Bayswater Exploration & Production, LLC

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

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

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

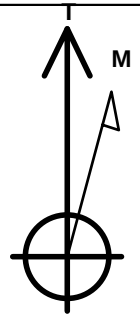
Ground Elevation: 5110.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1233736.77	3149484.36	39.973757	-104.966622	

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

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 631'FSL, 2018'FEL, SEC.11	1.0	0.0	0.0	Point
BHL 2605'FNL, 190'FEL, SEC.23	7742.0	-8544.9	1854.1	Point
LANDING PT. 465'FNL, 190'FEL, SEC.14	7757.0	-1099.0	1829.4	Point



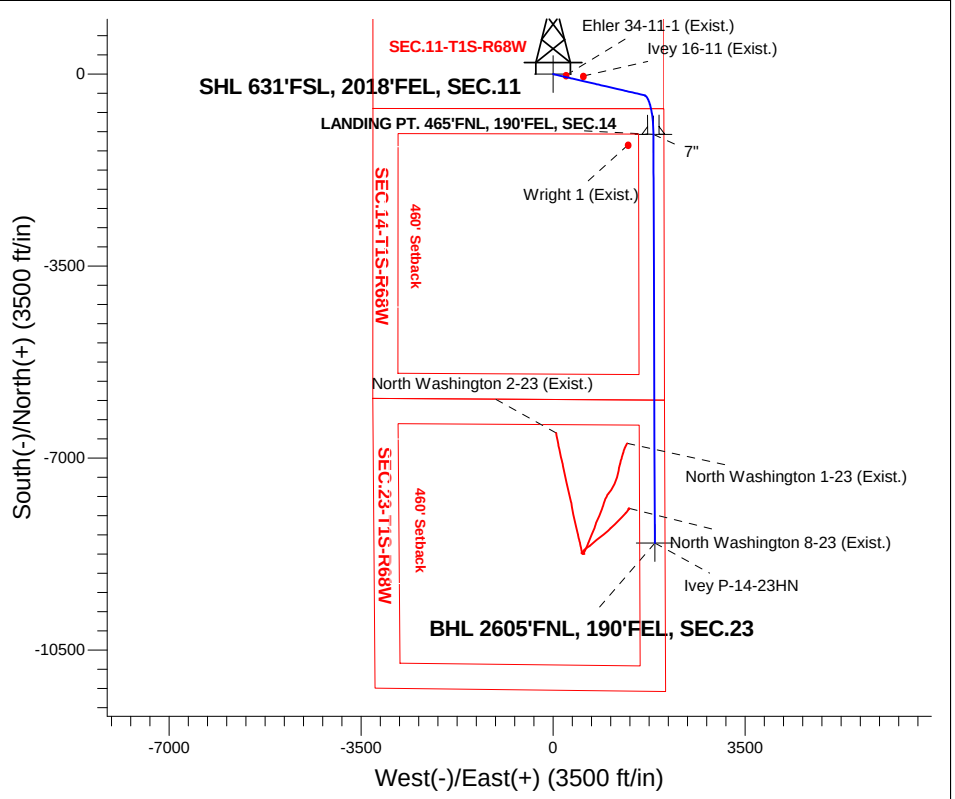
Azimuths to True North
Magnetic North: 8.52°

Magnetic Field
Strength: 52560.3snT
Dip Angle: 66.57°
Date: 7/9/2014
Model: IGRF2010

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

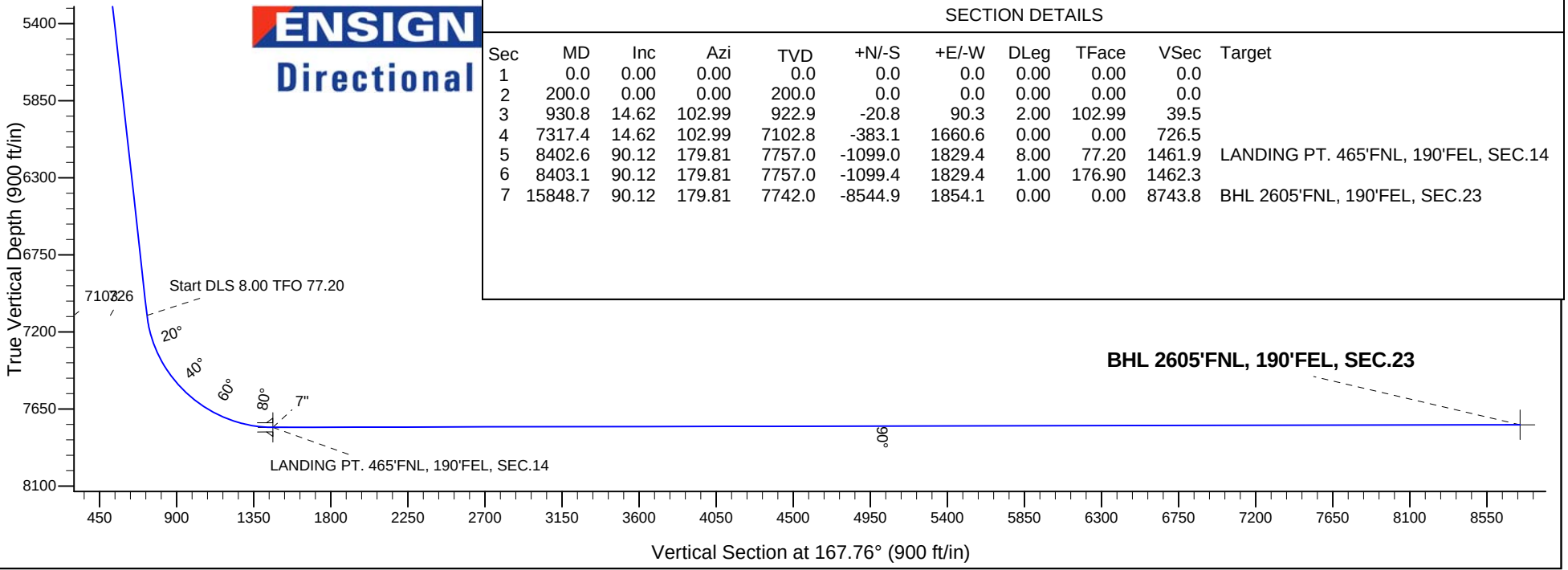
ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	KOP - Start Build 2.00
7102.8	7317.4	Start DLS 8.00 TFO 77.20
7742.0	15848.7	TD at 15848.7



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	930.8	14.62	102.99	922.9	-20.8	90.3	2.00	102.99	39.5	
4	7317.4	14.62	102.99	7102.8	-383.1	1660.6	0.00	0.00	726.5	
5	8402.6	90.12	179.81	7757.0	-1099.0	1829.4	8.00	77.20	1461.9	LANDING PT. 465'FNL, 190'FEL, SEC.14
6	8403.1	90.12	179.81	7757.0	-1099.4	1829.4	1.00	176.90	1462.3	
7	15848.7	90.12	179.81	7742.0	-8544.9	1854.1	0.00	0.00	8743.8	BHL 2605'FNL, 190'FEL, SEC.23



Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W
Ivey Pad Sec.11-T1S-R68W
Ivey P-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 P-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 P-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 P-14-23HN

Well Position	**+N/-S**	-544.6 ft	**Northing:**	1,233,736.77 ft	**Latitude:**	39.973757
	+E/-W	-324.0 ft	**Easting:**	3,149,484.36 ft	**Longitude:**	-104.966622
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	7/9/2014	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	167.76

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
930.8	14.62	102.99	922.9	-20.8	90.3	2.00	2.00	0.00	102.99	
7,317.4	14.62	102.99	7,102.8	-383.1	1,660.6	0.00	0.00	0.00	0.00	
8,402.6	90.12	179.81	7,757.0	-1,099.0	1,829.4	8.00	6.96	7.08	77.20	LANDING PT. 465'F
8,403.1	90.12	179.81	7,757.0	-1,099.4	1,829.4	1.00	-1.00	0.05	176.90	
15,848.7	90.12	179.81	7,742.0	-8,544.9	1,854.1	0.00	0.00	0.00	0.00	BHL 2605'FNL, 190

Database:	Landmark	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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
KOP - Start Build 2.00									
300.0	2.00	102.99	300.0	-0.4	1.7	0.7	2.00	2.00	0.00
400.0	4.00	102.99	399.8	-1.6	6.8	3.0	2.00	2.00	0.00
500.0	6.00	102.99	499.5	-3.5	15.3	6.7	2.00	2.00	0.00
600.0	8.00	102.99	598.7	-6.3	27.2	11.9	2.00	2.00	0.00
700.0	10.00	102.99	697.5	-9.8	42.4	18.6	2.00	2.00	0.00
800.0	12.00	102.99	795.6	-14.1	61.0	26.7	2.00	2.00	0.00
900.0	14.00	102.99	893.1	-19.1	82.9	36.3	2.00	2.00	0.00
930.8	14.62	102.99	922.9	-20.8	90.3	39.5	2.00	2.00	0.00
1,000.0	14.62	102.99	989.9	-24.8	107.3	47.0	0.00	0.00	0.00
1,100.0	14.62	102.99	1,086.6	-30.4	131.9	57.7	0.00	0.00	0.00
1,200.0	14.62	102.99	1,183.4	-36.1	156.5	68.5	0.00	0.00	0.00
1,300.0	14.62	102.99	1,280.2	-41.8	181.1	79.2	0.00	0.00	0.00
1,400.0	14.62	102.99	1,376.9	-47.4	205.7	90.0	0.00	0.00	0.00
1,500.0	14.62	102.99	1,473.7	-53.1	230.3	100.7	0.00	0.00	0.00
1,600.0	14.62	102.99	1,570.4	-58.8	254.9	111.5	0.00	0.00	0.00
1,700.0	14.62	102.99	1,667.2	-64.5	279.5	122.3	0.00	0.00	0.00
1,800.0	14.62	102.99	1,764.0	-70.1	304.0	133.0	0.00	0.00	0.00
1,900.0	14.62	102.99	1,860.7	-75.8	328.6	143.8	0.00	0.00	0.00
2,000.0	14.62	102.99	1,957.5	-81.5	353.2	154.5	0.00	0.00	0.00
2,100.0	14.62	102.99	2,054.3	-87.2	377.8	165.3	0.00	0.00	0.00
2,200.0	14.62	102.99	2,151.0	-92.8	402.4	176.0	0.00	0.00	0.00
2,300.0	14.62	102.99	2,247.8	-98.5	427.0	186.8	0.00	0.00	0.00
2,400.0	14.62	102.99	2,344.6	-104.2	451.6	197.5	0.00	0.00	0.00
2,500.0	14.62	102.99	2,441.3	-109.8	476.1	208.3	0.00	0.00	0.00
2,600.0	14.62	102.99	2,538.1	-115.5	500.7	219.1	0.00	0.00	0.00
2,700.0	14.62	102.99	2,634.9	-121.2	525.3	229.8	0.00	0.00	0.00
2,800.0	14.62	102.99	2,731.6	-126.9	549.9	240.6	0.00	0.00	0.00
2,900.0	14.62	102.99	2,828.4	-132.5	574.5	251.3	0.00	0.00	0.00
3,000.0	14.62	102.99	2,925.1	-138.2	599.1	262.1	0.00	0.00	0.00
3,100.0	14.62	102.99	3,021.9	-143.9	623.7	272.8	0.00	0.00	0.00
3,200.0	14.62	102.99	3,118.7	-149.5	648.3	283.6	0.00	0.00	0.00
3,300.0	14.62	102.99	3,215.4	-155.2	672.8	294.4	0.00	0.00	0.00
3,400.0	14.62	102.99	3,312.2	-160.9	697.4	305.1	0.00	0.00	0.00
3,500.0	14.62	102.99	3,409.0	-166.6	722.0	315.9	0.00	0.00	0.00
3,600.0	14.62	102.99	3,505.7	-172.2	746.6	326.6	0.00	0.00	0.00
3,700.0	14.62	102.99	3,602.5	-177.9	771.2	337.4	0.00	0.00	0.00
3,800.0	14.62	102.99	3,699.3	-183.6	795.8	348.1	0.00	0.00	0.00
3,900.0	14.62	102.99	3,796.0	-189.2	820.4	358.9	0.00	0.00	0.00
4,000.0	14.62	102.99	3,892.8	-194.9	845.0	369.6	0.00	0.00	0.00
4,100.0	14.62	102.99	3,989.6	-200.6	869.5	380.4	0.00	0.00	0.00
4,200.0	14.62	102.99	4,086.3	-206.3	894.1	391.2	0.00	0.00	0.00
4,300.0	14.62	102.99	4,183.1	-211.9	918.7	401.9	0.00	0.00	0.00
4,400.0	14.62	102.99	4,279.8	-217.6	943.3	412.7	0.00	0.00	0.00
4,500.0	14.62	102.99	4,376.6	-223.3	967.9	423.4	0.00	0.00	0.00
4,600.0	14.62	102.99	4,473.4	-228.9	992.5	434.2	0.00	0.00	0.00
4,700.0	14.62	102.99	4,570.1	-234.6	1,017.1	444.9	0.00	0.00	0.00
4,800.0	14.62	102.99	4,666.9	-240.3	1,041.6	455.7	0.00	0.00	0.00
4,900.0	14.62	102.99	4,763.7	-246.0	1,066.2	466.4	0.00	0.00	0.00
5,000.0	14.62	102.99	4,860.4	-251.6	1,090.8	477.2	0.00	0.00	0.00
5,100.0	14.62	102.99	4,957.2	-257.3	1,115.4	488.0	0.00	0.00	0.00

