

Bayswater Exploration & Production, LLC

Well Name: **Thornton A-29-30HN**

Surface Location: Thornton 28-H Pad Sec.28-T7N-R66W

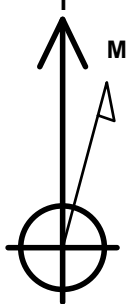
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone

Ground Elevation: 4909.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1443581.09	3196884.17	40.548871	-104.791518	
RKB - 23' WELL @ 4932.0ft (RKB - 23')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape Point
SHL 1554'FNL, 355'FWL, SEC.28	1.0	0.0	0.0	Point
BHL 160'FNL, 470'FWL, SEC.30	7297.0	1178.8	-10768.4	Point
LPL 160'FNL, 470'FEL, SEC.29	7347.0	1385.5	-775.9	Point



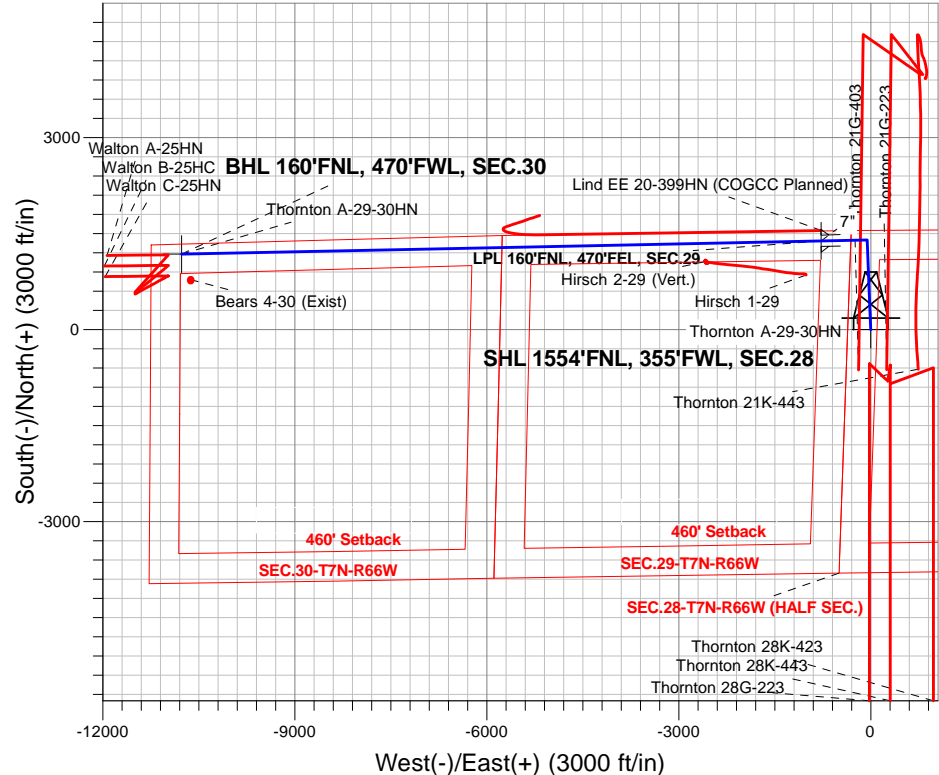
Azimuths to True North
Magnetic North: 8.27°

Magnetic Field
Strength: 52718.9nT
Dip Angle: 67.00°
Date: 1/27/2016
Model: IGRF2010

Thornton 28-H Pad Sec.28-T7N-R66W
Thornton A-29-30HN
Plan #1 (1-28-16)
6:53, February 22 2016

ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	KOP - Start Build 1.50
5787.1	5947.8	Start Drop -2.00
6630.8	6799.1	Start Build 8.00
7347.0	7927.7	Start DLS 1.00 TFO 120.56
7347.0	7928.4	Start 9994.1 hold at 7928.4 MD
7297.0	17922.5	TD at 17922.5



ENSIGN
Directional

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1160.7	14.41	357.70	1150.6	120.1	-4.8	1.50	357.70	17.9	
4	5947.8	14.41	357.70	5787.1	1310.4	-52.6	0.00	0.00	194.9	
5	6668.3	0.00	0.00	6500.0	1400.5	-56.2	2.00	180.00	208.3	
6	6799.1	0.00	0.00	6630.8	1400.5	-56.2	0.00	0.00	208.3	
7	7927.7	90.29	268.81	7347.0	1385.5	-775.9	8.00	268.81	922.0	
8	7927.7	90.29	268.81	7347.0	1385.5	-775.9	0.00	0.00	922.0	LPL 160'FNL, 470'FEL, SEC.29
9	7928.4	90.29	268.81	7347.0	1385.5	-776.5	1.00	120.56	922.7	
10	17922.5	90.29	268.81	7297.0	1178.8-10768.4		0.00	0.0010832.7		BHL 160'FNL, 470'FWL, SEC.30

BHL 160'FNL, 470'FWL, SEC.30

TD at 17922.5

Vertical Section at 276.25° (1200 ft/in)

ENSIGN

Directional

Bayswater Exploration & Production, LLC

SEC.28-T7N-R66W

Thornton 28-H Pad Sec.28-T7N-R66W

Thornton A-29-30HN

Wellbore #1

Plan: Plan #1 (1-28-16)

Standard Planning Report

22 February, 2016



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Database:	US_EDM	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Project:	SEC.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site:	Thornton 28-H Pad Sec.28-T7N-R66W	North Reference:	True
Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-28-16)		

Project	SEC.28-T7N-R66W, 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	Thornton 28-H Pad Sec.28-T7N-R66W				
Site Position:		Northing:	1,443,581.10 usft	Latitude:	40.548871
From:	Lat/Long	Easting:	3,196,884.17 usft	Longitude:	-104.791518
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	Thornton A-29-30HN					
Well Position	+N/-S	0.0 ft	Northing:	1,443,581.10 usft	Latitude:	40.548871
	+E/-W	0.0 ft	Easting:	3,196,884.17 usft	Longitude:	-104.791518
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,909.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/27/2016	8.27	67.00	52,719

Design	Plan #1 (1-28-16)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	276.25

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	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	
1,160.7	14.41	357.70	1,150.6	120.1	-4.8	1.50	1.50	0.00	357.70	
5,947.8	14.41	357.70	5,787.1	1,310.4	-52.6	0.00	0.00	0.00	0.00	
6,668.3	0.00	0.00	6,500.0	1,400.5	-56.2	2.00	-2.00	0.00	180.00	
6,799.1	0.00	0.00	6,630.8	1,400.5	-56.2	0.00	0.00	0.00	0.00	
7,927.7	90.29	268.81	7,347.0	1,385.5	-775.9	8.00	8.00	0.00	268.81	
7,927.7	90.29	268.81	7,347.0	1,385.5	-775.9	0.00	0.00	0.00	0.00	LPL 160'FNL, 470'FEI
7,928.4	90.29	268.81	7,347.0	1,385.5	-776.5	1.00	-0.51	0.86	120.56	
17,922.5	90.29	268.81	7,297.0	1,178.8	-10,768.4	0.00	0.00	0.00	0.00	BHL 160'FNL, 470'FW

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Project:	SEC.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site:	Thornton 28-H Pad Sec.28-T7N-R66W	North Reference:	True
Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-28-16)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 1554'FNL, 355'FWL, SEC.28									
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 1.50									
300.0	1.50	357.70	300.0	1.3	-0.1	0.2	1.50	1.50	0.00
400.0	3.00	357.70	399.9	5.2	-0.2	0.8	1.50	1.50	0.00
500.0	4.50	357.70	499.7	11.8	-0.5	1.7	1.50	1.50	0.00
600.0	6.00	357.70	599.3	20.9	-0.8	3.1	1.50	1.50	0.00
700.0	7.50	357.70	698.6	32.7	-1.3	4.9	1.50	1.50	0.00
800.0	9.00	357.70	797.5	47.0	-1.9	7.0	1.50	1.50	0.00
900.0	10.50	357.70	896.1	63.9	-2.6	9.5	1.50	1.50	0.00
1,000.0	12.00	357.70	994.2	83.4	-3.3	12.4	1.50	1.50	0.00
1,100.0	13.50	357.70	1,091.7	105.5	-4.2	15.7	1.50	1.50	0.00
1,160.7	14.41	357.70	1,150.6	120.1	-4.8	17.9	1.50	1.50	0.00
1,200.0	14.41	357.70	1,188.7	129.9	-5.2	19.3	0.00	0.00	0.00
1,300.0	14.41	357.70	1,285.5	154.7	-6.2	23.0	0.00	0.00	0.00
1,400.0	14.41	357.70	1,382.4	179.6	-7.2	26.7	0.00	0.00	0.00
1,500.0	14.41	357.70	1,479.2	204.5	-8.2	30.4	0.00	0.00	0.00
1,600.0	14.41	357.70	1,576.1	229.3	-9.2	34.1	0.00	0.00	0.00
1,700.0	14.41	357.70	1,672.9	254.2	-10.2	37.8	0.00	0.00	0.00
1,800.0	14.41	357.70	1,769.8	279.1	-11.2	41.5	0.00	0.00	0.00
1,900.0	14.41	357.70	1,866.6	303.9	-12.2	45.2	0.00	0.00	0.00
2,000.0	14.41	357.70	1,963.5	328.8	-13.2	48.9	0.00	0.00	0.00
2,100.0	14.41	357.70	2,060.4	353.6	-14.2	52.6	0.00	0.00	0.00
2,200.0	14.41	357.70	2,157.2	378.5	-15.2	56.3	0.00	0.00	0.00
2,300.0	14.41	357.70	2,254.1	403.4	-16.2	60.0	0.00	0.00	0.00
2,400.0	14.41	357.70	2,350.9	428.2	-17.2	63.7	0.00	0.00	0.00
2,500.0	14.41	357.70	2,447.8	453.1	-18.2	67.4	0.00	0.00	0.00
2,600.0	14.41	357.70	2,544.6	478.0	-19.2	71.1	0.00	0.00	0.00
2,700.0	14.41	357.70	2,641.5	502.8	-20.2	74.8	0.00	0.00	0.00
2,800.0	14.41	357.70	2,738.3	527.7	-21.2	78.5	0.00	0.00	0.00
2,900.0	14.41	357.70	2,835.2	552.6	-22.2	82.2	0.00	0.00	0.00
3,000.0	14.41	357.70	2,932.0	577.4	-23.2	85.9	0.00	0.00	0.00
3,100.0	14.41	357.70	3,028.9	602.3	-24.2	89.6	0.00	0.00	0.00
3,200.0	14.41	357.70	3,125.7	627.2	-25.2	93.3	0.00	0.00	0.00
3,300.0	14.41	357.70	3,222.6	652.0	-26.2	97.0	0.00	0.00	0.00
3,400.0	14.41	357.70	3,319.5	676.9	-27.2	100.7	0.00	0.00	0.00
3,500.0	14.41	357.70	3,416.3	701.8	-28.2	104.4	0.00	0.00	0.00
3,600.0	14.41	357.70	3,513.2	726.6	-29.2	108.1	0.00	0.00	0.00
3,700.0	14.41	357.70	3,610.0	751.5	-30.2	111.8	0.00	0.00	0.00
3,800.0	14.41	357.70	3,706.9	776.4	-31.2	115.5	0.00	0.00	0.00
3,900.0	14.41	357.70	3,803.7	801.2	-32.2	119.1	0.00	0.00	0.00
4,000.0	14.41	357.70	3,900.6	826.1	-33.2	122.8	0.00	0.00	0.00
4,100.0	14.41	357.70	3,997.4	851.0	-34.1	126.5	0.00	0.00	0.00
4,200.0	14.41	357.70	4,094.3	875.8	-35.1	130.2	0.00	0.00	0.00
4,300.0	14.41	357.70	4,191.1	900.7	-36.1	133.9	0.00	0.00	0.00
4,400.0	14.41	357.70	4,288.0	925.6	-37.1	137.6	0.00	0.00	0.00
4,500.0	14.41	357.70	4,384.8	950.4	-38.1	141.3	0.00	0.00	0.00
4,600.0	14.41	357.70	4,481.7	975.3	-39.1	145.0	0.00	0.00	0.00
4,700.0	14.41	357.70	4,578.6	1,000.2	-40.1	148.7	0.00	0.00	0.00
4,800.0	14.41	357.70	4,675.4	1,025.0	-41.1	152.4	0.00	0.00	0.00
4,900.0	14.41	357.70	4,772.3	1,049.9	-42.1	156.1	0.00	0.00	0.00

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Project:	SEC.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site:	Thornton 28-H Pad Sec.28-T7N-R66W	North Reference:	True
Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-28-16)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	14.41	357.70	4,869.1	1,074.8	-43.1	159.8	0.00	0.00	0.00
5,100.0	14.41	357.70	4,966.0	1,099.6	-44.1	163.5	0.00	0.00	0.00
5,200.0	14.41	357.70	5,062.8	1,124.5	-45.1	167.2	0.00	0.00	0.00
5,300.0	14.41	357.70	5,159.7	1,149.4	-46.1	170.9	0.00	0.00	0.00
5,400.0	14.41	357.70	5,256.5	1,174.2	-47.1	174.6	0.00	0.00	0.00
5,500.0	14.41	357.70	5,353.4	1,199.1	-48.1	178.3	0.00	0.00	0.00
5,600.0	14.41	357.70	5,450.2	1,224.0	-49.1	182.0	0.00	0.00	0.00
5,700.0	14.41	357.70	5,547.1	1,248.8	-50.1	185.7	0.00	0.00	0.00
5,800.0	14.41	357.70	5,643.9	1,273.7	-51.1	189.4	0.00	0.00	0.00
5,900.0	14.41	357.70	5,740.8	1,298.6	-52.1	193.1	0.00	0.00	0.00
5,947.8	14.41	357.70	5,787.1	1,310.5	-52.6	194.9	0.00	0.00	0.00
Start Drop -2.00									
6,000.0	13.37	357.70	5,837.8	1,323.0	-53.1	196.7	2.00	-2.00	0.00
6,100.0	11.37	357.70	5,935.4	1,344.4	-53.9	199.9	2.00	-2.00	0.00
6,200.0	9.37	357.70	6,033.8	1,362.3	-54.7	202.6	2.00	-2.00	0.00
6,300.0	7.37	357.70	6,132.7	1,376.9	-55.3	204.7	2.00	-2.00	0.00
6,400.0	5.37	357.70	6,232.1	1,388.0	-55.7	206.4	2.00	-2.00	0.00
6,500.0	3.37	357.70	6,331.8	1,395.6	-56.0	207.5	2.00	-2.00	0.00
6,600.0	1.37	357.70	6,431.7	1,399.7	-56.2	208.1	2.00	-2.00	0.00
6,668.3	0.00	0.00	6,500.0	1,400.5	-56.2	208.3	2.00	-2.00	0.00
6,700.0	0.00	0.00	6,531.7	1,400.5	-56.2	208.3	0.00	0.00	0.00
6,799.1	0.00	0.00	6,630.8	1,400.5	-56.2	208.3	0.00	0.00	0.00
Start Build 8.00									
6,800.0	0.07	268.81	6,631.7	1,400.5	-56.2	208.3	8.13	8.13	0.00
6,900.0	8.07	268.81	6,731.4	1,400.4	-63.3	215.3	8.00	8.00	0.00
7,000.0	16.07	268.81	6,829.1	1,399.9	-84.2	236.0	8.00	8.00	0.00
7,100.0	24.07	268.81	6,922.9	1,399.2	-118.5	270.0	8.00	8.00	0.00
7,200.0	32.07	268.81	7,011.1	1,398.2	-165.5	316.7	8.00	8.00	0.00
7,300.0	40.07	268.81	7,091.9	1,397.0	-224.3	375.0	8.00	8.00	0.00
7,400.0	48.07	268.81	7,163.7	1,395.6	-293.8	443.9	8.00	8.00	0.00
7,500.0	56.07	268.81	7,225.1	1,393.9	-372.6	522.1	8.00	8.00	0.00
7,600.0	64.07	268.81	7,274.9	1,392.1	-459.2	607.9	8.00	8.00	0.00
7,700.0	72.07	268.81	7,312.2	1,390.2	-551.8	699.8	8.00	8.00	0.00
7,800.0	80.07	268.81	7,336.3	1,388.2	-648.8	796.0	8.00	8.00	0.00
7,900.0	88.07	268.81	7,346.6	1,386.1	-748.2	894.6	8.00	8.00	0.00
7,927.7	90.29	268.81	7,347.0	1,385.5	-775.9	922.0	7.99	7.99	0.00
Start DLS 1.00 TFO 120.56 - LPL 160'FNL, 470'FEL, SEC.29									
7,928.4	90.29	268.81	7,347.0	1,385.5	-776.6	922.7	0.91	-0.34	0.84
Start 9994.1 hold at 7928.4 MD - 7"									
8,000.0	90.29	268.81	7,346.6	1,384.0	-848.1	993.7	0.00	0.00	0.00
8,100.0	90.29	268.81	7,346.1	1,382.0	-948.1	1,092.9	0.00	0.00	0.00
8,200.0	90.29	268.81	7,345.6	1,379.9	-1,048.1	1,192.0	0.00	0.00	0.00
8,300.0	90.29	268.81	7,345.1	1,377.8	-1,148.1	1,291.2	0.00	0.00	0.00
8,400.0	90.29	268.81	7,344.6	1,375.8	-1,248.0	1,390.3	0.00	0.00	0.00
8,500.0	90.29	268.81	7,344.1	1,373.7	-1,348.0	1,489.5	0.00	0.00	0.00
8,600.0	90.29	268.81	7,343.6	1,371.6	-1,448.0	1,588.7	0.00	0.00	0.00
8,700.0	90.29	268.81	7,343.1	1,369.6	-1,548.0	1,687.8	0.00	0.00	0.00
8,800.0	90.29	268.81	7,342.6	1,367.5	-1,648.0	1,787.0	0.00	0.00	0.00
8,900.0	90.29	268.81	7,342.1	1,365.4	-1,747.9	1,886.1	0.00	0.00	0.00
9,000.0	90.29	268.81	7,341.6	1,363.4	-1,847.9	1,985.3	0.00	0.00	0.00
9,100.0	90.29	268.81	7,341.1	1,361.3	-1,947.9	2,084.5	0.00	0.00	0.00
9,200.0	90.29	268.81	7,340.6	1,359.2	-2,047.9	2,183.6	0.00	0.00	0.00
9,300.0	90.29	268.81	7,340.1	1,357.1	-2,147.8	2,282.8	0.00	0.00	0.00

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Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Project:	SEC.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site:	Thornton 28-H Pad Sec.28-T7N-R66W	North Reference:	True
Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-28-16)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,400.0	90.29	268.81	7,339.6	1,355.1	-2,247.8	2,381.9	0.00	0.00	0.00	
9,500.0	90.29	268.81	7,339.1	1,353.0	-2,347.8	2,481.1	0.00	0.00	0.00	
9,600.0	90.29	268.81	7,338.6	1,350.9	-2,447.8	2,580.2	0.00	0.00	0.00	
9,700.0	90.29	268.81	7,338.1	1,348.9	-2,547.8	2,679.4	0.00	0.00	0.00	
9,800.0	90.29	268.81	7,337.6	1,346.8	-2,647.7	2,778.6	0.00	0.00	0.00	
9,900.0	90.29	268.81	7,337.1	1,344.7	-2,747.7	2,877.7	0.00	0.00	0.00	
10,000.0	90.29	268.81	7,336.6	1,342.7	-2,847.7	2,976.9	0.00	0.00	0.00	
10,100.0	90.29	268.81	7,336.1	1,340.6	-2,947.7	3,076.0	0.00	0.00	0.00	
10,200.0	90.29	268.81	7,335.6	1,338.5	-3,047.6	3,175.2	0.00	0.00	0.00	
10,300.0	90.29	268.81	7,335.1	1,336.5	-3,147.6	3,274.4	0.00	0.00	0.00	
10,400.0	90.29	268.81	7,334.6	1,334.4	-3,247.6	3,373.5	0.00	0.00	0.00	
10,500.0	90.29	268.81	7,334.1	1,332.3	-3,347.6	3,472.7	0.00	0.00	0.00	
10,600.0	90.29	268.81	7,333.6	1,330.2	-3,447.5	3,571.8	0.00	0.00	0.00	
10,700.0	90.29	268.81	7,333.1	1,328.2	-3,547.5	3,671.0	0.00	0.00	0.00	
10,800.0	90.29	268.81	7,332.6	1,326.1	-3,647.5	3,770.1	0.00	0.00	0.00	
10,900.0	90.29	268.81	7,332.1	1,324.0	-3,747.5	3,869.3	0.00	0.00	0.00	
11,000.0	90.29	268.81	7,331.6	1,322.0	-3,847.5	3,968.5	0.00	0.00	0.00	
11,100.0	90.29	268.81	7,331.1	1,319.9	-3,947.4	4,067.6	0.00	0.00	0.00	
11,200.0	90.29	268.81	7,330.6	1,317.8	-4,047.4	4,166.8	0.00	0.00	0.00	
11,300.0	90.29	268.81	7,330.1	1,315.8	-4,147.4	4,265.9	0.00	0.00	0.00	
11,400.0	90.29	268.81	7,329.6	1,313.7	-4,247.4	4,365.1	0.00	0.00	0.00	
11,500.0	90.29	268.81	7,329.1	1,311.6	-4,347.3	4,464.3	0.00	0.00	0.00	
11,600.0	90.29	268.81	7,328.6	1,309.6	-4,447.3	4,563.4	0.00	0.00	0.00	
11,700.0	90.29	268.81	7,328.1	1,307.5	-4,547.3	4,662.6	0.00	0.00	0.00	
11,800.0	90.29	268.81	7,327.6	1,305.4	-4,647.3	4,761.7	0.00	0.00	0.00	
11,900.0	90.29	268.81	7,327.1	1,303.4	-4,747.3	4,860.9	0.00	0.00	0.00	
12,000.0	90.29	268.81	7,326.6	1,301.3	-4,847.2	4,960.0	0.00	0.00	0.00	
12,100.0	90.29	268.81	7,326.1	1,299.2	-4,947.2	5,059.2	0.00	0.00	0.00	
12,200.0	90.29	268.81	7,325.6	1,297.1	-5,047.2	5,158.4	0.00	0.00	0.00	
12,300.0	90.29	268.81	7,325.1	1,295.1	-5,147.2	5,257.5	0.00	0.00	0.00	
12,400.0	90.29	268.81	7,324.6	1,293.0	-5,247.1	5,356.7	0.00	0.00	0.00	
12,500.0	90.29	268.81	7,324.1	1,290.9	-5,347.1	5,455.8	0.00	0.00	0.00	
12,600.0	90.29	268.81	7,323.6	1,288.9	-5,447.1	5,555.0	0.00	0.00	0.00	
12,700.0	90.29	268.81	7,323.1	1,286.8	-5,547.1	5,654.2	0.00	0.00	0.00	
12,800.0	90.29	268.81	7,322.6	1,284.7	-5,647.1	5,753.3	0.00	0.00	0.00	
12,900.0	90.29	268.81	7,322.1	1,282.7	-5,747.0	5,852.5	0.00	0.00	0.00	
13,000.0	90.29	268.81	7,321.6	1,280.6	-5,847.0	5,951.6	0.00	0.00	0.00	
13,100.0	90.29	268.81	7,321.1	1,278.5	-5,947.0	6,050.8	0.00	0.00	0.00	
13,200.0	90.29	268.81	7,320.6	1,276.5	-6,047.0	6,150.0	0.00	0.00	0.00	
13,300.0	90.29	268.81	7,320.1	1,274.4	-6,146.9	6,249.1	0.00	0.00	0.00	
13,400.0	90.29	268.81	7,319.6	1,272.3	-6,246.9	6,348.3	0.00	0.00	0.00	
13,500.0	90.29	268.81	7,319.1	1,270.3	-6,346.9	6,447.4	0.00	0.00	0.00	
13,600.0	90.29	268.81	7,318.6	1,268.2	-6,446.9	6,546.6	0.00	0.00	0.00	
13,700.0	90.29	268.81	7,318.1	1,266.1	-6,546.8	6,645.7	0.00	0.00	0.00	
13,800.0	90.29	268.81	7,317.6	1,264.0	-6,646.8	6,744.9	0.00	0.00	0.00	
13,900.0	90.29	268.81	7,317.1	1,262.0	-6,746.8	6,844.1	0.00	0.00	0.00	
14,000.0	90.29	268.81	7,316.6	1,259.9	-6,846.8	6,943.2	0.00	0.00	0.00	
14,100.0	90.29	268.81	7,316.1	1,257.8	-6,946.8	7,042.4	0.00	0.00	0.00	
14,200.0	90.29	268.81	7,315.6	1,255.8	-7,046.7	7,141.5	0.00	0.00	0.00	
14,300.0	90.29	268.81	7,315.1	1,253.7	-7,146.7	7,240.7	0.00	0.00	0.00	
14,400.0	90.29	268.81	7,314.6	1,251.6	-7,246.7	7,339.9	0.00	0.00	0.00	
14,500.0	90.29	268.81	7,314.1	1,249.6	-7,346.7	7,439.0	0.00	0.00	0.00	
14,600.0	90.29	268.81	7,313.6	1,247.5	-7,446.6	7,538.2	0.00	0.00	0.00	
14,700.0	90.29	268.81	7,313.1	1,245.4	-7,546.6	7,637.3	0.00	0.00	0.00	

Database:	US_EDM	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Project:	SEC.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site:	Thornton 28-H Pad Sec.28-T7N-R66W	North Reference:	True
Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-28-16)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,800.0	90.29	268.81	7,312.6	1,243.4	-7,646.6	7,736.5	0.00	0.00	0.00	
14,900.0	90.29	268.81	7,312.1	1,241.3	-7,746.6	7,835.6	0.00	0.00	0.00	
15,000.0	90.29	268.81	7,311.6	1,239.2	-7,846.6	7,934.8	0.00	0.00	0.00	
15,100.0	90.29	268.81	7,311.1	1,237.1	-7,946.5	8,034.0	0.00	0.00	0.00	
15,200.0	90.29	268.81	7,310.6	1,235.1	-8,046.5	8,133.1	0.00	0.00	0.00	
15,300.0	90.29	268.81	7,310.1	1,233.0	-8,146.5	8,232.3	0.00	0.00	0.00	
15,400.0	90.29	268.81	7,309.6	1,230.9	-8,246.5	8,331.4	0.00	0.00	0.00	
15,500.0	90.29	268.81	7,309.1	1,228.9	-8,346.4	8,430.6	0.00	0.00	0.00	
15,600.0	90.29	268.81	7,308.6	1,226.8	-8,446.4	8,529.8	0.00	0.00	0.00	
15,700.0	90.29	268.81	7,308.1	1,224.7	-8,546.4	8,628.9	0.00	0.00	0.00	
15,800.0	90.29	268.81	7,307.6	1,222.7	-8,646.4	8,728.1	0.00	0.00	0.00	
15,900.0	90.29	268.81	7,307.1	1,220.6	-8,746.3	8,827.2	0.00	0.00	0.00	
16,000.0	90.29	268.81	7,306.6	1,218.5	-8,846.3	8,926.4	0.00	0.00	0.00	
16,100.0	90.29	268.81	7,306.1	1,216.5	-8,946.3	9,025.5	0.00	0.00	0.00	
16,200.0	90.29	268.81	7,305.6	1,214.4	-9,046.3	9,124.7	0.00	0.00	0.00	
16,300.0	90.29	268.81	7,305.1	1,212.3	-9,146.3	9,223.9	0.00	0.00	0.00	
16,400.0	90.29	268.81	7,304.6	1,210.3	-9,246.2	9,323.0	0.00	0.00	0.00	
16,500.0	90.29	268.81	7,304.1	1,208.2	-9,346.2	9,422.2	0.00	0.00	0.00	
16,600.0	90.29	268.81	7,303.6	1,206.1	-9,446.2	9,521.3	0.00	0.00	0.00	
16,700.0	90.29	268.81	7,303.1	1,204.0	-9,546.2	9,620.5	0.00	0.00	0.00	
16,800.0	90.29	268.81	7,302.6	1,202.0	-9,646.1	9,719.7	0.00	0.00	0.00	
16,900.0	90.29	268.81	7,302.1	1,199.9	-9,746.1	9,818.8	0.00	0.00	0.00	
17,000.0	90.29	268.81	7,301.6	1,197.8	-9,846.1	9,918.0	0.00	0.00	0.00	
17,100.0	90.29	268.81	7,301.1	1,195.8	-9,946.1	10,017.1	0.00	0.00	0.00	
17,200.0	90.29	268.81	7,300.6	1,193.7	-10,046.1	10,116.3	0.00	0.00	0.00	
17,300.0	90.29	268.81	7,300.1	1,191.6	-10,146.0	10,215.5	0.00	0.00	0.00	
17,400.0	90.29	268.81	7,299.6	1,189.6	-10,246.0	10,314.6	0.00	0.00	0.00	
17,500.0	90.29	268.81	7,299.1	1,187.5	-10,346.0	10,413.8	0.00	0.00	0.00	
17,600.0	90.29	268.81	7,298.6	1,185.4	-10,446.0	10,512.9	0.00	0.00	0.00	
17,700.0	90.29	268.81	7,298.1	1,183.4	-10,545.9	10,612.1	0.00	0.00	0.00	
17,800.0	90.29	268.81	7,297.6	1,181.3	-10,645.9	10,711.2	0.00	0.00	0.00	
17,900.0	90.29	268.81	7,297.1	1,179.2	-10,745.9	10,810.4	0.00	0.00	0.00	
17,922.5	90.29	268.81	7,297.0	1,178.8	-10,768.4	10,832.7	0.00	0.00	0.00	
TD at 17922.5 - BHL 160°FNL, 470°FWL, SEC.30										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude		Longitude
SHL 1554°FNL, 355°FWL - hit/miss target - Shape - Point	0.00	0.00	1.0	0.0	0.0	1,443,581.10	3,196,884.17	40.548871		-104.791518
BHL 160°FNL, 470°FWL, - plan hits target center - Point	0.00	0.00	7,297.0	1,178.8	-10,768.4	1,444,673.74	3,186,107.03	40.552100		-104.830268
LPL 160°FNL, 470°FEL, 1 - plan hits target center - Point	0.00	0.00	7,347.0	1,385.5	-775.9	1,444,960.34	3,196,097.27	40.552674		-104.794310

Database:	US_EDM	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Project:	SEC.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site:	Thornton 28-H Pad Sec.28-T7N-R66W	North Reference:	True
Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-28-16)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,928.4	7,347.0	7"	7	8-3/4	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP - Start Build 1.50	
5,947.8	5,787.1	1,310.5	-52.6	Start Drop -2.00	
6,799.1	6,630.8	1,400.5	-56.2	Start Build 8.00	
7,927.7	7,347.0	1,385.5	-775.9	Start DLS 1.00 TFO 120.56	
7,928.4	7,347.0	1,385.5	-776.6	Start 9994.1 hold at 7928.4 MD	
17,922.5	7,297.0	1,178.8	-10,768.4	TD at 17922.5	

