2	8,243.0	7,915.1	129.7	40.1	100.17	-6,788.5	1,318.5	307.4	143.7	163.78	1.877				
14,000.0	7,836.0	8,231.7	7,904.0	131.6	40.1	97.11	-6,789.7	1,317.9	243.5	77.0	166.50	1.462	Level 3			
14,100.0	7,835.8	8,220.4	7,892.7	133.4	40.0	94.00	-6,791.0	1,317.3	209.3	40.4	168.84	1.240	Level 2			
14,128.4	7,835.7	8,217.1	7,889.5	134.0	40.0	93.11	-6,791.3	1,317.1	207.4	37.9	169.42	1.224	Level 2, CC, ES, SF			
14,200.0	7,835.6	8,208.9	7,881.3	135.3	40.0	90.85	-6,792.3	1,316.7	219.2	48.5	170.74	1.284	Level 3			
14,300.0	7,835.4	8,197.3	7,869.8	137.1	40.0	87.67	-6,793.6	1,316.1	268.4	96.2	172.20	1.559				
14,400.0	7,835.2	8,185.3	7,857.9	139.0	39.9	84.43	-6,794.9	1,315.4	340.2	167.1	173.17	1.965				
14,500.0	7,834.9	8,173.0	7,845.7	140.9	39.9	81.17	-6,796.3	1,314.8	423.3	249.7	173.62	2.438				
14,600.0	7,834.7	8,160.4	7,833.2	142.7	39.9	77.90	-6,797.8	1,314.2	512.2	338.6	173.56	2.951				
14,700.0	7,834.5	8,147.5	7,820.4	144.6	39.8	74.65	-6,799.3	1,313.5	604.3	431.3	172.99	3.493				
14,800.0	7,834.3	8,134.2	7,807.2	146.4	39.8	71.42	-6,800.9	1,312.9	698.4	526.5	171.93	4.062				
14,900.0	7,834.1	8,120.5	7,793.7	148.3	39.7	68.25	-6,802.6	1,312.2	793.7	623.3	170.41	4.658				
15,000.0	7,833.9	8,106.5	7,779.8	150.2	39.7	65.16	-6,804.3	1,311.5	889.8	721.3	168.49	5.281				
15,100.0	7,833.6	8,093.0	7,766.3	152.0	39.7	62.33	-6,805.9	1,310.9	986.6	820.1	166.46	5.927				

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 1421- North Washington Pad SEC.23-T1S-R68W - North Washington 8-23 (Exist.) - Wellbore #1 N Washingto													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,300.0	7,835.4	8,052.1	7,877.9	137.1	25.8	90.86	-7,903.1	1,387.6	950.8	794.5	156.39	6.080		
14,400.0	7,835.2	8,051.9	7,877.8	139.0	25.8	90.79	-7,903.1	1,387.6	852.1	693.8	158.28	5.383		
14,500.0	7,834.9	8,051.7	7,877.6	140.9	25.8	90.72	-7,903.1	1,387.6	753.6	593.4	160.17	4.705		
14,600.0	7,834.7	8,051.6	7,877.4	142.7	25.8	90.65	-7,903.1	1,387.6	655.6	493.6	162.06	4.046		
14,700.0	7,834.5	8,051.4	7,877.3	144.6	25.8	90.58	-7,903.1	1,387.6	558.3	394.4	163.95	3.406		
14,800.0	7,834.3	8,051.2	7,877.1	146.4	25.8	90.51	-7,903.1	1,387.6	462.2	296.4	165.84	2.787		
14,900.0	7,834.1	8,051.0	7,876.9	148.3	25.8	90.43	-7,903.1	1,387.6	368.2	200.5	167.73	2.195		
15,000.0	7,833.9	8,050.9	7,876.7	150.2	25.8	90.36	-7,903.1	1,387.6	278.4	108.7	169.62	1.641		
15,100.0	7,833.6	8,050.7	7,876.6	152.0	25.8	90.29	-7,903.1	1,387.6	198.5	27.0	171.51	1.157	Level 2	
15,200.0	7,833.4	8,050.5	7,876.4	153.9	25.8	90.22	-7,903.1	1,387.6	146.0	-27.5	173.41	0.842	Level 1	
15,240.5	7,833.3	8,050.4	7,876.3	154.7	25.8	90.19	-7,903.1	1,387.6	140.2	-33.9	174.17	0.805	Level 1, CC, ES, SF	
15,300.0	7,833.2	8,050.3	7,876.2	155.8	25.8	90.14	-7,903.1	1,387.6	152.4	-22.9	175.30	0.869	Level 1	
15,400.0	7,833.0	8,050.1	7,876.0	157.7	25.8	90.07	-7,903.1	1,387.6	212.4	35.2	177.19	1.199	Level 2	
15,500.0	7,832.8	8,049.9	7,875.8	159.5	25.8	89.99	-7,903.1	1,387.6	295.0	115.9	179.08	1.647		
15,600.0	7,832.6	8,049.8	7,875.6	161.4	25.8	89.92	-7,903.1	1,387.6	385.9	205.0	180.97	2.133		
15,700.0	7,832.4	8,049.6	7,875.5	163.3	25.8	89.84	-7,903.1	1,387.6	480.5	297.6	182.86	2.627		
15,800.0	7,832.1	8,049.4	7,875.3	165.2	25.8	89.76	-7,903.1	1,387.6	576.9	392.1	184.76	3.122		
15,866.0	7,832.0	8,049.3	7,875.1	166.4	25.8	89.71	-7,903.1	1,387.6	641.1	455.1	186.01	3.447		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5132.5ft (Original Well Elev) Coordinates are relative to: Ivey O-14-23HN
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.34°



LEGEND

- Ivey O-11-12HN, Wellbore #1, Plan #1 (8-21-14) V0
- + North Washin;
- ✱ Ivey P-14-23HN, Wellbore #1, Plan #2 (11-5-14) V0
- △ North Washin;
- + Ivey N-14-23HN, Wellbore #1, Plan #2 (11-5-14) V0
-
- ✱ Ivey M-14-23HC, Wellbore #1, Plan #2 (11-5-14) V0

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Ivey O-14-23HN
Project:	SEC.11-T1S-R68W	TVD Reference:	WELL @ 5132.5ft (Original Well Elev)
Reference Site:	Ivey Pad Sec.11-T1S-R68W	MD Reference:	WELL @ 5132.5ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ivey O-14-23HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (11-5-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5132.5ft (Original Well Elev) Coordinates are relative to: Ivey O-14-23HN
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.34°