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Site:	Ivey Pad Sec.11-T1S-R68W	**North Reference:**	True
Well:	Ivey P-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	14.62	102.99	5,054.0	-263.0	1,140.0	498.7	0.00	0.00	0.00
5,300.0	14.62	102.99	5,150.7	-268.6	1,164.6	509.5	0.00	0.00	0.00
5,400.0	14.62	102.99	5,247.5	-274.3	1,189.2	520.2	0.00	0.00	0.00
5,500.0	14.62	102.99	5,344.3	-280.0	1,213.8	531.0	0.00	0.00	0.00
5,600.0	14.62	102.99	5,441.0	-285.7	1,238.3	541.7	0.00	0.00	0.00
5,700.0	14.62	102.99	5,537.8	-291.3	1,262.9	552.5	0.00	0.00	0.00
5,800.0	14.62	102.99	5,634.5	-297.0	1,287.5	563.3	0.00	0.00	0.00
5,900.0	14.62	102.99	5,731.3	-302.7	1,312.1	574.0	0.00	0.00	0.00
6,000.0	14.62	102.99	5,828.1	-308.3	1,336.7	584.8	0.00	0.00	0.00
6,100.0	14.62	102.99	5,924.8	-314.0	1,361.3	595.5	0.00	0.00	0.00
6,200.0	14.62	102.99	6,021.6	-319.7	1,385.9	606.3	0.00	0.00	0.00
6,300.0	14.62	102.99	6,118.4	-325.4	1,410.4	617.0	0.00	0.00	0.00
6,400.0	14.62	102.99	6,215.1	-331.0	1,435.0	627.8	0.00	0.00	0.00
6,500.0	14.62	102.99	6,311.9	-336.7	1,459.6	638.5	0.00	0.00	0.00
6,600.0	14.62	102.99	6,408.7	-342.4	1,484.2	649.3	0.00	0.00	0.00
6,700.0	14.62	102.99	6,505.4	-348.0	1,508.8	660.1	0.00	0.00	0.00
6,800.0	14.62	102.99	6,602.2	-353.7	1,533.4	670.8	0.00	0.00	0.00
6,900.0	14.62	102.99	6,699.0	-359.4	1,558.0	681.6	0.00	0.00	0.00
7,000.0	14.62	102.99	6,795.7	-365.1	1,582.6	692.3	0.00	0.00	0.00
7,100.0	14.62	102.99	6,892.5	-370.7	1,607.1	703.1	0.00	0.00	0.00
7,200.0	14.62	102.99	6,989.2	-376.4	1,631.7	713.8	0.00	0.00	0.00
7,300.0	14.62	102.99	7,086.0	-382.1	1,656.3	724.6	0.00	0.00	0.00
7,317.4	14.62	102.99	7,102.8	-383.1	1,660.6	726.5	0.00	0.00	0.00
Start DLS 8.00 TFO 77.20									
7,400.0	17.30	125.17	7,182.3	-392.5	1,680.8	740.0	8.00	3.25	26.85
7,500.0	22.74	142.50	7,276.3	-416.4	1,704.8	768.4	8.00	5.44	17.34
7,600.0	29.33	152.92	7,366.2	-453.6	1,727.7	809.7	8.00	6.59	10.42
7,700.0	36.45	159.68	7,450.1	-503.4	1,749.2	862.8	8.00	7.12	6.76
7,800.0	43.84	164.45	7,526.5	-564.7	1,768.8	926.9	8.00	7.39	4.77
7,900.0	51.38	168.08	7,593.9	-636.4	1,786.2	1,000.7	8.00	7.54	3.63
8,000.0	59.01	171.01	7,651.0	-717.1	1,801.0	1,082.7	8.00	7.63	2.93
8,100.0	66.70	173.50	7,696.6	-805.2	1,812.9	1,171.3	8.00	7.69	2.49
8,200.0	74.42	175.72	7,729.8	-899.0	1,821.7	1,264.8	8.00	7.72	2.22
8,300.0	82.16	177.78	7,750.1	-996.7	1,827.3	1,361.5	8.00	7.74	2.06
8,400.0	89.92	179.76	7,757.0	-1,096.3	1,829.4	1,459.3	8.00	7.75	1.98
8,402.6	90.12	179.81	7,757.0	-1,098.9	1,829.4	1,461.9	8.00	7.75	1.97
7"									
8,403.1	90.12	179.81	7,757.0	-1,099.4	1,829.4	1,462.3	0.47	-0.44	0.18
8,500.0	90.12	179.81	7,756.8	-1,196.3	1,829.7	1,557.1	0.00	0.00	0.00
8,600.0	90.12	179.81	7,756.6	-1,296.3	1,830.1	1,654.9	0.00	0.00	0.00
8,700.0	90.12	179.81	7,756.4	-1,396.3	1,830.4	1,752.7	0.00	0.00	0.00
8,800.0	90.12	179.81	7,756.2	-1,496.3	1,830.7	1,850.5	0.00	0.00	0.00
8,900.0	90.12	179.81	7,756.0	-1,596.3	1,831.1	1,948.3	0.00	0.00	0.00
9,000.0	90.12	179.81	7,755.8	-1,696.3	1,831.4	2,046.1	0.00	0.00	0.00
9,100.0	90.12	179.81	7,755.6	-1,796.3	1,831.7	2,143.9	0.00	0.00	0.00
9,200.0	90.12	179.81	7,755.4	-1,896.3	1,832.0	2,241.7	0.00	0.00	0.00
9,300.0	90.12	179.81	7,755.2	-1,996.3	1,832.4	2,339.5	0.00	0.00	0.00
9,400.0	90.12	179.81	7,755.0	-2,096.3	1,832.7	2,437.3	0.00	0.00	0.00
9,500.0	90.12	179.81	7,754.8	-2,196.3	1,833.0	2,535.1	0.00	0.00	0.00
9,600.0	90.12	179.81	7,754.6	-2,296.3	1,833.4	2,632.9	0.00	0.00	0.00
9,700.0	90.12	179.81	7,754.4	-2,396.3	1,833.7	2,730.7	0.00	0.00	0.00
9,800.0	90.12	179.81	7,754.2	-2,496.3	1,834.0	2,828.5	0.00	0.00	0.00
9,900.0	90.12	179.81	7,754.0	-2,596.3	1,834.4	2,926.3	0.00	0.00	0.00
10,000.0	90.12	179.81	7,753.8	-2,696.3	1,834.7	3,024.0	0.00	0.00	0.00

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,100.0	90.12	179.81	7,753.6	-2,796.3	1,835.0	3,121.8	0.00	0.00	0.00
10,200.0	90.12	179.81	7,753.4	-2,896.3	1,835.4	3,219.6	0.00	0.00	0.00
10,300.0	90.12	179.81	7,753.2	-2,996.3	1,835.7	3,317.4	0.00	0.00	0.00
10,400.0	90.12	179.81	7,753.0	-3,096.3	1,836.0	3,415.2	0.00	0.00	0.00
10,500.0	90.12	179.81	7,752.8	-3,196.3	1,836.4	3,513.0	0.00	0.00	0.00
10,600.0	90.12	179.81	7,752.6	-3,296.3	1,836.7	3,610.8	0.00	0.00	0.00
10,700.0	90.12	179.81	7,752.4	-3,396.3	1,837.0	3,708.6	0.00	0.00	0.00
10,800.0	90.12	179.81	7,752.2	-3,496.3	1,837.3	3,806.4	0.00	0.00	0.00
10,900.0	90.12	179.81	7,752.0	-3,596.3	1,837.7	3,904.2	0.00	0.00	0.00
11,000.0	90.12	179.81	7,751.8	-3,696.3	1,838.0	4,002.0	0.00	0.00	0.00
11,100.0	90.12	179.81	7,751.6	-3,796.3	1,838.3	4,099.8	0.00	0.00	0.00
11,200.0	90.12	179.81	7,751.4	-3,896.3	1,838.7	4,197.6	0.00	0.00	0.00
11,300.0	90.12	179.81	7,751.2	-3,996.3	1,839.0	4,295.4	0.00	0.00	0.00
11,400.0	90.12	179.81	7,751.0	-4,096.3	1,839.3	4,393.2	0.00	0.00	0.00
11,500.0	90.12	179.81	7,750.8	-4,196.3	1,839.7	4,491.0	0.00	0.00	0.00
11,600.0	90.12	179.81	7,750.6	-4,296.3	1,840.0	4,588.8	0.00	0.00	0.00
11,700.0	90.12	179.81	7,750.4	-4,396.3	1,840.3	4,686.6	0.00	0.00	0.00
11,800.0	90.12	179.81	7,750.2	-4,496.3	1,840.7	4,784.4	0.00	0.00	0.00
11,900.0	90.12	179.81	7,750.0	-4,596.3	1,841.0	4,882.2	0.00	0.00	0.00
12,000.0	90.12	179.81	7,749.8	-4,696.3	1,841.3	4,980.0	0.00	0.00	0.00
12,100.0	90.12	179.81	7,749.6	-4,796.3	1,841.7	5,077.8	0.00	0.00	0.00
12,200.0	90.12	179.81	7,749.4	-4,896.3	1,842.0	5,175.5	0.00	0.00	0.00
12,300.0	90.12	179.81	7,749.1	-4,996.3	1,842.3	5,273.3	0.00	0.00	0.00
12,400.0	90.12	179.81	7,748.9	-5,096.3	1,842.6	5,371.1	0.00	0.00	0.00
12,500.0	90.12	179.81	7,748.7	-5,196.3	1,843.0	5,468.9	0.00	0.00	0.00
12,600.0	90.12	179.81	7,748.5	-5,296.3	1,843.3	5,566.7	0.00	0.00	0.00
12,700.0	90.12	179.81	7,748.3	-5,396.3	1,843.6	5,664.5	0.00	0.00	0.00
12,800.0	90.12	179.81	7,748.1	-5,496.3	1,844.0	5,762.3	0.00	0.00	0.00
12,900.0	90.12	179.81	7,747.9	-5,596.3	1,844.3	5,860.1	0.00	0.00	0.00
13,000.0	90.12	179.81	7,747.7	-5,696.3	1,844.6	5,957.9	0.00	0.00	0.00
13,100.0	90.12	179.81	7,747.5	-5,796.3	1,845.0	6,055.7	0.00	0.00	0.00
13,200.0	90.12	179.81	7,747.3	-5,896.3	1,845.3	6,153.5	0.00	0.00	0.00
13,300.0	90.12	179.81	7,747.1	-5,996.3	1,845.6	6,251.3	0.00	0.00	0.00
13,400.0	90.12	179.81	7,746.9	-6,096.3	1,846.0	6,349.1	0.00	0.00	0.00
13,500.0	90.12	179.81	7,746.7	-6,196.3	1,846.3	6,446.9	0.00	0.00	0.00
13,600.0	90.12	179.81	7,746.5	-6,296.3	1,846.6	6,544.7	0.00	0.00	0.00
13,700.0	90.12	179.81	7,746.3	-6,396.3	1,847.0	6,642.5	0.00	0.00	0.00
13,800.0	90.12	179.81	7,746.1	-6,496.3	1,847.3	6,740.3	0.00	0.00	0.00
13,900.0	90.12	179.81	7,745.9	-6,596.3	1,847.6	6,838.1	0.00	0.00	0.00
14,000.0	90.12	179.81	7,745.7	-6,696.3	1,847.9	6,935.9	0.00	0.00	0.00
14,100.0	90.12	179.81	7,745.5	-6,796.3	1,848.3	7,033.7	0.00	0.00	0.00
14,200.0	90.12	179.81	7,745.3	-6,896.3	1,848.6	7,131.5	0.00	0.00	0.00
14,300.0	90.12	179.81	7,745.1	-6,996.3	1,848.9	7,229.3	0.00	0.00	0.00
14,400.0	90.12	179.81	7,744.9	-7,096.3	1,849.3	7,327.0	0.00	0.00	0.00
14,500.0	90.12	179.81	7,744.7	-7,196.3	1,849.6	7,424.8	0.00	0.00	0.00
14,600.0	90.12	179.81	7,744.5	-7,296.3	1,849.9	7,522.6	0.00	0.00	0.00
14,700.0	90.12	179.81	7,744.3	-7,396.3	1,850.3	7,620.4	0.00	0.00	0.00
14,800.0	90.12	179.81	7,744.1	-7,496.3	1,850.6	7,718.2	0.00	0.00	0.00
14,900.0	90.12	179.81	7,743.9	-7,596.3	1,850.9	7,816.0	0.00	0.00	0.00
15,000.0	90.12	179.81	7,743.7	-7,696.3	1,851.3	7,913.8	0.00	0.00	0.00
15,100.0	90.12	179.81	7,743.5	-7,796.3	1,851.6	8,011.6	0.00	0.00	0.00
15,200.0	90.12	179.81	7,743.3	-7,896.3	1,851.9	8,109.4	0.00	0.00	0.00
15,300.0	90.12	179.81	7,743.1	-7,996.3	1,852.3	8,207.2	0.00	0.00	0.00
15,400.0	90.12	179.81	7,742.9	-8,096.3	1,852.6	8,305.0	0.00	0.00	0.00

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,500.0	90.12	179.81	7,742.7	-8,196.3	1,852.9	8,402.8	0.00	0.00	0.00
15,600.0	90.12	179.81	7,742.5	-8,296.3	1,853.2	8,500.6	0.00	0.00	0.00
15,700.0	90.12	179.81	7,742.3	-8,396.3	1,853.6	8,598.4	0.00	0.00	0.00
15,800.0	90.12	179.81	7,742.1	-8,496.3	1,853.9	8,696.2	0.00	0.00	0.00
15,848.7	90.12	179.81	7,742.0	-8,544.9	1,854.1	8,743.8	0.00	0.00	0.00

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
LANDING PT. 465'FN - plan hits target center - Point	0.00	0.00	7,757.0	-1,099.0	1,829.4	1,232,648.86	3,151,320.29	39.970740	-104.960095
SHL 631'FSL, 2018'FI - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,233,736.78	3,149,484.36	39.973757	-104.966622
BHL 2605'FNL, 190'FI - plan hits target center - Point	0.00	0.00	7,742.0	-8,544.9	1,854.1	1,225,203.41	3,151,389.73	39.950300	-104.960009

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
8,402.6	7,757.0	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
200.0	200.0	0.0	0.0	KOP - Start Build 2.00
7,317.4	7,102.8	-383.1	1,660.6	Start DLS 8.00 TFO 77.20
15,848.7	7,742.0	-8,545.0	1,854.1	TD at 15848.7

ENSIGN
Directional

Bayswater Exploration & Production, LLC

SEC.11-T1S-R68W
Ivey Pad Sec.11-T1S-R68W
Ivey P-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 P-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 P-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	15,848.3	Plan #2 (11-5-14) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	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	1,497.6	1,436.9	34.2	-0.1	0.996	Level 1, CC
Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1	1,500.0	1,439.2	34.2	-0.2	0.994	Level 1, ES, SF
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	2,725.7	2,627.2	90.0	25.2	1.389	Level 3, CC, ES
Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1	2,800.0	2,699.1	91.9	25.5	1.385	Level 3, SF
Wright 1 (Exist.) - Wellbore #1 - Wellbore #1	8,588.8	7,735.1	460.6	273.4	2.460	CC
Wright 1 (Exist.) - Wellbore #1 - Wellbore #1	8,600.0	7,735.1	460.7	273.4	2.459	ES, SF
Ivey Pad Sec.11-T1S-R68W						
Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	200.0	200.0	30.0	29.3	44.449	CC
Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	300.0	300.0	30.3	29.2	27.275	ES
Ivey N-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	15,848.7	15,717.4	660.0	331.8	2.011	SF
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	1,314.5	1,333.2	407.5	399.3	50.000	CC, ES
Ivey O-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	7,700.0	10,290.9	549.6	460.9	6.196	SF
Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	200.0	200.0	15.0	14.4	22.302	CC
Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	300.0	300.0	15.4	14.3	13.890	ES
Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)	15,848.7	15,866.0	342.1	20.8	1.065	Level 2, SF
Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	7,800.0	10,249.7	252.8	171.7	3.115	SF
Ivey P-11-12HN - Wellbore #1 - Plan #1 (8-21-14)	7,864.0	10,261.1	242.0	164.6	3.126	CC, ES
North Washington Pad SEC.23-T1S-R68W						
North Washington 1-23 (Exist.) - Wellbore #1 North Was	14,115.6	8,142.2	541.6	371.9	3.191	CC, ES, SF
North Washington 2-23 (Exist.) - North Washington 2-23						Out of range
North Washington 8-23 (Exist.) - Wellbore #1 N Washing	15,219.2	7,961.2	470.5	296.2	2.699	CC, ES, SF

Offset Design Existing Pad Sec.11-T1S-R68W - Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 8707-UNKNOWN **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	94.74	-19.7	237.4	240.7				
100.0	100.0	65.5	65.5	0.1	1.3	94.74	-19.7	237.4	238.2	236.8	1.42	167.444	
200.0	200.0	165.5	165.5	0.3	3.3	94.74	-19.7	237.4	238.2	234.6	3.65	65.309	
300.0	300.0	265.5	265.5	0.5	5.3	-8.32	-19.7	237.4	236.5	230.6	5.86	40.378	
400.0	399.8	365.3	365.3	0.8	7.3	-8.52	-19.7	237.4	231.3	223.2	8.05	28.727	
500.0	499.5	465.0	465.0	1.0	9.3	-8.88	-19.7	237.4	222.7	212.5	10.23	21.762	

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

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Ehler 34-11-1 (Exist.) - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0 ft