ENSIGN

Directional

Bayswater Exploration & Production, LLC

SEC.28-T7N-R66W

Thornton 28-H Pad Sec.28-T7N-R66W

Thornton A-29-30HN

Wellbore #1

Plan #1 (1-28-16)

Anticollision Report

22 February, 2016



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (1-28-16)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 800.0 ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2/22/2016		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	17,922.5	Plan #1 (1-28-16) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Existing Wells - Sec.28-T7N-R66W						
Bears 4-30 (Exist) - Wellbore #1 - Wellbore #1	17,787.3	7,344.7	399.7	-42.5	0.904	Level 1, CC
Bears 4-30 (Exist) - Wellbore #1 - Wellbore #1	17,800.0	7,344.6	399.9	-42.6	0.904	Level 1, ES, SF
Lind EE 20-399HN (COGCC Planned) - Wellbore #1 - CO	7,916.6	12,146.3	187.3	42.9	1.297	Level 3, CC, ES
Lind EE 20-399HN (COGCC Planned) - Wellbore #1 - CO	12,300.0	7,764.9	199.4	43.7	1.281	Level 3, SF
Hirsch 29-C Pad Sec.29-T7N-R66W						
Hirsch 1-29 - Wellbore #1 - Wellbore #1	8,175.8	7,591.2	525.1	460.4	8.124	CC, ES
Hirsch 1-29 - Wellbore #1 - Wellbore #1	8,300.0	7,589.2	539.6	472.1	8.003	SF
Hirsch 2-29 (Vert.) - Wellbore #1 - Wellbore #1	9,742.8	7,332.0	284.3	197.6	3.278	CC, ES, SF
Thornton 21K-HZ Pad Sec.21-T7N-R66W						
Thornton 21G-223 - Wellbore #1 - Plan #1 (12-04-12)	7,100.0	10,312.6	541.9	462.1	6.796	SF
Thornton 21G-223 - Wellbore #1 - Plan #1 (12-04-12)	7,200.0	10,313.3	525.1	449.7	6.969	ES
Thornton 21G-223 - Wellbore #1 - Plan #1 (12-04-12)	7,201.8	10,313.4	525.1	449.8	6.977	CC
Thornton 21G-403 - Wellbore #1 - Plan #1 (12-04-12)	7,400.0	10,483.9	293.7	229.0	4.544	SF
Thornton 21G-403 - Wellbore #1 - Plan #1 (12-04-12)	7,450.0	10,485.0	286.4	225.1	4.675	ES
Thornton 21G-403 - Wellbore #1 - Plan #1 (12-04-12)	7,455.2	10,485.1	286.3	225.4	4.701	CC
Thornton 21K-443 - Wellbore #1 - Wellbore #1						Out of range
Thornton 28GK-HZ Pad Sec. 28-T7N-R66W						
Thornton 28G-223 - Wellbore #1 - Plan #2 (2-22-16)						Out of range
Thornton 28K-423 - Wellbore #1 - Plan #1 (06-11-13)						Out of range
Thornton 28K-443 - Wellbore #1 - Plan #2 (2-22-16)						Out of range

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Thornton 28-H Pad Sec.28-T7N-R66W						
Thornton B-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	200.0	200.0	14.9	14.3	22.168	CC
Thornton B-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	17,922.5	17,954.6	187.0	-349.0	0.349	Level 1, ES, SF
Thornton C-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	200.0	199.0	29.9	29.2	44.470	CC
Thornton C-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	17,922.5	17,757.7	394.2	-189.0	0.676	Level 1, ES, SF
Thornton D-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	200.0	199.0	44.8	44.2	66.711	CC, ES
Thornton D-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	17,922.5	17,782.9	659.9	62.6	1.105	Level 2, SF
Thornton E-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	200.0	198.0	60.1	59.5	89.794	CC, ES
Thornton E-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	5,200.0	5,197.1	592.8	566.2	22.314	SF
Thornton F-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	200.0	198.0	75.1	74.4	112.110	CC, ES
Thornton F-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	5,000.0	4,980.2	692.8	667.7	27.502	SF
Thornton G-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	200.0	198.0	90.0	89.4	134.433	CC, ES
Thornton G-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	3,800.0	3,762.3	710.8	692.2	38.050	SF
Thornton H-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	200.0	197.0	105.0	104.3	157.271	CC, ES
Thornton H-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	1,000.0	991.2	188.3	183.9	42.762	SF
Thornton I-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	200.0	197.0	119.9	119.3	179.662	CC, ES
Thornton I-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	1,000.0	991.2	203.3	198.9	46.153	SF
Thornton J-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	200.0	197.0	134.9	134.2	202.053	CC, ES
Thornton J-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	1,100.0	1,088.7	240.3	235.4	49.295	SF
Thornton K-29-30HC - Wellbore #1 - Plan #2 (2-18-16)	200.0	196.0	150.2	149.5	225.570	CC, ES
Thornton K-29-30HC - Wellbore #1 - Plan #2 (2-18-16)	1,160.7	1,146.6	270.2	265.0	52.389	SF
Thornton L-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	200.0	196.0	165.1	164.5	248.223	CC, ES
Thornton L-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	1,300.0	1,281.5	319.8	314.0	55.061	SF
Thornton M-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	200.0	195.0	180.1	179.4	271.602	CC, ES
Thornton M-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	1,200.0	1,183.7	309.8	304.5	58.046	SF
Thornton N-29-30HC - Wellbore #1 - Plan #2 (2-18-16)	200.0	195.0	195.0	194.4	294.151	CC, ES
Thornton N-29-30HC - Wellbore #1 - Plan #2 (2-18-16)	1,200.0	1,177.5	325.6	320.3	61.326	SF
Thornton O-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	200.0	195.0	210.0	209.3	316.688	CC, ES
Thornton O-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	1,160.7	1,134.3	332.4	327.3	65.165	SF
Thornton P-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	200.0	194.0	224.9	224.3	340.391	CC, ES
Thornton P-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	1,160.7	1,124.2	352.0	346.9	69.628	SF
Thornton Q-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	200.0	194.0	239.9	239.2	362.990	CC, ES
Thornton Q-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	1,160.7	1,114.3	373.9	368.9	74.505	SF
Thornton R-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	200.0	194.0	255.2	254.5	386.167	CC, ES
Thornton R-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	1,200.0	1,136.7	412.4	407.3	79.939	SF
Thornton S-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	200.0	193.0	270.1	269.5	410.176	CC, ES
Thornton S-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	1,160.7	1,090.7	424.9	419.9	85.484	SF
Thornton T-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	200.0	193.0	285.1	284.4	432.873	CC, ES
Thornton T-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	1,160.7	1,077.6	453.6	448.7	91.413	SF
Thornton U-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	200.0	193.0	300.0	299.4	455.570	CC, ES
Thornton U-29-30HN - Wellbore #1 - Plan #2 (2-18-16)	1,200.0	1,100.0	500.9	495.7	97.335	SF
Thornton V-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	200.0	192.0	315.0	314.3	479.912	CC, ES
Thornton V-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	1,300.0	1,156.1	579.3	573.7	103.663	SF
Thornton W-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	200.0	192.0	329.9	329.3	502.686	CC, ES
Thornton W-29-30HC - Wellbore #1 - Plan #1 (1-28-16)	1,400.0	1,212.2	665.5	659.5	109.809	SF
Thornton X-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	100.0	92.0	344.9	344.6	1,598.141	CC, ES
Thornton X-29-30HN - Wellbore #1 - Plan #1 (1-28-16)	1,400.0	1,190.3	707.1	701.0	115.860	SF
Walton 25D Pad Sec.25-T7N-R67W						
Walton A-25HN - Wellbore #1 - Plan #1 (1-14-15)	17,922.5	7,200.0	446.4	358.4	5.075	CC, ES, SF
Walton B-25HC - Wellbore #1 - Plan #1 (1-14-15)	17,922.5	7,218.8	436.6	235.9	2.175	CC, ES, SF
Walton C-25HN - Wellbore #1 - Plan #1 (1-14-15)	17,922.5	7,172.8	563.0	313.2	2.254	CC, ES, SF