Survey Program: 8707-UNKNOWN — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
600.0	598.7	564.2	564.2	1.3	11.3	-9.43	-19.7	237.4	210.6	198.3	12.39	17.002	
700.0	697.5	663.0	663.0	1.6	13.3	-10.24	-19.7	237.4	195.2	180.7	14.52	13.449	
800.0	795.6	761.1	761.1	2.0	15.2	-11.42	-19.7	237.4	176.5	159.9	16.61	10.627	
900.0	893.1	858.6	858.6	2.5	17.2	-13.17	-19.7	237.4	154.5	135.8	18.66	8.277	
1,000.0	989.9	955.4	955.4	3.0	19.1	-15.72	-19.7	237.4	130.1	109.3	20.81	6.253	
1,100.0	1,086.6	1,052.1	1,052.1	3.5	21.0	-19.40	-19.7	237.4	106.0	82.9	23.06	4.597	
1,200.0	1,183.4	1,148.9	1,148.9	4.0	23.0	-25.20	-19.7	237.4	82.5	57.1	25.42	3.247	
1,300.0	1,280.2	1,245.7	1,245.7	4.5	24.9	-35.32	-19.7	237.4	60.5	32.4	28.02	2.158	
1,400.0	1,376.9	1,342.4	1,342.4	5.1	26.8	-55.12	-19.7	237.4	42.1	11.0	31.18	1.352	Level 3
1,497.6	1,471.4	1,436.9	1,436.9	5.6	28.7	-90.00	-19.7	237.4	34.2	-0.1	34.34	0.996	Level 1, CC
1,500.0	1,473.7	1,439.2	1,439.2	5.6	28.8	-90.96	-19.7	237.4	34.2	-0.2	34.39	0.994	Level 1, ES, SF
1,600.0	1,570.4	1,535.9	1,535.9	6.1	30.7	-126.16	-19.7	237.4	42.9	7.1	35.79	1.197	Level 2
1,700.0	1,667.2	1,632.7	1,632.7	6.7	32.7	-145.31	-19.7	237.4	61.5	24.5	36.99	1.661	
1,800.0	1,764.0	1,729.5	1,729.5	7.2	34.6	-155.15	-19.7	237.4	83.6	45.0	38.64	2.163	
1,900.0	1,860.7	1,826.2	1,826.2	7.8	36.5	-160.81	-19.7	237.4	107.1	66.6	40.54	2.642	
2,000.0	1,957.5	1,923.0	1,923.0	8.3	38.5	-164.42	-19.7	237.4	131.3	88.7	42.56	3.085	
2,100.0	2,054.3	2,019.8	2,019.8	8.8	40.4	-166.91	-19.7	237.4	155.8	111.2	44.63	3.491	
2,200.0	2,151.0	2,116.5	2,116.5	9.4	42.3	-168.72	-19.7	237.4	180.5	133.8	46.73	3.863	
2,300.0	2,247.8	2,213.3	2,213.3	9.9	44.3	-170.10	-19.7	237.4	205.3	156.5	48.84	4.204	
2,400.0	2,344.6	2,310.1	2,310.1	10.5	46.2	-171.18	-19.7	237.4	230.2	179.3	50.97	4.517	
2,500.0	2,441.3	2,406.8	2,406.8	11.0	48.1	-172.05	-19.7	237.4	255.2	202.1	53.11	4.806	
2,600.0	2,538.1	2,503.6	2,503.6	11.6	50.1	-172.76	-19.7	237.4	280.2	225.0	55.25	5.072	
2,700.0	2,634.9	2,600.4	2,600.4	12.1	52.0	-173.36	-19.7	237.4	305.3	247.9	57.39	5.319	
2,800.0	2,731.6	2,697.1	2,697.1	12.6	53.9	-173.86	-19.7	237.4	330.4	270.8	59.54	5.549	
2,900.0	2,828.4	2,793.9	2,793.9	13.2	55.9	-174.30	-19.7	237.4	355.5	293.8	61.69	5.762	
3,000.0	2,925.1	2,890.6	2,890.6	13.7	57.8	-174.67	-19.7	237.4	380.6	316.8	63.84	5.962	
3,100.0	3,021.9	2,987.4	2,987.4	14.3	59.7	-175.00	-19.7	237.4	405.8	339.8	66.00	6.148	
3,200.0	3,118.7	3,084.2	3,084.2	14.8	61.7	-175.30	-19.7	237.4	430.9	362.8	68.15	6.323	
3,300.0	3,215.4	3,180.9	3,180.9	15.4	63.6	-175.56	-19.7	237.4	456.1	385.8	70.30	6.487	
3,400.0	3,312.2	3,277.7	3,277.7	15.9	65.6	-175.79	-19.7	237.4	481.2	408.8	72.46	6.641	
3,500.0	3,409.0	3,374.5	3,374.5	16.5	67.5	-176.00	-19.7	237.4	506.4	431.8	74.61	6.787	
3,600.0	3,505.7	3,471.2	3,471.2	17.0	69.4	-176.19	-19.7	237.4	531.6	454.8	76.77	6.924	
3,700.0	3,602.5	3,568.0	3,568.0	17.5	71.4	-176.36	-19.7	237.4	556.8	477.8	78.93	7.054	
3,800.0	3,699.3	3,664.8	3,664.8	18.1	73.3	-176.52	-19.7	237.4	581.9	500.9	81.08	7.177	
3,900.0	3,796.0	3,761.5	3,761.5	18.6	75.2	-176.66	-19.7	237.4	607.1	523.9	83.24	7.294	
4,000.0	3,892.8	3,858.3	3,858.3	19.2	77.2	-176.80	-19.7	237.4	632.3	546.9	85.40	7.404	
4,100.0	3,989.6	3,955.1	3,955.1	19.7	79.1	-176.92	-19.7	237.4	657.5	570.0	87.56	7.510	
4,200.0	4,086.3	4,051.8	4,051.8	20.3	81.0	-177.03	-19.7	237.4	682.7	593.0	89.72	7.610	
4,300.0	4,183.1	4,148.6	4,148.6	20.8	83.0	-177.14	-19.7	237.4	707.9	616.1	91.87	7.705	
4,400.0	4,279.8	4,245.3	4,245.3	21.4	84.9	-177.24	-19.7	237.4	733.1	639.1	94.03	7.797	
4,500.0	4,376.6	4,342.1	4,342.1	21.9	86.8	-177.33	-19.7	237.4	758.3	662.1	96.19	7.884	
4,600.0	4,473.4	4,438.9	4,438.9	22.5	88.8	-177.42	-19.7	237.4	783.5	685.2	98.35	7.967	
4,700.0	4,570.1	4,535.6	4,535.6	23.0	90.7	-177.50	-19.7	237.4	808.8	708.2	100.51	8.047	
4,800.0	4,666.9	4,632.4	4,632.4	23.5	92.6	-177.57	-19.7	237.4	834.0	731.3	102.67	8.123	
4,900.0	4,763.7	4,729.2	4,729.2	24.1	94.6	-177.64	-19.7	237.4	859.2	754.4	104.82	8.196	
5,000.0	4,860.4	4,825.9	4,825.9	24.6	96.5	-177.71	-19.7	237.4	884.4	777.4	106.98	8.267	
5,100.0	4,957.2	4,922.7	4,922.7	25.2	98.5	-177.77	-19.7	237.4	909.6	800.5	109.14	8.334	
5,200.0	5,054.0	5,019.5	5,019.5	25.7	100.4	-177.83	-19.7	237.4	934.8	823.5	111.30	8.399	
5,300.0	5,150.7	5,116.2	5,116.2	26.3	102.3	-177.89	-19.7	237.4	960.0	846.6	113.46	8.461	
5,400.0	5,247.5	5,213.0	5,213.0	26.8	104.3	-177.94	-19.7	237.4	985.3	869.6	115.62	8.521	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0 ft

Survey Program: 8250-UNKNOWN — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	93.63	-35.0	551.9	553.9				
100.0	100.0	67.5	67.5	0.1	1.4	93.63	-35.0	551.9	553.0	551.5	1.46	378.072	
200.0	200.0	167.5	167.5	0.3	3.4	93.63	-35.0	551.9	553.0	549.3	3.69	149.962	
300.0	300.0	267.5	267.5	0.5	5.3	-9.40	-35.0	551.9	551.2	545.3	5.90	93.485	
400.0	399.8	367.3	367.3	0.8	7.3	-9.51	-35.0	551.9	546.1	538.0	8.09	67.487	
500.0	499.5	467.0	467.0	1.0	9.3	-9.69	-35.0	551.9	537.5	527.2	10.27	52.320	
600.0	598.7	566.2	566.2	1.3	11.3	-9.95	-35.0	551.9	525.5	513.0	12.43	42.274	
700.0	697.5	665.0	665.0	1.6	13.3	-10.31	-35.0	551.9	510.1	495.5	14.56	35.043	
800.0	795.6	763.1	763.1	2.0	15.3	-10.78	-35.0	551.9	491.3	474.7	16.64	29.521	
900.0	893.1	860.6	860.6	2.5	17.2	-11.38	-35.0	551.9	469.2	450.5	18.69	25.111	
1,000.0	989.9	957.4	957.4	3.0	19.1	-12.05	-35.0	551.9	444.6	423.8	20.80	21.372	
1,100.0	1,086.6	1,054.1	1,054.1	3.5	21.1	-12.77	-35.0	551.9	419.9	397.0	22.98	18.276	
1,200.0	1,183.4	1,150.9	1,150.9	4.0	23.0	-13.58	-35.0	551.9	395.3	370.2	25.16	15.711	
1,300.0	1,280.2	1,247.7	1,247.7	4.5	25.0	-14.49	-35.0	551.9	370.8	343.4	27.36	13.553	
1,400.0	1,376.9	1,344.4	1,344.4	5.1	26.9	-15.53	-35.0	551.9	346.4	316.8	29.57	11.715	
1,500.0	1,473.7	1,441.2	1,441.2	5.6	28.8	-16.73	-35.0	551.9	322.1	290.3	31.79	10.130	
1,600.0	1,570.4	1,537.9	1,537.9	6.1	30.8	-18.13	-35.0	551.9	297.9	263.9	34.04	8.752	
1,700.0	1,667.2	1,634.7	1,634.7	6.7	32.7	-19.76	-35.0	551.9	274.0	237.7	36.32	7.545	
1,800.0	1,764.0	1,731.5	1,731.5	7.2	34.6	-21.71	-35.0	551.9	250.3	211.7	38.63	6.480	
1,900.0	1,860.7	1,828.2	1,828.2	7.8	36.6	-24.05	-35.0	551.9	226.9	185.9	40.99	5.537	
2,000.0	1,957.5	1,925.0	1,925.0	8.3	38.5	-26.92	-35.0	551.9	204.0	160.6	43.42	4.699	
2,100.0	2,054.3	2,021.8	2,021.8	8.8	40.4	-30.50	-35.0	551.9	181.7	135.8	45.94	3.955	
2,200.0	2,151.0	2,118.5	2,118.5	9.4	42.4	-35.03	-35.0	551.9	160.3	111.7	48.60	3.298	
2,300.0	2,247.8	2,215.3	2,215.3	9.9	44.3	-40.88	-35.0	551.9	140.1	88.7	51.45	2.723	
2,400.0	2,344.6	2,312.1	2,312.1	10.5	46.2	-48.53	-35.0	551.9	121.8	67.3	54.52	2.235	
2,500.0	2,441.3	2,408.8	2,408.8	11.0	48.2	-58.52	-35.0	551.9	106.5	48.7	57.82	1.842	
2,600.0	2,538.1	2,505.6	2,505.6	11.6	50.1	-71.17	-35.0	551.9	95.4	34.2	61.16	1.560	
2,700.0	2,634.9	2,602.4	2,602.4	12.1	52.0	-86.02	-35.0	551.9	90.2	26.1	64.14	1.406	Level 3
2,725.7	2,659.7	2,627.2	2,627.2	12.2	52.5	-90.00	-35.0	551.9	90.0	25.2	64.79	1.389	Level 3, CC, ES
2,800.0	2,731.6	2,699.1	2,699.1	12.6	54.0	-101.41	-35.0	551.9	91.9	25.5	66.36	1.385	Level 3, SF
2,900.0	2,828.4	2,795.9	2,795.9	13.2	55.9	-115.32	-35.0	551.9	100.2	32.3	67.86	1.476	Level 3
3,000.0	2,925.1	2,892.6	2,892.6	13.7	57.9	-126.67	-35.0	551.9	113.5	44.5	69.05	1.644	
3,100.0	3,021.9	2,989.4	2,989.4	14.3	59.8	-135.45	-35.0	551.9	130.4	60.2	70.25	1.857	
3,200.0	3,118.7	3,086.2	3,086.2	14.8	61.7	-142.16	-35.0	551.9	149.7	78.1	71.60	2.091	
3,300.0	3,215.4	3,182.9	3,182.9	15.4	63.7	-147.32	-35.0	551.9	170.6	97.5	73.13	2.333	
3,400.0	3,312.2	3,279.7	3,279.7	15.9	65.6	-151.35	-35.0	551.9	192.5	117.7	74.79	2.573	
3,500.0	3,409.0	3,376.5	3,376.5	16.5	67.5	-154.55	-35.0	551.9	215.1	138.5	76.57	2.809	
3,600.0	3,505.7	3,473.2	3,473.2	17.0	69.5	-157.15	-35.0	551.9	238.3	159.8	78.43	3.038	
3,700.0	3,602.5	3,570.0	3,570.0	17.5	71.4	-159.28	-35.0	551.9	261.8	181.4	80.35	3.258	
3,800.0	3,699.3	3,666.8	3,666.8	18.1	73.3	-161.07	-35.0	551.9	285.6	203.3	82.32	3.470	
3,900.0	3,796.0	3,763.5	3,763.5	18.6	75.3	-162.58	-35.0	551.9	309.7	225.3	84.33	3.672	
4,000.0	3,892.8	3,860.3	3,860.3	19.2	77.2	-163.87	-35.0	551.9	333.9	247.5	86.36	3.866	
4,100.0	3,989.6	3,957.1	3,957.1	19.7	79.1	-164.99	-35.0	551.9	358.3	269.8	88.42	4.052	
4,200.0	4,086.3	4,053.8	4,053.8	20.3	81.1	-165.97	-35.0	551.9	382.7	292.2	90.49	4.230	
4,300.0	4,183.1	4,150.6	4,150.6	20.8	83.0	-166.83	-35.0	551.9	407.3	314.7	92.57	4.400	
4,400.0	4,279.8	4,247.3	4,247.3	21.4	84.9	-167.59	-35.0	551.9	432.0	337.3	94.67	4.563	
4,500.0	4,376.6	4,344.1	4,344.1	21.9	86.9	-168.27	-35.0	551.9	456.7	359.9	96.78	4.719	
4,600.0	4,473.4	4,440.9	4,440.9	22.5	88.8	-168.88	-35.0	551.9	481.4	382.5	98.89	4.868	
4,700.0	4,570.1	4,537.6	4,537.6	23.0	90.8	-169.43	-35.0	551.9	506.2	405.2	101.01	5.012	
4,800.0	4,666.9	4,634.4	4,634.4	23.5	92.7	-169.93	-35.0	551.9	531.1	428.0	103.13	5.150	
4,900.0	4,763.7	4,731.2	4,731.2	24.1	94.6	-170.38	-35.0	551.9	556.0	450.7	105.26	5.282	
5,000.0	4,860.4	4,827.9	4,827.9	24.6	96.6	-170.80	-35.0	551.9	580.9	473.5	107.39	5.409	

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

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Ivey 16-11 (Exist.) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 8250-UNKNOWN

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	4,957.2	4,924.7	4,924.7	25.2	98.5	-171.18	-35.0	551.9	605.8	496.3	109.52	5.532	
5,200.0	5,054.0	5,021.5	5,021.5	25.7	100.4	-171.53	-35.0	551.9	630.8	519.1	111.66	5.649	
5,300.0	5,150.7	5,118.2	5,118.2	26.3	102.4	-171.85	-35.0	551.9	655.8	542.0	113.80	5.763	
5,400.0	5,247.5	5,215.0	5,215.0	26.8	104.3	-172.15	-35.0	551.9	680.8	564.8	115.94	5.872	
5,500.0	5,344.3	5,311.8	5,311.8	27.4	106.2	-172.43	-35.0	551.9	705.8	587.7	118.08	5.977	
5,600.0	5,441.0	5,408.5	5,408.5	27.9	108.2	-172.69	-35.0	551.9	730.8	610.6	120.22	6.079	
5,700.0	5,537.8	5,505.3	5,505.3	28.4	110.1	-172.94	-35.0	551.9	755.9	633.5	122.37	6.177	
5,800.0	5,634.5	5,602.0	5,602.0	29.0	112.0	-173.17	-35.0	551.9	780.9	656.4	124.52	6.272	
5,900.0	5,731.3	5,698.8	5,698.8	29.5	114.0	-173.38	-35.0	551.9	806.0	679.3	126.66	6.363	
6,000.0	5,828.1	5,795.6	5,795.6	30.1	115.9	-173.58	-35.0	551.9	831.1	702.3	128.81	6.452	
6,100.0	5,924.8	5,892.3	5,892.3	30.6	117.8	-173.77	-35.0	551.9	856.2	725.2	130.96	6.537	
6,200.0	6,021.6	5,989.1	5,989.1	31.2	119.8	-173.95	-35.0	551.9	881.3	748.2	133.11	6.620	
6,300.0	6,118.4	6,085.9	6,085.9	31.7	121.7	-174.11	-35.0	551.9	906.4	771.1	135.26	6.701	
6,400.0	6,215.1	6,182.6	6,182.6	32.3	123.7	-174.27	-35.0	551.9	931.5	794.1	137.42	6.779	
6,500.0	6,311.9	6,279.4	6,279.4	32.8	125.6	-174.42	-35.0	551.9	956.6	817.0	139.57	6.854	
6,600.0	6,408.7	6,376.2	6,376.2	33.4	127.5	-174.57	-35.0	551.9	981.7	840.0	141.72	6.927	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Pad Sec.11-T1S-R68W - Wright 1 (Exist.) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 8105-UNKNOWN

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,800.0	5,634.5	5,613.0	5,613.0	29.0	112.3	72.82	-1,286.6	1,369.5	993.0	853.1	139.91	7.098	
5,900.0	5,731.3	5,709.8	5,709.8	29.5	114.2	74.17	-1,286.6	1,369.5	985.6	843.1	142.56	6.914	
6,000.0	5,828.1	5,806.6	5,806.6	30.1	116.1	75.55	-1,286.6	1,369.5	978.8	833.6	145.20	6.741	
6,100.0	5,924.8	5,903.3	5,903.3	30.6	118.1	76.95	-1,286.6	1,369.5	972.6	824.8	147.84	6.579	
6,200.0	6,021.6	6,000.1	6,000.1	31.2	120.0	78.36	-1,286.6	1,369.5	967.1	816.6	150.47	6.427	
6,300.0	6,118.4	6,096.9	6,096.9	31.7	121.9	79.79	-1,286.6	1,369.5	962.1	809.0	153.09	6.285	
6,400.0	6,215.1	6,193.6	6,193.6	32.3	123.9	81.22	-1,286.6	1,369.5	957.8	802.1	155.70	6.152	
6,500.0	6,311.9	6,290.4	6,290.4	32.8	125.8	82.67	-1,286.6	1,369.5	954.2	795.9	158.30	6.028	
6,600.0	6,408.7	6,387.2	6,387.2	33.4	127.7	84.13	-1,286.6	1,369.5	951.2	790.3	160.88	5.913	
6,700.0	6,505.4	6,483.9	6,483.9	33.9	129.7	85.60	-1,286.6	1,369.5	948.9	785.4	163.44	5.806	
6,800.0	6,602.2	6,580.7	6,580.7	34.4	131.6	87.07	-1,286.6	1,369.5	947.2	781.2	165.99	5.706	
6,900.0	6,699.0	6,677.5	6,677.5	35.0	133.5	88.55	-1,286.6	1,369.5	946.2	777.7	168.51	5.615	
6,998.1	6,793.9	6,772.4	6,772.4	35.5	135.4	90.00	-1,286.6	1,369.5	945.9	774.9	170.97	5.532	
7,000.0	6,795.7	6,774.2	6,774.2	35.5	135.5	90.03	-1,286.6	1,369.5	945.9	774.9	171.02	5.531	
7,100.0	6,892.5	6,871.0	6,871.0	36.1	137.4	91.51	-1,286.6	1,369.5	946.2	772.7	173.50	5.454	
7,200.0	6,989.2	6,967.7	6,967.7	36.6	139.4	92.98	-1,286.6	1,369.5	947.2	771.3	175.96	5.383	
7,300.0	7,086.0	7,064.5	7,064.5	37.2	141.3	94.46	-1,286.6	1,369.5	948.9	770.5	178.40	5.319	
7,400.0	7,182.3	7,160.8	7,160.8	37.7	143.2	74.72	-1,286.6	1,369.5	946.8	766.6	180.17	5.255	
7,500.0	7,276.3	7,254.8	7,254.8	38.3	145.1	60.59	-1,286.6	1,369.5	932.6	753.0	179.52	5.195	
7,600.0	7,366.2	7,344.7	7,344.7	38.9	146.9	54.15	-1,286.6	1,369.5	906.8	729.9	176.89	5.126	
7,700.0	7,450.1	7,428.6	7,428.6	39.5	148.6	52.34	-1,286.6	1,369.5	870.5	697.2	173.26	5.024	
7,800.0	7,526.5	7,505.0	7,505.0	40.1	150.1	53.72	-1,286.6	1,369.5	825.0	655.0	170.08	4.851	
7,900.0	7,593.9	7,572.4	7,572.4	40.8	151.4	57.65	-1,286.6	1,369.5	772.3	603.3	169.01	4.570	
8,000.0	7,651.0	7,629.5	7,629.5	41.6	152.6	63.68	-1,286.6	1,369.5	714.6	543.5	171.11	4.176	
8,100.0	7,696.6	7,675.1	7,675.1	42.3	153.5	71.11	-1,286.6	1,369.5	654.5	478.9	175.66	3.726	
8,200.0	7,729.8	7,708.3	7,708.3	43.1	154.2	78.83	-1,286.6	1,369.5	595.6	415.3	180.37	3.302	
8,300.0	7,750.1	7,728.6	7,728.6	43.9	154.6	85.48	-1,286.6	1,369.5	541.9	358.5	183.41	2.955	
8,400.0	7,757.0	7,735.5	7,735.5	44.8	154.7	89.97	-1,286.6	1,369.5	497.7	313.0	184.74	2.694	
8,500.0	7,756.8	7,735.3	7,735.3	45.6	154.7	90.02	-1,286.6	1,369.5	469.0	283.1	185.94	2.522	
8,588.8	7,756.6	7,735.1	7,735.1	46.4	154.7	90.00	-1,286.6	1,369.5	460.6	273.4	187.18	2.460	CC
8,600.0	7,756.6	7,735.1	7,735.1	46.6	154.7	90.00	-1,286.6	1,369.5	460.7	273.4	187.34	2.459	ES, SF
8,700.0	7,756.4	7,734.9	7,734.9	47.6	154.7	89.97	-1,286.6	1,369.5	473.8	285.0	188.78	2.510	
8,800.0	7,756.2	7,734.7	7,734.7	48.6	154.7	89.95	-1,286.6	1,369.5	506.7	316.4	190.27	2.663	
8,900.0	7,756.0	7,734.5	7,734.5	49.7	154.7	89.92	-1,286.6	1,369.5	555.9	364.1	191.79	2.898	
9,000.0	7,755.8	7,734.3	7,734.3	50.9	154.7	89.90	-1,286.6	1,369.5	617.4	424.1	193.35	3.193	
9,100.0	7,755.6	7,734.1	7,734.1	52.1	154.7	89.87	-1,286.6	1,369.5	688.1	493.2	194.94	3.530	
9,200.0	7,755.4	7,733.9	7,733.9	53.3	154.7	89.85	-1,286.6	1,369.5	765.3	568.8	196.56	3.894	
9,300.0	7,755.2	7,733.7	7,733.7	54.6	154.7	89.82	-1,286.6	1,369.5	847.3	649.1	198.20	4.275	
9,400.0	7,755.0	7,733.5	7,733.5	55.9	154.7	89.80	-1,286.6	1,369.5	932.9	733.0	199.86	4.668	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-157.46	-27.7	-11.5	30.0				
100.0	100.0	100.0	100.0	0.1	0.1	-157.46	-27.7	-11.5	30.0	29.7	0.22	133.347	
200.0	200.0	200.0	200.0	0.3	0.3	-157.46	-27.7	-11.5	30.0	29.3	0.67	44.449	CC
300.0	300.0	300.0	300.0	0.5	0.6	102.80	-27.7	-11.5	30.3	29.2	1.11	27.275	ES
400.0	399.8	399.8	399.8	0.8	0.8	111.97	-27.7	-11.5	31.9	30.3	1.56	20.481	
500.0	499.5	499.5	499.5	1.0	1.0	124.82	-27.7	-11.5	36.1	34.0	2.03	17.795	
600.0	598.7	598.7	598.7	1.3	1.2	137.75	-27.7	-11.5	44.2	41.7	2.51	17.618	
700.0	697.5	699.0	699.0	1.6	1.4	147.33	-28.2	-9.9	55.5	52.5	2.97	18.671	
800.0	795.6	799.8	799.6	2.0	1.6	153.33	-29.9	-4.9	67.9	64.5	3.42	19.850	
900.0	893.1	901.1	900.6	2.5	1.9	157.22	-32.7	3.5	80.9	77.0	3.89	20.820	
1,000.0	989.9	1,003.0	1,001.7	3.0	2.1	159.71	-36.6	15.4	93.5	89.1	4.38	21.350	
1,100.0	1,086.6	1,105.7	1,103.1	3.5	2.4	160.83	-41.7	30.8	103.1	98.2	4.91	21.019	
1,200.0	1,183.4	1,205.6	1,201.4	4.0	2.8	161.34	-47.3	47.5	111.0	105.6	5.45	20.359	
1,300.0	1,280.2	1,305.2	1,299.5	4.5	3.1	161.77	-52.9	64.3	118.9	112.9	6.01	19.782	
1,400.0	1,376.9	1,404.9	1,397.6	5.1	3.5	162.16	-58.5	81.0	126.8	120.3	6.58	19.287	
1,500.0	1,473.7	1,504.6	1,495.7	5.6	3.9	162.49	-64.0	97.8	134.8	127.6	7.15	18.859	
1,600.0	1,570.4	1,604.3	1,593.8	6.1	4.2	162.79	-69.6	114.5	142.7	135.0	7.72	18.489	
1,700.0	1,667.2	1,704.0	1,691.9	6.7	4.6	163.06	-75.2	131.3	150.6	142.3	8.29	18.165	
1,800.0	1,764.0	1,803.7	1,790.0	7.2	5.0	163.30	-80.7	148.0	158.5	149.7	8.87	17.879	
1,900.0	1,860.7	1,903.3	1,888.1	7.8	5.4	163.52	-86.3	164.8	166.5	157.0	9.44	17.626	
2,000.0	1,957.5	2,003.0	1,986.2	8.3	5.8	163.72	-91.9	181.5	174.4	164.4	10.02	17.401	
2,100.0	2,054.3	2,102.7	2,084.3	8.8	6.2	163.90	-97.5	198.3	182.3	171.7	10.60	17.199	
2,200.0	2,151.0	2,202.4	2,182.4	9.4	6.6	164.07	-103.0	215.0	190.3	179.1	11.18	17.017	
2,300.0	2,247.8	2,302.1	2,280.5	9.9	7.0	164.22	-108.6	231.8	198.2	186.4	11.76	16.853	
2,400.0	2,344.6	2,401.8	2,378.7	10.5	7.4	164.36	-114.2	248.5	206.1	193.8	12.34	16.703	
2,500.0	2,441.3	2,501.4	2,476.8	11.0	7.8	164.49	-119.7	265.3	214.1	201.1	12.92	16.567	
2,600.0	2,538.1	2,601.1	2,574.9	11.6	8.2	164.61	-125.3	282.0	222.0	208.5	13.50	16.442	
2,700.0	2,634.9	2,700.8	2,673.0	12.1	8.6	164.73	-130.9	298.8	229.9	215.9	14.08	16.327	
2,800.0	2,731.6	2,800.5	2,771.1	12.6	9.0	164.83	-136.5	315.5	237.9	223.2	14.67	16.221	
2,900.0	2,828.4	2,900.2	2,869.2	13.2	9.4	164.93	-142.0	332.3	245.8	230.6	15.25	16.123	
3,000.0	2,925.1	2,999.9	2,967.3	13.7	9.8	165.02	-147.6	349.0	253.8	237.9	15.83	16.032	
3,100.0	3,021.9	3,099.5	3,065.4	14.3	10.2	165.11	-153.2	365.8	261.7	245.3	16.41	15.948	
3,200.0	3,118.7	3,199.2	3,163.5	14.8	10.6	165.19	-158.7	382.5	269.7	252.7	16.99	15.869	
3,300.0	3,215.4	3,298.9	3,261.6	15.4	11.0	165.27	-164.3	399.3	277.6	260.0	17.57	15.795	
3,400.0	3,312.2	3,398.6	3,359.7	15.9	11.4	165.34	-169.9	416.0	285.5	267.4	18.16	15.727	
3,500.0	3,409.0	3,498.3	3,457.8	16.5	11.8	165.41	-175.5	432.8	293.5	274.8	18.74	15.662	
3,600.0	3,505.7	3,598.0	3,556.0	17.0	12.2	165.48	-181.0	449.5	301.4	282.1	19.32	15.601	
3,700.0	3,602.5	3,697.6	3,654.1	17.5	12.6	165.54	-186.6	466.3	309.4	289.5	19.90	15.544	
3,800.0	3,699.3	3,797.3	3,752.2	18.1	13.0	165.60	-192.2	483.0	317.3	296.8	20.49	15.490	
3,900.0	3,796.0	3,897.0	3,850.3	18.6	13.4	165.65	-197.7	499.8	325.3	304.2	21.07	15.439	
4,000.0	3,892.8	3,996.7	3,948.4	19.2	13.8	165.70	-203.3	516.5	333.2	311.6	21.65	15.390	
4,100.0	3,989.6	4,096.4	4,046.5	19.7	14.2	165.76	-208.9	533.3	341.2	318.9	22.23	15.344	
4,200.0	4,086.3	4,196.1	4,144.6	20.3	14.6	165.80	-214.5	550.0	349.1	326.3	22.82	15.301	
4,300.0	4,183.1	4,295.7	4,242.7	20.8	15.0	165.85	-220.0	566.8	357.1	333.7	23.40	15.260	
4,400.0	4,279.8	4,395.4	4,340.8	21.4	15.4	165.89	-225.6	583.5	365.0	341.0	23.98	15.220	
4,500.0	4,376.6	4,495.1	4,438.9	21.9	15.9	165.94	-231.2	600.3	373.0	348.4	24.56	15.183	
4,600.0	4,473.4	4,594.8	4,537.0	22.5	16.3	165.98	-236.7	617.0	380.9	355.8	25.15	15.147	
4,700.0	4,570.1	4,694.5	4,635.1	23.0	16.7	166.02	-242.3	633.8	388.9	363.1	25.73	15.113	
4,800.0	4,666.9	4,794.2	4,733.2	23.5	17.1	166.05	-247.9	650.5	396.8	370.5	26.31	15.080	
4,900.0	4,763.7	4,893.8	4,831.4	24.1	17.5	166.09	-253.5	667.3	404.7	377.9	26.90	15.049	
5,000.0	4,860.4	4,993.5	4,929.5	24.6	17.9	166.12	-259.0	684.0	412.7	385.2	27.48	15.019	
5,100.0	4,957.2	5,093.2	5,027.6	25.2	18.3	166.16	-264.6	700.8	420.6	392.6	28.06	14.990	