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Existing Wells - Sec.28-T7N-R66W - Bears 4-30 (Exist) - Wellbore #1 - Wellbore #1										Offset Site Error:		0.0 ft
Survey Program:		7622-UNKNOWN										Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
17,100.0	7,301.1	7,348.1	7,348.1	276.5	147.0	-90.49	781.9	-10,624.9	795.0	372.0	423.00	1.879		
17,200.0	7,300.6	7,347.6	7,347.6	279.3	147.0	-90.42	781.9	-10,624.9	710.4	284.6	425.79	1.668		
17,300.0	7,300.1	7,347.1	7,347.1	282.1	146.9	-90.35	781.9	-10,624.9	630.2	201.6	428.58	1.470	Level 3	
17,400.0	7,299.6	7,346.6	7,346.6	284.9	146.9	-90.28	781.9	-10,624.9	556.5	125.2	431.37	1.290	Level 3	
17,500.0	7,299.1	7,346.1	7,346.1	287.7	146.9	-90.21	781.9	-10,624.9	492.2	58.1	434.16	1.134	Level 2	
17,600.0	7,298.6	7,345.6	7,345.6	290.5	146.9	-90.13	781.9	-10,624.9	441.4	4.4	436.94	1.010	Level 2	
17,700.0	7,298.1	7,345.1	7,345.1	293.3	146.9	-90.06	781.9	-10,624.9	409.1	-30.6	439.73	0.930	Level 1	
17,787.3	7,297.7	7,344.7	7,344.7	295.7	146.9	-90.00	781.9	-10,624.9	399.7	-42.5	442.16	0.904	Level 1, CC	
17,800.0	7,297.6	7,344.6	7,344.6	296.1	146.9	-89.99	781.9	-10,624.9	399.9	-42.6	442.52	0.904	Level 1, ES, SF	
17,900.0	7,297.1	7,344.1	7,344.1	298.9	146.9	-89.92	781.9	-10,624.9	415.3	-30.0	445.30	0.933	Level 1	
17,922.5	7,297.0	7,344.0	7,344.0	299.5	146.9	-89.90	781.9	-10,624.9	422.0	-24.0	445.93	0.946	Level 1	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells - Sec.28-T7N-R66W - Lind EE 20-399HN (COGCC Planned) - Wellbore #1 - COGCC Pla													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
7,050.0	6,876.6	12,146.3	7,276.0	29.9	136.5	18.07	1,547.8	-769.1	782.2	709.8	72.40	10.803		
7,100.0	6,922.9	12,146.3	7,276.0	29.9	136.5	19.54	1,547.8	-769.1	744.6	669.4	75.15	9.908		
7,150.0	6,967.9	12,146.3	7,276.0	30.0	136.5	21.20	1,547.8	-769.1	706.2	628.1	78.12	9.040		
7,200.0	7,011.1	12,146.3	7,276.0	30.1	136.5	23.08	1,547.8	-769.1	667.3	585.9	81.37	8.201		
7,250.0	7,052.5	12,146.3	7,276.0	30.2	136.5	25.18	1,547.8	-769.1	627.8	542.9	84.91	7.394		
7,300.0	7,091.9	12,146.3	7,276.0	30.3	136.5	27.54	1,547.8	-769.1	587.8	499.0	88.79	6.621		
7,350.0	7,129.0	12,146.3	7,276.0	30.4	136.5	30.17	1,547.8	-769.1	547.5	454.5	93.04	5.885		
7,400.0	7,163.7	12,146.3	7,276.0	30.5	136.5	33.06	1,547.8	-769.1	507.1	409.4	97.70	5.190		
7,450.0	7,195.7	12,146.3	7,276.0	30.6	136.5	36.20	1,547.8	-769.1	466.6	363.8	102.77	4.540		
7,500.0	7,225.1	12,146.3	7,276.0	30.8	136.5	39.54	1,547.8	-769.1	426.3	318.1	108.20	3.940		
7,550.0	7,251.5	12,146.3	7,276.0	31.0	136.5	43.00	1,547.8	-769.1	386.5	272.6	113.90	3.393		
7,600.0	7,274.9	12,146.3	7,276.0	31.2	136.5	46.49	1,547.8	-769.1	347.5	227.9	119.69	2.904		
7,650.0	7,295.2	12,146.3	7,276.0	31.5	136.5	49.87	1,547.8	-769.1	310.1	184.7	125.34	2.474		
7,700.0	7,312.2	12,146.3	7,276.0	31.8	136.5	52.97	1,547.8	-769.1	274.9	144.3	130.58	2.105		
7,750.0	7,326.0	12,146.3	7,276.0	32.1	136.5	55.65	1,547.8	-769.1	243.1	107.9	135.18	1.799		
7,800.0	7,336.3	12,146.3	7,276.0	32.5	136.5	57.76	1,547.8	-769.1	216.5	77.6	138.98	1.558		
7,850.0	7,343.2	12,146.3	7,276.0	33.0	136.5	59.18	1,547.8	-769.1	197.4	55.4	141.91	1.391 Level 3		
7,900.0	7,346.6	12,146.3	7,276.0	33.5	136.5	59.84	1,547.8	-769.1	188.0	44.1	143.92	1.306 Level 3		
7,916.6	7,347.0	12,146.3	7,276.0	33.7	136.5	59.89	1,547.8	-769.1	187.3	42.9	144.39	1.297 Level 3, CC, ES		
7,927.7	7,347.0	12,137.1	7,276.0	33.8	136.2	59.89	1,547.6	-778.3	187.4	42.9	144.44	1.297 Level 3		
7,927.7	7,347.0	12,137.1	7,276.0	33.8	136.2	59.89	1,547.6	-778.3	187.4	42.9	144.44	1.297 Level 3		
7,928.4	7,347.0	12,136.4	7,276.0	33.8	136.2	59.89	1,547.6	-779.0	187.4	43.0	144.44	1.297 Level 3		
8,000.0	7,346.6	12,064.8	7,276.0	34.7	134.2	60.04	1,546.5	-850.6	187.6	43.4	144.12	1.301 Level 3		
8,100.0	7,346.1	11,964.8	7,276.0	36.0	131.4	60.26	1,545.0	-950.6	187.8	44.0	143.76	1.306 Level 3		
8,200.0	7,345.6	11,864.8	7,276.0	37.6	128.7	60.47	1,543.5	-1,050.6	188.0	44.5	143.49	1.310 Level 3		
8,300.0	7,345.1	11,764.8	7,276.0	39.4	125.9	60.69	1,541.9	-1,150.6	188.2	44.9	143.29	1.314 Level 3		
8,400.0	7,344.6	11,664.8	7,276.0	41.3	123.1	60.90	1,540.4	-1,250.6	188.5	45.3	143.16	1.316 Level 3		
8,500.0	7,344.1	11,564.8	7,276.0	43.3	120.4	61.11	1,538.9	-1,350.5	188.7	45.6	143.07	1.319 Level 3		
8,600.0	7,343.6	11,464.8	7,276.0	45.4	117.6	61.33	1,537.4	-1,450.5	188.9	45.9	143.02	1.321 Level 3		
8,700.0	7,343.1	11,364.8	7,276.0	47.6	114.8	61.54	1,535.8	-1,550.5	189.2	46.1	143.01	1.323 Level 3		
8,800.0	7,342.6	11,264.8	7,276.0	49.9	112.1	61.75	1,534.3	-1,650.5	189.4	46.4	143.03	1.324 Level 3		
8,900.0	7,342.1	11,164.8	7,276.0	52.3	109.3	61.96	1,532.8	-1,750.5	189.6	46.6	143.08	1.325 Level 3		
9,000.0	7,341.6	11,064.8	7,276.0	54.7	106.5	62.17	1,531.3	-1,850.5	189.9	46.7	143.15	1.327 Level 3		
9,100.0	7,341.1	10,964.8	7,276.0	57.1	103.8	62.38	1,529.7	-1,950.5	190.1	46.9	143.24	1.327 Level 3		
9,200.0	7,340.6	10,864.9	7,276.0	59.6	101.0	62.59	1,528.2	-2,050.4	190.4	47.0	143.34	1.328 Level 3		
9,300.0	7,340.1	10,764.9	7,276.0	62.1	98.3	62.80	1,526.7	-2,150.4	190.6	47.2	143.46	1.329 Level 3		
9,400.0	7,339.6	10,664.9	7,276.0	64.7	95.5	63.01	1,525.2	-2,250.4	190.9	47.3	143.59	1.329 Level 3		
9,500.0	7,339.1	10,564.9	7,276.0	67.2	92.8	63.21	1,523.6	-2,350.4	191.2	47.4	143.74	1.330 Level 3		
9,600.0	7,338.6	10,464.9	7,276.0	69.8	90.0	63.42	1,522.1	-2,450.4	191.4	47.5	143.90	1.330 Level 3		
9,700.0	7,338.1	10,364.9	7,276.0	72.4	87.3	63.63	1,520.6	-2,550.4	191.7	47.6	144.06	1.331 Level 3		
9,800.0	7,337.6	10,264.9	7,276.0	75.0	84.6	63.83	1,519.1	-2,650.4	191.9	47.7	144.24	1.331 Level 3		
9,900.0	7,337.1	10,164.9	7,276.0	77.7	81.8	64.04	1,517.5	-2,750.3	192.2	47.8	144.43	1.331 Level 3		
10,000.0	7,336.6	10,064.9	7,276.0	80.3	79.1	64.24	1,516.0	-2,850.3	192.5	47.9	144.63	1.331 Level 3		
10,100.0	7,336.1	9,964.9	7,276.0	83.0	76.4	64.45	1,514.5	-2,950.3	192.8	47.9	144.83	1.331 Level 3		
10,200.0	7,335.6	9,864.9	7,276.0	85.6	73.7	64.65	1,513.0	-3,050.3	193.0	48.0	145.05	1.331 Level 3		
10,300.0	7,335.1	9,764.9	7,276.0	88.3	71.0	64.85	1,511.4	-3,150.3	193.3	48.0	145.28	1.331 Level 3		
10,400.0	7,334.6	9,664.9	7,276.0	91.0	68.3	65.05	1,509.9	-3,250.3	193.6	48.1	145.51	1.330 Level 3		
10,500.0	7,334.1	9,564.9	7,276.0	93.7	65.6	65.26	1,508.4	-3,350.3	193.9	48.1	145.76	1.330 Level 3		
10,600.0	7,333.6	9,464.9	7,276.0	96.4	62.9	65.46	1,506.8	-3,450.2	194.2	48.1	146.02	1.330 Level 3		
10,700.0	7,333.1	9,364.9	7,276.0	99.1	60.3	65.66	1,505.3	-3,550.2	194.4	48.2	146.29	1.329 Level 3		
10,800.0	7,332.6	9,264.9	7,276.0	101.8	57.6	65.86	1,503.8	-3,650.2	194.7	48.2	146.57	1.329 Level 3		
10,900.0	7,332.1	9,164.9	7,276.0	104.5	55.0	66.06	1,502.3	-3,750.2	195.0	48.2	146.87	1.328 Level 3		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells - Sec.28-T7N-R66W - Lind EE 20-399HN (COGCC Planned) - Wellbore #1 - COGCC Pla													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
11,000.0	7,331.6	9,064.9	7,276.0	107.2	52.4	66.26	1,500.7	-3,850.2	195.3	48.1	147.19	1.327 Level 3		
11,100.0	7,331.1	8,964.9	7,276.0	110.0	49.8	66.45	1,499.2	-3,950.2	195.6	48.1	147.53	1.326 Level 3		
11,200.0	7,330.6	8,864.9	7,276.0	112.7	47.2	66.65	1,497.7	-4,050.2	195.9	48.0	147.89	1.325 Level 3		
11,300.0	7,330.1	8,764.9	7,276.0	115.4	44.7	66.85	1,496.2	-4,150.1	196.2	47.9	148.28	1.323 Level 3		
11,400.0	7,329.6	8,664.9	7,276.0	118.2	42.2	67.05	1,494.6	-4,250.1	196.5	47.8	148.70	1.322 Level 3		
11,500.0	7,329.1	8,564.9	7,276.0	120.9	39.7	67.24	1,493.1	-4,350.1	196.8	47.7	149.16	1.320 Level 3		
11,600.0	7,328.6	8,464.9	7,276.0	123.6	37.3	67.44	1,491.6	-4,450.1	197.1	47.5	149.66	1.317 Level 3		
11,700.0	7,328.1	8,364.9	7,276.0	126.4	34.9	67.63	1,490.1	-4,550.1	197.4	47.2	150.22	1.314 Level 3		
11,800.0	7,327.6	8,264.9	7,276.0	129.1	32.7	67.82	1,488.5	-4,650.1	197.8	46.9	150.85	1.311 Level 3		
11,900.0	7,327.1	8,164.9	7,276.0	131.9	30.5	68.02	1,487.0	-4,750.1	198.1	46.5	151.56	1.307 Level 3		
12,000.0	7,326.6	8,064.9	7,276.0	134.6	28.4	68.21	1,485.5	-4,850.0	198.4	46.0	152.37	1.302 Level 3		
12,100.0	7,326.1	7,964.9	7,276.0	137.4	26.4	68.40	1,484.0	-4,950.0	198.7	45.4	153.30	1.296 Level 3		
12,200.0	7,325.6	7,864.9	7,276.0	140.2	24.6	68.59	1,482.4	-5,050.0	199.0	44.6	154.40	1.289 Level 3		
12,300.0	7,325.1	7,764.9	7,276.0	142.9	23.0	68.78	1,480.9	-5,150.0	199.4	43.7	155.67	1.281 Level 3, SF		
12,400.0	7,324.6	7,677.2	7,272.1	145.7	21.8	67.99	1,480.2	-5,237.6	202.1	45.7	156.40	1.292 Level 3		
12,500.0	7,324.1	7,595.4	7,257.0	148.4	20.9	64.59	1,481.6	-5,317.9	212.9	58.3	154.54	1.377 Level 3		
12,600.0	7,323.6	7,519.2	7,233.0	151.2	20.3	59.63	1,484.6	-5,390.1	233.4	83.1	150.31	1.553		
12,700.0	7,323.1	7,450.0	7,203.1	154.0	19.9	54.33	1,488.7	-5,452.3	265.0	120.4	144.56	1.833		
12,800.0	7,322.6	7,389.8	7,171.3	156.7	19.6	49.59	1,493.4	-5,503.2	307.6	168.9	138.67	2.218		
12,900.0	7,322.1	7,337.0	7,139.2	159.5	19.5	45.60	1,498.2	-5,544.8	360.2	226.9	133.30	2.702		
13,000.0	7,321.6	7,300.0	7,114.5	162.3	19.5	42.98	1,502.0	-5,572.1	421.4	291.3	130.06	3.240		
13,100.0	7,321.1	7,250.0	7,078.5	165.1	19.4	39.71	1,507.6	-5,606.3	488.9	363.9	125.09	3.909		
13,200.0	7,320.6	7,218.0	7,054.0	167.8	19.4	37.80	1,511.5	-5,626.5	562.0	439.3	122.73	4.579		
13,300.0	7,320.1	7,200.0	7,039.8	170.6	19.4	36.79	1,513.8	-5,637.3	639.6	517.4	122.22	5.233		
13,400.0	7,319.6	7,150.0	6,998.5	173.4	19.4	34.21	1,520.4	-5,664.6	720.4	602.5	117.92	6.110		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Hirsch 29-C Pad Sec.29-T7N-R66W - Hirsch 1-29 - Wellbore #1 - Wellbore #1										Offset Site Error:		0.0 ft
Survey Program:		96-MWD										Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
7,600.0	7,274.9	7,523.5	7,268.0	31.2	33.4	-64.43	856.4	-1,013.6	771.0	720.1	50.83	15.169		
7,650.0	7,295.2	7,544.4	7,288.9	31.5	33.4	-69.40	856.1	-1,013.4	738.2	685.9	52.33	14.108		
7,700.0	7,312.2	7,561.8	7,306.3	31.8	33.4	-74.22	855.9	-1,013.3	706.0	652.2	53.83	13.115		
7,750.0	7,326.0	7,575.6	7,320.1	32.1	33.4	-78.70	855.7	-1,013.2	674.8	619.6	55.26	12.212		
7,800.0	7,336.3	7,585.8	7,330.3	32.5	33.4	-82.66	855.6	-1,013.0	645.3	588.7	56.57	11.407		
7,850.0	7,343.2	7,592.3	7,336.8	33.0	33.4	-85.97	855.5	-1,013.0	617.8	560.0	57.77	10.695		
7,900.0	7,346.6	7,595.3	7,339.8	33.5	33.4	-88.57	855.4	-1,012.9	593.1	534.2	58.90	10.070		
7,927.7	7,347.0	7,595.4	7,339.9	33.8	33.4	-89.68	855.4	-1,012.9	580.7	521.2	59.50	9.759		
7,927.7	7,347.0	7,595.4	7,339.9	33.8	33.4	-89.68	855.4	-1,012.9	580.7	521.2	59.50	9.759		
7,928.4	7,347.0	7,595.4	7,339.8	33.8	33.4	-89.68	855.4	-1,012.9	580.4	520.9	59.52	9.752		
8,000.0	7,346.6	7,594.2	7,338.6	34.7	33.4	-89.55	855.5	-1,013.0	553.7	492.8	60.91	9.090		
8,100.0	7,346.1	7,592.5	7,337.0	36.0	33.4	-89.37	855.5	-1,013.0	530.5	467.5	62.98	8.424		
8,175.8	7,345.8	7,591.2	7,335.7	37.2	33.4	-89.23	855.5	-1,013.0	525.1	460.4	64.63	8.124 CC, ES		
8,200.0	7,345.6	7,590.9	7,335.3	37.6	33.4	-89.19	855.5	-1,013.0	525.6	460.5	65.15	8.067		
8,300.0	7,345.1	7,589.2	7,333.7	39.4	33.4	-89.01	855.5	-1,013.0	539.6	472.1	67.42	8.003 SF		
8,400.0	7,344.6	7,587.6	7,332.1	41.3	33.4	-88.84	855.5	-1,013.0	570.9	501.2	69.76	8.184		
8,500.0	7,344.1	7,586.1	7,330.6	43.3	33.4	-88.67	855.6	-1,013.0	617.1	544.9	72.15	8.552		
8,600.0	7,343.6	7,584.5	7,329.0	45.4	33.4	-88.50	855.6	-1,013.1	675.0	600.4	74.60	9.048		
8,700.0	7,343.1	7,583.0	7,327.5	47.6	33.4	-88.33	855.6	-1,013.1	741.9	664.8	77.09	9.624		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Hirsch 29-C Pad Sec.29-T7N-R66W - Hirsch 2-29 (Vert.) - Wellbore #1 - Wellbore #1													Offset Well Error:	0.0 ft
Survey Program: 96-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.0	7,341.6	7,328.4	7,327.4	54.7	15.3	-88.48	1,063.8	-2,584.6	795.3	728.4	66.91	11.888		
9,100.0	7,341.1	7,328.9	7,327.8	57.1	15.3	-88.57	1,063.8	-2,584.6	702.9	633.3	69.53	10.109		
9,200.0	7,340.6	7,329.4	7,328.3	59.6	15.3	-88.67	1,063.8	-2,584.6	612.8	540.6	72.17	8.490		
9,300.0	7,340.1	7,329.8	7,328.8	62.1	15.3	-88.77	1,063.8	-2,584.6	526.2	451.4	74.83	7.032		
9,400.0	7,339.6	7,330.3	7,329.3	64.7	15.3	-88.87	1,063.8	-2,584.6	445.4	367.9	77.50	5.746		
9,500.0	7,339.1	7,330.8	7,329.8	67.2	15.3	-88.97	1,063.8	-2,584.6	373.9	293.7	80.19	4.663		
9,600.0	7,338.6	7,331.3	7,330.3	69.8	15.3	-89.06	1,063.8	-2,584.6	318.2	235.3	82.88	3.839		
9,700.0	7,338.1	7,331.8	7,330.7	72.4	15.3	-89.16	1,063.8	-2,584.6	287.5	201.9	85.58	3.359		
9,742.8	7,337.9	7,332.0	7,330.9	73.5	15.3	-89.20	1,063.8	-2,584.7	284.3	197.6	86.74	3.278	CC, ES, SF	
9,800.0	7,337.6	7,332.2	7,331.2	75.0	15.3	-89.25	1,063.8	-2,584.7	290.0	201.7	88.30	3.284		
9,900.0	7,337.1	7,332.7	7,331.7	77.7	15.3	-89.35	1,063.8	-2,584.7	324.9	233.9	91.01	3.569		
10,000.0	7,336.6	7,333.2	7,332.2	80.3	15.3	-89.44	1,063.7	-2,584.7	383.4	289.6	93.74	4.090		
10,100.0	7,336.1	7,333.6	7,332.6	83.0	15.3	-89.54	1,063.7	-2,584.7	456.5	360.1	96.47	4.732		
10,200.0	7,335.6	7,334.1	7,333.1	85.6	15.3	-89.63	1,063.7	-2,584.7	538.4	439.2	99.21	5.427		
10,300.0	7,335.1	7,334.6	7,333.5	88.3	15.3	-89.72	1,063.7	-2,584.7	625.5	523.6	101.95	6.136		
10,400.0	7,334.6	7,335.0	7,334.0	91.0	15.3	-89.81	1,063.7	-2,584.7	716.0	611.4	104.69	6.839		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 21K-HZ Pad Sec.21-T7N-R66W - Thornton 21G-223 - Wellbore #1 - Plan #1 (12-04-12)													Offset Site Error:	0.0 ft
Survey Program: 0-													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
6,799.1	6,630.8	10,313.4	7,338.4	29.6	55.9	91.95	1,389.1	277.8	741.2	705.7	35.51	20.876		
6,850.0	6,681.7	10,312.9	7,338.4	29.7	55.9	-177.29	1,389.6	277.8	697.0	611.9	85.11	8.190		
6,900.0	6,731.4	10,312.6	7,338.4	29.7	55.9	-177.59	1,389.9	277.8	656.7	571.9	84.72	7.751		
6,950.0	6,780.6	10,312.4	7,338.4	29.8	55.9	-177.79	1,390.1	277.8	620.0	536.1	83.98	7.383		
7,000.0	6,829.1	10,312.4	7,338.4	29.8	55.9	-177.92	1,390.2	277.8	588.0	505.2	82.89	7.094		
7,050.0	6,876.6	10,312.4	7,338.4	29.9	55.9	-178.00	1,390.1	277.8	561.7	480.2	81.48	6.894		
7,100.0	6,922.9	10,312.6	7,338.4	29.9	55.9	-178.04	1,389.9	277.8	541.9	462.1	79.74	6.796 SF		
7,150.0	6,967.9	10,312.9	7,338.4	30.0	55.9	-178.04	1,389.6	277.8	529.5	451.8	77.69	6.815		
7,200.0	7,011.1	10,313.3	7,338.4	30.1	55.9	-178.01	1,389.2	277.8	525.1	449.7	75.34	6.969 ES		
7,201.8	7,012.6	10,313.4	7,338.4	30.1	55.9	-178.00	1,389.2	277.8	525.1	449.8	75.25	6.977 CC		
7,250.0	7,052.5	10,313.9	7,338.4	30.2	55.9	-177.93	1,388.6	277.8	528.9	456.2	72.73	7.272		
7,300.0	7,091.9	10,314.6	7,338.4	30.3	55.9	-177.82	1,387.9	277.8	540.7	470.9	69.86	7.740		
7,350.0	7,129.0	10,315.4	7,338.4	30.4	55.9	-177.67	1,387.2	277.8	560.0	493.2	66.76	8.388		
7,400.0	7,163.7	10,316.3	7,338.4	30.5	55.9	-177.46	1,386.3	277.7	585.9	522.4	63.48	9.230		
7,450.0	7,195.7	10,317.3	7,338.4	30.6	56.0	-177.18	1,385.2	277.7	617.5	557.5	60.05	10.284		
7,500.0	7,225.1	10,318.4	7,338.4	30.8	56.0	-176.81	1,384.1	277.7	653.9	597.3	56.51	11.571		
7,550.0	7,251.5	10,319.6	7,338.3	31.0	56.0	-176.32	1,382.9	277.7	694.0	641.1	52.93	13.110		
7,600.0	7,274.9	10,320.9	7,338.3	31.2	56.0	-175.63	1,381.6	277.7	737.1	687.7	49.40	14.921		
7,650.0	7,295.2	10,322.3	7,338.3	31.5	56.0	-174.63	1,380.2	277.7	782.6	736.6	46.04	16.999		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 21K-HZ Pad Sec.21-T7N-R66W - Thornton 21G-403 - Wellbore #1 - Plan #1 (12-04-12)												Offset Site Error: 0.0 ft		
Survey Program: 0-												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
6,850.0	6,681.7	10,479.0	7,472.0	29.7	57.0	-1.76	1,396.8	-161.7	751.5	667.0	84.45	8.899		
6,900.0	6,731.4	10,478.9	7,472.0	29.7	57.0	-92.47	1,396.9	-161.7	701.5	657.8	43.71	16.051		
6,950.0	6,780.6	10,478.8	7,472.0	29.8	57.0	-178.36	1,397.0	-161.7	651.6	567.2	84.34	7.725		
7,000.0	6,829.1	10,478.9	7,472.0	29.8	57.0	-179.09	1,396.9	-161.7	601.9	518.7	83.23	7.232		
7,050.0	6,876.6	10,479.1	7,472.0	29.9	57.0	-179.28	1,396.7	-161.7	552.9	471.0	81.89	6.751		
7,100.0	6,922.9	10,479.5	7,472.0	29.9	57.0	-179.32	1,396.3	-161.7	504.9	424.6	80.26	6.291		
7,150.0	6,967.9	10,479.9	7,472.0	30.0	57.0	-179.29	1,395.9	-161.7	458.6	380.3	78.32	5.856		
7,200.0	7,011.1	10,480.5	7,472.0	30.1	57.0	-179.23	1,395.3	-161.7	414.9	338.8	76.09	5.453		
7,250.0	7,052.5	10,481.2	7,472.0	30.2	57.0	-179.14	1,394.6	-161.7	374.8	301.2	73.58	5.094		
7,300.0	7,091.9	10,482.0	7,472.0	30.3	57.0	-179.03	1,393.8	-161.7	339.9	269.1	70.81	4.800		
7,350.0	7,129.0	10,482.9	7,472.0	30.4	57.0	-178.89	1,392.9	-161.8	312.1	244.3	67.82	4.603		
7,400.0	7,163.7	10,483.9	7,471.9	30.5	57.1	-178.71	1,391.9	-161.8	293.7	229.0	64.62	4.544 SF		
7,450.0	7,195.7	10,485.0	7,471.9	30.6	57.1	-178.51	1,390.8	-161.8	286.4	225.1	61.26	4.675 ES		
7,455.2	7,198.9	10,485.1	7,471.9	30.7	57.1	-178.48	1,390.7	-161.8	286.3	225.4	60.90	4.701 CC		
7,500.0	7,225.1	10,486.2	7,471.9	30.8	57.1	-178.26	1,389.6	-161.8	291.2	233.4	57.77	5.040		
7,550.0	7,251.5	10,487.4	7,471.9	31.0	57.1	-177.95	1,388.4	-161.8	307.5	253.3	54.22	5.671		
7,600.0	7,274.9	10,488.8	7,471.9	31.2	57.1	-177.56	1,387.0	-161.8	333.5	282.8	50.67	6.582		
7,650.0	7,295.2	10,490.2	7,471.9	31.5	57.2	-177.07	1,385.6	-161.9	367.1	319.9	47.21	7.776		
7,700.0	7,312.2	10,491.7	7,471.9	31.8	57.2	-176.43	1,384.1	-161.9	406.2	362.3	43.95	9.242		
7,750.0	7,326.0	10,493.3	7,471.9	32.1	57.2	-175.53	1,382.5	-161.9	449.3	408.2	41.09	10.936		
7,800.0	7,336.3	10,494.9	7,471.9	32.5	57.3	-174.22	1,380.9	-161.9	495.1	456.2	38.85	12.743		
7,850.0	7,343.2	10,496.6	7,471.9	33.0	57.3	-172.10	1,379.2	-162.0	542.7	505.1	37.64	14.419		
7,900.0	7,346.6	10,498.3	7,471.8	33.5	57.3	-168.14	1,377.5	-162.0	591.6	553.5	38.06	15.542		
7,927.7	7,347.0	10,499.2	7,471.8	33.8	57.3	-163.99	1,376.6	-162.0	619.0	579.5	39.47	15.682		
7,927.7	7,347.0	10,499.2	7,471.8	33.8	57.3	-163.99	1,376.6	-162.0	619.0	579.5	39.47	15.682		
7,928.4	7,347.0	10,499.3	7,471.8	33.8	57.3	-164.02	1,376.5	-162.0	619.7	580.2	39.46	15.702		
8,000.0	7,346.6	10,501.7	7,471.8	34.7	57.4	-162.31	1,374.1	-162.0	690.7	650.0	40.75	16.950		
8,100.0	7,346.1	10,505.2	7,471.8	36.0	57.4	-159.98	1,370.6	-162.1	790.2	747.5	42.63	18.533		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton B-29-30HC - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-177.87	-14.9	-0.6	14.9	14.9	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	-177.87	-14.9	-0.6	14.9	14.7	0.22	66.503		
200.0	200.0	200.0	200.0	0.3	0.3	-177.87	-14.9	-0.6	14.9	14.3	0.67	22.168 CC		
300.0	300.0	300.0	300.0	0.6	0.6	-175.93	-14.9	-0.6	16.3	15.1	1.13	14.328		
400.0	399.9	399.9	399.9	0.8	0.8	-176.71	-14.9	-0.6	20.2	18.6	1.60	12.595		
500.0	499.7	500.4	500.4	1.0	1.0	-177.36	-13.6	-0.6	25.4	23.3	2.07	12.288		
600.0	599.3	601.0	600.9	1.3	1.2	-177.74	-9.7	-0.8	30.6	28.1	2.53	12.096		
700.0	698.6	701.7	701.4	1.6	1.5	-177.96	-3.0	-1.2	35.8	32.8	3.00	11.946		
800.0	797.5	802.6	801.8	1.9	1.7	-178.08	6.2	-1.6	41.0	37.5	3.47	11.815		
900.0	896.1	903.6	902.1	2.2	2.0	-178.15	18.2	-2.2	46.1	42.2	3.95	11.691		
1,000.0	994.2	1,004.8	1,002.2	2.6	2.3	-178.17	32.8	-3.0	51.3	46.8	4.43	11.566		
1,100.0	1,091.7	1,106.1	1,102.0	3.0	2.6	-178.16	50.1	-3.8	56.4	51.4	4.93	11.438		
1,160.7	1,150.6	1,167.6	1,162.4	3.3	2.9	-178.14	61.8	-4.4	59.4	54.2	5.23	11.355		
1,200.0	1,188.7	1,207.5	1,201.5	3.5	3.0	-178.11	70.0	-4.8	61.2	55.8	5.43	11.267		
1,300.0	1,285.5	1,308.4	1,299.9	4.0	3.4	-178.00	92.2	-5.9	64.2	58.2	5.95	10.783		
1,400.0	1,382.4	1,408.3	1,397.3	4.5	3.8	-177.88	114.6	-7.1	66.7	60.3	6.48	10.303		
1,500.0	1,479.2	1,508.3	1,494.7	5.0	4.3	-177.77	136.9	-8.2	69.3	62.3	7.01	9.887		
1,600.0	1,576.1	1,608.3	1,592.2	5.5	4.7	-177.67	159.3	-9.3	71.8	64.3	7.54	9.522		
1,700.0	1,672.9	1,708.2	1,689.6	6.0	5.2	-177.58	181.7	-10.4	74.4	66.3	8.08	9.202		
1,800.0	1,769.8	1,808.2	1,787.0	6.5	5.6	-177.49	204.1	-11.6	76.9	68.3	8.63	8.918		
1,900.0	1,866.6	1,908.2	1,884.4	7.0	6.1	-177.41	226.4	-12.7	79.5	70.3	9.17	8.666		
2,000.0	1,963.5	2,008.1	1,981.9	7.5	6.5	-177.33	248.8	-13.8	82.0	72.3	9.72	8.440		
2,100.0	2,060.4	2,108.1	2,079.3	8.0	7.0	-177.26	271.2	-14.9	84.6	74.3	10.27	8.237		
2,200.0	2,157.2	2,208.1	2,176.7	8.5	7.4	-177.19	293.6	-16.1	87.1	76.3	10.82	8.053		
2,300.0	2,254.1	2,308.0	2,274.1	9.0	7.9	-177.12	316.0	-17.2	89.7	78.3	11.37	7.886		
2,400.0	2,350.9	2,408.0	2,371.6	9.5	8.4	-177.06	338.3	-18.3	92.2	80.3	11.93	7.734		
2,500.0	2,447.8	2,508.0	2,469.0	10.0	8.8	-177.01	360.7	-19.4	94.8	82.3	12.48	7.594		
2,600.0	2,544.6	2,607.9	2,566.4	10.5	9.3	-176.95	383.1	-20.6	97.4	84.3	13.04	7.466		
2,700.0	2,641.5	2,707.9	2,663.8	11.0	9.8	-176.90	405.5	-21.7	99.9	86.3	13.60	7.348		
2,800.0	2,738.3	2,807.9	2,761.2	11.5	10.2	-176.85	427.9	-22.8	102.5	88.3	14.15	7.239		
2,900.0	2,835.2	2,907.8	2,858.7	12.0	10.7	-176.80	450.2	-23.9	105.0	90.3	14.71	7.138		
3,000.0	2,932.0	3,007.8	2,956.1	12.6	11.2	-176.76	472.6	-25.1	107.6	92.3	15.27	7.044		
3,100.0	3,028.9	3,107.8	3,053.5	13.1	11.6	-176.71	495.0	-26.2	110.1	94.3	15.83	6.956		
3,200.0	3,125.7	3,207.7	3,150.9	13.6	12.1	-176.67	517.4	-27.3	112.7	96.3	16.39	6.875		
3,300.0	3,222.6	3,307.7	3,248.4	14.1	12.6	-176.64	539.8	-28.4	115.2	98.3	16.95	6.798		
3,400.0	3,319.5	3,407.7	3,345.8	14.6	13.0	-176.60	562.1	-29.6	117.8	100.3	17.51	6.726		
3,500.0	3,416.3	3,507.7	3,443.2	15.1	13.5	-176.56	584.5	-30.7	120.3	102.3	18.07	6.659		
3,600.0	3,513.2	3,607.6	3,540.6	15.6	14.0	-176.53	606.9	-31.8	122.9	104.3	18.63	6.595		
3,700.0	3,610.0	3,707.6	3,638.1	16.1	14.4	-176.50	629.3	-32.9	125.4	106.2	19.19	6.535		
3,800.0	3,706.9	3,807.6	3,735.5	16.6	14.9	-176.46	651.7	-34.0	128.0	108.2	19.76	6.479		
3,900.0	3,803.7	3,907.5	3,832.9	17.2	15.4	-176.43	674.0	-35.2	130.5	110.2	20.32	6.425		
4,000.0	3,900.6	4,007.5	3,930.3	17.7	15.8	-176.40	696.4	-36.3	133.1	112.2	20.88	6.374		
4,100.0	3,997.4	4,107.5	4,027.8	18.2	16.3	-176.38	718.8	-37.4	135.7	114.2	21.44	6.326		
4,200.0	4,094.3	4,207.4	4,125.2	18.7	16.8	-176.35	741.2	-38.5	138.2	116.2	22.01	6.280		
4,300.0	4,191.1	4,307.4	4,222.6	19.2	17.3	-176.32	763.6	-39.7	140.8	118.2	22.57	6.237		
4,400.0	4,288.0	4,407.4	4,320.0	19.7	17.7	-176.30	785.9	-40.8	143.3	120.2	23.13	6.195		
4,500.0	4,384.8	4,507.3	4,417.4	20.2	18.2	-176.27	808.3	-41.9	145.9	122.2	23.70	6.156		
4,600.0	4,481.7	4,607.3	4,514.9	20.7	18.7	-176.25	830.7	-43.0	148.4	124.2	24.26	6.118		
4,700.0	4,578.6	4,707.3	4,612.3	21.3	19.1	-176.23	853.1	-44.2	151.0	126.2	24.82	6.082		
4,800.0	4,675.4	4,807.2	4,709.7	21.8	19.6	-176.21	875.4	-45.3	153.5	128.1	25.39	6.048		
4,900.0	4,772.3	4,907.2	4,807.1	22.3	20.1	-176.19	897.8	-46.4	156.1	130.1	25.95	6.015		
5,000.0	4,869.1	5,007.2	4,904.6	22.8	20.5	-176.17	920.2	-47.5	158.6	132.1	26.51	5.983		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton B-29-30HC - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.0	4,966.0	5,107.1	5,002.0	23.3	21.0	-176.15	942.6	-48.7	161.2	134.1	27.08	5.953		
5,200.0	5,062.8	5,207.1	5,099.4	23.8	21.5	-176.13	965.0	-49.8	163.7	136.1	27.64	5.924		
5,300.0	5,159.7	5,307.1	5,196.8	24.3	22.0	-176.11	987.3	-50.9	166.3	138.1	28.21	5.896		
5,400.0	5,256.5	5,407.0	5,294.3	24.8	22.4	-176.09	1,009.7	-52.0	168.9	140.1	28.77	5.869		
5,500.0	5,353.4	5,507.0	5,391.7	25.4	22.9	-176.07	1,032.1	-53.2	171.4	142.1	29.34	5.843		
5,600.0	5,450.2	5,607.0	5,489.1	25.9	23.4	-176.06	1,054.5	-54.3	174.0	144.1	29.90	5.818		
5,700.0	5,547.1	5,706.9	5,586.5	26.4	23.8	-176.04	1,076.9	-55.4	176.5	146.1	30.47	5.794		
5,800.0	5,643.9	5,806.9	5,684.0	26.9	24.3	-176.02	1,099.2	-56.5	179.1	148.0	31.03	5.771		
5,900.0	5,740.8	5,906.9	5,781.4	27.4	24.8	-176.01	1,121.6	-57.7	181.6	150.0	31.60	5.748		
5,947.8	5,787.1	5,954.6	5,827.9	27.7	25.0	-176.00	1,132.3	-58.2	182.8	151.0	31.87	5.738		
6,000.0	5,837.8	6,006.8	5,878.8	27.9	25.3	-175.98	1,144.0	-58.8	183.7	151.5	32.16	5.712		
6,100.0	5,935.4	6,105.7	5,975.2	28.2	25.7	-175.89	1,166.1	-59.9	182.8	150.1	32.66	5.595		
6,200.0	6,033.8	6,200.0	6,067.5	28.6	26.0	-175.78	1,185.1	-60.9	180.5	147.5	33.05	5.461		
6,300.0	6,132.7	6,293.8	6,160.0	28.8	26.3	-175.67	1,201.0	-61.7	178.1	144.7	33.38	5.335		
6,400.0	6,232.1	6,388.0	6,253.3	29.1	26.6	-175.56	1,213.9	-62.3	175.4	141.8	33.64	5.215		
6,500.0	6,331.8	6,482.3	6,347.0	29.3	26.8	-175.45	1,223.8	-62.8	172.6	138.7	33.84	5.100		
6,600.0	6,431.7	6,576.6	6,441.1	29.4	27.0	-175.35	1,230.6	-63.1	169.5	135.6	33.97	4.990		
6,668.3	6,500.0	6,641.1	6,505.5	29.5	27.0	-177.57	1,233.4	-63.3	167.3	111.0	56.29	2.973		
6,700.0	6,531.7	6,671.0	6,535.5	29.5	27.1	-177.55	1,234.2	-63.3	166.5	110.1	56.36	2.953		
6,799.1	6,630.8	6,766.4	6,630.8	29.6	27.2	-177.52	1,235.0	-63.4	165.7	109.1	56.57	2.929		
6,850.0	6,681.7	6,817.3	6,681.7	29.7	27.3	-86.97	1,235.0	-63.4	165.6	131.0	34.55	4.793		
6,900.0	6,731.4	6,866.9	6,731.3	29.7	27.3	-88.64	1,235.0	-63.8	165.4	130.8	34.62	4.778		
6,937.6	6,768.5	6,904.1	6,768.5	29.7	27.4	-90.01	1,234.9	-66.1	165.4	130.6	34.71	4.763		
6,950.0	6,780.6	6,916.5	6,780.8	29.8	27.4	-90.46	1,234.9	-67.3	165.4	130.6	34.76	4.757		
7,000.0	6,829.1	6,966.5	6,830.3	29.8	27.4	-92.28	1,234.7	-74.2	165.5	130.5	34.98	4.731		
7,050.0	6,876.6	7,016.9	6,879.5	29.9	27.5	-94.10	1,234.5	-84.7	165.8	130.5	35.26	4.702		
7,100.0	6,922.9	7,067.6	6,928.3	29.9	27.6	-95.89	1,234.2	-98.7	166.2	130.7	35.58	4.672		
7,150.0	6,967.9	7,118.8	6,976.3	30.0	27.6	-97.65	1,233.9	-116.3	166.8	130.9	35.92	4.644		
7,200.0	7,011.1	7,170.3	7,023.3	30.1	27.7	-99.37	1,233.4	-137.5	167.6	131.3	36.28	4.620		
7,250.0	7,052.5	7,222.2	7,068.9	30.2	27.8	-101.03	1,232.9	-162.2	168.5	131.8	36.63	4.600		
7,300.0	7,091.9	7,274.5	7,113.0	30.3	27.9	-102.62	1,232.3	-190.3	169.5	132.5	36.98	4.583		
7,350.0	7,129.0	7,327.2	7,155.2	30.4	28.0	-104.14	1,231.7	-221.8	170.5	133.2	37.34	4.567		
7,400.0	7,163.7	7,380.3	7,195.3	30.5	28.1	-105.58	1,231.0	-256.6	171.7	133.9	37.74	4.548		
7,450.0	7,195.7	7,433.7	7,232.9	30.6	28.3	-106.92	1,230.2	-294.5	172.8	134.6	38.20	4.524		
7,500.0	7,225.1	7,487.5	7,267.8	30.8	28.4	-108.17	1,229.3	-335.4	174.0	135.3	38.76	4.490		
7,550.0	7,251.5	7,541.6	7,299.7	31.0	28.6	-109.32	1,228.4	-379.1	175.2	135.8	39.44	4.442		
7,600.0	7,274.9	7,596.1	7,328.4	31.2	28.9	-110.37	1,227.5	-425.4	176.4	136.1	40.30	4.376		
7,650.0	7,295.2	7,650.8	7,353.6	31.5	29.2	-111.30	1,226.5	-473.9	177.4	136.1	41.35	4.291		
7,700.0	7,312.2	7,705.8	7,375.1	31.8	29.5	-112.13	1,225.4	-524.5	178.5	135.8	42.64	4.185		
7,750.0	7,326.0	7,761.0	7,392.8	32.1	29.9	-112.83	1,224.4	-576.8	179.3	135.2	44.16	4.062		
7,800.0	7,336.3	7,816.4	7,406.4	32.5	30.4	-113.43	1,223.3	-630.5	180.1	134.2	45.91	3.923		
7,850.0	7,343.2	7,872.0	7,415.8	33.0	30.9	-113.90	1,222.1	-685.3	180.8	132.9	47.90	3.774		
7,900.0	7,346.6	7,927.8	7,421.0	33.5	31.5	-114.26	1,221.0	-740.8	181.3	131.2	50.09	3.618		
7,927.7	7,347.0	7,958.7	7,422.0	33.8	31.9	-114.40	1,220.3	-771.7	181.5	130.1	51.38	3.531		
7,927.7	7,347.0	7,958.7	7,422.0	33.8	31.9	-114.40	1,220.3	-771.7	181.5	130.1	51.38	3.531		
7,928.4	7,347.0	7,959.5	7,422.0	33.8	31.9	-114.40	1,220.3	-772.4	181.5	130.0	51.41	3.530		
8,000.0	7,346.6	8,032.1	7,421.8	34.7	32.9	-114.45	1,218.8	-845.0	181.5	127.5	54.01	3.361		
8,100.0	7,346.1	8,132.1	7,421.4	36.0	34.4	-114.49	1,216.8	-945.0	181.6	123.8	57.80	3.141		
8,200.0	7,345.6	8,232.1	7,421.0	37.6	36.1	-114.53	1,214.7	-1,045.0	181.6	119.8	61.79	2.939		
8,300.0	7,345.1	8,332.1	7,420.7	39.4	37.9	-114.56	1,212.6	-1,144.9	181.7	115.7	65.94	2.755		
8,400.0	7,344.6	8,432.1	7,420.3	41.3	39.9	-114.60	1,210.6	-1,244.9	181.7	111.5	70.21	2.588		
8,500.0	7,344.1	8,532.1	7,419.9	43.3	42.1	-114.64	1,208.5	-1,344.9	181.8	107.2	74.59	2.437		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton B-29-30HC - Wellbore #1 - Plan #1 (1-28-16)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,600.0	7,343.6	8,632.1	7,419.5	45.4	44.3	-114.68	1,206.4	-1,444.9	181.8	102.8	79.06	2.300	
8,700.0	7,343.1	8,732.1	7,419.2	47.6	46.6	-114.71	1,204.4	-1,544.8	181.9	98.3	83.60	2.176	
8,800.0	7,342.6	8,832.1	7,418.8	49.9	48.9	-114.75	1,202.3	-1,644.8	181.9	93.7	88.20	2.063	
8,900.0	7,342.1	8,932.1	7,418.4	52.3	51.3	-114.79	1,200.2	-1,744.8	182.0	89.1	92.86	1.960	
9,000.0	7,341.6	9,032.1	7,418.1	54.7	53.8	-114.83	1,198.2	-1,844.8	182.0	84.5	97.56	1.866	
9,100.0	7,341.1	9,132.1	7,417.7	57.1	56.3	-114.86	1,196.1	-1,944.8	182.1	79.8	102.29	1.780	
9,200.0	7,340.6	9,232.1	7,417.3	59.6	58.8	-114.90	1,194.0	-2,044.7	182.1	75.1	107.06	1.701	
9,300.0	7,340.1	9,332.1	7,417.0	62.1	61.3	-114.94	1,192.0	-2,144.7	182.2	70.3	111.86	1.629	
9,400.0	7,339.6	9,432.1	7,416.6	64.7	63.9	-114.97	1,189.9	-2,244.7	182.2	65.6	116.67	1.562	
9,500.0	7,339.1	9,532.1	7,416.2	67.2	66.5	-115.01	1,187.8	-2,344.7	182.3	60.8	121.51	1.500	
9,600.0	7,338.6	9,632.1	7,415.8	69.8	69.1	-115.05	1,185.8	-2,444.6	182.3	56.0	126.37	1.443 Level 3	
9,700.0	7,338.1	9,732.1	7,415.5	72.4	71.7	-115.09	1,183.7	-2,544.6	182.4	51.2	131.25	1.390 Level 3	
9,800.0	7,337.6	9,832.1	7,415.1	75.0	74.4	-115.12	1,181.6	-2,644.6	182.5	46.3	136.13	1.340 Level 3	
9,900.0	7,337.1	9,932.1	7,414.7	77.7	77.0	-115.16	1,179.6	-2,744.6	182.5	41.5	141.03	1.294 Level 3	
10,000.0	7,336.6	10,032.1	7,414.4	80.3	79.7	-115.20	1,177.5	-2,844.6	182.6	36.6	145.94	1.251 Level 3	
10,100.0	7,336.1	10,132.1	7,414.0	83.0	82.4	-115.24	1,175.4	-2,944.5	182.6	31.8	150.86	1.210 Level 2	
10,200.0	7,335.6	10,232.1	7,413.6	85.6	85.0	-115.27	1,173.4	-3,044.5	182.7	26.9	155.79	1.173 Level 2	
10,300.0	7,335.1	10,332.1	7,413.2	88.3	87.7	-115.31	1,171.3	-3,144.5	182.7	22.0	160.72	1.137 Level 2	
10,400.0	7,334.6	10,432.1	7,412.9	91.0	90.4	-115.35	1,169.2	-3,244.5	182.8	17.1	165.66	1.103 Level 2	
10,500.0	7,334.1	10,532.1	7,412.5	93.7	93.1	-115.38	1,167.2	-3,344.4	182.8	12.2	170.60	1.072 Level 2	
10,600.0	7,333.6	10,632.1	7,412.1	96.4	95.8	-115.42	1,165.1	-3,444.4	182.9	7.3	175.55	1.042 Level 2	
10,700.0	7,333.1	10,732.1	7,411.8	99.1	98.6	-115.46	1,163.0	-3,544.4	182.9	2.4	180.50	1.013 Level 2	
10,800.0	7,332.6	10,832.1	7,411.4	101.8	101.3	-115.50	1,161.0	-3,644.4	183.0	-2.5	185.46	0.987 Level 1	
10,900.0	7,332.1	10,932.1	7,411.0	104.5	104.0	-115.53	1,158.9	-3,744.4	183.0	-7.4	190.42	0.961 Level 1	
11,000.0	7,331.6	11,032.1	7,410.7	107.2	106.7	-115.57	1,156.8	-3,844.3	183.1	-12.3	195.38	0.937 Level 1	
11,100.0	7,331.1	11,132.1	7,410.3	110.0	109.5	-115.61	1,154.8	-3,944.3	183.1	-17.2	200.34	0.914 Level 1	
11,200.0	7,330.6	11,232.1	7,409.9	112.7	112.2	-115.64	1,152.7	-4,044.3	183.2	-22.1	205.31	0.892 Level 1	
11,300.0	7,330.1	11,332.1	7,409.5	115.4	114.9	-115.68	1,150.6	-4,144.3	183.3	-27.0	210.27	0.872 Level 1	
11,400.0	7,329.6	11,432.1	7,409.2	118.2	117.7	-115.72	1,148.6	-4,244.3	183.3	-31.9	215.24	0.852 Level 1	
11,500.0	7,329.1	11,532.1	7,408.8	120.9	120.4	-115.75	1,146.5	-4,344.2	183.4	-36.8	220.21	0.833 Level 1	
11,600.0	7,328.6	11,632.1	7,408.4	123.6	123.2	-115.79	1,144.4	-4,444.2	183.4	-41.8	225.18	0.815 Level 1	
11,700.0	7,328.1	11,732.1	7,408.1	126.4	125.9	-115.83	1,142.4	-4,544.2	183.5	-46.7	230.14	0.797 Level 1	
11,800.0	7,327.6	11,832.1	7,407.7	129.1	128.7	-115.87	1,140.3	-4,644.2	183.5	-51.6	235.11	0.781 Level 1	
11,900.0	7,327.1	11,932.1	7,407.3	131.9	131.5	-115.90	1,138.2	-4,744.1	183.6	-56.5	240.08	0.765 Level 1	
12,000.0	7,326.6	12,032.1	7,407.0	134.6	134.2	-115.94	1,136.2	-4,844.1	183.6	-61.4	245.05	0.749 Level 1	
12,100.0	7,326.1	12,132.1	7,406.6	137.4	137.0	-115.98	1,134.1	-4,944.1	183.7	-66.3	250.02	0.735 Level 1	
12,200.0	7,325.6	12,232.1	7,406.2	140.2	139.7	-116.01	1,132.0	-5,044.1	183.7	-71.2	254.98	0.721 Level 1	
12,300.0	7,325.1	12,332.1	7,405.8	142.9	142.5	-116.05	1,130.0	-5,144.1	183.8	-76.2	259.95	0.707 Level 1	
12,400.0	7,324.6	12,432.1	7,405.5	145.7	145.3	-116.09	1,127.9	-5,244.0	183.9	-81.1	264.92	0.694 Level 1	
12,500.0	7,324.1	12,532.1	7,405.1	148.4	148.0	-116.12	1,125.8	-5,344.0	183.9	-86.0	269.88	0.681 Level 1	
12,600.0	7,323.6	12,632.1	7,404.7	151.2	150.8	-116.16	1,123.8	-5,444.0	184.0	-90.9	274.84	0.669 Level 1	
12,700.0	7,323.1	12,732.1	7,404.4	154.0	153.6	-116.20	1,121.7	-5,544.0	184.0	-95.8	279.81	0.658 Level 1	
12,800.0	7,322.6	12,832.1	7,404.0	156.7	156.3	-116.23	1,119.6	-5,643.9	184.1	-100.7	284.77	0.646 Level 1	
12,900.0	7,322.1	12,932.1	7,403.6	159.5	159.1	-116.27	1,117.6	-5,743.9	184.1	-105.6	289.73	0.636 Level 1	
13,000.0	7,321.6	13,032.1	7,403.2	162.3	161.9	-116.31	1,115.5	-5,843.9	184.2	-110.5	294.68	0.625 Level 1	
13,100.0	7,321.1	13,132.1	7,402.9	165.1	164.7	-116.34	1,113.4	-5,943.9	184.2	-115.4	299.64	0.615 Level 1	
13,200.0	7,320.6	13,232.1	7,402.5	167.8	167.4	-116.38	1,111.4	-6,043.9	184.3	-120.3	304.59	0.605 Level 1	
13,300.0	7,320.1	13,332.1	7,402.1	170.6	170.2	-116.42	1,109.3	-6,143.8	184.3	-125.2	309.55	0.596 Level 1	
13,400.0	7,319.6	13,432.1	7,401.8	173.4	173.0	-116.45	1,107.3	-6,243.8	184.4	-130.1	314.50	0.586 Level 1	
13,500.0	7,319.1	13,532.1	7,401.4	176.2	175.8	-116.49	1,105.2	-6,343.8	184.5	-135.0	319.45	0.577 Level 1	
13,600.0	7,318.6	13,632.1	7,401.0	178.9	178.6	-116.52	1,103.1	-6,443.8	184.5	-139.9	324.40	0.569 Level 1	
13,700.0	7,318.1	13,732.1	7,400.7	181.7	181.3	-116.56	1,101.1	-6,543.7	184.6	-144.8	329.34	0.560 Level 1	