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

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,054.0	5,192.9	5,125.7	25.7	18.7	166.19	-270.2	717.5	428.6	399.9	28.64	14.963	
5,300.0	5,150.7	5,292.6	5,223.8	26.3	19.1	166.22	-275.7	734.3	436.5	407.3	29.23	14.937	
5,400.0	5,247.5	5,392.3	5,321.9	26.8	19.5	166.25	-281.3	751.0	444.5	414.7	29.81	14.911	
5,500.0	5,344.3	5,491.9	5,420.0	27.4	19.9	166.28	-286.9	767.8	452.4	422.0	30.39	14.887	
5,600.0	5,441.0	5,591.6	5,518.1	27.9	20.3	166.31	-292.5	784.5	460.4	429.4	30.97	14.863	
5,700.0	5,537.8	5,691.3	5,616.2	28.4	20.7	166.33	-298.0	801.2	468.3	436.8	31.56	14.841	
5,800.0	5,634.5	5,791.0	5,714.3	29.0	21.1	166.36	-303.6	818.0	476.3	444.1	32.14	14.819	
5,900.0	5,731.3	5,890.7	5,812.4	29.5	21.6	166.38	-309.2	834.7	484.2	451.5	32.72	14.798	
6,000.0	5,828.1	5,990.4	5,910.5	30.1	22.0	166.41	-314.7	851.5	492.2	458.9	33.31	14.778	
6,100.0	5,924.8	6,090.0	6,008.7	30.6	22.4	166.43	-320.3	868.2	500.1	466.2	33.89	14.758	
6,200.0	6,021.6	6,189.7	6,106.8	31.2	22.8	166.45	-325.9	885.0	508.1	473.6	34.47	14.739	
6,300.0	6,118.4	6,289.4	6,204.9	31.7	23.2	166.48	-331.5	901.7	516.0	481.0	35.06	14.721	
6,400.0	6,215.1	6,389.1	6,303.0	32.3	23.6	166.50	-337.0	918.5	524.0	488.3	35.64	14.703	
6,500.0	6,311.9	6,488.8	6,401.1	32.8	24.0	166.52	-342.6	935.2	531.9	495.7	36.22	14.686	
6,600.0	6,408.7	6,588.5	6,499.2	33.4	24.4	166.54	-348.2	952.0	539.9	503.1	36.80	14.669	
6,700.0	6,505.4	6,688.1	6,597.3	33.9	24.8	166.56	-353.8	968.7	547.8	510.4	37.39	14.653	
6,800.0	6,602.2	6,787.8	6,695.4	34.4	25.2	166.58	-359.3	985.5	555.8	517.8	37.97	14.638	
6,900.0	6,699.0	6,887.5	6,793.5	35.0	25.6	166.60	-364.9	1,002.2	563.7	525.2	38.55	14.622	
7,000.0	6,795.7	6,987.2	6,891.6	35.5	26.0	166.61	-370.5	1,019.0	571.7	532.6	39.14	14.608	
7,100.0	6,892.5	7,086.9	6,989.7	36.1	26.4	166.63	-376.0	1,035.7	579.6	539.9	39.72	14.593	
7,200.0	6,989.2	7,186.6	7,087.8	36.6	26.8	166.65	-381.6	1,052.5	587.6	547.3	40.30	14.580	
7,300.0	7,086.0	7,285.3	7,184.4	37.2	27.2	166.05	-393.5	1,069.0	595.6	554.5	41.10	14.492	
7,400.0	7,182.3	7,381.6	7,276.1	37.7	27.7	142.77	-417.9	1,084.7	603.9	561.5	42.47	14.219	
7,500.0	7,276.3	7,476.0	7,362.1	38.3	28.2	124.50	-453.8	1,099.5	612.4	568.3	44.09	13.891	
7,600.0	7,366.2	7,568.8	7,441.4	38.9	28.7	113.31	-499.9	1,113.2	620.8	575.0	45.84	13.544	
7,700.0	7,450.1	7,660.3	7,513.1	39.5	29.3	105.98	-555.1	1,125.7	628.8	581.2	47.64	13.199	
7,800.0	7,526.5	7,750.0	7,576.2	40.1	29.9	100.87	-617.9	1,136.7	636.4	586.9	49.42	12.876	
7,900.0	7,593.9	7,839.7	7,631.0	40.8	30.6	97.15	-688.1	1,146.3	643.1	592.0	51.13	12.577	
8,000.0	7,651.0	7,928.0	7,676.1	41.6	31.4	94.42	-763.6	1,154.3	648.9	596.2	52.71	12.310	
8,100.0	7,696.6	8,015.7	7,711.5	42.3	32.2	92.45	-843.5	1,160.6	653.6	599.5	54.15	12.070	
8,200.0	7,729.8	8,100.0	7,736.2	43.1	33.0	91.10	-924.0	1,165.1	657.1	601.7	55.44	11.853	
8,300.0	7,750.1	8,189.7	7,752.1	43.9	33.9	90.29	-1,012.1	1,168.2	659.3	602.6	56.71	11.625	
8,400.0	7,757.0	8,276.3	7,757.0	44.8	34.8	90.00	-1,098.6	1,169.3	660.1	602.2	57.91	11.399	
8,500.0	7,756.8	8,376.3	7,756.8	45.6	35.9	90.00	-1,198.5	1,169.7	660.1	599.6	60.48	10.913	
8,600.0	7,756.6	8,476.3	7,756.6	46.6	37.1	90.00	-1,298.5	1,170.0	660.1	596.7	63.35	10.419	
8,700.0	7,756.4	8,576.3	7,756.4	47.6	38.4	90.00	-1,398.5	1,170.3	660.1	593.7	66.31	9.954	
8,800.0	7,756.2	8,676.3	7,756.2	48.6	39.7	90.00	-1,498.5	1,170.7	660.1	590.7	69.36	9.516	
8,900.0	7,756.0	8,776.3	7,756.0	49.7	41.1	90.00	-1,598.5	1,171.0	660.1	587.6	72.48	9.106	
9,000.0	7,755.8	8,876.3	7,755.8	50.9	42.5	90.00	-1,698.5	1,171.3	660.1	584.4	75.67	8.723	
9,100.0	7,755.6	8,976.3	7,755.6	52.1	43.9	90.00	-1,798.5	1,171.7	660.0	581.1	78.92	8.364	
9,200.0	7,755.4	9,076.3	7,755.4	53.3	45.4	90.00	-1,898.5	1,172.0	660.0	577.8	82.21	8.029	
9,300.0	7,755.2	9,176.3	7,755.2	54.6	46.9	90.00	-1,998.5	1,172.3	660.0	574.5	85.55	7.715	
9,400.0	7,755.0	9,276.3	7,755.0	55.9	48.4	90.00	-2,098.5	1,172.7	660.0	571.1	88.93	7.422	
9,500.0	7,754.8	9,376.3	7,754.8	57.3	50.0	90.00	-2,198.5	1,173.0	660.0	567.7	92.35	7.148	
9,600.0	7,754.6	9,476.3	7,754.6	58.7	51.6	90.00	-2,298.5	1,173.3	660.0	564.3	95.79	6.890	
9,700.0	7,754.4	9,576.3	7,754.4	60.1	53.2	90.00	-2,398.5	1,173.7	660.0	560.8	99.27	6.649	
9,800.0	7,754.2	9,676.3	7,754.2	61.5	54.8	90.00	-2,498.5	1,174.0	660.0	557.3	102.77	6.423	
9,900.0	7,754.0	9,776.3	7,754.0	63.0	56.5	90.00	-2,598.5	1,174.3	660.0	553.7	106.29	6.210	
10,000.0	7,753.8	9,876.3	7,753.8	64.5	58.1	90.00	-2,698.5	1,174.7	660.0	550.2	109.83	6.009	
10,100.0	7,753.6	9,976.3	7,753.6	66.0	59.8	90.00	-2,798.5	1,175.0	660.0	546.6	113.40	5.821	
10,200.0	7,753.4	10,076.3	7,753.4	67.6	61.5	90.00	-2,898.5	1,175.3	660.0	543.1	116.98	5.642	
10,300.0	7,753.2	10,176.3	7,753.2	69.1	63.2	90.00	-2,998.5	1,175.7	660.0	539.5	120.57	5.474	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,753.0	10,276.3	7,753.0	70.7	64.9	90.00	-3,098.5	1,176.0	660.0	535.9	124.18	5.315	
10,500.0	7,752.8	10,376.3	7,752.8	72.3	66.7	90.00	-3,198.5	1,176.3	660.0	532.2	127.80	5.164	
10,600.0	7,752.6	10,476.3	7,752.6	73.9	68.4	90.00	-3,298.5	1,176.7	660.0	528.6	131.44	5.022	
10,700.0	7,752.4	10,576.3	7,752.4	75.5	70.1	90.00	-3,398.5	1,177.0	660.0	524.9	135.08	4.886	
10,800.0	7,752.2	10,676.3	7,752.2	77.2	71.9	90.00	-3,498.5	1,177.3	660.0	521.3	138.74	4.757	
10,900.0	7,752.0	10,776.3	7,752.0	78.8	73.7	90.00	-3,598.5	1,177.7	660.0	517.6	142.40	4.635	
11,000.0	7,751.8	10,876.3	7,751.8	80.5	75.4	90.00	-3,698.5	1,178.0	660.0	514.0	146.07	4.518	
11,100.0	7,751.6	10,976.3	7,751.6	82.1	77.2	90.00	-3,798.5	1,178.3	660.0	510.3	149.75	4.407	
11,200.0	7,751.4	11,076.3	7,751.4	83.8	79.0	90.00	-3,898.5	1,178.7	660.0	506.6	153.44	4.301	
11,300.0	7,751.2	11,176.3	7,751.2	85.5	80.8	90.00	-3,998.5	1,179.0	660.0	502.9	157.14	4.200	
11,400.0	7,751.0	11,276.3	7,751.0	87.2	82.6	90.00	-4,098.5	1,179.3	660.0	499.2	160.84	4.104	
11,500.0	7,750.8	11,376.3	7,750.8	88.9	84.4	90.00	-4,198.5	1,179.7	660.0	495.5	164.55	4.011	
11,600.0	7,750.6	11,476.3	7,750.5	90.7	86.2	90.00	-4,298.5	1,180.0	660.0	491.8	168.26	3.923	
11,700.0	7,750.4	11,576.3	7,750.3	92.4	88.0	90.00	-4,398.5	1,180.3	660.0	488.0	171.98	3.838	
11,800.0	7,750.2	11,676.3	7,750.1	94.1	89.8	90.00	-4,498.5	1,180.6	660.0	484.3	175.70	3.756	
11,900.0	7,750.0	11,776.3	7,749.9	95.9	91.7	90.00	-4,598.5	1,181.0	660.0	480.6	179.43	3.678	
12,000.0	7,749.8	11,876.3	7,749.7	97.6	93.5	90.00	-4,698.5	1,181.3	660.0	476.8	183.16	3.603	
12,100.0	7,749.6	11,976.3	7,749.5	99.4	95.3	90.00	-4,798.5	1,181.6	660.0	473.1	186.90	3.531	
12,200.0	7,749.4	12,076.3	7,749.3	101.1	97.1	90.00	-4,898.5	1,182.0	660.0	469.4	190.64	3.462	
12,300.0	7,749.1	12,176.3	7,749.1	102.9	99.0	90.00	-4,998.5	1,182.3	660.0	465.6	194.38	3.395	
12,400.0	7,748.9	12,276.3	7,748.9	104.7	100.8	90.00	-5,098.5	1,182.6	660.0	461.9	198.13	3.331	
12,500.0	7,748.7	12,376.3	7,748.7	106.4	102.6	90.00	-5,198.5	1,183.0	660.0	458.1	201.88	3.269	
12,600.0	7,748.5	12,476.3	7,748.5	108.2	104.5	90.00	-5,298.5	1,183.3	660.0	454.4	205.63	3.210	
12,700.0	7,748.3	12,576.3	7,748.3	110.0	106.3	90.00	-5,398.5	1,183.6	660.0	450.6	209.39	3.152	
12,800.0	7,748.1	12,676.3	7,748.1	111.8	108.2	90.00	-5,498.5	1,184.0	660.0	446.9	213.15	3.096	
12,900.0	7,747.9	12,776.3	7,747.9	113.6	110.0	90.00	-5,598.5	1,184.3	660.0	443.1	216.91	3.043	
13,000.0	7,747.7	12,876.3	7,747.7	115.4	111.9	90.00	-5,698.5	1,184.6	660.0	439.3	220.67	2.991	
13,100.0	7,747.5	12,976.3	7,747.5	117.2	113.7	90.00	-5,798.5	1,185.0	660.0	435.6	224.44	2.941	
13,200.0	7,747.3	13,076.3	7,747.3	119.0	115.6	90.00	-5,898.5	1,185.3	660.0	431.8	228.20	2.892	
13,300.0	7,747.1	13,176.3	7,747.1	120.8	117.5	90.00	-5,998.5	1,185.6	660.0	428.0	231.97	2.845	
13,400.0	7,746.9	13,276.3	7,746.9	122.6	119.3	90.00	-6,098.5	1,186.0	660.0	424.2	235.75	2.800	
13,500.0	7,746.7	13,376.3	7,746.7	124.4	121.2	90.00	-6,198.5	1,186.3	660.0	420.5	239.52	2.755	
13,600.0	7,746.5	13,476.3	7,746.5	126.3	123.0	90.00	-6,298.5	1,186.6	660.0	416.7	243.30	2.713	
13,700.0	7,746.3	13,576.3	7,746.3	128.1	124.9	90.00	-6,398.5	1,187.0	660.0	412.9	247.07	2.671	
13,800.0	7,746.1	13,676.3	7,746.1	129.9	126.8	90.00	-6,498.5	1,187.3	660.0	409.1	250.85	2.631	
13,900.0	7,745.9	13,776.3	7,745.9	131.7	128.6	90.00	-6,598.5	1,187.6	660.0	405.4	254.64	2.592	
14,000.0	7,745.7	13,876.3	7,745.7	133.6	130.5	90.00	-6,698.5	1,188.0	660.0	401.6	258.42	2.554	
14,100.0	7,745.5	13,976.3	7,745.5	135.4	132.4	90.00	-6,798.5	1,188.3	660.0	397.8	262.20	2.517	
14,200.0	7,745.3	14,076.3	7,745.3	137.2	134.3	90.00	-6,898.5	1,188.6	660.0	394.0	265.99	2.481	
14,300.0	7,745.1	14,176.3	7,745.1	139.1	136.1	90.00	-6,998.5	1,189.0	660.0	390.2	269.77	2.446	
14,400.0	7,744.9	14,276.3	7,744.9	140.9	138.0	90.00	-7,098.5	1,189.3	660.0	386.4	273.56	2.413	
14,500.0	7,744.7	14,376.3	7,744.7	142.8	139.9	90.00	-7,198.5	1,189.6	660.0	382.6	277.35	2.380	
14,600.0	7,744.5	14,476.3	7,744.5	144.6	141.8	90.00	-7,298.5	1,190.0	660.0	378.8	281.14	2.347	
14,700.0	7,744.3	14,576.3	7,744.3	146.4	143.6	90.00	-7,398.5	1,190.3	660.0	375.0	284.93	2.316	
14,800.0	7,744.1	14,676.3	7,744.1	148.3	145.5	90.00	-7,498.5	1,190.6	660.0	371.2	288.72	2.286	
14,900.0	7,743.9	14,776.3	7,743.9	150.1	147.4	90.00	-7,598.5	1,191.0	660.0	367.5	292.52	2.256	
15,000.0	7,743.7	14,876.3	7,743.7	152.0	149.3	90.00	-7,698.5	1,191.3	660.0	363.7	296.31	2.227	
15,100.0	7,743.5	14,976.3	7,743.5	153.8	151.2	90.00	-7,798.5	1,191.6	660.0	359.9	300.11	2.199	
15,200.0	7,743.3	15,076.3	7,743.3	155.7	153.0	90.00	-7,898.5	1,192.0	660.0	356.1	303.90	2.172	
15,300.0	7,743.1	15,176.3	7,743.1	157.6	154.9	90.00	-7,998.5	1,192.3	660.0	352.3	307.70	2.145	
15,400.0	7,742.9	15,276.3	7,742.9	159.4	156.8	90.00	-8,098.5	1,192.6	660.0	348.5	311.50	2.119	
15,500.0	7,742.7	15,376.3	7,742.7	161.3	158.7	90.00	-8,198.5	1,193.0	660.0	344.7	315.30	2.093	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,600.0	7,742.5	15,476.3	7,742.5	163.1	160.6	90.00	-8,298.5	1,193.3	660.0	340.9	319.10	2.068	
15,700.0	7,742.3	15,576.3	7,742.3	165.0	162.5	90.00	-8,398.5	1,193.6	660.0	337.1	322.90	2.044	
15,800.0	7,742.1	15,676.3	7,742.1	166.8	164.3	90.00	-8,498.5	1,194.0	660.0	333.3	326.70	2.020	
15,834.5	7,742.0	15,710.8	7,742.0	167.4	165.0	90.00	-8,532.9	1,194.1	660.0	332.1	327.85	2.013	
15,848.7	7,742.0	15,717.4	7,742.0	167.7	165.1	90.00	-8,539.5	1,194.1	660.0	331.8	328.17	2.011	SF

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	33.64	417.5	277.7	501.4				
100.0	100.0	97.0	97.0	0.1	0.1	33.64	417.5	277.7	501.4	501.2	0.22	2,264.793	
200.0	200.0	197.0	197.0	0.3	0.3	33.64	417.5	277.7	501.4	500.8	0.67	751.138	
300.0	300.0	297.0	297.0	0.5	0.6	-69.55	417.5	277.7	500.8	499.7	1.10	453.230	
400.0	399.8	396.8	396.8	0.8	0.8	-70.15	417.5	277.7	499.0	497.5	1.55	322.000	
500.0	499.5	512.7	512.6	1.0	1.0	-71.47	416.6	275.7	494.5	492.5	2.04	242.160	
600.0	598.7	627.4	627.1	1.3	1.3	-73.65	413.7	269.5	485.9	483.4	2.57	188.829	
700.0	697.5	739.5	738.7	1.6	1.5	-76.72	409.1	259.5	473.9	470.7	3.17	149.656	
800.0	795.6	848.3	846.5	2.0	1.8	-80.70	402.9	245.9	459.3	455.5	3.84	119.733	
900.0	893.1	953.2	949.8	2.5	2.2	-85.61	395.3	229.3	443.6	439.0	4.60	96.428	
1,000.0	989.9	1,048.4	1,043.0	3.0	2.6	-90.72	387.3	211.7	428.8	423.3	5.43	78.929	
1,100.0	1,086.6	1,138.9	1,131.6	3.5	2.9	-95.80	379.5	194.8	417.5	411.2	6.29	66.416	
1,200.0	1,183.4	1,229.5	1,220.2	4.0	3.3	-101.07	371.8	177.8	410.4	403.2	7.16	57.329	
1,300.0	1,280.2	1,320.1	1,308.8	4.5	3.7	-106.45	364.0	160.8	407.5	399.5	8.02	50.784	
1,314.5	1,294.2	1,333.2	1,321.7	4.6	3.8	-107.24	362.9	158.3	407.5	399.3	8.15	50.000	CC, ES
1,400.0	1,376.9	1,410.6	1,397.4	5.1	4.1	-111.84	356.3	143.8	409.1	400.2	8.87	46.141	
1,500.0	1,473.7	1,501.2	1,486.0	5.6	4.5	-117.15	348.5	126.8	415.0	405.3	9.67	42.940	
1,600.0	1,570.4	1,591.7	1,574.6	6.1	4.9	-122.29	340.7	109.8	425.1	414.7	10.41	40.830	
1,700.0	1,667.2	1,682.3	1,663.3	6.7	5.3	-127.20	333.0	92.9	439.1	428.0	11.10	39.553	
1,800.0	1,764.0	1,772.9	1,751.9	7.2	5.7	-131.82	325.2	75.9	456.6	444.8	11.73	38.909	
1,900.0	1,860.7	1,863.4	1,840.5	7.8	6.1	-136.13	317.5	58.9	477.2	464.9	12.32	38.743	
2,000.0	1,957.5	1,954.0	1,929.1	8.3	6.6	-140.10	309.7	41.9	500.6	487.7	12.86	38.934	
2,100.0	2,054.3	2,044.5	2,017.7	8.8	7.0	-143.75	301.9	24.9	526.3	513.0	13.36	39.387	
2,200.0	2,151.0	2,135.1	2,106.3	9.4	7.4	-147.08	294.2	8.0	554.1	540.3	13.84	40.027	
2,300.0	2,247.8	2,225.7	2,195.0	9.9	7.8	-150.12	286.4	-9.0	583.7	569.4	14.31	40.797	
2,400.0	2,344.6	2,316.2	2,283.6	10.5	8.2	-152.89	278.6	-26.0	614.8	600.0	14.76	41.652	
2,500.0	2,441.3	2,406.8	2,372.2	11.0	8.6	-155.41	270.9	-43.0	647.2	632.0	15.21	42.557	
2,600.0	2,538.1	2,497.3	2,460.8	11.6	9.0	-157.70	263.1	-60.0	680.6	665.0	15.65	43.487	
2,700.0	2,634.9	2,587.9	2,549.4	12.1	9.4	-159.79	255.4	-77.0	715.1	699.0	16.10	44.421	
2,800.0	2,731.6	2,678.5	2,638.0	12.6	9.9	-161.70	247.6	-93.9	750.3	733.8	16.55	45.347	
2,900.0	2,828.4	2,769.0	2,726.6	13.2	10.3	-163.45	239.8	-110.9	786.3	769.3	17.00	46.254	
3,000.0	2,925.1	2,859.6	2,815.3	13.7	10.7	-165.05	232.1	-127.9	822.8	805.4	17.46	47.134	
3,100.0	3,021.9	2,950.2	2,903.9	14.3	11.1	-166.52	224.3	-144.9	859.9	842.0	17.92	47.985	
3,200.0	3,118.7	3,040.7	2,992.5	14.8	11.5	-167.87	216.5	-161.9	897.5	879.1	18.39	48.802	
3,300.0	3,215.4	3,131.3	3,081.1	15.4	11.9	-169.12	208.8	-178.9	935.5	916.6	18.87	49.584	
3,400.0	3,312.2	3,221.8	3,169.7	15.9	12.4	-170.27	201.0	-195.8	973.8	954.5	19.35	50.332	
7,100.0	6,892.5	10,150.5	7,838.5	36.1	63.5	-139.45	-116.5	1,611.5	982.5	903.6	78.84	12.461	
7,200.0	6,989.2	10,174.7	7,838.4	36.6	64.2	-136.51	-116.6	1,635.7	890.9	808.6	82.32	10.822	
7,300.0	7,086.0	10,199.0	7,838.3	37.2	64.8	-133.35	-116.7	1,660.0	800.6	714.7	85.91	9.318	
7,400.0	7,182.3	10,223.2	7,838.2	37.7	65.4	-146.61	-116.8	1,684.1	714.3	622.2	92.09	7.756	
7,500.0	7,276.3	10,246.8	7,838.1	38.3	66.0	-157.02	-116.8	1,707.8	639.3	545.3	94.07	6.796	
7,600.0	7,366.2	10,269.6	7,838.1	38.9	66.6	-162.46	-116.9	1,730.6	582.1	489.5	92.65	6.283	
7,700.0	7,450.1	10,290.9	7,838.0	39.5	67.2	-165.35	-117.0	1,751.9	549.6	460.9	88.71	6.196	SF
7,758.3	7,495.7	10,302.6	7,837.9	39.9	67.5	-166.39	-117.0	1,763.6	544.3	458.8	85.45	6.369	
7,800.0	7,526.5	10,310.5	7,837.9	40.1	67.7	-166.94	-117.0	1,771.5	547.0	464.2	82.76	6.609	
7,900.0	7,593.9	10,327.9	7,837.8	40.8	68.1	-167.84	-117.1	1,788.8	575.0	499.8	75.20	7.646	
8,000.0	7,651.0	10,342.7	7,837.8	41.6	68.5	-168.35	-117.2	1,803.7	629.2	562.8	66.45	9.470	
8,100.0	7,696.6	10,354.7	7,837.7	42.3	68.8	-168.68	-117.2	1,815.7	702.9	645.9	57.01	12.330	
8,200.0	7,729.8	10,363.7	7,837.7	43.1	69.0	-169.03	-117.2	1,824.7	789.6	742.0	47.64	16.575	
8,300.0	7,750.1	10,369.5	7,837.7	43.9	69.2	-169.90	-117.2	1,830.5	884.1	844.6	39.52	22.372	
8,400.0	7,757.0	10,371.9	7,837.7	44.8	69.3	-174.86	-117.2	1,832.9	982.7	948.0	34.67	28.343	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-156.96	-13.8	-5.9	15.0	15.0	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-156.96	-13.8	-5.9	15.0	14.8	0.22	66.906	
200.0	200.0	200.0	200.0	0.3	0.3	-156.96	-13.8	-5.9	15.0	14.4	0.67	22.302	CC
300.0	300.0	300.0	300.0	0.5	0.6	106.43	-13.8	-5.9	15.4	14.3	1.11	13.890	ES
400.0	399.8	399.8	399.8	0.8	0.8	122.90	-13.8	-5.9	17.6	16.1	1.56	11.328	
500.0	499.5	500.0	500.0	1.0	1.0	138.04	-14.3	-4.2	22.3	20.3	2.01	11.109	
600.0	598.7	600.5	600.3	1.3	1.2	147.32	-15.7	0.9	28.0	25.5	2.45	11.414	
700.0	697.5	701.2	700.6	1.6	1.4	153.16	-18.0	9.4	34.2	31.3	2.91	11.734	
800.0	795.6	802.1	800.8	2.0	1.7	156.98	-21.2	21.3	40.7	37.3	3.39	11.979	
900.0	893.1	903.3	900.7	2.5	2.0	159.58	-25.4	36.7	47.3	43.4	3.90	12.132	
1,000.0	989.9	1,004.7	1,000.3	3.0	2.4	161.13	-30.4	55.5	53.2	48.8	4.43	11.994	
1,100.0	1,086.6	1,104.8	1,098.1	3.5	2.8	161.69	-36.0	76.1	57.3	52.3	5.00	11.455	
1,200.0	1,183.4	1,204.8	1,195.7	4.0	3.2	162.17	-41.6	96.6	61.4	55.8	5.58	11.006	
1,300.0	1,280.2	1,304.7	1,293.3	4.5	3.7	162.59	-47.1	117.2	65.5	59.4	6.16	10.631	
1,400.0	1,376.9	1,404.6	1,390.9	5.1	4.1	162.97	-52.7	137.7	69.6	62.9	6.75	10.321	
1,500.0	1,473.7	1,504.5	1,488.6	5.6	4.6	163.30	-58.2	158.2	73.7	66.4	7.33	10.054	
1,600.0	1,570.4	1,604.4	1,586.2	6.1	5.0	163.59	-63.8	178.8	77.9	69.9	7.92	9.826	
1,700.0	1,667.2	1,704.3	1,683.8	6.7	5.5	163.86	-69.3	199.3	82.0	73.5	8.51	9.629	
1,800.0	1,764.0	1,804.2	1,781.4	7.2	5.9	164.10	-74.9	219.9	86.1	77.0	9.10	9.456	
1,900.0	1,860.7	1,904.2	1,879.0	7.8	6.4	164.32	-80.5	240.4	90.2	80.5	9.69	9.305	
2,000.0	1,957.5	2,004.1	1,976.7	8.3	6.9	164.52	-86.0	261.0	94.3	84.0	10.29	9.170	
2,100.0	2,054.3	2,104.0	2,074.3	8.8	7.3	164.70	-91.6	281.5	98.5	87.6	10.88	9.050	
2,200.0	2,151.0	2,203.9	2,171.9	9.4	7.8	164.87	-97.1	302.1	102.6	91.1	11.47	8.943	
2,300.0	2,247.8	2,303.8	2,269.5	9.9	8.3	165.02	-102.7	322.6	106.7	94.6	12.06	8.846	
2,400.0	2,344.6	2,403.7	2,367.1	10.5	8.7	165.17	-108.2	343.1	110.8	98.2	12.65	8.758	
2,500.0	2,441.3	2,503.6	2,464.8	11.0	9.2	165.30	-113.8	363.7	115.0	101.7	13.25	8.678	
2,600.0	2,538.1	2,603.6	2,562.4	11.6	9.7	165.42	-119.4	384.2	119.1	105.2	13.84	8.604	
2,700.0	2,634.9	2,703.5	2,660.0	12.1	10.1	165.54	-124.9	404.8	123.2	108.8	14.43	8.537	
2,800.0	2,731.6	2,803.4	2,757.6	12.6	10.6	165.65	-130.5	425.3	127.3	112.3	15.02	8.475	
2,900.0	2,828.4	2,903.3	2,855.3	13.2	11.1	165.75	-136.0	445.9	131.5	115.8	15.62	8.418	
3,000.0	2,925.1	3,003.2	2,952.9	13.7	11.5	165.85	-141.6	466.4	135.6	119.4	16.21	8.365	
3,100.0	3,021.9	3,103.1	3,050.5	14.3	12.0	165.93	-147.1	486.9	139.7	122.9	16.80	8.316	
3,200.0	3,118.7	3,203.0	3,148.1	14.8	12.5	166.02	-152.7	507.5	143.8	126.5	17.39	8.270	
3,300.0	3,215.4	3,303.0	3,245.7	15.4	12.9	166.10	-158.3	528.0	148.0	130.0	17.99	8.227	
3,400.0	3,312.2	3,402.9	3,343.4	15.9	13.4	166.17	-163.8	548.6	152.1	133.5	18.58	8.187	
3,500.0	3,409.0	3,502.8	3,441.0	16.5	13.9	166.25	-169.4	569.1	156.2	137.1	19.17	8.150	
3,600.0	3,505.7	3,602.7	3,538.6	17.0	14.3	166.31	-174.9	589.7	160.4	140.6	19.76	8.114	
3,700.0	3,602.5	3,702.6	3,636.2	17.5	14.8	166.38	-180.5	610.2	164.5	144.1	20.35	8.081	
3,800.0	3,699.3	3,802.5	3,733.8	18.1	15.3	166.44	-186.0	630.8	168.6	147.7	20.95	8.050	
3,900.0	3,796.0	3,902.4	3,831.5	18.6	15.8	166.50	-191.6	651.3	172.8	151.2	21.54	8.020	
4,000.0	3,892.8	4,002.4	3,929.1	19.2	16.2	166.55	-197.2	671.8	176.9	154.8	22.13	7.992	
4,100.0	3,989.6	4,102.3	4,026.7	19.7	16.7	166.61	-202.7	692.4	181.0	158.3	22.72	7.966	
4,200.0	4,086.3	4,202.2	4,124.3	20.3	17.2	166.66	-208.3	712.9	185.1	161.8	23.32	7.941	
4,300.0	4,183.1	4,302.1	4,222.0	20.8	17.6	166.71	-213.8	733.5	189.3	165.4	23.91	7.917	
4,400.0	4,279.8	4,402.0	4,319.6	21.4	18.1	166.75	-219.4	754.0	193.4	168.9	24.50	7.894	
4,500.0	4,376.6	4,501.9	4,417.2	21.9	18.6	166.80	-224.9	774.6	197.5	172.4	25.09	7.873	
4,600.0	4,473.4	4,601.8	4,514.8	22.5	19.0	166.84	-230.5	795.1	201.7	176.0	25.68	7.852	
4,700.0	4,570.1	4,701.8	4,612.4	23.0	19.5	166.88	-236.1	815.7	205.8	179.5	26.28	7.832	
4,800.0	4,666.9	4,801.7	4,710.1	23.5	20.0	166.92	-241.6	836.2	209.9	183.1	26.87	7.813	
4,900.0	4,763.7	4,901.6	4,807.7	24.1	20.5	166.96	-247.2	856.7	214.1	186.6	27.46	7.795	
5,000.0	4,860.4	5,001.5	4,905.3	24.6	20.9	166.99	-252.7	877.3	218.2	190.1	28.05	7.778	
5,100.0	4,957.2	5,101.4	5,002.9	25.2	21.4	167.03	-258.3	897.8	222.3	193.7	28.64	7.762	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,054.0	5,201.3	5,100.5	25.7	21.9	167.06	-263.8	918.4	226.5	197.2	29.24	7.746	
5,300.0	5,150.7	5,301.2	5,198.2	26.3	22.3	167.09	-269.4	938.9	230.6	200.8	29.83	7.731	
5,400.0	5,247.5	5,401.2	5,295.8	26.8	22.8	167.13	-275.0	959.5	234.7	204.3	30.42	7.716	
5,500.0	5,344.3	5,501.1	5,393.4	27.4	23.3	167.16	-280.5	980.0	238.9	207.8	31.01	7.702	
5,600.0	5,441.0	5,601.0	5,491.0	27.9	23.8	167.19	-286.1	1,000.6	243.0	211.4	31.60	7.688	
5,700.0	5,537.8	5,700.9	5,588.7	28.4	24.2	167.21	-291.6	1,021.1	247.1	214.9	32.20	7.675	