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton B-29-30HC - Wellbore #1 - Plan #1 (1-28-16)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,800.0	7,317.6	13,832.1	7,400.3	184.5	184.1	-116.60	1,099.0	-6,643.7	184.6	-149.7	334.28	0.552 Level 1	
13,900.0	7,317.1	13,932.1	7,399.9	187.3	186.9	-116.63	1,096.9	-6,743.7	184.7	-154.5	339.23	0.544 Level 1	
14,000.0	7,316.6	14,032.1	7,399.5	190.0	189.7	-116.67	1,094.9	-6,843.7	184.7	-159.4	344.16	0.537 Level 1	
14,100.0	7,316.1	14,132.1	7,399.2	192.8	192.5	-116.71	1,092.8	-6,943.7	184.8	-164.3	349.10	0.529 Level 1	
14,200.0	7,315.6	14,232.1	7,398.8	195.6	195.3	-116.74	1,090.7	-7,043.6	184.9	-169.2	354.04	0.522 Level 1	
14,300.0	7,315.1	14,332.1	7,398.4	198.4	198.0	-116.78	1,088.7	-7,143.6	184.9	-174.1	358.97	0.515 Level 1	
14,400.0	7,314.6	14,432.1	7,398.1	201.2	200.8	-116.82	1,086.6	-7,243.6	185.0	-178.9	363.90	0.508 Level 1	
14,500.0	7,314.1	14,532.1	7,397.7	204.0	203.6	-116.85	1,084.5	-7,343.6	185.0	-183.8	368.83	0.502 Level 1	
14,600.0	7,313.6	14,632.1	7,397.3	206.7	206.4	-116.89	1,082.5	-7,443.5	185.1	-188.7	373.75	0.495 Level 1	
14,700.0	7,313.1	14,732.1	7,397.0	209.5	209.2	-116.92	1,080.4	-7,543.5	185.1	-193.5	378.68	0.489 Level 1	
14,800.0	7,312.6	14,832.1	7,396.6	212.3	212.0	-116.96	1,078.3	-7,643.5	185.2	-198.4	383.60	0.483 Level 1	
14,900.0	7,312.1	14,932.1	7,396.2	215.1	214.8	-117.00	1,076.3	-7,743.5	185.2	-203.3	388.52	0.477 Level 1	
15,000.0	7,311.6	15,032.1	7,395.8	217.9	217.6	-117.03	1,074.2	-7,843.5	185.3	-208.1	393.43	0.471 Level 1	
15,100.0	7,311.1	15,132.1	7,395.5	220.7	220.3	-117.07	1,072.1	-7,943.4	185.4	-213.0	398.35	0.465 Level 1	
15,200.0	7,310.6	15,232.1	7,395.1	223.5	223.1	-117.10	1,070.1	-8,043.4	185.4	-217.8	403.26	0.460 Level 1	
15,300.0	7,310.1	15,332.1	7,394.7	226.3	225.9	-117.14	1,068.0	-8,143.4	185.5	-222.7	408.17	0.454 Level 1	
15,400.0	7,309.6	15,432.1	7,394.4	229.0	228.7	-117.18	1,065.9	-8,243.4	185.5	-227.5	413.08	0.449 Level 1	
15,500.0	7,309.1	15,532.1	7,394.0	231.8	231.5	-117.21	1,063.9	-8,343.3	185.6	-232.4	417.98	0.444 Level 1	
15,600.0	7,308.6	15,632.1	7,393.6	234.6	234.3	-117.25	1,061.8	-8,443.3	185.6	-237.2	422.88	0.439 Level 1	
15,700.0	7,308.1	15,732.1	7,393.2	237.4	237.1	-117.28	1,059.7	-8,543.3	185.7	-242.1	427.78	0.434 Level 1	
15,800.0	7,307.6	15,832.1	7,392.9	240.2	239.9	-117.32	1,057.7	-8,643.3	185.8	-246.9	432.68	0.429 Level 1	
15,900.0	7,307.1	15,932.1	7,392.5	243.0	242.7	-117.36	1,055.6	-8,743.3	185.8	-251.8	437.57	0.425 Level 1	
16,000.0	7,306.6	16,032.1	7,392.1	245.8	245.5	-117.39	1,053.5	-8,843.2	185.9	-256.6	442.46	0.420 Level 1	
16,100.0	7,306.1	16,132.1	7,391.8	248.6	248.3	-117.43	1,051.5	-8,943.2	185.9	-261.4	447.35	0.416 Level 1	
16,200.0	7,305.6	16,232.1	7,391.4	251.4	251.1	-117.46	1,049.4	-9,043.2	186.0	-266.2	452.24	0.411 Level 1	
16,300.0	7,305.1	16,332.1	7,391.0	254.2	253.8	-117.50	1,047.3	-9,143.2	186.0	-271.1	457.12	0.407 Level 1	
16,400.0	7,304.6	16,432.1	7,390.7	257.0	256.6	-117.54	1,045.3	-9,243.1	186.1	-275.9	462.00	0.403 Level 1	
16,500.0	7,304.1	16,532.1	7,390.3	259.7	259.4	-117.57	1,043.2	-9,343.1	186.2	-280.7	466.88	0.399 Level 1	
16,600.0	7,303.6	16,632.1	7,389.9	262.5	262.2	-117.61	1,041.1	-9,443.1	186.2	-285.5	471.75	0.395 Level 1	
16,700.0	7,303.1	16,732.1	7,389.5	265.3	265.0	-117.64	1,039.1	-9,543.1	186.3	-290.3	476.62	0.391 Level 1	
16,800.0	7,302.6	16,832.1	7,389.2	268.1	267.8	-117.68	1,037.0	-9,643.1	186.3	-295.2	481.49	0.387 Level 1	
16,900.0	7,302.1	16,932.1	7,388.8	270.9	270.6	-117.72	1,034.9	-9,743.0	186.4	-300.0	486.36	0.383 Level 1	
17,000.0	7,301.6	17,032.1	7,388.4	273.7	273.4	-117.75	1,032.9	-9,843.0	186.5	-304.8	491.22	0.380 Level 1	
17,100.0	7,301.1	17,132.1	7,388.1	276.5	276.2	-117.79	1,030.8	-9,943.0	186.5	-309.6	496.08	0.376 Level 1	
17,200.0	7,300.6	17,232.1	7,387.7	279.3	279.0	-117.82	1,028.7	-10,043.0	186.6	-314.4	500.94	0.372 Level 1	
17,300.0	7,300.1	17,332.1	7,387.3	282.1	281.8	-117.86	1,026.7	-10,142.9	186.6	-319.2	505.80	0.369 Level 1	
17,400.0	7,299.6	17,432.1	7,386.9	284.9	284.6	-117.89	1,024.6	-10,242.9	186.7	-324.0	510.65	0.366 Level 1	
17,500.0	7,299.1	17,532.1	7,386.6	287.7	287.4	-117.93	1,022.5	-10,342.9	186.7	-328.8	515.50	0.362 Level 1	
17,600.0	7,298.6	17,632.1	7,386.2	290.5	290.2	-117.96	1,020.5	-10,442.9	186.8	-333.5	520.35	0.359 Level 1	
17,700.0	7,298.1	17,732.1	7,385.8	293.3	293.0	-118.00	1,018.4	-10,542.9	186.9	-338.3	525.19	0.356 Level 1	
17,800.0	7,297.6	17,832.1	7,385.5	296.1	295.8	-118.04	1,016.3	-10,642.8	186.9	-343.1	530.03	0.353 Level 1	
17,900.0	7,297.1	17,932.1	7,385.1	298.9	298.6	-118.07	1,014.3	-10,742.8	187.0	-347.9	534.87	0.350 Level 1	
17,922.5	7,297.0	17,954.6	7,385.0	299.5	299.2	-118.08	1,013.8	-10,765.3	187.0	-349.0	535.96	0.349 Level 1, ES, SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton C-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-178.40	-29.9	-0.8	29.9					
100.0	100.0	99.0	99.0	0.1	0.1	-178.40	-29.9	-0.8	29.9	29.7	0.22	133.632		
200.0	200.0	199.0	199.0	0.3	0.3	-178.40	-29.9	-0.8	29.9	29.2	0.67	44.470 CC		
300.0	300.0	299.0	299.0	0.6	0.6	-176.27	-29.9	-0.8	31.2	30.1	1.13	27.551		
400.0	399.9	398.9	398.9	0.8	0.8	-176.68	-29.9	-0.8	35.1	33.5	1.60	21.954		
500.0	499.7	498.7	498.7	1.0	1.0	-177.20	-29.9	-0.8	41.6	39.6	2.07	20.145		
600.0	599.3	598.3	598.3	1.3	1.2	-177.70	-29.9	-0.8	50.8	48.2	2.53	20.033		
700.0	698.6	699.2	699.2	1.6	1.5	-178.06	-28.6	-0.9	61.3	58.3	3.00	20.412		
800.0	797.5	800.4	800.3	1.9	1.7	-178.26	-24.6	-1.2	71.7	68.3	3.47	20.693		
900.0	896.1	901.9	901.6	2.2	1.9	-178.36	-18.0	-1.6	82.1	78.2	3.94	20.875		
1,000.0	994.2	1,003.7	1,002.9	2.6	2.2	-178.39	-8.6	-2.2	92.5	88.1	4.41	20.983		
1,100.0	1,091.7	1,105.7	1,104.3	3.0	2.4	-178.38	3.5	-3.0	102.9	98.0	4.89	21.028		
1,160.7	1,150.6	1,167.8	1,165.7	3.3	2.6	-178.36	12.2	-3.6	109.1	103.9	5.19	21.027		
1,200.0	1,188.7	1,208.1	1,205.5	3.5	2.7	-178.33	18.3	-4.0	113.0	107.6	5.38	20.985		
1,300.0	1,285.5	1,310.9	1,306.8	4.0	3.1	-178.23	36.0	-5.2	120.9	115.0	5.89	20.535		
1,400.0	1,382.4	1,412.7	1,406.6	4.5	3.4	-178.07	55.8	-6.5	126.3	119.9	6.40	19.742		
1,500.0	1,479.2	1,512.6	1,504.5	5.0	3.8	-177.92	75.8	-7.8	131.3	124.4	6.92	18.985		
1,600.0	1,576.1	1,612.4	1,602.3	5.5	4.2	-177.78	95.7	-9.1	136.3	128.9	7.44	18.330		
1,700.0	1,672.9	1,712.3	1,700.2	6.0	4.6	-177.65	115.7	-10.4	141.3	133.4	7.97	17.746		
1,800.0	1,769.8	1,812.2	1,798.0	6.5	4.9	-177.53	135.6	-11.7	146.4	137.9	8.50	17.227		
1,900.0	1,866.6	1,912.1	1,895.9	7.0	5.4	-177.42	155.6	-13.1	151.4	142.3	9.03	16.763		
2,000.0	1,963.5	2,011.9	1,993.7	7.5	5.8	-177.31	175.5	-14.4	156.4	146.8	9.57	16.348		
2,100.0	2,060.4	2,111.8	2,091.6	8.0	6.2	-177.21	195.5	-15.7	161.4	151.3	10.11	15.973		
2,200.0	2,157.2	2,211.7	2,189.4	8.5	6.6	-177.12	215.5	-17.0	166.4	155.8	10.65	15.633		
2,300.0	2,254.1	2,311.5	2,287.3	9.0	7.0	-177.03	235.4	-18.3	171.4	160.3	11.19	15.324		
2,400.0	2,350.9	2,411.4	2,385.1	9.5	7.4	-176.95	255.4	-19.6	176.5	164.7	11.73	15.042		
2,500.0	2,447.8	2,511.3	2,483.0	10.0	7.8	-176.87	275.3	-21.0	181.5	169.2	12.28	14.783		
2,600.0	2,544.6	2,611.2	2,580.8	10.5	8.3	-176.79	295.3	-22.3	186.5	173.7	12.82	14.546		
2,700.0	2,641.5	2,711.0	2,678.7	11.0	8.7	-176.72	315.2	-23.6	191.5	178.1	13.37	14.326		
2,800.0	2,738.3	2,810.9	2,776.5	11.5	9.1	-176.66	335.2	-24.9	196.5	182.6	13.92	14.123		
2,900.0	2,835.2	2,910.8	2,874.4	12.0	9.5	-176.59	355.1	-26.2	201.6	187.1	14.46	13.935		
3,000.0	2,932.0	3,010.7	2,972.2	12.6	10.0	-176.53	375.1	-27.5	206.6	191.6	15.01	13.760		
3,100.0	3,028.9	3,110.5	3,070.1	13.1	10.4	-176.48	395.0	-28.9	211.6	196.0	15.56	13.597		
3,200.0	3,125.7	3,210.4	3,167.9	13.6	10.8	-176.42	415.0	-30.2	216.6	200.5	16.11	13.444		
3,300.0	3,222.6	3,310.3	3,265.8	14.1	11.2	-176.37	434.9	-31.5	221.6	205.0	16.66	13.301		
3,400.0	3,319.5	3,410.2	3,363.6	14.6	11.7	-176.32	454.9	-32.8	226.7	209.4	17.21	13.167		
3,500.0	3,416.3	3,510.0	3,461.5	15.1	12.1	-176.27	474.8	-34.1	231.7	213.9	17.77	13.041		
3,600.0	3,513.2	3,609.9	3,559.4	15.6	12.5	-176.22	494.8	-35.4	236.7	218.4	18.32	12.922		
3,700.0	3,610.0	3,709.8	3,657.2	16.1	12.9	-176.18	514.7	-36.7	241.7	222.8	18.87	12.810		
3,800.0	3,706.9	3,809.7	3,755.1	16.6	13.4	-176.14	534.7	-38.1	246.7	227.3	19.42	12.704		
3,900.0	3,803.7	3,909.5	3,852.9	17.2	13.8	-176.10	554.6	-39.4	251.8	231.8	19.98	12.603		
4,000.0	3,900.6	4,009.4	3,950.8	17.7	14.2	-176.06	574.6	-40.7	256.8	236.3	20.53	12.508		
4,100.0	3,997.4	4,109.3	4,048.6	18.2	14.7	-176.02	594.5	-42.0	261.8	240.7	21.08	12.418		
4,200.0	4,094.3	4,209.2	4,146.5	18.7	15.1	-175.99	614.5	-43.3	266.8	245.2	21.64	12.332		
4,300.0	4,191.1	4,309.0	4,244.3	19.2	15.5	-175.95	634.4	-44.6	271.8	249.7	22.19	12.251		
4,400.0	4,288.0	4,408.9	4,342.2	19.7	15.9	-175.92	654.4	-46.0	276.9	254.1	22.74	12.173		
4,500.0	4,384.8	4,508.8	4,440.0	20.2	16.4	-175.89	674.4	-47.3	281.9	258.6	23.30	12.099		
4,600.0	4,481.7	4,608.6	4,537.9	20.7	16.8	-175.86	694.3	-48.6	286.9	263.1	23.85	12.028		
4,700.0	4,578.6	4,708.5	4,635.7	21.3	17.2	-175.83	714.3	-49.9	291.9	267.5	24.41	11.961		
4,800.0	4,675.4	4,808.4	4,733.6	21.8	17.7	-175.80	734.2	-51.2	297.0	272.0	24.96	11.896		
4,900.0	4,772.3	4,908.3	4,831.4	22.3	18.1	-175.77	754.2	-52.5	302.0	276.5	25.52	11.834		
5,000.0	4,869.1	5,008.1	4,929.3	22.8	18.5	-175.74	774.1	-53.9	307.0	280.9	26.07	11.775		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton C-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.0	4,966.0	5,108.0	5,027.1	23.3	18.9	-175.71	794.1	-55.2	312.0	285.4	26.63	11.718		
5,200.0	5,062.8	5,207.9	5,125.0	23.8	19.4	-175.69	814.0	-56.5	317.0	289.9	27.18	11.663		
5,300.0	5,159.7	5,307.8	5,222.8	24.3	19.8	-175.66	834.0	-57.8	322.1	294.3	27.74	11.610		
5,400.0	5,256.5	5,407.6	5,320.7	24.8	20.2	-175.64	853.9	-59.1	327.1	298.8	28.30	11.560		
5,500.0	5,353.4	5,507.5	5,418.5	25.4	20.7	-175.62	873.9	-60.4	332.1	303.3	28.85	11.511		
5,600.0	5,450.2	5,607.4	5,516.4	25.9	21.1	-175.60	893.8	-61.7	337.1	307.7	29.41	11.464		
5,700.0	5,547.1	5,707.3	5,614.2	26.4	21.5	-175.57	913.8	-63.1	342.2	312.2	29.96	11.419		
5,800.0	5,643.9	5,807.1	5,712.1	26.9	22.0	-175.55	933.7	-64.4	347.2	316.7	30.52	11.376		
5,900.0	5,740.8	5,907.0	5,809.9	27.4	22.4	-175.53	953.7	-65.7	352.2	321.1	31.08	11.334		
5,947.8	5,787.1	5,951.3	5,853.4	27.7	22.6	-175.53	962.4	-66.3	354.8	323.4	31.32	11.325		
6,000.0	5,837.8	6,000.0	5,901.2	27.9	22.7	-175.53	971.3	-66.9	357.8	326.2	31.60	11.325		
6,100.0	5,935.4	6,086.5	5,986.6	28.2	23.0	-175.54	985.0	-67.8	363.4	331.4	32.01	11.352		
6,200.0	6,033.8	6,175.1	6,074.5	28.6	23.2	-175.56	996.4	-68.5	368.6	336.2	32.37	11.386		
6,300.0	6,132.7	6,263.6	6,162.5	28.8	23.4	-175.58	1,005.1	-69.1	373.3	340.7	32.67	11.428		
6,400.0	6,232.1	6,351.9	6,250.7	29.1	23.6	-175.61	1,011.0	-69.5	377.7	344.8	32.90	11.478		
6,500.0	6,331.8	6,440.2	6,338.9	29.3	23.7	-175.64	1,014.3	-69.7	381.6	348.5	33.08	11.537		
6,600.0	6,431.7	6,532.0	6,430.7	29.4	23.8	-175.68	1,014.9	-69.7	385.0	351.8	33.20	11.595		
6,668.3	6,500.0	6,600.3	6,499.0	29.5	23.9	-177.99	1,014.9	-69.7	385.8	352.6	53.18	7.254		
6,700.0	6,531.7	6,632.0	6,530.7	29.5	24.0	-177.99	1,014.9	-69.7	385.8	352.6	53.25	7.245		
6,799.1	6,630.8	6,728.7	6,627.3	29.6	24.1	-177.45	1,014.9	-73.4	386.0	352.6	53.44	7.224		
6,850.0	6,681.7	6,777.5	6,675.6	29.7	24.1	-85.51	1,014.7	-79.9	386.4	352.4	34.03	11.354		
6,900.0	6,731.4	6,825.1	6,722.2	29.7	24.2	-84.81	1,014.5	-89.5	386.8	352.5	34.26	11.289		
6,950.0	6,780.6	6,872.4	6,767.8	29.8	24.3	-84.12	1,014.3	-102.0	387.3	352.7	34.51	11.221		
7,000.0	6,829.1	6,919.4	6,812.2	29.8	24.4	-83.47	1,013.9	-117.5	387.7	353.0	34.78	11.150		
7,050.0	6,876.6	6,966.2	6,855.3	29.9	24.4	-82.85	1,013.6	-135.7	388.2	353.2	35.06	11.074		
7,100.0	6,922.9	7,012.8	6,896.9	29.9	24.5	-82.27	1,013.1	-156.6	388.7	353.4	35.36	10.994		
7,150.0	6,967.9	7,059.1	6,936.9	30.0	24.6	-81.72	1,012.7	-180.0	389.3	353.6	35.69	10.907		
7,200.0	7,011.1	7,105.3	6,975.1	30.1	24.7	-81.21	1,012.1	-205.8	389.8	353.7	36.05	10.812		
7,250.0	7,052.5	7,150.0	7,010.5	30.2	24.8	-80.75	1,011.6	-233.2	390.3	353.8	36.44	10.711		
7,300.0	7,091.9	7,197.0	7,045.8	30.3	25.0	-80.31	1,010.9	-264.3	390.8	353.9	36.89	10.593		
7,350.0	7,129.0	7,242.7	7,078.0	30.4	25.1	-79.93	1,010.2	-296.6	391.2	353.8	37.38	10.464		
7,400.0	7,163.7	7,288.2	7,108.0	30.5	25.3	-79.59	1,009.5	-330.8	391.6	353.7	37.94	10.321		
7,450.0	7,195.7	7,333.6	7,135.7	30.6	25.5	-79.30	1,008.8	-366.7	392.0	353.4	38.57	10.163		
7,500.0	7,225.1	7,378.9	7,161.1	30.8	25.7	-79.06	1,008.0	-404.3	392.3	353.0	39.28	9.987		
7,550.0	7,251.5	7,424.1	7,183.9	31.0	25.9	-78.86	1,007.2	-443.3	392.5	352.5	40.07	9.796		
7,600.0	7,274.9	7,469.3	7,204.3	31.2	26.2	-78.71	1,006.4	-483.6	392.7	351.8	40.96	9.587		
7,650.0	7,295.2	7,514.4	7,222.0	31.5	26.6	-78.61	1,005.5	-525.1	392.9	350.9	41.95	9.364		
7,700.0	7,312.2	7,559.5	7,237.1	31.8	26.9	-78.56	1,004.7	-567.6	392.9	349.9	43.05	9.128		
7,750.0	7,326.0	7,604.6	7,249.4	32.1	27.4	-78.56	1,003.8	-611.0	392.9	348.7	44.24	8.881		
7,800.0	7,336.3	7,650.0	7,259.1	32.5	27.9	-78.61	1,002.9	-655.3	392.8	347.3	45.55	8.624		
7,850.0	7,343.2	7,694.9	7,265.8	33.0	28.4	-78.71	1,001.9	-699.6	392.7	345.8	46.95	8.365		
7,900.0	7,346.6	7,740.0	7,269.8	33.5	29.0	-78.86	1,001.0	-744.6	392.5	344.1	48.44	8.103		
7,927.7	7,347.0	7,765.1	7,270.8	33.8	29.4	-78.96	1,000.5	-769.6	392.4	343.1	49.30	7.958		
7,927.7	7,347.0	7,765.1	7,270.8	33.8	29.4	-78.96	1,000.5	-769.6	392.4	343.1	49.30	7.958		
7,928.4	7,347.0	7,765.7	7,270.9	33.8	29.4	-78.96	1,000.5	-770.2	392.4	343.0	49.33	7.954		
7,955.0	7,346.9	7,790.3	7,271.0	34.1	29.7	-78.99	1,000.0	-794.8	392.3	342.0	50.33	7.794		
8,000.0	7,346.6	7,835.2	7,270.7	34.7	30.4	-78.99	999.1	-839.7	392.3	340.2	52.12	7.527		
8,100.0	7,346.1	7,935.2	7,270.1	36.0	32.2	-78.97	997.0	-939.7	392.3	336.1	56.26	6.974		
8,200.0	7,345.6	8,035.2	7,269.5	37.6	34.0	-78.96	994.9	-1,039.7	392.3	331.7	60.61	6.473		
8,300.0	7,345.1	8,135.2	7,268.9	39.4	36.1	-78.94	992.8	-1,139.7	392.4	327.2	65.15	6.023		
8,400.0	7,344.6	8,235.2	7,268.3	41.3	38.2	-78.93	990.8	-1,239.6	392.4	322.6	69.82	5.620		
8,500.0	7,344.1	8,335.2	7,267.7	43.3	40.5	-78.92	988.7	-1,339.6	392.4	317.8	74.61	5.260		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Thornton 28-H Pad Sec.28-T7N-R66W - Thornton C-29-30HN - Wellbore #1 - Plan #1 (1-28-16)											Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
8,600.0	7,343.6	8,435.2	7,267.1	45.4	42.8	-78.90	986.6	-1,439.6	392.4	312.9	79.49	4.937			
8,700.0	7,343.1	8,535.2	7,266.5	47.6	45.2	-78.89	984.6	-1,539.6	392.4	308.0	84.44	4.647			
8,800.0	7,342.6	8,635.2	7,265.9	49.9	47.6	-78.87	982.5	-1,639.5	392.5	303.0	89.46	4.387			
8,900.0	7,342.1	8,735.2	7,265.3	52.3	50.1	-78.86	980.4	-1,739.5	392.5	297.9	94.54	4.151			
9,000.0	7,341.6	8,835.2	7,264.7	54.7	52.6	-78.84	978.4	-1,839.5	392.5	292.8	99.66	3.938			
9,100.0	7,341.1	8,935.2	7,264.1	57.1	55.1	-78.83	976.3	-1,939.5	392.5	287.7	104.82	3.745			
9,200.0	7,340.6	9,035.2	7,263.5	59.6	57.7	-78.81	974.2	-2,039.4	392.5	282.5	110.01	3.568			
9,300.0	7,340.1	9,135.2	7,262.9	62.1	60.3	-78.80	972.2	-2,139.4	392.5	277.3	115.23	3.407			
9,400.0	7,339.6	9,235.2	7,262.3	64.7	62.9	-78.78	970.1	-2,239.4	392.6	272.1	120.48	3.258			
9,500.0	7,339.1	9,335.2	7,261.7	67.2	65.5	-78.77	968.0	-2,339.4	392.6	266.8	125.74	3.122			
9,600.0	7,338.6	9,435.2	7,261.1	69.8	68.1	-78.76	966.0	-2,439.4	392.6	261.6	131.03	2.996			
9,700.0	7,338.1	9,535.2	7,260.5	72.4	70.8	-78.74	963.9	-2,539.3	392.6	256.3	136.33	2.880			
9,800.0	7,337.6	9,635.2	7,259.9	75.0	73.5	-78.73	961.8	-2,639.3	392.6	251.0	141.65	2.772			
9,900.0	7,337.1	9,735.2	7,259.3	77.7	76.1	-78.71	959.8	-2,739.3	392.7	245.7	146.98	2.671			
10,000.0	7,336.6	9,835.2	7,258.7	80.3	78.8	-78.70	957.7	-2,839.3	392.7	240.3	152.32	2.578			
10,100.0	7,336.1	9,935.2	7,258.1	83.0	81.5	-78.68	955.6	-2,939.2	392.7	235.0	157.68	2.490			
10,200.0	7,335.6	10,035.2	7,257.5	85.6	84.2	-78.67	953.6	-3,039.2	392.7	229.7	163.04	2.409			
10,300.0	7,335.1	10,135.2	7,256.9	88.3	86.9	-78.65	951.5	-3,139.2	392.7	224.3	168.41	2.332			
10,400.0	7,334.6	10,235.2	7,256.3	91.0	89.7	-78.64	949.4	-3,239.2	392.7	219.0	173.79	2.260			
10,500.0	7,334.1	10,335.2	7,255.7	93.7	92.4	-78.63	947.4	-3,339.1	392.8	213.6	179.17	2.192			
10,600.0	7,333.6	10,435.2	7,255.1	96.4	95.1	-78.61	945.3	-3,439.1	392.8	208.2	184.56	2.128			
10,700.0	7,333.1	10,535.2	7,254.5	99.1	97.8	-78.60	943.2	-3,539.1	392.8	202.8	189.96	2.068			
10,800.0	7,332.6	10,635.2	7,253.9	101.8	100.6	-78.58	941.2	-3,639.1	392.8	197.5	195.36	2.011			
10,900.0	7,332.1	10,735.2	7,253.3	104.5	103.3	-78.57	939.1	-3,739.1	392.8	192.1	200.77	1.957			
11,000.0	7,331.6	10,835.2	7,252.7	107.2	106.1	-78.55	937.0	-3,839.0	392.9	186.7	206.18	1.905			
11,100.0	7,331.1	10,935.2	7,252.1	110.0	108.8	-78.54	935.0	-3,939.0	392.9	181.3	211.59	1.857			
11,200.0	7,330.6	11,035.2	7,251.5	112.7	111.6	-78.52	932.9	-4,039.0	392.9	175.9	217.01	1.810			
11,300.0	7,330.1	11,135.2	7,250.9	115.4	114.3	-78.51	930.8	-4,139.0	392.9	170.5	222.43	1.766			
11,400.0	7,329.6	11,235.2	7,250.3	118.2	117.1	-78.50	928.8	-4,238.9	392.9	165.1	227.86	1.724			
11,500.0	7,329.1	11,335.2	7,249.7	120.9	119.8	-78.48	926.7	-4,338.9	393.0	159.7	233.28	1.684			
11,600.0	7,328.6	11,435.2	7,249.1	123.6	122.6	-78.47	924.6	-4,438.9	393.0	154.3	238.71	1.646			
11,700.0	7,328.1	11,535.2	7,248.5	126.4	125.3	-78.45	922.5	-4,538.9	393.0	148.8	244.15	1.610			
11,800.0	7,327.6	11,635.2	7,247.9	129.1	128.1	-78.44	920.5	-4,638.8	393.0	143.4	249.58	1.575			
11,900.0	7,327.1	11,735.2	7,247.3	131.9	130.9	-78.42	918.4	-4,738.8	393.0	138.0	255.02	1.541			
12,000.0	7,326.6	11,835.2	7,246.7	134.6	133.6	-78.41	916.3	-4,838.8	393.0	132.6	260.45	1.509			
12,100.0	7,326.1	11,935.2	7,246.1	137.4	136.4	-78.39	914.3	-4,938.8	393.1	127.2	265.89	1.478 Level 3			
12,200.0	7,325.6	12,035.2	7,245.5	140.2	139.2	-78.38	912.2	-5,038.8	393.1	121.8	271.33	1.449 Level 3			
12,300.0	7,325.1	12,135.2	7,244.9	142.9	141.9	-78.37	910.1	-5,138.7	393.1	116.3	276.78	1.420 Level 3			
12,400.0	7,324.6	12,235.2	7,244.3	145.7	144.7	-78.35	908.1	-5,238.7	393.1	110.9	282.22	1.393 Level 3			
12,500.0	7,324.1	12,335.2	7,243.7	148.4	147.5	-78.34	906.0	-5,338.7	393.1	105.5	287.66	1.367 Level 3			
12,600.0	7,323.6	12,435.2	7,243.1	151.2	150.3	-78.32	903.9	-5,438.7	393.2	100.1	293.11	1.341 Level 3			
12,700.0	7,323.1	12,535.2	7,242.5	154.0	153.0	-78.31	901.9	-5,538.6	393.2	94.6	298.56	1.317 Level 3			
12,800.0	7,322.6	12,635.2	7,241.9	156.7	155.8	-78.29	899.8	-5,638.6	393.2	89.2	304.00	1.293 Level 3			
12,900.0	7,322.1	12,735.2	7,241.2	159.5	158.6	-78.28	897.7	-5,738.6	393.2	83.8	309.45	1.271 Level 3			
13,000.0	7,321.6	12,835.2	7,240.6	162.3	161.4	-78.27	895.7	-5,838.6	393.2	78.3	314.90	1.249 Level 2			
13,100.0	7,321.1	12,935.2	7,240.0	165.1	164.2	-78.25	893.6	-5,938.5	393.3	72.9	320.35	1.228 Level 2			
13,200.0	7,320.6	13,035.2	7,239.4	167.8	166.9	-78.24	891.5	-6,038.5	393.3	67.5	325.80	1.207 Level 2			
13,300.0	7,320.1	13,135.2	7,238.8	170.6	169.7	-78.22	889.5	-6,138.5	393.3	62.0	331.25	1.187 Level 2			
13,400.0	7,319.6	13,235.2	7,238.2	173.4	172.5	-78.21	887.4	-6,238.5	393.3	56.6	336.70	1.168 Level 2			
13,500.0	7,319.1	13,335.2	7,237.6	176.2	175.3	-78.19	885.3	-6,338.4	393.3	51.2	342.15	1.150 Level 2			
13,600.0	7,318.6	13,435.2	7,237.0	178.9	178.1	-78.18	883.3	-6,438.4	393.4	45.7	347.61	1.132 Level 2			
13,700.0	7,318.1	13,535.2	7,236.4	181.7	180.9	-78.16	881.2	-6,538.4	393.4	40.3	353.06	1.114 Level 2			

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton C-29-30HN - Wellbore #1 - Plan #1 (1-28-16)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,800.0	7,317.6	13,635.2	7,235.8	184.5	183.6	-78.15	879.1	-6,638.4	393.4	34.9	358.51	1.097	Level 2
13,900.0	7,317.1	13,735.2	7,235.2	187.3	186.4	-78.14	877.1	-6,738.4	393.4	29.4	363.96	1.081	Level 2
14,000.0	7,316.6	13,835.2	7,234.6	190.0	189.2	-78.12	875.0	-6,838.3	393.4	24.0	369.42	1.065	Level 2
14,100.0	7,316.1	13,935.2	7,234.0	192.8	192.0	-78.11	872.9	-6,938.3	393.5	18.6	374.87	1.050	Level 2
14,200.0	7,315.6	14,035.2	7,233.4	195.6	194.8	-78.09	870.9	-7,038.3	393.5	13.1	380.33	1.035	Level 2
14,300.0	7,315.1	14,135.2	7,232.8	198.4	197.6	-78.08	868.8	-7,138.3	393.5	7.7	385.78	1.020	Level 2
14,400.0	7,314.6	14,235.2	7,232.2	201.2	200.4	-78.06	866.7	-7,238.2	393.5	2.3	391.23	1.006	Level 2
14,500.0	7,314.1	14,335.2	7,231.6	204.0	203.2	-78.05	864.7	-7,338.2	393.5	-3.2	396.69	0.992	Level 1
14,600.0	7,313.6	14,435.2	7,231.0	206.7	206.0	-78.03	862.6	-7,438.2	393.6	-8.6	402.14	0.979	Level 1
14,700.0	7,313.1	14,535.2	7,230.4	209.5	208.7	-78.02	860.5	-7,538.2	393.6	-14.0	407.60	0.966	Level 1
14,800.0	7,312.6	14,635.2	7,229.8	212.3	211.5	-78.01	858.5	-7,638.1	393.6	-19.5	413.05	0.953	Level 1
14,900.0	7,312.1	14,735.2	7,229.2	215.1	214.3	-77.99	856.4	-7,738.1	393.6	-24.9	418.50	0.941	Level 1
15,000.0	7,311.6	14,835.2	7,228.6	217.9	217.1	-77.98	854.3	-7,838.1	393.6	-30.3	423.96	0.928	Level 1
15,100.0	7,311.1	14,935.2	7,228.0	220.7	219.9	-77.96	852.2	-7,938.1	393.7	-35.8	429.41	0.917	Level 1
15,200.0	7,310.6	15,035.2	7,227.4	223.5	222.7	-77.95	850.2	-8,038.1	393.7	-41.2	434.87	0.905	Level 1
15,300.0	7,310.1	15,135.2	7,226.8	226.3	225.5	-77.93	848.1	-8,138.0	393.7	-46.6	440.32	0.894	Level 1
15,400.0	7,309.6	15,235.2	7,226.2	229.0	228.3	-77.92	846.0	-8,238.0	393.7	-52.1	445.77	0.883	Level 1
15,500.0	7,309.1	15,335.2	7,225.6	231.8	231.1	-77.91	844.0	-8,338.0	393.7	-57.5	451.23	0.873	Level 1
15,600.0	7,308.6	15,435.2	7,225.0	234.6	233.9	-77.89	841.9	-8,438.0	393.8	-62.9	456.68	0.862	Level 1
15,700.0	7,308.1	15,535.2	7,224.4	237.4	236.7	-77.88	839.8	-8,537.9	393.8	-68.4	462.13	0.852	Level 1
15,800.0	7,307.6	15,635.2	7,223.8	240.2	239.5	-77.86	837.8	-8,637.9	393.8	-73.8	467.59	0.842	Level 1
15,900.0	7,307.1	15,735.2	7,223.2	243.0	242.3	-77.85	835.7	-8,737.9	393.8	-79.2	473.04	0.833	Level 1
16,000.0	7,306.6	15,835.2	7,222.6	245.8	245.1	-77.83	833.6	-8,837.9	393.8	-84.7	478.49	0.823	Level 1
16,100.0	7,306.1	15,935.2	7,222.0	248.6	247.8	-77.82	831.6	-8,937.8	393.9	-90.1	483.94	0.814	Level 1
16,200.0	7,305.6	16,035.2	7,221.4	251.4	250.6	-77.80	829.5	-9,037.8	393.9	-95.5	489.39	0.805	Level 1
16,300.0	7,305.1	16,135.2	7,220.8	254.2	253.4	-77.79	827.4	-9,137.8	393.9	-101.0	494.85	0.796	Level 1
16,400.0	7,304.6	16,235.2	7,220.2	257.0	256.2	-77.78	825.4	-9,237.8	393.9	-106.4	500.30	0.787	Level 1
16,500.0	7,304.1	16,335.2	7,219.6	259.7	259.0	-77.76	823.3	-9,337.8	393.9	-111.8	505.75	0.779	Level 1
16,600.0	7,303.6	16,435.2	7,219.0	262.5	261.8	-77.75	821.2	-9,437.7	394.0	-117.2	511.20	0.771	Level 1
16,700.0	7,303.1	16,535.2	7,218.4	265.3	264.6	-77.73	819.2	-9,537.7	394.0	-122.7	516.65	0.763	Level 1
16,800.0	7,302.6	16,635.2	7,217.8	268.1	267.4	-77.72	817.1	-9,637.7	394.0	-128.1	522.10	0.755	Level 1
16,900.0	7,302.1	16,735.2	7,217.2	270.9	270.2	-77.70	815.0	-9,737.7	394.0	-133.5	527.55	0.747	Level 1
17,000.0	7,301.6	16,835.2	7,216.6	273.7	273.0	-77.69	813.0	-9,837.6	394.0	-139.0	533.00	0.739	Level 1
17,100.0	7,301.1	16,935.2	7,216.0	276.5	275.8	-77.68	810.9	-9,937.6	394.1	-144.4	538.45	0.732	Level 1
17,200.0	7,300.6	17,035.2	7,215.4	279.3	278.6	-77.66	808.8	-10,037.6	394.1	-149.8	543.90	0.725	Level 1
17,300.0	7,300.1	17,135.2	7,214.8	282.1	281.4	-77.65	806.8	-10,137.6	394.1	-155.3	549.35	0.717	Level 1
17,400.0	7,299.6	17,235.2	7,214.2	284.9	284.2	-77.63	804.7	-10,237.5	394.1	-160.7	554.80	0.710	Level 1
17,500.0	7,299.1	17,335.2	7,213.6	287.7	287.0	-77.62	802.6	-10,337.5	394.1	-166.1	560.24	0.704	Level 1
17,600.0	7,298.6	17,435.2	7,213.0	290.5	289.8	-77.60	800.6	-10,437.5	394.2	-171.5	565.69	0.697	Level 1
17,700.0	7,298.1	17,535.2	7,212.4	293.3	292.6	-77.59	798.5	-10,537.5	394.2	-177.0	571.14	0.690	Level 1
17,800.0	7,297.6	17,635.2	7,211.8	296.1	295.4	-77.58	796.4	-10,637.4	394.2	-182.4	576.59	0.684	Level 1
17,900.0	7,297.1	17,735.2	7,211.2	298.9	298.2	-77.56	794.4	-10,737.4	394.2	-187.8	582.03	0.677	Level 1
17,922.5	7,297.0	17,757.7	7,211.1	299.5	298.8	-77.56	793.9	-10,759.9	394.2	-189.0	583.26	0.676	Level 1, ES, SF

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton D-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-178.22	-44.8	-1.4	44.8					
100.0	100.0	99.0	99.0	0.1	0.1	-178.22	-44.8	-1.4	44.8	44.6	0.22	200.466		
200.0	200.0	199.0	199.0	0.3	0.3	-178.22	-44.8	-1.4	44.8	44.2	0.67	66.711	CC, ES	
300.0	300.0	299.0	299.0	0.6	0.6	-176.04	-44.8	-1.4	46.1	45.0	1.13	40.754		
400.0	399.9	398.9	398.9	0.8	0.8	-176.35	-44.8	-1.4	50.1	48.5	1.60	31.300		
500.0	499.7	498.7	498.7	1.0	1.0	-176.76	-44.8	-1.4	56.6	54.5	2.07	27.374		
600.0	599.3	598.3	598.3	1.3	1.2	-177.21	-44.8	-1.4	65.7	63.2	2.53	25.926		
700.0	698.6	697.6	697.6	1.6	1.5	-177.62	-44.8	-1.4	77.5	74.5	3.00	25.797		
800.0	797.5	796.5	796.5	1.9	1.7	-177.99	-44.8	-1.4	91.8	88.3	3.47	26.450		
900.0	896.1	897.8	897.8	2.2	1.9	-178.24	-43.6	-1.5	107.5	103.6	3.94	27.290		
1,000.0	994.2	999.7	999.6	2.6	2.1	-178.35	-39.6	-1.9	123.2	118.8	4.41	27.953		
1,100.0	1,091.7	1,101.9	1,101.6	3.0	2.4	-178.37	-32.9	-2.6	138.8	134.0	4.88	28.447		
1,160.7	1,150.6	1,164.2	1,163.7	3.3	2.5	-178.35	-27.5	-3.1	148.3	143.1	5.17	28.677		
1,200.0	1,188.7	1,204.7	1,203.9	3.5	2.6	-178.32	-23.5	-3.5	154.2	148.9	5.36	28.776		
1,300.0	1,285.5	1,308.1	1,306.6	4.0	2.9	-178.21	-11.2	-4.7	167.4	161.6	5.85	28.627		
1,400.0	1,382.4	1,412.3	1,409.7	4.5	3.2	-178.03	3.9	-6.3	177.9	171.6	6.35	28.021		
1,500.0	1,479.2	1,515.0	1,510.8	5.0	3.5	-177.79	21.4	-8.0	185.9	179.1	6.86	27.108		
1,600.0	1,576.1	1,614.7	1,609.0	5.5	3.8	-177.57	38.9	-9.8	193.4	186.1	7.37	26.233		
1,700.0	1,672.9	1,714.4	1,707.1	6.0	4.1	-177.36	56.3	-11.5	200.9	193.1	7.89	25.476		
1,800.0	1,769.8	1,814.1	1,805.3	6.5	4.5	-177.16	73.8	-13.3	208.5	200.0	8.41	24.788		
1,900.0	1,866.6	1,913.8	1,903.5	7.0	4.8	-176.98	91.3	-15.0	216.0	207.0	8.93	24.173		
2,000.0	1,963.5	2,013.5	2,001.6	7.5	5.2	-176.82	108.8	-16.8	223.5	214.0	9.46	23.619		
2,100.0	2,060.4	2,113.3	2,099.8	8.0	5.6	-176.66	126.3	-18.5	231.0	221.0	9.99	23.118		
2,200.0	2,157.2	2,213.0	2,197.9	8.5	5.9	-176.51	143.8	-20.3	238.5	228.0	10.52	22.663		
2,300.0	2,254.1	2,312.7	2,296.1	9.0	6.3	-176.37	161.2	-22.0	246.0	234.9	11.06	22.249		
2,400.0	2,350.9	2,412.4	2,394.2	9.5	6.7	-176.24	178.7	-23.7	253.5	241.9	11.59	21.869		
2,500.0	2,447.8	2,512.1	2,492.4	10.0	7.0	-176.12	196.2	-25.5	261.0	248.9	12.13	21.521		
2,600.0	2,544.6	2,611.8	2,590.5	10.5	7.4	-176.01	213.7	-27.2	268.6	255.9	12.67	21.200		
2,700.0	2,641.5	2,711.6	2,688.7	11.0	7.8	-175.90	231.2	-29.0	276.1	262.9	13.21	20.903		
2,800.0	2,738.3	2,811.3	2,786.9	11.5	8.2	-175.79	248.6	-30.7	283.6	269.8	13.75	20.629		
2,900.0	2,835.2	2,911.0	2,885.0	12.0	8.6	-175.69	266.1	-32.5	291.1	276.8	14.29	20.374		
3,000.0	2,932.0	3,010.7	2,983.2	12.6	8.9	-175.60	283.6	-34.2	298.6	283.8	14.83	20.136		
3,100.0	3,028.9	3,110.4	3,081.3	13.1	9.3	-175.51	301.1	-36.0	306.2	290.8	15.37	19.914		
3,200.0	3,125.7	3,210.1	3,179.5	13.6	9.7	-175.43	318.6	-37.7	313.7	297.8	15.92	19.706		
3,300.0	3,222.6	3,309.9	3,277.6	14.1	10.1	-175.35	336.1	-39.5	321.2	304.7	16.46	19.512		
3,400.0	3,319.5	3,409.6	3,375.8	14.6	10.5	-175.27	353.5	-41.2	328.7	311.7	17.01	19.329		
3,500.0	3,416.3	3,509.3	3,474.0	15.1	10.9	-175.20	371.0	-43.0	336.2	318.7	17.55	19.157		
3,600.0	3,513.2	3,609.0	3,572.1	15.6	11.3	-175.13	388.5	-44.7	343.8	325.7	18.10	18.995		
3,700.0	3,610.0	3,708.7	3,670.3	16.1	11.6	-175.06	406.0	-46.5	351.3	332.6	18.64	18.842		
3,800.0	3,706.9	3,808.4	3,768.4	16.6	12.0	-175.00	423.5	-48.2	358.8	339.6	19.19	18.697		
3,900.0	3,803.7	3,908.1	3,866.6	17.2	12.4	-174.93	440.9	-50.0	366.3	346.6	19.74	18.560		
4,000.0	3,900.6	4,007.9	3,964.7	17.7	12.8	-174.87	458.4	-51.7	373.9	353.6	20.29	18.430		
4,100.0	3,997.4	4,107.6	4,062.9	18.2	13.2	-174.82	475.9	-53.5	381.4	360.6	20.83	18.307		
4,200.0	4,094.3	4,207.3	4,161.0	18.7	13.6	-174.76	493.4	-55.2	388.9	367.5	21.38	18.189		
4,300.0	4,191.1	4,307.0	4,259.2	19.2	14.0	-174.71	510.9	-57.0	396.5	374.5	21.93	18.077		
4,400.0	4,288.0	4,406.7	4,357.4	19.7	14.4	-174.66	528.4	-58.7	404.0	381.5	22.48	17.971		
4,500.0	4,384.8	4,506.4	4,455.5	20.2	14.8	-174.61	545.8	-60.5	411.5	388.5	23.03	17.869		
4,600.0	4,481.7	4,606.2	4,553.7	20.7	15.1	-174.56	563.3	-62.2	419.0	395.5	23.58	17.772		
4,700.0	4,578.6	4,705.9	4,651.8	21.3	15.5	-174.52	580.8	-64.0	426.6	402.4	24.13	17.679		
4,800.0	4,675.4	4,805.6	4,750.0	21.8	15.9	-174.48	598.3	-65.7	434.1	409.4	24.68	17.590		
4,900.0	4,772.3	4,905.3	4,848.1	22.3	16.3	-174.43	615.8	-67.5	441.6	416.4	25.23	17.505		
5,000.0	4,869.1	5,005.0	4,946.3	22.8	16.7	-174.39	633.2	-69.2	449.2	423.4	25.78	17.424		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton D-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.0	4,966.0	5,104.7	5,044.4	23.3	17.1	-174.35	650.7	-71.0	456.7	430.4	26.33	17.345		
5,200.0	5,062.8	5,204.4	5,142.6	23.8	17.5	-174.31	668.2	-72.7	464.2	437.3	26.88	17.270		
5,300.0	5,159.7	5,304.2	5,240.8	24.3	17.9	-174.28	685.7	-74.5	471.7	444.3	27.43	17.198		
5,400.0	5,256.5	5,400.0	5,335.1	24.8	18.2	-174.25	702.2	-76.1	479.6	451.6	27.96	17.153		
5,500.0	5,353.4	5,482.8	5,417.0	25.4	18.5	-174.26	714.4	-77.3	489.9	461.5	28.41	17.243		
5,600.0	5,450.2	5,567.5	5,501.1	25.9	18.7	-174.32	724.4	-78.3	503.1	474.2	28.85	17.436		
5,700.0	5,547.1	5,651.4	5,584.6	26.4	18.9	-174.42	731.9	-79.1	519.2	489.9	29.28	17.728		
5,800.0	5,643.9	5,734.4	5,667.5	26.9	19.0	-174.56	736.9	-79.6	538.1	508.4	29.71	18.114		
5,900.0	5,740.8	5,816.5	5,749.5	27.4	19.1	-174.72	739.5	-79.8	559.8	529.7	30.11	18.589		
5,947.8	5,787.1	5,855.3	5,788.4	27.7	19.2	-174.80	740.0	-79.9	571.1	540.8	30.31	18.845		
6,000.0	5,837.8	5,903.7	5,836.8	27.9	19.3	-174.93	740.0	-79.9	583.6	553.1	30.54	19.107		
6,100.0	5,935.4	6,001.4	5,934.4	28.2	19.4	-175.15	740.0	-79.9	604.9	574.0	30.97	19.531		
6,200.0	6,033.8	6,099.7	6,032.8	28.6	19.5	-175.32	740.0	-79.9	622.9	591.5	31.36	19.861		
6,300.0	6,132.7	6,198.7	6,131.7	28.8	19.7	-175.45	740.0	-79.9	637.4	605.7	31.71	20.102		
6,400.0	6,232.1	6,298.0	6,231.1	29.1	19.8	-175.54	740.0	-79.9	648.4	616.4	32.01	20.259		
6,500.0	6,331.8	6,397.7	6,330.8	29.3	20.0	-175.61	740.0	-79.9	656.0	623.7	32.26	20.335		
6,600.0	6,431.7	6,497.7	6,430.7	29.4	20.1	-175.64	740.0	-79.9	660.1	627.7	32.47	20.333		
6,668.3	6,500.0	6,565.9	6,499.0	29.5	20.2	-177.95	740.0	-79.9	660.9	611.4	49.49	13.356		
6,700.0	6,531.7	6,597.6	6,530.7	29.5	20.3	-177.95	740.0	-79.9	660.9	611.4	49.57	13.334		
6,799.1	6,630.8	6,696.7	6,629.8	29.6	20.4	-177.95	740.0	-79.9	660.9	611.1	49.82	13.266		
6,850.0	6,681.7	6,745.1	6,678.2	29.7	20.5	-86.76	740.0	-81.5	660.9	627.7	33.24	19.885		
6,900.0	6,731.4	6,792.7	6,725.5	29.7	20.6	-86.79	739.9	-86.3	660.9	627.5	33.40	19.786		
6,950.0	6,780.6	6,840.2	6,772.3	29.8	20.7	-86.83	739.7	-94.2	660.9	627.3	33.58	19.678		
7,000.0	6,829.1	6,887.8	6,818.6	29.8	20.7	-86.88	739.5	-105.2	660.9	627.1	33.78	19.562		
7,050.0	6,876.6	6,935.4	6,864.1	29.9	20.8	-86.95	739.2	-119.2	660.8	626.8	34.00	19.433		
7,100.0	6,922.9	6,983.1	6,908.6	29.9	20.9	-87.03	738.8	-136.3	660.8	626.5	34.25	19.291		
7,150.0	6,967.9	7,030.8	6,951.9	30.0	21.0	-87.12	738.4	-156.3	660.7	626.2	34.54	19.131		
7,200.0	7,011.1	7,078.6	6,993.9	30.1	21.1	-87.23	737.9	-179.3	660.6	625.8	34.86	18.949		
7,250.0	7,052.5	7,126.5	7,034.3	30.2	21.3	-87.35	737.4	-204.9	660.6	625.3	35.25	18.742		
7,300.0	7,091.9	7,174.5	7,073.0	30.3	21.4	-87.49	736.8	-233.3	660.5	624.8	35.70	18.503		
7,350.0	7,129.0	7,222.6	7,109.7	30.4	21.6	-87.63	736.2	-264.3	660.4	624.2	36.23	18.230		
7,400.0	7,163.7	7,270.8	7,144.4	30.5	21.8	-87.79	735.5	-297.8	660.4	623.5	36.85	17.919		
7,450.0	7,195.7	7,319.1	7,176.8	30.6	22.0	-87.96	734.7	-333.6	660.3	622.7	37.58	17.568		
7,500.0	7,225.1	7,367.5	7,206.8	30.8	22.2	-88.14	733.9	-371.6	660.2	621.8	38.44	17.177		
7,550.0	7,251.5	7,416.1	7,234.2	31.0	22.5	-88.32	733.1	-411.7	660.2	620.7	39.42	16.747		
7,600.0	7,274.9	7,464.8	7,258.9	31.2	22.9	-88.52	732.2	-453.6	660.1	619.6	40.54	16.284		
7,650.0	7,295.2	7,513.7	7,280.8	31.5	23.3	-88.72	731.3	-497.3	660.0	618.2	41.80	15.792		
7,700.0	7,312.2	7,562.7	7,299.7	31.8	23.8	-88.93	730.4	-542.5	660.0	616.8	43.19	15.280		
7,750.0	7,326.0	7,611.9	7,315.5	32.1	24.4	-89.14	729.4	-589.0	660.0	615.2	44.73	14.755		
7,800.0	7,336.3	7,661.2	7,328.1	32.5	25.0	-89.36	728.4	-636.7	659.9	613.5	46.39	14.227		
7,850.0	7,343.2	7,710.7	7,337.4	33.0	25.7	-89.58	727.4	-685.3	659.9	611.7	48.16	13.702		
7,900.0	7,346.6	7,760.4	7,343.4	33.5	26.5	-89.81	726.4	-734.6	659.9	609.8	50.03	13.189		
7,927.7	7,347.0	7,788.0	7,345.2	33.8	27.0	-89.93	725.8	-762.2	659.9	608.8	51.11	12.911		
7,927.7	7,347.0	7,788.0	7,345.2	33.8	27.0	-89.93	725.8	-762.2	659.9	608.8	51.11	12.911		
7,928.1	7,347.0	7,788.4	7,345.2	33.8	27.0	-89.93	725.8	-762.5	659.9	608.8	51.13	12.907		
7,928.4	7,347.0	7,788.7	7,345.3	33.8	27.0	-89.94	725.8	-762.8	659.9	608.7	51.14	12.904		
8,000.0	7,346.6	7,860.4	7,345.8	34.7	28.3	-90.02	724.3	-834.5	659.9	605.9	54.01	12.218		
8,100.0	7,346.1	7,960.4	7,345.3	36.0	30.2	-90.02	722.2	-934.5	659.9	601.7	58.23	11.333		
8,200.0	7,345.6	8,060.4	7,344.8	37.6	32.2	-90.02	720.2	-1,034.4	659.9	597.2	62.65	10.532		
8,300.0	7,345.1	8,160.4	7,344.3	39.4	34.4	-90.02	718.1	-1,134.4	659.9	592.6	67.26	9.811		
8,400.0	7,344.6	8,260.4	7,343.8	41.3	36.7	-90.02	716.0	-1,234.4	659.9	587.9	72.01	9.164		
8,500.0	7,344.1	8,360.4	7,343.3	43.3	39.0	-90.02	714.0	-1,334.4	659.9	583.0	76.87	8.584		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton D-29-30HN - Wellbore #1 - Plan #1 (1-28-16)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
8,600.0	7,343.6	8,460.4	7,342.8	45.4	41.4	-90.02	711.9	-1,434.3	659.9	578.1	81.83	8.064	
8,700.0	7,343.1	8,560.4	7,342.3	47.6	43.9	-90.02	709.8	-1,534.3	659.9	573.0	86.87	7.596	
8,800.0	7,342.6	8,660.4	7,341.8	49.9	46.4	-90.02	707.7	-1,634.3	659.9	567.9	91.98	7.174	
8,900.0	7,342.1	8,760.4	7,341.3	52.3	48.9	-90.02	705.7	-1,734.3	659.9	562.7	97.14	6.793	
9,000.0	7,341.6	8,860.4	7,340.8	54.7	51.5	-90.02	703.6	-1,834.3	659.9	557.5	102.35	6.447	
9,100.0	7,341.1	8,960.4	7,340.3	57.1	54.1	-90.02	701.5	-1,934.2	659.9	552.3	107.60	6.133	
9,200.0	7,340.6	9,060.4	7,339.8	59.6	56.7	-90.02	699.5	-2,034.2	659.9	547.0	112.89	5.845	
9,300.0	7,340.1	9,160.4	7,339.3	62.1	59.3	-90.02	697.4	-2,134.2	659.9	541.7	118.21	5.583	
9,400.0	7,339.6	9,260.4	7,338.8	64.7	61.9	-90.01	695.3	-2,234.2	659.9	536.3	123.55	5.341	
9,500.0	7,339.1	9,360.4	7,338.3	67.2	64.6	-90.01	693.3	-2,334.1	659.9	531.0	128.91	5.119	
9,600.0	7,338.6	9,460.4	7,337.8	69.8	67.3	-90.01	691.2	-2,434.1	659.9	525.6	134.30	4.914	
9,700.0	7,338.1	9,560.4	7,337.3	72.4	69.9	-90.01	689.1	-2,534.1	659.9	520.2	139.70	4.724	
9,800.0	7,337.6	9,660.4	7,336.8	75.0	72.6	-90.01	687.0	-2,634.1	659.9	514.8	145.12	4.547	
9,900.0	7,337.1	9,760.4	7,336.3	77.7	75.3	-90.01	685.0	-2,734.1	659.9	509.3	150.55	4.383	
10,000.0	7,336.6	9,860.4	7,335.8	80.3	78.0	-90.01	682.9	-2,834.0	659.9	503.9	156.00	4.230	
10,100.0	7,336.1	9,960.4	7,335.3	83.0	80.8	-90.01	680.8	-2,934.0	659.9	498.4	161.46	4.087	
10,200.0	7,335.6	10,060.4	7,334.8	85.6	83.5	-90.01	678.8	-3,034.0	659.9	493.0	166.92	3.953	
10,300.0	7,335.1	10,160.4	7,334.3	88.3	86.2	-90.01	676.7	-3,134.0	659.9	487.5	172.40	3.828	
10,400.0	7,334.6	10,260.4	7,333.8	91.0	88.9	-90.01	674.6	-3,233.9	659.9	482.0	177.89	3.710	
10,500.0	7,334.1	10,360.4	7,333.3	93.7	91.7	-90.01	672.6	-3,333.9	659.9	476.5	183.38	3.599	
10,600.0	7,333.6	10,460.4	7,332.8	96.4	94.4	-90.01	670.5	-3,433.9	659.9	471.0	188.88	3.494	
10,700.0	7,333.1	10,560.4	7,332.3	99.1	97.2	-90.01	668.4	-3,533.9	659.9	465.5	194.39	3.395	
10,800.0	7,332.6	10,660.4	7,331.8	101.8	99.9	-90.01	666.4	-3,633.8	659.9	460.0	199.90	3.301	
10,900.0	7,332.1	10,760.4	7,331.3	104.5	102.7	-90.01	664.3	-3,733.8	659.9	454.5	205.42	3.212	
11,000.0	7,331.6	10,860.4	7,330.8	107.2	105.4	-90.01	662.2	-3,833.8	659.9	449.0	210.94	3.128	
11,100.0	7,331.1	10,960.4	7,330.3	110.0	108.2	-90.01	660.1	-3,933.8	659.9	443.4	216.47	3.049	
11,200.0	7,330.6	11,060.4	7,329.8	112.7	110.9	-90.01	658.1	-4,033.8	659.9	437.9	222.00	2.973	
11,300.0	7,330.1	11,160.4	7,329.3	115.4	113.7	-90.01	656.0	-4,133.7	659.9	432.4	227.53	2.900	
11,400.0	7,329.6	11,260.4	7,328.8	118.2	116.4	-90.01	653.9	-4,233.7	659.9	426.8	233.07	2.831	
11,500.0	7,329.1	11,360.4	7,328.3	120.9	119.2	-90.01	651.9	-4,333.7	659.9	421.3	238.62	2.766	
11,600.0	7,328.6	11,460.4	7,327.8	123.6	122.0	-90.01	649.8	-4,433.7	659.9	415.7	244.16	2.703	
11,700.0	7,328.1	11,560.4	7,327.3	126.4	124.7	-90.01	647.7	-4,533.6	659.9	410.2	249.71	2.643	
11,800.0	7,327.6	11,660.4	7,326.8	129.1	127.5	-90.01	645.7	-4,633.6	659.9	404.6	255.26	2.585	
11,900.0	7,327.1	11,760.4	7,326.3	131.9	130.3	-90.01	643.6	-4,733.6	659.9	399.1	260.82	2.530	
12,000.0	7,326.6	11,860.4	7,325.8	134.6	133.1	-90.01	641.5	-4,833.6	659.9	393.5	266.37	2.477	
12,100.0	7,326.1	11,960.4	7,325.3	137.4	135.8	-90.01	639.5	-4,933.6	659.9	388.0	271.93	2.427	
12,200.0	7,325.6	12,060.4	7,324.8	140.2	138.6	-90.01	637.4	-5,033.5	659.9	382.4	277.49	2.378	
12,300.0	7,325.1	12,160.4	7,324.3	142.9	141.4	-90.01	635.3	-5,133.5	659.9	376.8	283.06	2.331	
12,400.0	7,324.6	12,260.4	7,323.8	145.7	144.2	-90.01	633.2	-5,233.5	659.9	371.3	288.62	2.286	
12,500.0	7,324.1	12,360.4	7,323.3	148.4	146.9	-90.01	631.2	-5,333.5	659.9	365.7	294.19	2.243	
12,600.0	7,323.6	12,460.4	7,322.8	151.2	149.7	-90.01	629.1	-5,433.4	659.9	360.1	299.76	2.201	
12,700.0	7,323.1	12,560.4	7,322.3	154.0	152.5	-90.01	627.0	-5,533.4	659.9	354.6	305.33	2.161	
12,800.0	7,322.6	12,660.4	7,321.8	156.7	155.3	-90.01	625.0	-5,633.4	659.9	349.0	310.90	2.123	
12,900.0	7,322.1	12,760.4	7,321.3	159.5	158.1	-90.01	622.9	-5,733.4	659.9	343.4	316.47	2.085	
13,000.0	7,321.6	12,860.4	7,320.8	162.3	160.9	-90.01	620.8	-5,833.4	659.9	337.9	322.05	2.049	
13,100.0	7,321.1	12,960.4	7,320.3	165.1	163.6	-90.01	618.8	-5,933.3	659.9	332.3	327.62	2.014	
13,200.0	7,320.6	13,060.4	7,319.8	167.8	166.4	-90.01	616.7	-6,033.3	659.9	326.7	333.20	1.981	
13,300.0	7,320.1	13,160.4	7,319.3	170.6	169.2	-90.01	614.6	-6,133.3	659.9	321.1	338.78	1.948	
13,400.0	7,319.6	13,260.4	7,318.8	173.4	172.0	-90.01	612.6	-6,233.3	659.9	315.6	344.36	1.916	
13,500.0	7,319.1	13,360.4	7,318.3	176.2	174.8	-90.01	610.5	-6,333.2	659.9	310.0	349.94	1.886	
13,600.0	7,318.6	13,460.4	7,317.8	178.9	177.6	-90.01	608.4	-6,433.2	659.9	304.4	355.52	1.856	
13,700.0	7,318.1	13,560.4	7,317.3	181.7	180.4	-90.01	606.3	-6,533.2	659.9	298.8	361.10	1.827	