5,800.0	5,634.5	5,800.8	5,686.3	29.0	24.7	167.24	-297.2	1,041.6	251.3	218.5	32.79	7.663	
5,900.0	5,731.3	5,900.7	5,783.9	29.5	25.2	167.27	-302.7	1,062.2	255.4	222.0	33.38	7.651	
6,000.0	5,828.1	6,000.7	5,881.5	30.1	25.6	167.29	-308.3	1,082.7	259.5	225.5	33.97	7.639	
6,100.0	5,924.8	6,100.6	5,979.1	30.6	26.1	167.32	-313.9	1,103.3	263.7	229.1	34.56	7.628	
6,200.0	6,021.6	6,200.5	6,076.8	31.2	26.6	167.34	-319.4	1,123.8	267.8	232.6	35.16	7.617	
6,300.0	6,118.4	6,300.4	6,174.4	31.7	27.0	167.37	-325.0	1,144.4	271.9	236.2	35.75	7.606	
6,400.0	6,215.1	6,400.3	6,272.0	32.3	27.5	167.39	-330.5	1,164.9	276.0	239.7	36.34	7.596	
6,500.0	6,311.9	6,500.2	6,369.6	32.8	28.0	167.41	-336.1	1,185.4	280.2	243.2	36.93	7.586	
6,600.0	6,408.7	6,600.1	6,467.3	33.4	28.5	167.43	-341.6	1,206.0	284.3	246.8	37.52	7.577	
6,700.0	6,505.4	6,700.1	6,564.9	33.9	28.9	167.45	-347.2	1,226.5	288.4	250.3	38.12	7.568	
6,800.0	6,602.2	6,800.0	6,662.5	34.4	29.4	167.47	-352.7	1,247.1	292.6	253.9	38.71	7.559	
6,900.0	6,699.0	6,899.9	6,760.1	35.0	29.9	167.49	-358.3	1,267.6	296.7	257.4	39.30	7.550	
7,000.0	6,795.7	6,999.8	6,857.7	35.5	30.3	167.51	-363.9	1,288.2	300.8	261.0	39.89	7.542	
7,100.0	6,892.5	7,099.7	6,955.4	36.1	30.8	167.53	-369.4	1,308.7	305.0	264.5	40.48	7.533	
7,200.0	6,989.2	7,199.6	7,053.0	36.6	31.3	167.55	-375.0	1,329.3	309.1	268.0	41.08	7.525	
7,300.0	7,086.0	7,299.5	7,150.6	37.2	31.8	167.56	-380.5	1,349.8	313.2	271.6	41.67	7.518	
7,400.0	7,182.3	7,399.8	7,248.3	37.7	32.2	146.32	-388.9	1,370.4	317.4	275.1	42.24	7.513	
7,500.0	7,276.3	7,500.5	7,344.6	38.3	32.7	130.16	-410.3	1,390.7	321.4	278.5	42.95	7.485	
7,600.0	7,366.2	7,601.7	7,437.3	38.9	33.3	120.93	-445.5	1,410.3	325.4	281.5	43.84	7.422	
7,700.0	7,450.1	7,703.2	7,524.5	39.5	33.9	115.37	-493.9	1,428.9	329.0	284.1	44.94	7.322	
7,800.0	7,526.5	7,805.1	7,604.4	40.1	34.5	111.81	-554.6	1,445.9	332.4	286.1	46.27	7.183	
7,900.0	7,593.9	7,907.4	7,675.3	40.8	35.2	109.44	-626.5	1,461.1	335.3	287.5	47.87	7.005	
8,000.0	7,651.0	8,009.9	7,735.7	41.6	36.0	107.83	-708.3	1,474.1	337.8	288.1	49.73	6.793	
8,100.0	7,696.6	8,112.6	7,784.0	42.3	36.8	106.72	-798.2	1,484.6	339.9	288.0	51.86	6.553	
8,200.0	7,729.8	8,215.5	7,819.3	43.1	37.7	106.00	-894.4	1,492.4	341.3	287.1	54.23	6.294	
8,300.0	7,750.1	8,318.5	7,840.8	43.9	38.6	105.57	-995.0	1,497.3	342.2	285.4	56.79	6.026	
8,400.0	7,757.0	8,421.6	7,848.0	44.8	39.6	105.41	-1,097.7	1,499.2	342.5	283.0	59.49	5.757	
8,500.0	7,756.8	8,521.6	7,847.8	45.6	40.5	105.41	-1,197.6	1,499.6	342.5	280.5	62.01	5.523	
8,600.0	7,756.6	8,621.6	7,847.6	46.6	41.6	105.40	-1,297.6	1,499.9	342.5	277.7	64.79	5.286	
8,700.0	7,756.4	8,721.6	7,847.4	47.6	42.7	105.40	-1,397.6	1,500.2	342.5	274.8	67.66	5.062	
8,800.0	7,756.2	8,821.6	7,847.1	48.6	43.9	105.40	-1,497.6	1,500.6	342.5	271.8	70.61	4.850	
8,900.0	7,756.0	8,921.6	7,846.9	49.7	45.1	105.40	-1,597.6	1,500.9	342.5	268.8	73.63	4.651	
9,000.0	7,755.8	9,021.6	7,846.7	50.9	46.4	105.40	-1,697.6	1,501.2	342.4	265.7	76.71	4.464	
9,100.0	7,755.6	9,121.6	7,846.5	52.1	47.7	105.39	-1,797.6	1,501.6	342.4	262.6	79.84	4.289	
9,200.0	7,755.4	9,221.6	7,846.3	53.3	49.1	105.39	-1,897.6	1,501.9	342.4	259.4	83.02	4.124	
9,300.0	7,755.2	9,321.6	7,846.1	54.6	50.5	105.39	-1,997.6	1,502.2	342.4	256.2	86.25	3.970	
9,400.0	7,755.0	9,421.6	7,845.9	55.9	51.9	105.39	-2,097.6	1,502.6	342.4	252.9	89.51	3.825	
9,500.0	7,754.8	9,521.6	7,845.6	57.3	53.4	105.39	-2,197.6	1,502.9	342.4	249.6	92.81	3.689	
9,600.0	7,754.6	9,621.6	7,845.4	58.7	54.9	105.38	-2,297.6	1,503.2	342.4	246.3	96.14	3.562	
9,700.0	7,754.4	9,721.6	7,845.2	60.1	56.4	105.38	-2,397.6	1,503.6	342.4	242.9	99.49	3.441	
9,800.0	7,754.2	9,821.6	7,845.0	61.5	57.9	105.38	-2,497.6	1,503.9	342.4	239.5	102.87	3.328	
9,900.0	7,754.0	9,921.6	7,844.8	63.0	59.5	105.38	-2,597.6	1,504.2	342.4	236.1	106.28	3.222	
10,000.0	7,753.8	10,021.6	7,844.6	64.5	61.1	105.38	-2,697.6	1,504.6	342.4	232.7	109.70	3.121	
10,100.0	7,753.6	10,121.6	7,844.3	66.0	62.7	105.37	-2,797.6	1,504.9	342.4	229.2	113.14	3.026	
10,200.0	7,753.4	10,221.6	7,844.1	67.6	64.3	105.37	-2,897.6	1,505.2	342.4	225.8	116.60	2.936	
10,300.0	7,753.2	10,321.6	7,843.9	69.1	66.0	105.37	-2,997.6	1,505.6	342.4	222.3	120.07	2.851	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.0	7,753.0	10,421.6	7,843.7	70.7	67.6	105.37	-3,097.6	1,505.9	342.4	218.8	123.56	2.771	
10,500.0	7,752.8	10,521.6	7,843.5	72.3	69.3	105.37	-3,197.6	1,506.2	342.4	215.3	127.06	2.694	
10,600.0	7,752.6	10,621.6	7,843.3	73.9	71.0	105.36	-3,297.6	1,506.6	342.3	211.8	130.58	2.622	
10,700.0	7,752.4	10,721.6	7,843.1	75.5	72.7	105.36	-3,397.6	1,506.9	342.3	208.2	134.10	2.553	
10,800.0	7,752.2	10,821.6	7,842.8	77.2	74.4	105.36	-3,497.6	1,507.2	342.3	204.7	137.64	2.487	
10,900.0	7,752.0	10,921.6	7,842.6	78.8	76.1	105.36	-3,597.6	1,507.6	342.3	201.1	141.18	2.425	
11,000.0	7,751.8	11,021.6	7,842.4	80.5	77.8	105.35	-3,697.6	1,507.9	342.3	197.6	144.73	2.365	
11,100.0	7,751.6	11,121.6	7,842.2	82.1	79.5	105.35	-3,797.6	1,508.2	342.3	194.0	148.29	2.308	
11,200.0	7,751.4	11,221.6	7,842.0	83.8	81.3	105.35	-3,897.6	1,508.6	342.3	190.4	151.86	2.254	
11,300.0	7,751.2	11,321.6	7,841.8	85.5	83.0	105.35	-3,997.6	1,508.9	342.3	186.9	155.44	2.202	
11,400.0	7,751.0	11,421.6	7,841.6	87.2	84.8	105.35	-4,097.6	1,509.2	342.3	183.3	159.02	2.153	
11,500.0	7,750.8	11,521.6	7,841.3	88.9	86.5	105.34	-4,197.6	1,509.6	342.3	179.7	162.61	2.105	
11,600.0	7,750.6	11,621.6	7,841.1	90.7	88.3	105.34	-4,297.6	1,509.9	342.3	176.1	166.20	2.059	
11,700.0	7,750.4	11,721.6	7,840.9	92.4	90.1	105.34	-4,397.6	1,510.2	342.3	172.5	169.80	2.016	
11,800.0	7,750.2	11,821.6	7,840.7	94.1	91.8	105.34	-4,497.6	1,510.6	342.3	168.9	173.41	1.974	
11,900.0	7,750.0	11,921.6	7,840.5	95.9	93.6	105.34	-4,597.6	1,510.9	342.3	165.3	177.01	1.934	
12,000.0	7,749.8	12,021.6	7,840.3	97.6	95.4	105.33	-4,697.6	1,511.2	342.3	161.6	180.63	1.895	
12,100.0	7,749.6	12,121.6	7,840.0	99.4	97.2	105.33	-4,797.6	1,511.6	342.3	158.0	184.25	1.858	
12,200.0	7,749.4	12,221.6	7,839.8	101.1	99.0	105.33	-4,897.6	1,511.9	342.3	154.4	187.87	1.822	
12,300.0	7,749.1	12,321.6	7,839.6	102.9	100.8	105.33	-4,997.6	1,512.2	342.2	150.8	191.49	1.787	
12,400.0	7,748.9	12,421.6	7,839.4	104.7	102.6	105.33	-5,097.6	1,512.6	342.2	147.1	195.12	1.754	
12,500.0	7,748.7	12,521.6	7,839.2	106.4	104.4	105.32	-5,197.6	1,512.9	342.2	143.5	198.75	1.722	
12,600.0	7,748.5	12,621.6	7,839.0	108.2	106.3	105.32	-5,297.6	1,513.2	342.2	139.8	202.39	1.691	
12,700.0	7,748.3	12,721.6	7,838.8	110.0	108.1	105.32	-5,397.6	1,513.6	342.2	136.2	206.03	1.661	
12,800.0	7,748.1	12,821.6	7,838.5	111.8	109.9	105.32	-5,497.6	1,513.9	342.2	132.5	209.67	1.632	
12,900.0	7,747.9	12,921.6	7,838.3	113.6	111.7	105.32	-5,597.6	1,514.3	342.2	128.9	213.31	1.604	
13,000.0	7,747.7	13,021.6	7,838.1	115.4	113.5	105.31	-5,697.6	1,514.6	342.2	125.2	216.96	1.577	
13,100.0	7,747.5	13,121.6	7,837.9	117.2	115.4	105.31	-5,797.6	1,514.9	342.2	121.6	220.61	1.551	
13,200.0	7,747.3	13,221.6	7,837.7	119.0	117.2	105.31	-5,897.6	1,515.3	342.2	117.9	224.26	1.526	
13,300.0	7,747.1	13,321.6	7,837.5	120.8	119.1	105.31	-5,997.6	1,515.6	342.2	114.3	227.91	1.501	
13,400.0	7,746.9	13,421.6	7,837.3	122.6	120.9	105.31	-6,097.6	1,515.9	342.2	110.6	231.57	1.478	Level 3
13,500.0	7,746.7	13,521.6	7,837.0	124.4	122.7	105.30	-6,197.6	1,516.3	342.2	106.9	235.23	1.455	Level 3
13,600.0	7,746.5	13,621.6	7,836.8	126.3	124.6	105.30	-6,297.6	1,516.6	342.2	103.3	238.89	1.432	Level 3
13,700.0	7,746.3	13,721.6	7,836.6	128.1	126.4	105.30	-6,397.6	1,516.9	342.2	99.6	242.55	1.411	Level 3
13,800.0	7,746.1	13,821.6	7,836.4	129.9	128.3	105.30	-6,497.6	1,517.3	342.2	95.9	246.21	1.390	Level 3
13,900.0	7,745.9	13,921.6	7,836.2	131.7	130.1	105.29	-6,597.6	1,517.6	342.1	92.3	249.88	1.369	Level 3
14,000.0	7,745.7	14,021.6	7,836.0	133.6	132.0	105.29	-6,697.6	1,517.9	342.1	88.6	253.54	1.349	Level 3
14,100.0	7,745.5	14,121.6	7,835.7	135.4	133.8	105.29	-6,797.6	1,518.3	342.1	84.9	257.21	1.330	Level 3
14,200.0	7,745.3	14,221.6	7,835.5	137.2	135.7	105.29	-6,897.6	1,518.6	342.1	81.2	260.88	1.311	Level 3
14,300.0	7,745.1	14,321.6	7,835.3	139.1	137.5	105.29	-6,997.6	1,518.9	342.1	77.6	264.55	1.293	Level 3
14,400.0	7,744.9	14,421.6	7,835.1	140.9	139.4	105.28	-7,097.6	1,519.3	342.1	73.9	268.23	1.275	Level 3
14,500.0	7,744.7	14,521.6	7,834.9	142.8	141.3	105.28	-7,197.6	1,519.6	342.1	70.2	271.90	1.258	Level 3
14,600.0	7,744.5	14,621.6	7,834.7	144.6	143.1	105.28	-7,297.6	1,519.9	342.1	66.5	275.57	1.241	Level 2
14,700.0	7,744.3	14,721.6	7,834.5	146.4	145.0	105.28	-7,397.6	1,520.3	342.1	62.8	279.25	1.225	Level 2
14,800.0	7,744.1	14,821.6	7,834.2	148.3	146.8	105.28	-7,497.6	1,520.6	342.1	59.2	282.93	1.209	Level 2
14,900.0	7,743.9	14,921.6	7,834.0	150.1	148.7	105.27	-7,597.6	1,520.9	342.1	55.5	286.61	1.194	Level 2
15,000.0	7,743.7	15,021.6	7,833.8	152.0	150.6	105.27	-7,697.6	1,521.3	342.1	51.8	290.29	1.178	Level 2
15,100.0	7,743.5	15,121.6	7,833.6	153.8	152.4	105.27	-7,797.6	1,521.6	342.1	48.1	293.97	1.164	Level 2
15,200.0	7,743.3	15,221.6	7,833.4	155.7	154.3	105.27	-7,897.6	1,521.9	342.1	44.4	297.65	1.149	Level 2
15,300.0	7,743.1	15,321.6	7,833.2	157.6	156.2	105.27	-7,997.6	1,522.3	342.1	40.7	301.33	1.135	Level 2
15,400.0	7,742.9	15,421.6	7,833.0	159.4	158.1	105.26	-8,097.6	1,522.6	342.1	37.0	305.02	1.121	Level 2
15,500.0	7,742.7	15,521.6	7,832.7	161.3	159.9	105.26	-8,197.6	1,522.9	342.1	33.4	308.70	1.108	Level 2