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton D-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,800.0	7,317.6	13,660.4	7,316.8	184.5	183.2	-90.01	604.3	-6,633.2	659.9	293.2	366.69	1.800		
13,900.0	7,317.1	13,760.4	7,316.2	187.3	185.9	-90.01	602.2	-6,733.1	659.9	287.6	372.27	1.773		
14,000.0	7,316.6	13,860.4	7,315.7	190.0	188.7	-90.01	600.1	-6,833.1	659.9	282.1	377.86	1.746		
14,100.0	7,316.1	13,960.4	7,315.2	192.8	191.5	-90.01	598.1	-6,933.1	659.9	276.5	383.44	1.721		
14,200.0	7,315.6	14,060.4	7,314.7	195.6	194.3	-90.01	596.0	-7,033.1	659.9	270.9	389.03	1.696		
14,300.0	7,315.1	14,160.4	7,314.2	198.4	197.1	-90.01	593.9	-7,133.1	659.9	265.3	394.62	1.672		
14,400.0	7,314.6	14,260.4	7,313.7	201.2	199.9	-90.01	591.9	-7,233.0	659.9	259.7	400.21	1.649		
14,500.0	7,314.1	14,360.4	7,313.2	204.0	202.7	-90.01	589.8	-7,333.0	659.9	254.1	405.79	1.626		
14,600.0	7,313.6	14,460.4	7,312.7	206.7	205.5	-90.01	587.7	-7,433.0	659.9	248.5	411.38	1.604		
14,700.0	7,313.1	14,560.4	7,312.2	209.5	208.3	-90.01	585.6	-7,533.0	659.9	242.9	416.97	1.583		
14,800.0	7,312.6	14,660.4	7,311.7	212.3	211.1	-90.01	583.6	-7,632.9	659.9	237.4	422.56	1.562		
14,900.0	7,312.1	14,760.4	7,311.2	215.1	213.9	-90.01	581.5	-7,732.9	659.9	231.8	428.16	1.541		
15,000.0	7,311.6	14,860.4	7,310.7	217.9	216.7	-90.01	579.4	-7,832.9	659.9	226.2	433.75	1.521		
15,100.0	7,311.1	14,960.4	7,310.2	220.7	219.5	-90.01	577.4	-7,932.9	659.9	220.6	439.34	1.502		
15,200.0	7,310.6	15,060.4	7,309.7	223.5	222.3	-90.01	575.3	-8,032.9	659.9	215.0	444.93	1.483 Level 3		
15,300.0	7,310.1	15,160.4	7,309.2	226.3	225.0	-90.01	573.2	-8,132.8	659.9	209.4	450.53	1.465 Level 3		
15,400.0	7,309.6	15,260.4	7,308.7	229.0	227.8	-90.01	571.2	-8,232.8	659.9	203.8	456.12	1.447 Level 3		
15,500.0	7,309.1	15,360.4	7,308.2	231.8	230.6	-90.01	569.1	-8,332.8	659.9	198.2	461.71	1.429 Level 3		
15,600.0	7,308.6	15,460.4	7,307.7	234.6	233.4	-90.01	567.0	-8,432.8	659.9	192.6	467.31	1.412 Level 3		
15,700.0	7,308.1	15,560.4	7,307.2	237.4	236.2	-90.01	565.0	-8,532.7	659.9	187.0	472.90	1.395 Level 3		
15,800.0	7,307.6	15,660.4	7,306.7	240.2	239.0	-90.01	562.9	-8,632.7	659.9	181.4	478.50	1.379 Level 3		
15,900.0	7,307.1	15,760.4	7,306.2	243.0	241.8	-90.01	560.8	-8,732.7	659.9	175.8	484.10	1.363 Level 3		
16,000.0	7,306.6	15,860.4	7,305.7	245.8	244.6	-90.01	558.7	-8,832.7	659.9	170.2	489.69	1.348 Level 3		
16,100.0	7,306.1	15,960.4	7,305.2	248.6	247.4	-90.01	556.7	-8,932.6	659.9	164.6	495.29	1.332 Level 3		
16,200.0	7,305.6	16,060.4	7,304.7	251.4	250.2	-90.01	554.6	-9,032.6	659.9	159.0	500.89	1.318 Level 3		
16,300.0	7,305.1	16,160.4	7,304.2	254.2	253.0	-90.01	552.5	-9,132.6	659.9	153.4	506.48	1.303 Level 3		
16,400.0	7,304.6	16,260.4	7,303.7	257.0	255.8	-90.01	550.5	-9,232.6	659.9	147.8	512.08	1.289 Level 3		
16,500.0	7,304.1	16,360.4	7,303.2	259.7	258.6	-90.01	548.4	-9,332.6	659.9	142.2	517.68	1.275 Level 3		
16,600.0	7,303.6	16,460.4	7,302.7	262.5	261.4	-90.01	546.3	-9,432.5	659.9	136.6	523.28	1.261 Level 3		
16,700.0	7,303.1	16,560.4	7,302.2	265.3	264.2	-90.01	544.3	-9,532.5	659.9	131.1	528.88	1.248 Level 2		
16,800.0	7,302.6	16,660.4	7,301.7	268.1	267.0	-90.01	542.2	-9,632.5	659.9	125.5	534.47	1.235 Level 2		
16,900.0	7,302.1	16,760.4	7,301.2	270.9	269.8	-90.01	540.1	-9,732.5	659.9	119.9	540.07	1.222 Level 2		
17,000.0	7,301.6	16,860.4	7,300.7	273.7	272.6	-90.01	538.1	-9,832.4	659.9	114.3	545.67	1.209 Level 2		
17,100.0	7,301.1	16,960.4	7,300.2	276.5	275.4	-90.01	536.0	-9,932.4	659.9	108.7	551.27	1.197 Level 2		
17,200.0	7,300.6	17,060.4	7,299.7	279.3	278.2	-90.01	533.9	-10,032.4	659.9	103.1	556.87	1.185 Level 2		
17,300.0	7,300.1	17,160.4	7,299.2	282.1	281.0	-90.01	531.8	-10,132.4	659.9	97.5	562.47	1.173 Level 2		
17,400.0	7,299.6	17,260.4	7,298.7	284.9	283.8	-90.01	529.8	-10,232.4	659.9	91.9	568.07	1.162 Level 2		
17,500.0	7,299.1	17,360.4	7,298.2	287.7	286.6	-90.01	527.7	-10,332.3	659.9	86.3	573.68	1.150 Level 2		
17,600.0	7,298.6	17,460.4	7,297.7	290.5	289.4	-90.01	525.6	-10,432.3	659.9	80.7	579.28	1.139 Level 2		
17,700.0	7,298.1	17,560.4	7,297.2	293.3	292.2	-90.01	523.6	-10,532.3	659.9	75.1	584.88	1.128 Level 2		
17,800.0	7,297.6	17,660.4	7,296.7	296.1	295.0	-90.01	521.5	-10,632.3	659.9	69.5	590.48	1.118 Level 2		
17,900.0	7,297.1	17,760.4	7,296.2	298.9	297.8	-90.01	519.4	-10,732.2	659.9	63.9	596.08	1.107 Level 2		
17,922.5	7,297.0	17,782.9	7,296.1	299.5	298.4	-90.01	519.0	-10,754.7	659.9	62.6	597.34	1.105 Level 2, SF		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton E-29-30HC - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-178.15	-60.1	-1.9	60.2					
100.0	100.0	98.0	98.0	0.1	0.1	-178.15	-60.1	-1.9	60.1	59.9	0.22	270.285		
200.0	200.0	198.0	198.0	0.3	0.3	-178.15	-60.1	-1.9	60.1	59.5	0.67	89.794 CC, ES		
300.0	300.0	298.0	298.0	0.6	0.6	-175.94	-60.1	-1.9	61.5	60.3	1.13	54.385		
400.0	399.9	397.9	397.9	0.8	0.8	-176.18	-60.1	-1.9	65.4	63.8	1.60	40.930		
500.0	499.7	497.7	497.7	1.0	1.0	-176.52	-60.1	-1.9	71.9	69.8	2.06	34.817		
600.0	599.3	597.3	597.3	1.3	1.2	-176.90	-60.1	-1.9	81.0	78.5	2.53	31.992		
700.0	698.6	696.6	696.6	1.6	1.5	-177.29	-60.1	-1.9	92.8	89.8	3.00	30.915		
800.0	797.5	795.5	795.5	1.9	1.7	-177.64	-60.1	-1.9	107.1	103.6	3.47	30.876		
900.0	896.1	894.1	894.1	2.2	1.9	-177.95	-60.1	-1.9	124.0	120.1	3.94	31.502		
1,000.0	994.2	992.2	992.2	2.6	2.1	-178.22	-60.1	-1.9	143.5	139.1	4.41	32.576		
1,100.0	1,091.7	1,093.7	1,093.7	3.0	2.3	-178.41	-59.0	-2.1	164.5	159.6	4.88	33.717		
1,160.7	1,150.6	1,155.8	1,155.8	3.3	2.5	-178.46	-57.0	-2.4	177.2	172.0	5.17	34.307		
1,200.0	1,188.7	1,196.2	1,196.1	3.5	2.6	-178.48	-55.1	-2.6	185.2	179.9	5.35	34.632		
1,300.0	1,285.5	1,299.7	1,299.4	4.0	2.8	-178.45	-48.5	-3.5	203.8	198.0	5.83	34.982		
1,400.0	1,382.4	1,404.2	1,403.4	4.5	3.1	-178.33	-38.9	-4.8	219.7	213.4	6.32	34.789		
1,500.0	1,479.2	1,509.5	1,508.0	5.0	3.3	-178.14	-26.5	-6.5	233.0	226.2	6.82	34.172		
1,600.0	1,576.1	1,614.2	1,611.6	5.5	3.6	-177.89	-11.3	-8.5	243.5	236.2	7.33	33.243		
1,700.0	1,672.9	1,713.7	1,709.9	6.0	3.9	-177.64	4.0	-10.5	253.2	245.4	7.83	32.320		
1,800.0	1,769.8	1,813.3	1,808.2	6.5	4.2	-177.41	19.3	-12.6	262.9	254.5	8.35	31.499		
1,900.0	1,866.6	1,912.8	1,906.5	7.0	4.5	-177.20	34.6	-14.6	272.6	263.7	8.86	30.759		
2,000.0	1,963.5	2,012.3	2,004.8	7.5	4.8	-177.01	49.9	-16.7	282.2	272.9	9.38	30.090		
2,100.0	2,060.4	2,111.8	2,103.2	8.0	5.1	-176.82	65.2	-18.7	291.9	282.0	9.90	29.484		
2,200.0	2,157.2	2,211.4	2,201.5	8.5	5.5	-176.65	80.5	-20.8	301.6	291.2	10.42	28.932		
2,300.0	2,254.1	2,310.9	2,299.8	9.0	5.8	-176.49	95.8	-22.8	311.3	300.3	10.95	28.429		
2,400.0	2,350.9	2,410.4	2,398.1	9.5	6.1	-176.34	111.2	-24.9	321.0	309.5	11.48	27.967		
2,500.0	2,447.8	2,509.9	2,496.4	10.0	6.5	-176.19	126.5	-26.9	330.7	318.7	12.01	27.542		
2,600.0	2,544.6	2,609.5	2,594.8	10.5	6.8	-176.06	141.8	-29.0	340.4	327.8	12.54	27.150		
2,700.0	2,641.5	2,709.0	2,693.1	11.0	7.1	-175.93	157.1	-31.1	350.1	337.0	13.07	26.788		
2,800.0	2,738.3	2,808.5	2,791.4	11.5	7.5	-175.81	172.4	-33.1	359.8	346.2	13.60	26.452		
2,900.0	2,835.2	2,908.0	2,889.7	12.0	7.8	-175.70	187.7	-35.2	369.5	355.3	14.13	26.139		
3,000.0	2,932.0	3,007.6	2,988.0	12.6	8.2	-175.59	203.0	-37.2	379.2	364.5	14.67	25.848		
3,100.0	3,028.9	3,107.1	3,086.4	13.1	8.5	-175.48	218.3	-39.3	388.9	373.7	15.20	25.576		
3,200.0	3,125.7	3,206.6	3,184.7	13.6	8.9	-175.39	233.6	-41.3	398.6	382.8	15.74	25.321		
3,300.0	3,222.6	3,306.1	3,283.0	14.1	9.2	-175.29	248.9	-43.4	408.3	392.0	16.28	25.082		
3,400.0	3,319.5	3,405.7	3,381.3	14.6	9.6	-175.20	264.2	-45.4	418.0	401.2	16.82	24.857		
3,500.0	3,416.3	3,505.2	3,479.6	15.1	9.9	-175.12	279.6	-47.5	427.7	410.3	17.35	24.645		
3,600.0	3,513.2	3,604.7	3,578.0	15.6	10.3	-175.04	294.9	-49.5	437.4	419.5	17.89	24.446		
3,700.0	3,610.0	3,704.2	3,676.3	16.1	10.6	-174.96	310.2	-51.6	447.1	428.7	18.43	24.257		
3,800.0	3,706.9	3,803.8	3,774.6	16.6	11.0	-174.89	325.5	-53.6	456.8	437.8	18.97	24.079		
3,900.0	3,803.7	3,903.3	3,872.9	17.2	11.3	-174.81	340.8	-55.7	466.5	447.0	19.51	23.910		
4,000.0	3,900.6	4,002.8	3,971.2	17.7	11.7	-174.75	356.1	-57.7	476.2	456.2	20.05	23.749		
4,100.0	3,997.4	4,102.4	4,069.6	18.2	12.0	-174.68	371.4	-59.8	485.9	465.3	20.59	23.597		
4,200.0	4,094.3	4,201.9	4,167.9	18.7	12.4	-174.62	386.7	-61.8	495.6	474.5	21.13	23.452		
4,300.0	4,191.1	4,301.4	4,266.2	19.2	12.8	-174.56	402.0	-63.9	505.4	483.7	21.68	23.314		
4,400.0	4,288.0	4,400.9	4,364.5	19.7	13.1	-174.50	417.3	-65.9	515.1	492.9	22.22	23.182		
4,500.0	4,384.8	4,500.5	4,462.8	20.2	13.5	-174.44	432.6	-68.0	524.8	502.0	22.76	23.056		
4,600.0	4,481.7	4,600.0	4,561.2	20.7	13.8	-174.39	448.0	-70.0	534.5	511.2	23.30	22.936		
4,700.0	4,578.6	4,699.5	4,659.5	21.3	14.2	-174.34	463.3	-72.1	544.2	520.4	23.85	22.821		
4,800.0	4,675.4	4,799.0	4,757.8	21.8	14.5	-174.29	478.6	-74.1	553.9	529.5	24.39	22.711		
4,900.0	4,772.3	4,898.6	4,856.1	22.3	14.9	-174.24	493.9	-76.2	563.6	538.7	24.93	22.606		
5,000.0	4,869.1	4,998.1	4,954.4	22.8	15.2	-174.19	509.2	-78.2	573.4	547.9	25.48	22.505		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design												Thornton 28-H Pad Sec.28-T7N-R66W - Thornton E-29-30HC - Wellbore #1 - Plan #1 (1-28-16)		Offset Site Error:		0.0 ft	
Survey Program: 0-MWD														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
5,100.0	4,966.0	5,097.6	5,052.8	23.3	15.6	-174.15	524.5	-80.3	583.1	557.0	26.02	22.408					
5,200.0	5,062.8	5,197.1	5,151.1	23.8	16.0	-174.10	539.8	-82.3	592.8	566.2	26.57	22.314	SF				
5,300.0	5,159.7	5,280.4	5,233.5	24.3	16.2	-174.09	551.6	-83.9	603.8	576.7	27.04	22.329					
5,400.0	5,256.5	5,362.3	5,314.8	24.8	16.4	-174.11	560.8	-85.2	617.6	590.1	27.49	22.470					
5,500.0	5,353.4	5,443.5	5,395.8	25.4	16.6	-174.18	567.7	-86.1	634.1	606.2	27.91	22.717					
5,600.0	5,450.2	5,523.9	5,476.0	25.9	16.8	-174.28	572.2	-86.7	653.4	625.1	28.33	23.062					
5,700.0	5,547.1	5,600.0	5,552.1	26.4	16.9	-174.41	574.5	-87.0	675.4	646.6	28.74	23.501					
5,800.0	5,643.9	5,689.9	5,641.9	26.9	17.0	-174.59	574.9	-87.0	699.7	670.6	29.16	23.993					
5,900.0	5,740.8	5,786.7	5,738.8	27.4	17.2	-174.77	574.9	-87.0	724.5	694.9	29.63	24.453					
5,947.8	5,787.1	5,833.0	5,785.1	27.7	17.2	-174.86	574.9	-87.0	736.4	706.5	29.85	24.666					
6,000.0	5,837.8	5,883.7	5,835.8	27.9	17.3	-174.97	574.9	-87.0	748.9	718.7	30.12	24.865					
6,100.0	5,935.4	5,981.4	5,933.4	28.2	17.5	-175.14	574.9	-87.0	770.2	739.6	30.57	25.196					
6,200.0	6,033.8	6,079.7	6,031.8	28.6	17.6	-175.29	574.9	-87.0	788.1	757.1	30.98	25.442					

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton F-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-178.09	-75.1	-2.5	75.1					
100.0	100.0	98.0	98.0	0.1	0.1	-178.09	-75.1	-2.5	75.1	74.9	0.22	337.458		
200.0	200.0	198.0	198.0	0.3	0.3	-178.09	-75.1	-2.5	75.1	74.4	0.67	112.110 CC, ES		
300.0	300.0	298.0	298.0	0.6	0.6	-175.86	-75.1	-2.5	76.4	75.3	1.13	67.614		
400.0	399.9	397.9	397.9	0.8	0.8	-176.06	-75.1	-2.5	80.3	78.7	1.60	50.290		
500.0	499.7	497.7	497.7	1.0	1.0	-176.35	-75.1	-2.5	86.8	84.8	2.06	42.055		
600.0	599.3	597.3	597.3	1.3	1.2	-176.69	-75.1	-2.5	96.0	93.4	2.53	37.892		
700.0	698.6	696.6	696.6	1.6	1.5	-177.04	-75.1	-2.5	107.7	104.7	3.00	35.894		
800.0	797.5	795.5	795.5	1.9	1.7	-177.38	-75.1	-2.5	122.0	118.6	3.47	35.183		
900.0	896.1	894.1	894.1	2.2	1.9	-177.69	-75.1	-2.5	139.0	135.0	3.94	35.295		
1,000.0	994.2	992.2	992.2	2.6	2.1	-177.96	-75.1	-2.5	158.5	154.0	4.41	35.964		
1,100.0	1,091.7	1,089.7	1,089.7	3.0	2.3	-178.20	-75.1	-2.5	180.5	175.6	4.88	37.026		
1,160.7	1,150.6	1,148.6	1,148.6	3.3	2.5	-178.33	-75.1	-2.5	195.1	190.0	5.16	37.815		
1,200.0	1,188.7	1,186.7	1,186.7	3.5	2.6	-178.41	-75.1	-2.5	204.9	199.6	5.34	38.356		
1,300.0	1,285.5	1,288.8	1,288.8	4.0	2.8	-178.55	-74.0	-2.7	228.8	223.0	5.82	39.338		
1,400.0	1,382.4	1,392.9	1,392.8	4.5	3.0	-178.55	-70.3	-3.4	250.2	243.9	6.30	39.726		
1,500.0	1,479.2	1,498.2	1,497.9	5.0	3.3	-178.45	-63.6	-4.6	268.9	262.1	6.79	39.608		
1,600.0	1,576.1	1,604.5	1,603.8	5.5	3.5	-178.27	-54.0	-6.4	284.9	277.6	7.29	39.081		
1,700.0	1,672.9	1,711.7	1,710.2	6.0	3.8	-178.00	-41.4	-8.7	298.2	290.4	7.80	38.233		
1,800.0	1,769.8	1,811.0	1,808.6	6.5	4.0	-177.73	-28.3	-11.1	310.1	301.8	8.30	37.344		
1,900.0	1,866.6	1,910.3	1,907.0	7.0	4.3	-177.48	-15.3	-13.5	322.0	313.2	8.81	36.541		
2,000.0	1,963.5	2,009.6	2,005.4	7.5	4.6	-177.24	-2.2	-15.9	333.9	324.6	9.32	35.821		
2,100.0	2,060.4	2,108.8	2,103.7	8.0	4.9	-177.02	10.8	-18.3	345.8	336.0	9.84	35.162		
2,200.0	2,157.2	2,208.1	2,202.1	8.5	5.1	-176.82	23.9	-20.7	357.8	347.4	10.35	34.561		
2,300.0	2,254.1	2,307.4	2,300.5	9.0	5.4	-176.63	36.9	-23.1	369.7	358.8	10.87	34.011		
2,400.0	2,350.9	2,406.7	2,398.9	9.5	5.7	-176.45	50.0	-25.5	381.6	370.2	11.39	33.506		
2,500.0	2,447.8	2,506.0	2,497.3	10.0	6.0	-176.28	63.1	-27.9	393.6	381.6	11.91	33.041		
2,600.0	2,544.6	2,605.2	2,595.7	10.5	6.3	-176.13	76.1	-30.3	405.5	393.1	12.43	32.611		
2,700.0	2,641.5	2,704.5	2,694.1	11.0	6.6	-175.98	89.2	-32.7	417.4	404.5	12.96	32.212		
2,800.0	2,738.3	2,803.8	2,792.5	11.5	7.0	-175.84	102.2	-35.1	429.4	415.9	13.48	31.843		
2,900.0	2,835.2	2,903.1	2,890.8	12.0	7.3	-175.71	115.3	-37.5	441.3	427.3	14.01	31.498		
3,000.0	2,932.0	3,002.3	2,989.2	12.6	7.6	-175.58	128.3	-39.9	453.3	438.8	14.54	31.177		
3,100.0	3,028.9	3,101.6	3,087.6	13.1	7.9	-175.46	141.4	-42.3	465.2	450.2	15.07	30.876		
3,200.0	3,125.7	3,200.9	3,186.0	13.6	8.2	-175.35	154.5	-44.7	477.2	461.6	15.60	30.594		
3,300.0	3,222.6	3,300.2	3,284.4	14.1	8.5	-175.24	167.5	-47.1	489.2	473.0	16.13	30.329		
3,400.0	3,319.5	3,399.5	3,382.8	14.6	8.8	-175.14	180.6	-49.5	501.1	484.5	16.66	30.080		
3,500.0	3,416.3	3,498.7	3,481.2	15.1	9.2	-175.04	193.6	-51.9	513.1	495.9	17.19	29.846		
3,600.0	3,513.2	3,598.0	3,579.5	15.6	9.5	-174.95	206.7	-54.3	525.0	507.3	17.72	29.624		
3,700.0	3,610.0	3,697.3	3,677.9	16.1	9.8	-174.86	219.7	-56.7	537.0	518.8	18.26	29.415		
3,800.0	3,706.9	3,796.6	3,776.3	16.6	10.1	-174.77	232.8	-59.0	549.0	530.2	18.79	29.216		
3,900.0	3,803.7	3,895.9	3,874.7	17.2	10.4	-174.69	245.8	-61.4	560.9	541.6	19.32	29.028		
4,000.0	3,900.6	3,995.1	3,973.1	17.7	10.8	-174.61	258.9	-63.8	572.9	553.0	19.86	28.850		
4,100.0	3,997.4	4,094.4	4,071.5	18.2	11.1	-174.54	272.0	-66.2	584.9	564.5	20.39	28.680		
4,200.0	4,094.3	4,193.7	4,169.9	18.7	11.4	-174.46	285.0	-68.6	596.8	575.9	20.93	28.519		
4,300.0	4,191.1	4,293.0	4,268.3	19.2	11.7	-174.40	298.1	-71.0	608.8	587.3	21.46	28.365		
4,400.0	4,288.0	4,392.2	4,366.6	19.7	12.0	-174.33	311.1	-73.4	620.8	598.8	22.00	28.218		
4,500.0	4,384.8	4,491.5	4,465.0	20.2	12.4	-174.26	324.2	-75.8	632.8	610.2	22.54	28.078		
4,600.0	4,481.7	4,590.8	4,563.4	20.7	12.7	-174.20	337.2	-78.2	644.7	621.7	23.07	27.943		
4,700.0	4,578.6	4,690.1	4,661.8	21.3	13.0	-174.14	350.3	-80.6	656.7	633.1	23.61	27.815		
4,800.0	4,675.4	4,789.4	4,760.2	21.8	13.3	-174.09	363.3	-83.0	668.7	644.5	24.15	27.692		
4,900.0	4,772.3	4,888.6	4,858.6	22.3	13.7	-174.03	376.4	-85.4	680.6	656.0	24.68	27.574		
5,000.0	4,869.1	4,980.2	4,949.4	22.8	13.9	-173.99	388.3	-87.6	692.8	667.7	25.19	27.502 SF		

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

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Thornton 28-H Pad Sec.28-T7N-R66W - Thornton F-29-30HN - Wellbore #1 - Plan #1 (1-28-16)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
5,100.0	4,966.0	5,060.2	5,028.9	23.3	14.1	-173.98	396.8	-89.2	707.3	681.6	25.63	27.591	
5,200.0	5,062.8	5,139.5	5,107.9	23.8	14.3	-174.03	403.1	-90.3	724.3	698.3	26.06	27.794	
5,300.0	5,159.7	5,218.0	5,186.3	24.3	14.5	-174.11	407.2	-91.1	744.1	717.6	26.48	28.099	
5,400.0	5,256.5	5,300.0	5,268.3	24.8	14.6	-174.23	409.3	-91.5	766.4	739.5	26.90	28.493	
5,500.0	5,353.4	5,383.1	5,351.4	25.4	14.7	-174.38	409.4	-91.5	790.8	763.5	27.32	28.948	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton G-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-178.05	-90.0	-3.1	90.1					
100.0	100.0	98.0	98.0	0.1	0.1	-178.05	-90.0	-3.1	90.0	89.8	0.22	404.649		
200.0	200.0	198.0	198.0	0.3	0.3	-178.05	-90.0	-3.1	90.0	89.4	0.67	134.433 CC, ES		
300.0	300.0	298.0	298.0	0.6	0.6	-175.82	-90.0	-3.1	91.3	90.2	1.13	80.846		
400.0	399.9	397.9	397.9	0.8	0.8	-175.98	-90.0	-3.1	95.3	93.7	1.60	59.652		
500.0	499.7	497.7	497.7	1.0	1.0	-176.24	-90.0	-3.1	101.8	99.7	2.06	49.296		
600.0	599.3	597.3	597.3	1.3	1.2	-176.54	-90.0	-3.1	110.9	108.4	2.53	43.794		
700.0	698.6	696.6	696.6	1.6	1.5	-176.86	-90.0	-3.1	122.7	119.7	3.00	40.875		
800.0	797.5	795.5	795.5	1.9	1.7	-177.18	-90.0	-3.1	137.0	133.5	3.47	39.490		
900.0	896.1	894.1	894.1	2.2	1.9	-177.48	-90.0	-3.1	153.9	150.0	3.94	39.089		
1,000.0	994.2	992.2	992.2	2.6	2.1	-177.75	-90.0	-3.1	173.4	169.0	4.41	39.354		
1,100.0	1,091.7	1,089.7	1,089.7	3.0	2.3	-177.99	-90.0	-3.1	195.4	190.6	4.88	40.088		
1,160.7	1,150.6	1,148.6	1,148.6	3.3	2.5	-178.12	-90.0	-3.1	210.1	204.9	5.16	40.708		
1,200.0	1,188.7	1,186.7	1,186.7	3.5	2.6	-178.21	-90.0	-3.1	219.9	214.5	5.34	41.149		
1,300.0	1,285.5	1,283.5	1,283.5	4.0	2.8	-178.39	-90.0	-3.1	244.7	238.9	5.81	42.119		
1,400.0	1,382.4	1,380.4	1,380.4	4.5	3.0	-178.54	-90.0	-3.1	269.6	263.3	6.28	42.912		
1,500.0	1,479.2	1,477.2	1,477.2	5.0	3.2	-178.66	-90.0	-3.1	294.5	287.7	6.76	43.572		
1,600.0	1,576.1	1,579.9	1,579.9	5.5	3.4	-178.70	-89.3	-3.5	318.7	311.4	7.25	43.979		
1,700.0	1,672.9	1,685.3	1,685.3	6.0	3.7	-178.49	-86.1	-5.3	340.6	332.9	7.74	44.015		
1,800.0	1,769.8	1,791.8	1,791.8	6.5	3.9	-178.07	-80.4	-8.7	360.2	352.0	8.24	43.715		
1,900.0	1,866.6	1,894.3	1,893.6	7.0	4.1	-177.51	-72.8	-13.2	377.8	369.1	8.74	43.220		
2,000.0	1,963.5	1,992.7	1,991.6	7.5	4.4	-177.01	-65.3	-17.7	395.2	386.0	9.25	42.750		
2,100.0	2,060.4	2,091.1	2,089.7	8.0	4.6	-176.55	-57.7	-22.2	412.6	402.9	9.75	42.315		
2,200.0	2,157.2	2,189.5	2,187.7	8.5	4.9	-176.12	-50.2	-26.6	430.1	419.8	10.26	41.915		
2,300.0	2,254.1	2,288.0	2,285.7	9.0	5.1	-175.73	-42.6	-31.1	447.5	436.8	10.77	41.538		
2,400.0	2,350.9	2,386.4	2,383.7	9.5	5.3	-175.37	-35.1	-35.6	465.0	453.7	11.29	41.189		
2,500.0	2,447.8	2,484.8	2,481.8	10.0	5.6	-175.03	-27.5	-40.1	482.5	470.7	11.81	40.863		
2,600.0	2,544.6	2,583.2	2,579.8	10.5	5.8	-174.72	-20.0	-44.5	500.0	487.7	12.33	40.558		
2,700.0	2,641.5	2,681.6	2,677.8	11.0	6.1	-174.43	-12.4	-49.0	517.5	504.7	12.85	40.273		
2,800.0	2,738.3	2,780.1	2,775.9	11.5	6.4	-174.16	-4.9	-53.5	535.0	521.7	13.37	40.005		
2,900.0	2,835.2	2,878.5	2,873.9	12.0	6.6	-173.90	2.7	-57.9	552.6	538.7	13.90	39.754		
3,000.0	2,932.0	2,976.9	2,971.9	12.6	6.9	-173.66	10.2	-62.4	570.1	555.7	14.43	39.517		
3,100.0	3,028.9	3,075.3	3,069.9	13.1	7.1	-173.44	17.8	-66.9	587.7	572.7	14.96	39.294		
3,200.0	3,125.7	3,173.7	3,168.0	13.6	7.4	-173.23	25.3	-71.3	605.3	589.8	15.49	39.084		
3,300.0	3,222.6	3,272.2	3,266.0	14.1	7.6	-173.03	32.8	-75.8	622.8	606.8	16.02	38.885		
3,400.0	3,319.5	3,370.6	3,364.0	14.6	7.9	-172.84	40.4	-80.3	640.4	623.9	16.55	38.696		
3,500.0	3,416.3	3,469.0	3,462.1	15.1	8.2	-172.66	47.9	-84.8	658.0	640.9	17.08	38.518		
3,600.0	3,513.2	3,567.4	3,560.1	15.6	8.4	-172.49	55.5	-89.2	675.6	658.0	17.62	38.348		
3,700.0	3,610.0	3,665.8	3,658.1	16.1	8.7	-172.33	63.0	-93.7	693.2	675.1	18.15	38.187		
3,800.0	3,706.9	3,762.3	3,754.2	16.6	9.0	-172.18	70.4	-98.1	710.8	692.2	18.68	38.050 SF		
3,900.0	3,803.7	3,843.9	3,835.6	17.2	9.1	-172.13	75.4	-101.1	729.8	710.7	19.13	38.149		
4,000.0	3,900.6	3,924.7	3,916.3	17.7	9.3	-172.18	78.5	-102.8	751.1	731.5	19.56	38.401		
4,100.0	3,997.4	4,008.4	4,000.0	18.2	9.4	-172.34	79.5	-103.5	774.6	754.6	19.98	38.763		
4,200.0	4,094.3	4,100.7	4,092.3	18.7	9.6	-172.57	79.5	-103.5	799.3	778.8	20.43	39.116		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Thornton 28-H Pad Sec.28-T7N-R66W - Thornton H-29-30HC - Wellbore #1 - Plan #1 (1-28-16)											Offset Site Error:		0.0 ft
Survey Program:		0-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-178.03	-104.9	-3.6	105.0						
100.0	100.0	97.0	97.0	0.1	0.1	-178.03	-104.9	-3.6	105.0	104.8	0.22	474.194			
200.0	200.0	197.0	197.0	0.3	0.3	-178.03	-104.9	-3.6	105.0	104.3	0.67	157.271	CC, ES		
300.0	300.0	297.0	297.0	0.6	0.6	-175.78	-104.9	-3.6	106.3	105.2	1.13	94.257			
400.0	399.9	396.9	396.9	0.8	0.8	-175.93	-104.9	-3.6	110.2	108.6	1.59	69.104			
500.0	499.7	496.7	496.7	1.0	1.0	-176.15	-104.9	-3.6	116.7	114.7	2.06	56.592			
600.0	599.3	596.3	596.3	1.3	1.2	-176.42	-104.9	-3.6	125.9	123.3	2.53	49.735			
700.0	698.6	695.6	695.6	1.6	1.5	-176.72	-104.9	-3.6	137.6	134.6	3.00	45.886			
800.0	797.5	794.5	794.5	1.9	1.7	-177.01	-104.9	-3.6	151.9	148.5	3.47	43.823			
900.0	896.1	893.1	893.1	2.2	1.9	-177.30	-104.9	-3.6	168.8	164.9	3.94	42.905			
1,000.0	994.2	991.2	991.2	2.6	2.1	-177.57	-104.9	-3.6	188.3	183.9	4.40	42.762	SF		
1,100.0	1,091.7	1,088.7	1,088.7	3.0	2.3	-177.81	-104.9	-3.6	210.4	205.5	4.87	43.168			
1,160.7	1,150.6	1,147.6	1,147.6	3.3	2.5	-177.94	-104.9	-3.6	225.0	219.8	5.16	43.617			
1,200.0	1,188.7	1,185.7	1,185.7	3.5	2.6	-178.03	-104.9	-3.6	234.8	229.4	5.34	43.959			
1,300.0	1,285.5	1,282.5	1,282.5	4.0	2.8	-178.22	-104.9	-3.6	259.7	253.8	5.81	44.702			
1,400.0	1,382.4	1,379.4	1,379.4	4.5	3.0	-178.37	-104.9	-3.6	284.5	278.3	6.28	45.301			
1,500.0	1,479.2	1,476.2	1,476.2	5.0	3.2	-178.51	-104.9	-3.6	309.4	302.7	6.76	45.792			
1,600.0	1,576.1	1,573.1	1,573.1	5.5	3.4	-178.62	-104.9	-3.6	334.3	327.1	7.24	46.200			
1,700.0	1,672.9	1,669.9	1,669.9	6.0	3.6	-178.71	-104.9	-3.6	359.2	351.5	7.72	46.543			
1,800.0	1,769.8	1,766.8	1,766.8	6.5	3.9	-178.80	-104.9	-3.6	384.1	375.9	8.20	46.835			
1,900.0	1,866.6	1,863.6	1,863.6	7.0	4.1	-178.87	-104.9	-3.6	408.9	400.2	8.68	47.086			
2,000.0	1,963.5	1,960.5	1,960.5	7.5	4.3	-178.93	-104.9	-3.6	433.8	424.6	9.17	47.304			
2,100.0	2,060.4	2,057.4	2,057.4	8.0	4.5	-178.99	-104.9	-3.6	458.7	449.0	9.66	47.494			
2,200.0	2,157.2	2,154.2	2,154.2	8.5	4.7	-179.04	-104.9	-3.6	483.6	473.4	10.15	47.662			
2,300.0	2,254.1	2,251.1	2,251.1	9.0	4.9	-179.09	-104.9	-3.6	508.5	497.8	10.63	47.810			
2,400.0	2,350.9	2,347.9	2,347.9	9.5	5.2	-179.13	-104.9	-3.6	533.3	522.2	11.12	47.943			
2,500.0	2,447.8	2,444.8	2,444.8	10.0	5.4	-179.17	-104.9	-3.6	558.2	546.6	11.61	48.061			
2,600.0	2,544.6	2,543.0	2,543.0	10.5	5.6	-179.18	-104.9	-3.9	583.1	571.0	12.10	48.171			
2,700.0	2,641.5	2,643.1	2,643.0	11.0	5.8	-178.99	-104.4	-6.2	607.5	594.9	12.59	48.255			
2,800.0	2,738.3	2,743.3	2,743.1	11.5	6.0	-178.56	-103.5	-11.2	631.4	618.3	13.07	48.296			
2,900.0	2,835.2	2,843.4	2,843.0	12.0	6.2	-177.94	-102.2	-18.8	654.9	641.3	13.57	48.272			
3,000.0	2,932.0	2,940.4	2,939.6	12.6	6.4	-177.27	-100.6	-27.4	678.2	664.1	14.06	48.223			
3,100.0	3,028.9	3,037.4	3,036.1	13.1	6.7	-176.64	-99.1	-36.0	701.6	687.0	14.57	48.160			
3,200.0	3,125.7	3,134.3	3,132.7	13.6	6.9	-176.05	-97.5	-44.7	725.0	709.9	15.08	48.090			
3,300.0	3,222.6	3,231.3	3,229.2	14.1	7.1	-175.50	-96.0	-53.3	748.6	733.0	15.59	48.012			
3,400.0	3,319.5	3,328.2	3,325.8	14.6	7.3	-174.98	-94.4	-61.9	772.1	756.0	16.11	47.928			
3,500.0	3,416.3	3,425.2	3,422.3	15.1	7.6	-174.49	-92.8	-70.5	795.8	779.2	16.63	47.841			

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton I-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-178.01	-119.9	-4.2	120.0					
100.0	100.0	97.0	97.0	0.1	0.1	-178.01	-119.9	-4.2	119.9	119.7	0.22	541.707		
200.0	200.0	197.0	197.0	0.3	0.3	-178.01	-119.9	-4.2	119.9	119.3	0.67	179.662 CC, ES		
300.0	300.0	297.0	297.0	0.6	0.6	-175.75	-119.9	-4.2	121.2	120.1	1.13	107.512		
400.0	399.9	396.9	396.9	0.8	0.8	-175.88	-119.9	-4.2	125.2	123.6	1.59	78.476		
500.0	499.7	496.7	496.7	1.0	1.0	-176.08	-119.9	-4.2	131.7	129.6	2.06	63.838		
600.0	599.3	596.3	596.3	1.3	1.2	-176.33	-119.9	-4.2	140.8	138.3	2.53	55.641		
700.0	698.6	695.6	695.6	1.6	1.5	-176.60	-119.9	-4.2	152.5	149.5	3.00	50.870		
800.0	797.5	794.5	794.5	1.9	1.7	-176.88	-119.9	-4.2	166.9	163.4	3.47	48.133		
900.0	896.1	893.1	893.1	2.2	1.9	-177.15	-119.9	-4.2	183.8	179.8	3.94	46.701		
1,000.0	994.2	991.2	991.2	2.6	2.1	-177.41	-119.9	-4.2	203.3	198.9	4.40	46.153 SF		
1,100.0	1,091.7	1,088.7	1,088.7	3.0	2.3	-177.65	-119.9	-4.2	225.3	220.4	4.87	46.231		
1,160.7	1,150.6	1,147.6	1,147.6	3.3	2.5	-177.79	-119.9	-4.2	239.9	234.8	5.16	46.510		
1,200.0	1,188.7	1,185.7	1,185.7	3.5	2.6	-177.87	-119.9	-4.2	249.7	244.4	5.34	46.753		
1,300.0	1,285.5	1,282.5	1,282.5	4.0	2.8	-178.07	-119.9	-4.2	274.6	268.8	5.81	47.270		
1,400.0	1,382.4	1,379.4	1,379.4	4.5	3.0	-178.23	-119.9	-4.2	299.5	293.2	6.28	47.676		
1,500.0	1,479.2	1,476.2	1,476.2	5.0	3.2	-178.36	-119.9	-4.2	324.3	317.6	6.76	47.999		
1,600.0	1,576.1	1,573.1	1,573.1	5.5	3.4	-178.48	-119.9	-4.2	349.2	342.0	7.24	48.261		
1,700.0	1,672.9	1,665.1	1,665.1	6.0	3.6	-178.52	-120.3	-4.5	374.5	366.9	7.69	48.686		
1,800.0	1,769.8	1,754.6	1,754.5	6.5	3.8	-178.35	-122.2	-6.2	401.5	393.4	8.13	49.364		
1,900.0	1,866.6	1,843.0	1,842.9	7.0	3.9	-178.02	-125.8	-9.2	430.2	421.6	8.57	50.190		
2,000.0	1,963.5	1,930.5	1,930.0	7.5	4.1	-177.56	-130.8	-13.4	460.6	451.5	9.01	51.098		
2,100.0	2,060.4	2,019.1	2,018.3	8.0	4.3	-176.99	-137.3	-18.9	492.6	483.1	9.47	52.031		
2,200.0	2,157.2	2,113.6	2,112.2	8.5	4.5	-176.42	-144.8	-25.2	525.0	515.1	9.93	52.877		
2,300.0	2,254.1	2,208.0	2,206.2	9.0	4.7	-175.91	-152.2	-31.5	557.6	547.2	10.40	53.619		
2,400.0	2,350.9	2,302.5	2,300.1	9.5	4.9	-175.46	-159.6	-37.8	590.1	579.3	10.87	54.273		
2,500.0	2,447.8	2,396.9	2,394.1	10.0	5.1	-175.06	-167.0	-44.0	622.7	611.4	11.35	54.850		
2,600.0	2,544.6	2,491.4	2,488.0	10.5	5.4	-174.70	-174.4	-50.3	655.3	643.5	11.84	55.364		
2,700.0	2,641.5	2,585.8	2,582.0	11.0	5.6	-174.37	-181.8	-56.6	688.0	675.7	12.32	55.823		
2,800.0	2,738.3	2,680.3	2,675.9	11.5	5.8	-174.07	-189.3	-62.8	720.6	707.8	12.82	56.234		
2,900.0	2,835.2	2,774.7	2,769.9	12.0	6.1	-173.80	-196.7	-69.1	753.3	740.0	13.31	56.603		
3,000.0	2,932.0	2,869.2	2,863.8	12.6	6.3	-173.54	-204.1	-75.4	786.0	772.2	13.80	56.937		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton J-29-30HN - Wellbore #1 - Plan #2 (2-18-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-177.99	-134.8	-4.7	134.9					
100.0	100.0	97.0	97.0	0.1	0.1	-177.99	-134.8	-4.7	134.9	134.7	0.22	609.220		
200.0	200.0	197.0	197.0	0.3	0.3	-177.99	-134.8	-4.7	134.9	134.2	0.67	202.053 CC, ES		
300.0	300.0	297.0	297.0	0.6	0.6	-175.73	-134.8	-4.7	136.2	135.1	1.13	120.767		
400.0	399.9	396.9	396.9	0.8	0.8	-175.85	-134.8	-4.7	140.1	138.5	1.59	87.849		
500.0	499.7	496.7	496.7	1.0	1.0	-176.03	-134.8	-4.7	146.6	144.6	2.06	71.085		
600.0	599.3	596.3	596.3	1.3	1.2	-176.25	-134.8	-4.7	155.8	153.2	2.53	61.547		
700.0	698.6	695.6	695.6	1.6	1.5	-176.50	-134.8	-4.7	167.5	164.5	3.00	55.854		
800.0	797.5	794.5	794.5	1.9	1.7	-176.77	-134.8	-4.7	181.8	178.3	3.47	52.443		
900.0	896.1	893.1	893.1	2.2	1.9	-177.03	-134.8	-4.7	198.7	194.8	3.94	50.497		
1,000.0	994.2	991.2	991.2	2.6	2.1	-177.28	-134.8	-4.7	218.2	213.8	4.40	49.544		
1,100.0	1,091.7	1,088.7	1,088.7	3.0	2.3	-177.52	-134.8	-4.7	240.3	235.4	4.87	49.295 SF		
1,160.7	1,150.6	1,147.6	1,147.6	3.3	2.5	-177.65	-134.8	-4.7	254.9	249.7	5.16	49.404		
1,200.0	1,188.7	1,185.7	1,185.7	3.5	2.6	-177.74	-134.8	-4.7	264.7	259.3	5.34	49.547		
1,300.0	1,285.5	1,282.5	1,282.5	4.0	2.8	-177.93	-134.8	-4.7	289.5	283.7	5.81	49.839		
1,400.0	1,382.4	1,379.4	1,379.4	4.5	3.0	-178.09	-134.8	-4.7	314.4	308.1	6.28	50.051		
1,500.0	1,479.2	1,476.2	1,476.2	5.0	3.2	-178.23	-134.8	-4.7	339.3	332.5	6.76	50.206		
1,600.0	1,576.1	1,568.5	1,568.5	5.5	3.4	-178.28	-135.2	-5.2	364.6	357.4	7.21	50.549		
1,700.0	1,672.9	1,658.6	1,658.6	6.0	3.6	-178.09	-137.1	-7.1	391.5	383.8	7.65	51.148		
1,800.0	1,769.8	1,747.8	1,747.8	6.5	3.7	-177.71	-140.5	-10.4	419.9	411.9	8.09	51.885		
1,900.0	1,866.6	1,836.0	1,835.6	7.0	3.9	-177.19	-145.2	-15.2	450.0	441.5	8.54	52.697		
2,000.0	1,963.5	1,923.1	1,922.3	7.5	4.1	-176.55	-151.3	-21.3	481.7	472.7	8.99	53.566		
2,100.0	2,060.4	2,009.1	2,007.6	8.0	4.3	-175.84	-158.7	-28.8	514.9	505.5	9.45	54.480		
2,200.0	2,157.2	2,093.9	2,091.5	8.5	4.5	-175.07	-167.2	-37.4	549.8	539.9	9.92	55.422		
2,300.0	2,254.1	2,179.2	2,175.7	9.0	4.7	-174.25	-177.2	-47.5	586.3	575.9	10.40	56.352		
2,400.0	2,350.9	2,271.8	2,266.8	9.5	5.0	-173.42	-188.4	-58.8	623.4	612.4	10.91	57.145		
2,500.0	2,447.8	2,364.3	2,357.9	10.0	5.2	-172.69	-199.6	-70.1	660.5	649.1	11.42	57.835		
2,600.0	2,544.6	2,456.8	2,449.1	10.5	5.5	-172.03	-210.8	-81.4	697.8	685.9	11.94	58.451		
2,700.0	2,641.5	2,549.3	2,540.2	11.0	5.8	-171.43	-222.1	-92.7	735.1	722.7	12.46	58.992		
2,800.0	2,738.3	2,641.8	2,631.3	11.5	6.1	-170.90	-233.3	-104.1	772.5	759.6	12.99	59.471		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Thornton 28-H Pad Sec.28-T7N-R66W - Thornton K-29-30HC - Wellbore #1 - Plan #2 (2-18-16)											Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-177.99	-150.1	-5.3	150.2					
100.0	100.0	96.0	96.0	0.1	0.1	-177.99	-150.1	-5.3	150.2	150.0	0.22	681.833		
200.0	200.0	196.0	196.0	0.3	0.3	-177.99	-150.1	-5.3	150.2	149.5	0.67	225.750	CC, ES	
300.0	300.0	296.0	296.0	0.6	0.6	-175.72	-150.1	-5.3	151.5	150.4	1.13	134.610		
400.0	399.9	395.9	395.9	0.8	0.8	-175.83	-150.1	-5.3	155.4	153.8	1.59	97.584		
500.0	499.7	495.7	495.7	1.0	1.0	-175.99	-150.1	-5.3	161.9	159.9	2.06	78.591		
600.0	599.3	595.3	595.3	1.3	1.2	-176.19	-150.1	-5.3	171.1	168.5	2.53	67.655		
700.0	698.6	694.6	694.6	1.6	1.4	-176.43	-150.1	-5.3	182.8	179.8	3.00	61.003		
800.0	797.5	793.5	793.5	1.9	1.7	-176.67	-150.1	-5.3	197.1	193.7	3.46	56.893		
900.0	896.1	892.1	892.1	2.2	1.9	-176.92	-150.1	-5.3	214.0	210.1	3.93	54.415		
1,000.0	994.2	990.2	990.2	2.6	2.1	-177.17	-150.1	-5.3	233.5	229.1	4.40	53.044		
1,100.0	1,091.7	1,087.7	1,087.7	3.0	2.3	-177.40	-150.1	-5.3	255.6	250.7	4.87	52.456		
1,160.7	1,150.6	1,146.6	1,146.6	3.3	2.5	-177.53	-150.1	-5.3	270.2	265.0	5.16	52.389	SF	
1,200.0	1,188.7	1,184.7	1,184.7	3.5	2.6	-177.61	-150.1	-5.3	280.0	274.6	5.34	52.431		
1,300.0	1,285.5	1,281.5	1,281.5	4.0	2.8	-177.81	-150.1	-5.3	304.8	299.0	5.81	52.490		
1,400.0	1,382.4	1,378.4	1,378.4	4.5	3.0	-177.97	-150.1	-5.3	329.7	323.4	6.28	52.502		
1,500.0	1,479.2	1,470.1	1,470.1	5.0	3.2	-178.04	-150.6	-5.7	355.1	348.4	6.73	52.765		
1,600.0	1,576.1	1,559.5	1,559.4	5.5	3.3	-177.90	-152.7	-7.3	382.3	375.1	7.17	53.342		
1,700.0	1,672.9	1,647.9	1,647.7	6.0	3.5	-177.60	-156.5	-10.2	411.2	403.6	7.60	54.094		
1,800.0	1,769.8	1,735.2	1,734.8	6.5	3.7	-177.17	-161.8	-14.2	441.9	433.9	8.04	54.950		
1,900.0	1,866.6	1,821.4	1,820.6	7.0	3.8	-176.65	-168.6	-19.4	474.4	465.9	8.49	55.888		
2,000.0	1,963.5	1,906.4	1,904.9	7.5	4.0	-176.06	-176.7	-25.6	508.6	499.7	8.94	56.892		
2,100.0	2,060.4	1,990.1	1,987.8	8.0	4.2	-175.43	-186.2	-32.9	544.6	535.2	9.40	57.941		
2,200.0	2,157.2	2,072.5	2,069.0	8.5	4.5	-174.77	-197.0	-41.1	582.2	572.4	9.86	59.023		
2,300.0	2,254.1	2,161.9	2,157.0	9.0	4.7	-174.05	-209.8	-50.9	621.1	610.8	10.35	59.998		
2,400.0	2,350.9	2,253.8	2,247.3	9.5	5.0	-173.40	-222.9	-60.9	660.2	649.3	10.85	60.854		
2,500.0	2,447.8	2,345.6	2,337.7	10.0	5.3	-172.83	-236.1	-71.0	699.3	687.9	11.35	61.602		
2,600.0	2,544.6	2,437.4	2,428.0	10.5	5.6	-172.31	-249.2	-81.0	738.4	726.6	11.86	62.270		
2,700.0	2,641.5	2,529.2	2,518.3	11.0	5.9	-171.84	-262.3	-91.0	777.6	765.3	12.37	62.862		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton L-29-30HN - Wellbore #1 - Plan #2 (2-18-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-177.97	-165.0	-5.8	165.2					
100.0	100.0	96.0	96.0	0.1	0.1	-177.97	-165.0	-5.8	165.1	164.9	0.22	749.709		
200.0	200.0	196.0	196.0	0.3	0.3	-177.97	-165.0	-5.8	165.1	164.5	0.67	248.223 CC, ES		
300.0	300.0	296.0	296.0	0.6	0.6	-175.71	-165.0	-5.8	166.5	165.3	1.13	147.895		
400.0	399.9	395.9	395.9	0.8	0.8	-175.80	-165.0	-5.8	170.4	168.8	1.59	106.972		
500.0	499.7	495.7	495.7	1.0	1.0	-175.95	-165.0	-5.8	176.9	174.8	2.06	85.847		
600.0	599.3	595.3	595.3	1.3	1.2	-176.14	-165.0	-5.8	186.0	183.5	2.53	73.568		
700.0	698.6	694.6	694.6	1.6	1.4	-176.36	-165.0	-5.8	197.7	194.7	3.00	65.992		
800.0	797.5	793.5	793.5	1.9	1.7	-176.59	-165.0	-5.8	212.1	208.6	3.46	61.208		
900.0	896.1	892.1	892.1	2.2	1.9	-176.83	-165.0	-5.8	229.0	225.0	3.93	58.215		
1,000.0	994.2	990.2	990.2	2.6	2.1	-177.06	-165.0	-5.8	248.5	244.1	4.40	56.438		
1,100.0	1,091.7	1,087.7	1,087.7	3.0	2.3	-177.29	-165.0	-5.8	270.5	265.6	4.87	55.522		
1,160.7	1,150.6	1,146.6	1,146.6	3.3	2.5	-177.42	-165.0	-5.8	285.1	280.0	5.16	55.285		
1,200.0	1,188.7	1,184.7	1,184.7	3.5	2.6	-177.50	-165.0	-5.8	294.9	289.6	5.34	55.228		
1,300.0	1,285.5	1,281.5	1,281.5	4.0	2.8	-177.70	-165.0	-5.8	319.8	314.0	5.81	55.061 SF		
1,400.0	1,382.4	1,372.8	1,372.7	4.5	3.0	-177.79	-165.6	-6.2	345.3	339.0	6.25	55.220		
1,500.0	1,479.2	1,461.8	1,461.7	5.0	3.1	-177.70	-168.0	-7.6	372.7	366.0	6.68	55.748		
1,600.0	1,576.1	1,549.7	1,549.5	5.5	3.3	-177.47	-172.0	-10.0	402.0	394.9	7.12	56.484		
1,700.0	1,672.9	1,636.5	1,636.1	6.0	3.4	-177.13	-177.7	-13.5	433.2	425.6	7.55	57.349		
1,800.0	1,769.8	1,722.1	1,721.3	6.5	3.6	-176.70	-185.0	-17.8	466.3	458.3	7.99	58.319		
1,900.0	1,866.6	1,806.5	1,805.0	7.0	3.8	-176.22	-193.8	-23.1	501.2	492.7	8.44	59.372		
2,000.0	1,963.5	1,889.5	1,887.1	7.5	4.0	-175.70	-204.0	-29.2	537.9	529.0	8.89	60.487		
2,100.0	2,060.4	1,971.2	1,967.7	8.0	4.2	-175.16	-215.5	-36.1	576.4	567.1	9.35	61.649		
2,200.0	2,157.2	2,053.6	2,048.7	8.5	4.5	-174.59	-228.5	-43.9	616.7	606.8	9.82	62.813		
2,300.0	2,254.1	2,144.6	2,138.1	9.0	4.7	-174.01	-243.5	-52.9	657.5	647.2	10.30	63.839		
2,400.0	2,350.9	2,235.7	2,227.5	9.5	5.0	-173.49	-258.5	-61.9	698.5	687.7	10.79	64.707		
2,500.0	2,447.8	2,326.8	2,316.8	10.0	5.4	-173.04	-273.4	-70.9	739.4	728.1	11.29	65.503		
2,600.0	2,544.6	2,417.8	2,406.2	10.5	5.7	-172.63	-288.4	-79.8	780.4	768.6	11.79	66.204		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton M-29-30HN - Wellbore #1 - Plan #2 (2-18-16)													Offset Site Error: 0.0 ft			
Survey Program: 0-MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-177.97	-180.0	-6.4	180.2							
100.0	100.0	95.0	95.0	0.1	0.1	-177.97	-180.0	-6.4	180.1	179.9	0.22	821.732	CC, ES			
200.0	200.0	195.0	195.0	0.3	0.3	-177.97	-180.0	-6.4	180.1	179.4	0.66	271.602				
300.0	300.0	295.0	295.0	0.6	0.6	-175.70	-180.0	-6.4	181.4	180.3	1.12	161.491				
400.0	399.9	394.9	394.9	0.8	0.8	-175.78	-180.0	-6.4	185.3	183.7	1.59	116.516				
500.0	499.7	494.7	494.7	1.0	1.0	-175.92	-180.0	-6.4	191.8	189.8	2.06	93.198				
600.0	599.3	594.3	594.3	1.3	1.2	-176.10	-180.0	-6.4	201.0	198.4	2.53	79.546				
700.0	698.6	693.6	693.6	1.6	1.4	-176.30	-180.0	-6.4	212.7	209.7	2.99	71.029				
800.0	797.5	792.5	792.5	1.9	1.7	-176.52	-180.0	-6.4	227.0	223.5	3.46	65.560				
900.0	896.1	891.1	891.1	2.2	1.9	-176.75	-180.0	-6.4	243.9	240.0	3.93	62.046				
1,000.0	994.2	989.2	989.2	2.6	2.1	-176.97	-180.0	-6.4	263.4	259.0	4.40	59.859				
1,100.0	1,091.7	1,086.7	1,086.7	3.0	2.3	-177.19	-180.0	-6.4	285.4	280.6	4.87	58.611				
1,160.7	1,150.6	1,145.6	1,145.6	3.3	2.5	-177.32	-180.0	-6.4	300.1	294.9	5.16	58.203				
1,200.0	1,188.7	1,183.7	1,183.7	3.5	2.5	-177.40	-180.0	-6.4	309.8	304.5	5.34	58.046	SF			
1,300.0	1,285.5	1,274.6	1,274.6	4.0	2.7	-177.53	-180.6	-6.7	335.4	329.6	5.78	58.054				
1,400.0	1,382.4	1,363.4	1,363.4	4.5	2.9	-177.49	-183.1	-7.9	363.0	356.8	6.21	58.490				
1,500.0	1,479.2	1,451.1	1,450.9	5.0	3.1	-177.32	-187.4	-10.0	392.6	385.9	6.63	59.167				
1,600.0	1,576.1	1,537.6	1,537.2	5.5	3.2	-177.06	-193.4	-12.8	424.1	417.0	7.07	60.001				
1,700.0	1,672.9	1,622.9	1,622.0	6.0	3.4	-176.72	-201.1	-16.5	457.6	450.1	7.51	60.960				
1,800.0	1,769.8	1,706.8	1,705.4	6.5	3.6	-176.34	-210.2	-20.9	493.0	485.0	7.95	62.022				
1,900.0	1,866.6	1,789.5	1,787.1	7.0	3.8	-175.92	-220.9	-26.0	530.3	521.9	8.40	63.161				
2,000.0	1,963.5	1,870.7	1,867.2	7.5	4.0	-175.48	-232.9	-31.8	569.4	560.5	8.85	64.362				
2,100.0	2,060.4	1,950.5	1,945.6	8.0	4.2	-175.03	-246.2	-38.2	610.3	601.0	9.30	65.613				
2,200.0	2,157.2	2,037.1	2,030.5	8.5	4.5	-174.54	-261.9	-45.7	652.6	642.8	9.77	66.770				
2,300.0	2,254.1	2,127.5	2,119.1	9.0	4.8	-174.09	-278.4	-53.6	695.0	684.8	10.26	67.753				
2,400.0	2,350.9	2,217.9	2,207.6	9.5	5.2	-173.70	-294.8	-61.5	737.5	726.8	10.74	68.659				
2,500.0	2,447.8	2,308.4	2,296.2	10.0	5.5	-173.34	-311.3	-69.4	780.0	768.8	11.23	69.448				