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Ivey Pad Sec.11-T1S-R68W - Ivey O-14-23HN - Wellbore #1 - Plan #2 (11-5-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,600.0	7,742.5	15,621.6	7,832.5	163.1	161.8	105.26	-8,297.6	1,523.3	342.0	29.7	312.39	1.095	Level 2
15,700.0	7,742.3	15,721.6	7,832.3	165.0	163.7	105.26	-8,397.6	1,523.6	342.0	26.0	316.07	1.082	Level 2
15,800.0	7,742.1	15,821.6	7,832.1	166.8	165.6	105.26	-8,497.6	1,523.9	342.0	22.3	319.76	1.070	Level 2
15,836.1	7,742.0	15,857.6	7,832.0	167.5	166.2	105.25	-8,533.6	1,524.0	342.0	21.1	320.96	1.066	Level 2
15,848.7	7,742.0	15,866.0	7,832.0	167.7	166.4	105.25	-8,542.1	1,524.1	342.1	20.8	321.30	1.065	Level 2, SF

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	34.02	403.6	272.4	487.0				
100.0	100.0	97.0	97.0	0.1	0.1	34.02	403.6	272.4	487.0	486.7	0.22	2,199.447	
200.0	200.0	197.0	197.0	0.3	0.3	34.02	403.6	272.4	487.0	486.3	0.67	729.466	
300.0	300.0	315.3	315.3	0.5	0.6	-69.34	402.3	270.5	484.5	483.4	1.13	428.418	
400.0	399.8	433.4	433.1	0.8	0.8	-70.48	398.0	264.8	477.0	475.4	1.62	294.796	
500.0	499.5	549.7	548.8	1.0	1.1	-72.42	391.0	255.2	464.7	462.6	2.15	216.400	
600.0	598.7	663.5	661.5	1.3	1.5	-75.26	381.5	242.3	448.3	445.5	2.73	164.339	
700.0	697.5	774.0	770.2	1.6	1.9	-79.09	369.7	226.2	428.4	425.0	3.38	126.828	
800.0	795.6	878.5	872.2	2.0	2.4	-83.89	356.3	208.0	406.3	402.2	4.12	98.708	
900.0	893.1	970.0	961.2	2.5	2.8	-89.10	343.9	191.1	385.4	380.5	4.91	78.418	
1,000.0	989.9	1,060.5	1,049.3	3.0	3.2	-94.74	331.6	174.4	367.9	362.1	5.80	63.430	
1,100.0	1,086.6	1,150.9	1,137.3	3.5	3.7	-100.67	319.3	157.7	354.8	348.0	6.73	52.731	
1,200.0	1,183.4	1,241.3	1,225.3	4.0	4.1	-106.91	307.0	141.0	346.4	338.7	7.67	45.184	
1,300.0	1,280.2	1,331.7	1,313.3	4.5	4.6	-113.32	294.7	124.3	343.2	334.6	8.58	39.986	
1,310.7	1,290.5	1,341.4	1,322.8	4.6	4.6	-114.01	293.4	122.5	343.1	334.5	8.68	39.540	
1,400.0	1,376.9	1,422.1	1,401.3	5.1	5.0	-119.75	282.4	107.6	345.3	335.8	9.45	36.530	
1,500.0	1,473.7	1,512.5	1,489.3	5.6	5.4	-126.04	270.2	90.9	352.5	342.3	10.25	34.390	
1,600.0	1,570.4	1,603.0	1,577.4	6.1	5.9	-132.05	257.9	74.2	364.7	353.7	10.97	33.235	
1,700.0	1,667.2	1,693.4	1,665.4	6.7	6.3	-137.68	245.6	57.5	381.3	369.7	11.62	32.811	
1,800.0	1,764.0	1,783.8	1,753.4	7.2	6.8	-142.86	233.3	40.8	401.8	389.6	12.20	32.921	
1,900.0	1,860.7	1,874.2	1,841.4	7.8	7.2	-147.57	221.0	24.1	425.6	412.8	12.74	33.409	
2,000.0	1,957.5	1,964.6	1,929.4	8.3	7.7	-151.82	208.8	7.4	452.2	438.9	13.24	34.156	
2,100.0	2,054.3	2,055.0	2,017.4	8.8	8.1	-155.63	196.5	-9.3	481.1	467.4	13.72	35.070	
2,200.0	2,151.0	2,145.5	2,105.4	9.4	8.6	-159.04	184.2	-26.0	511.9	497.7	14.19	36.082	
2,300.0	2,247.8	2,235.9	2,193.4	9.9	9.0	-162.09	171.9	-42.7	544.4	529.7	14.66	37.142	
2,400.0	2,344.6	2,326.3	2,281.4	10.5	9.5	-164.82	159.6	-59.4	578.2	563.1	15.13	38.215	
2,500.0	2,441.3	2,416.7	2,369.4	11.0	9.9	-167.26	147.4	-76.1	613.1	597.5	15.61	39.275	
2,600.0	2,538.1	2,507.1	2,457.4	11.6	10.4	-169.45	135.1	-92.8	648.9	632.8	16.10	40.307	
2,700.0	2,634.9	2,597.5	2,545.4	12.1	10.9	-171.42	122.8	-109.5	685.6	669.0	16.60	41.300	
2,800.0	2,731.6	2,688.0	2,633.4	12.6	11.3	-173.20	110.5	-126.2	722.9	705.8	17.11	42.249	
2,900.0	2,828.4	2,778.4	2,721.4	13.2	11.8	-174.81	98.2	-142.9	760.7	743.1	17.63	43.152	
3,000.0	2,925.1	2,868.8	2,809.5	13.7	12.2	-176.28	86.0	-159.6	799.1	780.9	18.16	44.007	
3,100.0	3,021.9	2,959.2	2,897.5	14.3	12.7	-177.61	73.7	-176.3	837.9	819.2	18.70	44.816	
3,200.0	3,118.7	3,049.6	2,985.5	14.8	13.1	-178.83	61.4	-193.0	877.0	857.8	19.24	45.580	
3,300.0	3,215.4	3,140.0	3,073.5	15.4	13.6	-179.95	49.1	-209.7	916.5	896.7	19.79	46.301	
3,400.0	3,312.2	3,230.4	3,161.5	15.9	14.0	179.02	36.8	-226.4	956.2	935.9	20.35	46.982	
3,500.0	3,409.0	3,320.9	3,249.5	16.5	14.5	178.07	24.6	-243.1	996.2	975.3	20.92	47.625	
7,000.0	6,795.7	10,065.3	7,748.0	35.5	62.7	160.36	-446.5	1,585.6	958.7	912.7	46.02	20.833	
7,100.0	6,892.5	10,089.6	7,747.9	36.1	63.4	159.65	-446.6	1,609.8	861.8	814.9	46.86	18.389	
7,200.0	6,989.2	10,113.8	7,747.8	36.6	64.0	158.75	-446.6	1,634.1	764.8	716.9	47.87	15.976	
7,300.0	7,086.0	10,138.1	7,747.7	37.2	64.6	157.60	-446.7	1,658.4	667.9	618.7	49.13	13.593	
7,400.0	7,182.3	10,162.3	7,747.7	37.7	65.2	162.52	-446.8	1,682.6	570.9	523.8	47.15	12.109	
7,500.0	7,276.3	10,186.0	7,747.6	38.3	65.8	173.83	-446.9	1,706.3	475.2	404.4	70.81	6.711	
7,600.0	7,366.2	10,208.8	7,747.5	38.9	66.4	-178.74	-447.0	1,729.1	384.4	301.7	82.72	4.647	
7,700.0	7,450.1	10,230.1	7,747.4	39.5	67.0	-174.64	-447.0	1,750.4	305.5	221.0	84.49	3.616	
7,800.0	7,526.5	10,249.7	7,747.4	40.1	67.5	-172.14	-447.1	1,770.0	252.8	171.7	81.16	3.115 SF	
7,864.0	7,570.8	10,261.1	7,747.3	40.6	67.8	-170.97	-447.1	1,781.4	242.0	164.6	77.43	3.126 CC, ES	
7,900.0	7,593.9	10,267.1	7,747.3	40.8	67.9	-170.39	-447.1	1,787.4	245.5	170.5	74.96	3.275	
8,000.0	7,651.0	10,282.0	7,747.2	41.6	68.3	-168.95	-447.2	1,802.2	287.6	220.5	67.04	4.290	
8,100.0	7,696.6	10,294.0	7,747.2	42.3	68.6	-167.57	-447.2	1,814.3	362.0	303.7	58.22	6.217	
8,200.0	7,729.8	10,303.0	7,747.2	43.1	68.9	-165.92	-447.3	1,823.3	452.2	402.8	49.43	9.149	
8,300.0	7,750.1	10,308.8	7,747.2	43.9	69.0	-162.85	-447.3	1,829.1	549.4	507.3	42.15	13.034	

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

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,400.0	7,757.0	10,311.2	7,747.1	44.8	69.1	-39.36	-447.3	1,831.5	649.1	605.2	43.92	14.780	
8,500.0	7,756.8	10,311.9	7,747.1	45.6	69.1	-31.02	-447.3	1,832.2	749.1	706.6	42.49	17.630	
8,600.0	7,756.6	10,312.5	7,747.1	46.6	69.1	-34.29	-447.3	1,832.8	849.1	804.7	44.37	19.137	
8,700.0	7,756.4	10,313.2	7,747.1	47.6	69.1	-37.33	-447.3	1,833.5	949.1	902.8	46.31	20.494	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design North Washington Pad SEC.23-T1S-R68W - North Washington 1-23 (Exist.) - Wellbore #1 North Washi

Offset Site Error: 0.0 ft

Survey Program: 415- **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,300.0	7,747.1	8,236.3	7,908.5	120.8	40.1	102.67	-6,803.1	1,312.3	974.4	821.8	152.61	6.385	
13,400.0	7,746.9	8,225.1	7,897.4	122.6	40.0	101.52	-6,804.3	1,311.7	893.5	738.7	154.86	5.770	
13,500.0	7,746.7	8,213.9	7,886.3	124.4	40.0	100.36	-6,805.5	1,311.0	816.7	659.7	157.09	5.199	
13,600.0	7,746.5	8,202.5	7,875.0	126.3	40.0	99.18	-6,806.8	1,310.4	745.3	586.0	159.27	4.679	
13,700.0	7,746.3	8,191.3	7,863.9	128.1	39.9	98.02	-6,808.1	1,309.9	680.9	519.5	161.41	4.219	
13,800.0	7,746.1	8,180.0	7,852.6	129.9	39.9	96.83	-6,809.4	1,309.3	625.7	462.2	163.50	3.827	
13,900.0	7,745.9	8,168.3	7,841.0	131.7	39.9	95.61	-6,810.7	1,308.7	582.4	416.9	165.54	3.518	
14,000.0	7,745.7	8,156.3	7,829.2	133.6	39.8	94.36	-6,812.1	1,308.1	553.7	386.1	167.53	3.305	
14,100.0	7,745.5	8,144.1	7,817.0	135.4	39.8	93.07	-6,813.6	1,307.5	541.9	372.4	169.45	3.198	
14,115.6	7,745.5	8,142.2	7,815.1	135.7	39.8	92.87	-6,813.8	1,307.4	541.6	371.9	169.74	3.191	CC, ES, SF
14,200.0	7,745.3	8,131.5	7,804.6	137.2	39.8	91.75	-6,815.1	1,306.9	548.1	376.8	171.30	3.199	
14,300.0	7,745.1	8,118.6	7,791.8	139.1	39.7	90.40	-6,816.6	1,306.2	571.7	398.6	173.07	3.303	
14,400.0	7,744.9	8,105.5	7,778.7	140.9	39.7	89.03	-6,818.2	1,305.6	610.7	436.0	174.76	3.495	
14,500.0	7,744.7	8,092.6	7,766.0	142.8	39.7	87.68	-6,819.8	1,305.0	662.4	486.0	176.36	3.756	
14,600.0	7,744.5	8,079.5	7,753.0	144.6	39.6	86.32	-6,821.5	1,304.4	724.0	546.2	177.87	4.071	
14,700.0	7,744.3	8,066.2	7,739.8	146.4	39.6	84.95	-6,823.1	1,303.7	793.3	614.1	179.29	4.425	
14,800.0	7,744.1	8,052.7	7,726.4	148.3	39.5	83.56	-6,824.9	1,303.1	868.4	687.8	180.60	4.809	
14,900.0	7,743.9	8,039.0	7,712.8	150.1	39.5	82.16	-6,826.6	1,302.4	948.0	766.2	181.81	5.214	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-14-23HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (11-5-14)	**Offset TVD Reference:**	Offset Datum

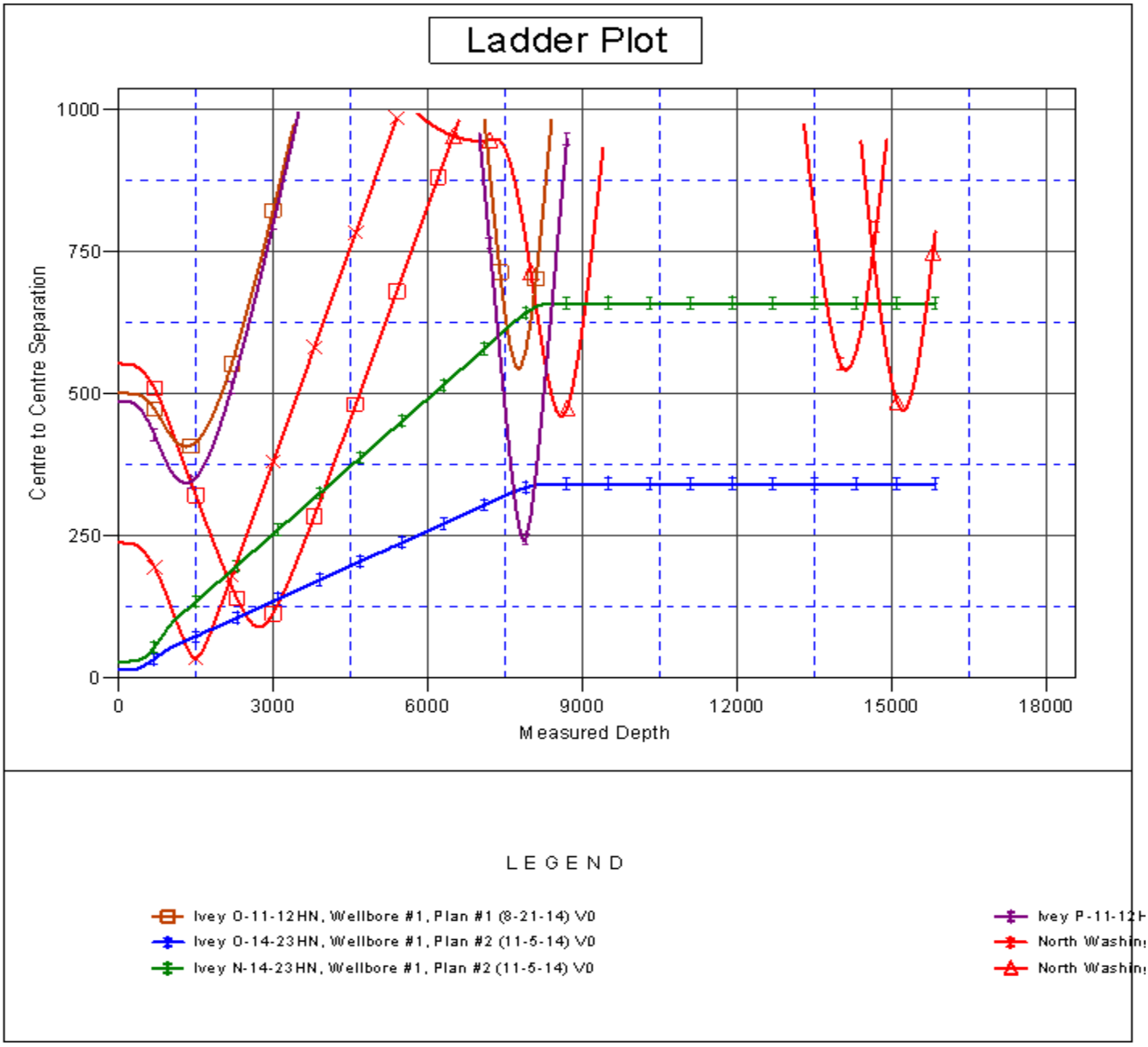
Offset Design North Washington Pad SEC.23-T1S-R68W - North Washington 8-23 (Exist.) - Wellbore #1 N Washingto — **Offset Site Error:** 0.0 ft

Survey Program: 1421- — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,400.0	7,744.9	7,964.2	7,790.1	140.9	25.7	90.53	-7,917.0	1,381.5	944.7	785.8	158.85	5.947	
14,500.0	7,744.7	7,963.9	7,789.7	142.8	25.7	90.48	-7,917.0	1,381.5	859.4	698.7	160.74	5.347	
14,600.0	7,744.5	7,963.5	7,789.4	144.6	25.7	90.44	-7,917.0	1,381.5	777.7	615.0	162.62	4.782	
14,700.0	7,744.3	7,963.1	7,789.0	146.4	25.7	90.39	-7,917.0	1,381.5	700.7	536.1	164.51	4.259	
14,800.0	7,744.1	7,962.7	7,788.6	148.3	25.7	90.35	-7,917.0	1,381.5	630.1	463.7	166.40	3.787	
14,900.0	7,743.9	7,962.4	7,788.3	150.1	25.7	90.30	-7,917.0	1,381.5	568.5	400.3	168.29	3.378	
15,000.0	7,743.7	7,962.0	7,787.9	152.0	25.7	90.26	-7,917.0	1,381.5	519.0	348.9	170.18	3.050	
15,100.0	7,743.5	7,961.7	7,787.5	153.8	25.7	90.22	-7,917.0	1,381.5	485.4	313.3	172.07	2.821	
15,200.0	7,743.3	7,961.3	7,787.2	155.7	25.7	90.17	-7,917.0	1,381.5	470.9	296.9	173.96	2.707	
15,219.2	7,743.3	7,961.2	7,787.1	156.1	25.7	90.17	-7,917.0	1,381.5	470.5	296.2	174.33	2.699	CC, ES, SF
15,300.0	7,743.1	7,961.0	7,786.8	157.6	25.7	90.13	-7,917.0	1,381.5	477.4	301.5	175.85	2.715	
15,400.0	7,742.9	7,960.6	7,786.5	159.4	25.7	90.09	-7,917.0	1,381.5	504.0	326.3	177.75	2.836	
15,500.0	7,742.7	7,960.3	7,786.1	161.3	25.7	90.05	-7,917.0	1,381.5	547.9	368.3	179.64	3.050	
15,600.0	7,742.5	7,959.9	7,785.8	163.1	25.7	90.00	-7,917.0	1,381.5	605.3	423.8	181.53	3.334	
15,700.0	7,742.3	7,959.6	7,785.5	165.0	25.7	89.96	-7,917.0	1,381.5	672.7	489.3	183.42	3.668	
15,800.0	7,742.1	7,959.2	7,785.1	166.8	25.7	89.92	-7,917.0	1,381.5	747.5	562.2	185.32	4.033	
15,848.7	7,742.0	7,959.1	7,785.0	167.7	25.7	89.90	-7,917.0	1,381.5	785.9	599.8	186.06	4.224	

Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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 P-14-23HN
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.34°



Company:	Bayswater Exploration & Production, LLC	**Local Co-ordinate Reference:**	Well Ivey P-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 P-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 P-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°