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton N-29-30HC - Wellbore #1 - Plan #2 (2-18-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-177.96	-194.9	-6.9	195.1					
100.0	100.0	95.0	95.0	0.1	0.1	-177.96	-194.9	-6.9	195.0	194.8	0.22	889.955		
200.0	200.0	195.0	195.0	0.3	0.3	-177.96	-194.9	-6.9	195.0	194.4	0.66	294.151 CC, ES		
300.0	300.0	295.0	295.0	0.6	0.6	-175.69	-194.9	-6.9	196.3	195.2	1.12	174.802		
400.0	399.9	394.9	394.9	0.8	0.8	-175.77	-194.9	-6.9	200.3	198.7	1.59	125.917		
500.0	499.7	494.7	494.7	1.0	1.0	-175.89	-194.9	-6.9	206.8	204.7	2.06	100.461		
600.0	599.3	594.3	594.3	1.3	1.2	-176.06	-194.9	-6.9	215.9	213.4	2.53	85.464		
700.0	698.6	693.6	693.6	1.6	1.4	-176.25	-194.9	-6.9	227.6	224.6	2.99	76.021		
800.0	797.5	792.5	792.5	1.9	1.7	-176.46	-194.9	-6.9	242.0	238.5	3.46	69.877		
900.0	896.1	891.1	891.1	2.2	1.9	-176.68	-194.9	-6.9	258.9	254.9	3.93	65.848		
1,000.0	994.2	989.2	989.2	2.6	2.1	-176.89	-194.9	-6.9	278.3	273.9	4.40	63.255		
1,100.0	1,091.7	1,086.7	1,086.7	3.0	2.3	-177.10	-194.9	-6.9	300.4	295.5	4.87	61.679		
1,160.7	1,150.6	1,142.3	1,142.3	3.3	2.4	-177.21	-195.1	-7.0	315.2	310.1	5.14	61.341		
1,200.0	1,188.7	1,177.5	1,177.5	3.5	2.5	-177.25	-195.7	-7.2	325.6	320.3	5.31	61.326 SF		
1,300.0	1,285.5	1,266.1	1,266.1	4.0	2.7	-177.26	-198.3	-8.2	353.3	347.6	5.73	61.631		
1,400.0	1,382.4	1,353.7	1,353.5	4.5	2.8	-177.17	-202.8	-9.9	383.1	377.0	6.16	62.214		
1,500.0	1,479.2	1,440.0	1,439.5	5.0	3.0	-176.99	-209.1	-12.2	415.0	408.4	6.59	62.982		
1,600.0	1,576.1	1,525.0	1,524.1	5.5	3.2	-176.75	-217.1	-15.2	448.9	441.9	7.02	63.901		
1,700.0	1,672.9	1,608.7	1,607.2	6.0	3.4	-176.46	-226.6	-18.7	484.7	477.2	7.46	64.944		
1,800.0	1,769.8	1,691.0	1,688.6	6.5	3.6	-176.15	-237.7	-22.9	522.4	514.5	7.91	66.083		
1,900.0	1,866.6	1,771.9	1,768.4	7.0	3.8	-175.81	-250.2	-27.5	562.1	553.7	8.35	67.298		
2,000.0	1,963.5	1,851.3	1,846.5	7.5	4.0	-175.47	-263.9	-32.6	603.5	594.7	8.80	68.579		
2,100.0	2,060.4	1,929.4	1,922.9	8.0	4.3	-175.12	-279.0	-38.2	646.8	637.5	9.26	69.880		
2,200.0	2,157.2	2,019.1	2,010.4	8.5	4.6	-174.74	-297.1	-44.9	690.9	681.2	9.73	71.025		
2,300.0	2,254.1	2,108.7	2,098.0	9.0	4.9	-174.41	-315.1	-51.7	735.1	724.9	10.21	72.029		
2,400.0	2,350.9	2,198.3	2,185.5	9.5	5.3	-174.11	-333.2	-58.4	779.2	768.6	10.69	72.921		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton O-29-30HN - Wellbore #1 - Plan #2 (2-18-16)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
0.0	0.0	0.0	0.0	0.0	0.0	-177.95	-209.8	-7.5	210.0				
100.0	100.0	95.0	95.0	0.1	0.1	-177.95	-209.8	-7.5	210.0	209.8	0.22	958.141	
200.0	200.0	195.0	195.0	0.3	0.3	-177.95	-209.8	-7.5	210.0	209.3	0.66	316.688	CC, ES
300.0	300.0	295.0	295.0	0.6	0.6	-175.68	-209.8	-7.5	211.3	210.2	1.12	188.106	
400.0	399.9	394.9	394.9	0.8	0.8	-175.75	-209.8	-7.5	215.2	213.6	1.59	135.313	
500.0	499.7	494.7	494.7	1.0	1.0	-175.87	-209.8	-7.5	221.7	219.7	2.06	107.721	
600.0	599.3	594.3	594.3	1.3	1.2	-176.03	-209.8	-7.5	230.9	228.3	2.53	91.379	
700.0	698.6	693.6	693.6	1.6	1.4	-176.21	-209.8	-7.5	242.6	239.6	2.99	81.011	
800.0	797.5	792.5	792.5	1.9	1.7	-176.40	-209.8	-7.5	256.9	253.4	3.46	74.192	
900.0	896.1	891.1	891.1	2.2	1.9	-176.61	-209.8	-7.5	273.8	269.9	3.93	69.648	
1,000.0	994.2	989.2	989.2	2.6	2.1	-176.82	-209.8	-7.5	293.3	288.9	4.40	66.649	
1,100.0	1,091.7	1,080.2	1,080.2	3.0	2.3	-176.97	-210.7	-7.7	316.2	311.4	4.84	65.329	
1,160.7	1,150.6	1,134.3	1,134.2	3.3	2.4	-177.02	-212.1	-8.1	332.4	327.3	5.10	65.165	SF
1,200.0	1,188.7	1,169.0	1,168.9	3.5	2.5	-177.04	-213.5	-8.4	343.7	338.4	5.27	65.271	
1,300.0	1,285.5	1,256.4	1,256.2	4.0	2.6	-177.04	-218.2	-9.6	373.7	368.0	5.69	65.711	
1,400.0	1,382.4	1,342.5	1,342.1	4.5	2.8	-176.96	-224.7	-11.3	405.9	399.7	6.11	66.373	
1,500.0	1,479.2	1,427.4	1,426.5	5.0	3.0	-176.83	-233.0	-13.4	440.1	433.5	6.55	67.218	
1,600.0	1,576.1	1,510.8	1,509.3	5.5	3.2	-176.67	-242.9	-15.9	476.3	469.3	6.98	68.212	
1,700.0	1,672.9	1,592.9	1,590.5	6.0	3.4	-176.48	-254.3	-18.9	514.5	507.0	7.42	69.324	
1,800.0	1,769.8	1,673.5	1,670.0	6.5	3.6	-176.28	-267.2	-22.2	554.6	546.7	7.86	70.531	
1,900.0	1,866.6	1,752.6	1,747.7	7.0	3.8	-176.06	-281.5	-25.8	596.5	588.2	8.31	71.818	
2,000.0	1,963.5	1,830.2	1,823.7	7.5	4.1	-175.83	-296.9	-29.7	640.3	631.5	8.75	73.172	
2,100.0	2,060.4	1,906.3	1,897.8	8.0	4.4	-175.61	-313.5	-34.0	685.8	676.6	9.20	74.562	
2,200.0	2,157.2	1,992.3	1,981.3	8.5	4.7	-175.36	-333.4	-39.0	732.5	722.8	9.67	75.783	
2,300.0	2,254.1	2,080.7	2,067.1	9.0	5.1	-175.14	-353.8	-44.3	779.2	769.1	10.14	76.867	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Thornton 28-H Pad Sec.28-T7N-R66W - Thornton P-29-30HN - Wellbore #1 - Plan #2 (2-18-16)										Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-177.95	-224.8	-8.1	225.0					
100.0	100.0	94.0	94.0	0.1	0.1	-177.95	-224.8	-8.1	224.9	224.7	0.22	1,031.645		
200.0	200.0	194.0	194.0	0.3	0.3	-177.95	-224.8	-8.1	224.9	224.3	0.66	340.391	CC, ES	
300.0	300.0	294.0	294.0	0.6	0.5	-175.67	-224.8	-8.1	226.2	225.1	1.12	201.816		
400.0	399.9	393.9	393.9	0.8	0.8	-175.74	-224.8	-8.1	230.2	228.6	1.59	144.914		
500.0	499.7	493.7	493.7	1.0	1.0	-175.85	-224.8	-8.1	236.7	234.6	2.06	115.107		
600.0	599.3	593.3	593.3	1.3	1.2	-176.00	-224.8	-8.1	245.8	243.3	2.52	97.380		
700.0	698.6	692.6	692.6	1.6	1.4	-176.17	-224.8	-8.1	257.5	254.5	2.99	86.066		
800.0	797.5	791.5	791.5	1.9	1.7	-176.36	-224.8	-8.1	271.8	268.4	3.46	78.557		
900.0	896.1	890.1	890.1	2.2	1.9	-176.55	-224.8	-8.1	288.8	284.8	3.93	73.489		
1,000.0	994.2	981.6	981.6	2.6	2.1	-176.72	-225.7	-8.2	309.2	304.8	4.37	70.786		
1,100.0	1,091.7	1,070.9	1,070.9	3.0	2.2	-176.83	-228.6	-8.6	334.4	329.6	4.80	69.733		
1,160.7	1,150.6	1,124.2	1,124.1	3.3	2.3	-176.88	-231.3	-9.0	352.0	346.9	5.06	69.628	SF	
1,200.0	1,188.7	1,158.5	1,158.3	3.5	2.4	-176.91	-233.4	-9.3	364.1	358.9	5.22	69.749		
1,300.0	1,285.5	1,244.6	1,244.1	4.0	2.6	-176.95	-240.2	-10.3	396.5	390.8	5.65	70.237		
1,400.0	1,382.4	1,329.4	1,328.5	4.5	2.7	-176.95	-248.7	-11.5	430.9	424.9	6.07	70.943		
1,500.0	1,479.2	1,412.7	1,411.2	5.0	2.9	-176.92	-258.8	-12.9	467.4	460.9	6.51	71.831		
1,600.0	1,576.1	1,500.0	1,497.5	5.5	3.2	-176.86	-271.3	-14.7	505.9	499.0	6.95	72.759		
1,700.0	1,672.9	1,575.2	1,571.7	6.0	3.4	-176.79	-283.7	-16.5	546.3	538.9	7.38	74.013		
1,800.0	1,769.8	1,654.1	1,649.3	6.5	3.6	-176.71	-298.3	-18.6	588.6	580.8	7.82	75.262		
1,900.0	1,866.6	1,731.6	1,725.0	7.0	3.9	-176.61	-314.1	-20.8	632.7	624.5	8.26	76.592		
2,000.0	1,963.5	1,807.5	1,799.0	7.5	4.2	-176.51	-331.0	-23.2	678.6	669.9	8.70	77.991		
2,100.0	2,060.4	1,881.8	1,871.1	8.0	4.5	-176.41	-349.0	-25.8	726.3	717.1	9.14	79.439		
2,200.0	2,157.2	1,954.6	1,941.3	8.5	4.8	-176.30	-368.0	-28.5	775.6	766.0	9.59	80.879		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton Q-29-30HC - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-178.01	-239.7	-8.3	239.9					
100.0	100.0	94.0	94.0	0.1	0.1	-178.01	-239.7	-8.3	239.9	239.7	0.22	1,100.137		
200.0	200.0	194.0	194.0	0.3	0.3	-178.01	-239.7	-8.3	239.9	239.2	0.66	362.990	CC, ES	
300.0	300.0	294.0	294.0	0.6	0.5	-175.73	-239.7	-8.3	241.2	240.1	1.12	215.138		
400.0	399.9	393.9	393.9	0.8	0.8	-175.80	-239.7	-8.3	245.1	243.5	1.59	154.316		
500.0	499.7	493.7	493.7	1.0	1.0	-175.90	-239.7	-8.3	251.6	249.6	2.06	122.370		
600.0	599.3	593.3	593.3	1.3	1.2	-176.03	-239.7	-8.3	260.7	258.2	2.52	103.297		
700.0	698.6	692.6	692.6	1.6	1.4	-176.19	-239.7	-8.3	272.5	269.5	2.99	91.057		
800.0	797.5	791.5	791.5	1.9	1.7	-176.37	-239.7	-8.3	286.8	283.3	3.46	82.873		
900.0	896.1	883.5	883.5	2.2	1.8	-176.53	-240.6	-8.4	304.7	300.8	3.90	78.165		
1,000.0	994.2	973.4	973.4	2.6	2.0	-176.65	-243.6	-8.8	327.4	323.1	4.33	75.703		
1,100.0	1,091.7	1,061.7	1,061.5	3.0	2.2	-176.74	-248.6	-9.3	354.9	350.2	4.76	74.636		
1,160.7	1,150.6	1,114.3	1,114.0	3.3	2.3	-176.78	-252.6	-9.7	373.9	368.9	5.02	74.505	SF	
1,200.0	1,188.7	1,148.1	1,147.6	3.5	2.4	-176.81	-255.5	-10.1	387.0	381.8	5.19	74.621		
1,300.0	1,285.5	1,233.0	1,232.1	4.0	2.5	-176.86	-264.1	-11.0	421.5	415.9	5.61	75.099		
1,400.0	1,382.4	1,316.5	1,314.9	4.5	2.7	-176.88	-274.4	-12.1	458.1	452.1	6.04	75.795		
1,500.0	1,479.2	1,400.0	1,397.5	5.0	3.0	-176.87	-286.5	-13.4	496.8	490.3	6.48	76.633		
1,600.0	1,576.1	1,479.1	1,475.5	5.5	3.2	-176.85	-299.6	-14.9	537.3	530.4	6.92	77.678		
1,700.0	1,672.9	1,558.1	1,553.1	6.0	3.5	-176.81	-314.3	-16.5	579.8	572.4	7.36	78.810		
1,800.0	1,769.8	1,635.6	1,629.0	6.5	3.7	-176.76	-330.2	-18.2	624.1	616.3	7.80	80.039		
1,900.0	1,866.6	1,711.6	1,702.9	7.0	4.0	-176.71	-347.3	-20.1	670.1	661.9	8.24	81.348		
2,000.0	1,963.5	1,785.9	1,775.0	7.5	4.3	-176.64	-365.5	-22.1	717.9	709.3	8.68	82.714		
2,100.0	2,060.4	1,858.7	1,845.2	8.0	4.7	-176.58	-384.7	-24.2	767.4	758.3	9.13	84.081		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Thornton 28-H Pad Sec.28-T7N-R66W - Thornton R-29-30HN - Wellbore #1 - Plan #1 (1-28-16)											Offset Site Error:		0.0 ft
Survey Program:		0-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-178.00	-255.0	-8.9	255.3						
100.0	100.0	94.0	94.0	0.1	0.1	-178.00	-255.0	-8.9	255.2	255.0	0.22	1,170.381			
200.0	200.0	194.0	194.0	0.3	0.3	-178.00	-255.0	-8.9	255.2	254.5	0.66	386.167	CC, ES		
300.0	300.0	294.0	294.0	0.6	0.5	-175.73	-255.0	-8.9	256.5	255.4	1.12	228.800			
400.0	399.9	393.9	393.9	0.8	0.8	-175.79	-255.0	-8.9	260.4	258.8	1.59	163.960			
500.0	499.7	493.7	493.7	1.0	1.0	-175.88	-255.0	-8.9	266.9	264.9	2.06	129.819			
600.0	599.3	593.3	593.3	1.3	1.2	-176.01	-255.0	-8.9	276.1	273.5	2.52	109.364			
700.0	698.6	692.6	692.6	1.6	1.4	-176.16	-255.0	-8.9	287.8	284.8	2.99	96.175			
800.0	797.5	784.8	784.8	1.9	1.6	-176.30	-256.0	-9.0	303.1	299.7	3.43	88.406			
900.0	896.1	875.4	875.3	2.2	1.8	-176.42	-259.0	-9.3	323.4	319.5	3.86	83.856			
1,000.0	994.2	964.4	964.2	2.6	2.0	-176.51	-264.1	-9.8	348.4	344.1	4.29	81.254			
1,100.0	1,091.7	1,051.6	1,051.1	3.0	2.1	-176.57	-271.1	-10.6	378.2	373.5	4.72	80.046			
1,160.7	1,150.6	1,100.0	1,099.3	3.3	2.2	-176.60	-275.8	-11.0	398.6	393.6	4.98	79.961			
1,200.0	1,188.7	1,136.7	1,135.8	3.5	2.3	-176.63	-279.8	-11.5	412.4	407.3	5.16	79.939	SF		
1,300.0	1,285.5	1,220.4	1,218.8	4.0	2.5	-176.67	-290.2	-12.5	449.1	443.5	5.59	80.357			
1,400.0	1,382.4	1,300.0	1,297.5	4.5	2.8	-176.69	-301.8	-13.7	487.8	481.8	6.02	81.063			
1,500.0	1,479.2	1,383.2	1,379.6	5.0	3.0	-176.68	-315.6	-15.2	528.5	522.0	6.46	81.800			
1,600.0	1,576.1	1,462.4	1,457.3	5.5	3.3	-176.66	-330.5	-16.7	571.1	564.2	6.90	82.754			
1,700.0	1,672.9	1,539.9	1,533.2	6.0	3.6	-176.63	-346.5	-18.3	615.5	608.1	7.34	83.830			
1,800.0	1,769.8	1,616.0	1,607.2	6.5	3.9	-176.59	-363.8	-20.1	661.7	653.9	7.78	85.004			
1,900.0	1,866.6	1,690.4	1,679.4	7.0	4.2	-176.55	-382.0	-22.0	709.6	701.3	8.23	86.250			
2,000.0	1,963.5	1,763.3	1,749.6	7.5	4.6	-176.50	-401.3	-24.0	759.2	750.5	8.67	87.524			

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Thornton 28-H Pad Sec.28-T7N-R66W - Thornton S-29-30HN - Wellbore #1 - Plan #1 (1-28-16)											Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-178.00	-270.0	-9.4	270.2					
100.0	100.0	93.0	93.0	0.1	0.1	-178.00	-270.0	-9.4	270.1	269.9	0.22	1,245.325		
200.0	200.0	193.0	193.0	0.3	0.3	-178.00	-270.0	-9.4	270.1	269.5	0.66	410.176	CC, ES	
300.0	300.0	293.0	293.0	0.6	0.5	-175.72	-270.0	-9.4	271.4	270.3	1.12	242.611		
400.0	399.9	392.9	392.9	0.8	0.8	-175.77	-270.0	-9.4	275.3	273.8	1.59	173.608		
500.0	499.7	492.7	492.7	1.0	1.0	-175.86	-270.0	-9.4	281.9	279.8	2.05	137.232		
600.0	599.3	592.3	592.3	1.3	1.2	-175.98	-270.0	-9.4	291.0	288.5	2.52	115.383		
700.0	698.6	684.8	684.8	1.6	1.4	-176.10	-270.9	-9.5	303.7	300.8	2.96	102.680		
800.0	797.5	775.8	775.8	1.9	1.6	-176.21	-274.0	-9.8	321.4	318.0	3.39	94.916		
900.0	896.1	865.5	865.3	2.2	1.7	-176.30	-279.1	-10.3	344.0	340.1	3.82	90.041		
1,000.0	994.2	953.5	952.9	2.6	1.9	-176.37	-286.2	-11.0	371.3	367.0	4.26	87.172		
1,100.0	1,091.7	1,039.5	1,038.5	3.0	2.1	-176.42	-295.1	-11.8	403.3	398.6	4.70	85.774		
1,160.7	1,150.6	1,090.7	1,089.3	3.3	2.3	-176.44	-301.3	-12.4	424.9	419.9	4.97	85.484	SF	
1,200.0	1,188.7	1,123.4	1,121.8	3.5	2.3	-176.47	-305.6	-12.8	439.6	434.5	5.14	85.535		
1,300.0	1,285.5	1,205.7	1,203.2	4.0	2.6	-176.51	-317.7	-14.0	478.4	472.9	5.57	85.857		
1,400.0	1,382.4	1,286.5	1,282.8	4.5	2.8	-176.53	-331.2	-15.3	519.2	513.2	6.01	86.396		
1,500.0	1,479.2	1,365.8	1,360.7	5.0	3.1	-176.54	-346.1	-16.7	561.8	555.4	6.45	87.119		
1,600.0	1,576.1	1,443.5	1,436.7	5.5	3.4	-176.53	-362.3	-18.2	606.3	599.4	6.89	87.994		
1,700.0	1,672.9	1,519.6	1,510.8	6.0	3.7	-176.51	-379.6	-19.9	652.6	645.3	7.33	88.994		
1,800.0	1,769.8	1,600.0	1,588.6	6.5	4.1	-176.48	-399.5	-21.7	700.7	692.9	7.79	89.939		
1,900.0	1,866.6	1,667.2	1,653.3	7.0	4.4	-176.44	-417.4	-23.4	750.3	742.1	8.22	91.246		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Thornton 28-H Pad Sec.28-T7N-R66W - Thornton T-29-30HC - Wellbore #1 - Plan #1 (1-28-16)											Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-177.99	-284.9	-10.0	285.2						
100.0	100.0	93.0	93.0	0.1	0.1	-177.99	-284.9	-10.0	285.1	284.9	0.22	1,314.235			
200.0	200.0	193.0	193.0	0.3	0.3	-177.99	-284.9	-10.0	285.1	284.4	0.66	432.873	CC, ES		
300.0	300.0	293.0	293.0	0.6	0.5	-175.71	-284.9	-10.0	286.4	285.3	1.12	255.971			
400.0	399.9	392.9	392.9	0.8	0.8	-175.76	-284.9	-10.0	290.3	288.7	1.59	183.033			
500.0	499.7	492.7	492.7	1.0	1.0	-175.85	-284.9	-10.0	296.8	294.8	2.05	144.509			
600.0	599.3	585.4	585.4	1.3	1.2	-175.94	-285.9	-10.1	307.0	304.5	2.49	123.300			
700.0	698.6	676.8	676.7	1.6	1.4	-176.03	-289.0	-10.4	322.1	319.2	2.92	110.336			
800.0	797.5	766.9	766.7	1.9	1.5	-176.11	-294.2	-10.9	342.1	338.8	3.36	101.953			
900.0	896.1	855.6	855.1	2.2	1.7	-176.17	-301.4	-11.5	367.0	363.2	3.80	96.621			
1,000.0	994.2	942.4	941.4	2.6	1.9	-176.22	-310.4	-12.3	396.5	392.3	4.24	93.442			
1,100.0	1,091.7	1,027.2	1,025.6	3.0	2.2	-176.26	-321.1	-13.3	430.7	426.0	4.69	91.818			
1,160.7	1,150.6	1,077.6	1,075.4	3.3	2.3	-176.27	-328.3	-14.0	453.6	448.7	4.96	91.413	SF		
1,200.0	1,188.7	1,109.9	1,107.3	3.5	2.4	-176.30	-333.3	-14.4	469.2	464.0	5.13	91.415			
1,300.0	1,285.5	1,190.8	1,187.0	4.0	2.7	-176.34	-346.9	-15.7	510.0	504.4	5.57	91.604			
1,400.0	1,382.4	1,270.2	1,265.0	4.5	3.0	-176.36	-362.0	-17.1	552.8	546.8	6.01	92.024			
1,500.0	1,479.2	1,348.0	1,341.0	5.0	3.3	-176.37	-378.2	-18.6	597.4	590.9	6.45	92.638			
1,600.0	1,576.1	1,424.2	1,415.2	5.5	3.6	-176.36	-395.7	-20.2	643.8	636.9	6.89	93.412			
1,700.0	1,672.9	1,500.0	1,488.6	6.0	3.9	-176.35	-414.5	-21.9	691.9	684.6	7.34	94.275			
1,800.0	1,769.8	1,571.9	1,557.9	6.5	4.3	-176.32	-433.7	-23.6	741.7	733.9	7.78	95.323			
1,900.0	1,866.6	1,643.3	1,626.3	7.0	4.7	-176.30	-454.0	-25.5	793.2	784.9	8.23	96.369			

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Thornton 28-H Pad Sec.28-T7N-R66W - Thornton U-29-30HN - Wellbore #1 - Plan #2 (2-18-16)										Offset Site Error:		0.0 ft		
Survey Program:		0-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
0.0	0.0	0.0	0.0	0.0	0.0	-177.98	-299.8	-10.6	300.1							
100.0	100.0	93.0	93.0	0.1	0.1	-177.98	-299.8	-10.6	300.0	299.8	0.22	1,383.145				
200.0	200.0	193.0	193.0	0.3	0.3	-177.98	-299.8	-10.6	300.0	299.4	0.66	455.570	CC, ES			
300.0	300.0	293.0	293.0	0.6	0.5	-175.70	-299.8	-10.6	301.3	300.2	1.12	269.332				
400.0	399.9	392.9	392.9	0.8	0.8	-175.75	-299.8	-10.6	305.2	303.7	1.59	192.457				
500.0	499.7	485.7	485.7	1.0	1.0	-175.82	-300.8	-10.6	312.8	310.8	2.02	154.753				
600.0	599.3	577.3	577.2	1.3	1.1	-175.88	-303.9	-10.9	325.3	322.9	2.45	132.629				
700.0	698.6	667.8	667.6	1.6	1.3	-175.94	-309.2	-11.4	342.8	339.9	2.89	118.493				
800.0	797.5	757.0	756.5	1.9	1.5	-176.00	-316.4	-12.0	365.2	361.8	3.34	109.342				
900.0	896.1	844.6	843.6	2.2	1.7	-176.04	-325.6	-12.8	392.3	388.5	3.79	103.521				
1,000.0	994.2	930.3	928.6	2.6	2.0	-176.08	-336.4	-13.8	424.0	419.8	4.24	100.002				
1,100.0	1,091.7	1,013.8	1,011.2	3.0	2.2	-176.11	-348.9	-14.9	460.3	455.7	4.69	98.125				
1,160.7	1,150.6	1,063.4	1,060.0	3.3	2.4	-176.12	-357.1	-15.6	484.5	479.6	4.97	97.589				
1,200.0	1,188.7	1,100.0	1,096.1	3.5	2.5	-176.15	-363.6	-16.1	500.9	495.7	5.15	97.335	SF			
1,300.0	1,285.5	1,174.5	1,169.3	4.0	2.8	-176.18	-377.8	-17.4	543.7	538.2	5.57	97.558				
1,400.0	1,382.4	1,252.5	1,245.4	4.5	3.1	-176.21	-394.2	-18.8	588.4	582.4	6.01	97.838				
1,500.0	1,479.2	1,328.8	1,319.7	5.0	3.5	-176.22	-411.8	-20.4	634.9	628.5	6.46	98.324				
1,600.0	1,576.1	1,400.0	1,388.6	5.5	3.8	-176.22	-429.5	-21.9	683.2	676.3	6.89	99.087				
1,700.0	1,672.9	1,476.7	1,462.5	6.0	4.2	-176.21	-450.0	-23.7	733.1	725.8	7.35	99.784				
1,800.0	1,769.8	1,548.2	1,531.0	6.5	4.6	-176.20	-470.5	-25.5	784.7	776.9	7.80	100.569				

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton V-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-177.98	-314.8	-11.1	315.1						
100.0	100.0	92.0	92.0	0.1	0.1	-177.98	-314.8	-11.1	315.0	314.8	0.22	1,459.623			
200.0	200.0	192.0	192.0	0.3	0.3	-177.98	-314.8	-11.1	315.0	314.3	0.66	479.912	CC, ES		
300.0	300.0	292.0	292.0	0.6	0.5	-175.70	-314.8	-11.1	316.3	315.2	1.12	283.258			
400.0	399.9	384.8	384.8	0.8	0.7	-175.73	-315.7	-11.2	321.2	319.7	1.55	207.069			
500.0	499.7	476.5	476.4	1.0	0.9	-175.77	-318.8	-11.5	331.1	329.2	1.99	166.706			
600.0	599.3	567.3	567.1	1.3	1.1	-175.81	-324.1	-11.9	346.0	343.6	2.43	142.306			
700.0	698.6	657.0	656.5	1.6	1.3	-175.86	-331.4	-12.5	365.8	362.9	2.88	126.875			
800.0	797.5	745.2	744.2	1.9	1.5	-175.90	-340.6	-13.3	390.4	387.1	3.34	116.965			
900.0	896.1	831.7	829.9	2.2	1.8	-175.93	-351.6	-14.2	419.7	415.9	3.79	110.647			
1,000.0	994.2	916.1	913.4	2.6	2.1	-175.96	-364.2	-15.2	453.6	449.4	4.25	106.773			
1,100.0	1,091.7	1,000.0	996.1	3.0	2.4	-175.98	-378.5	-16.4	492.0	487.3	4.71	104.541			
1,160.7	1,150.6	1,047.0	1,042.2	3.3	2.5	-175.99	-387.3	-17.1	517.4	512.4	4.98	103.948			
1,200.0	1,188.7	1,078.1	1,072.7	3.5	2.7	-176.01	-393.5	-17.7	534.5	529.3	5.15	103.808			
1,300.0	1,285.5	1,156.1	1,149.0	4.0	3.0	-176.05	-410.0	-19.0	579.3	573.7	5.59	103.663	SF		
1,400.0	1,382.4	1,232.6	1,223.3	4.5	3.3	-176.08	-427.7	-20.5	625.9	619.9	6.03	103.783			
1,500.0	1,479.2	1,300.0	1,288.6	5.0	3.7	-176.10	-444.5	-21.9	674.3	667.8	6.46	104.397			
1,600.0	1,576.1	1,380.6	1,366.3	5.5	4.1	-176.10	-466.1	-23.7	724.3	717.3	6.92	104.639			
1,700.0	1,672.9	1,452.2	1,434.8	6.0	4.5	-176.10	-486.7	-25.4	775.9	768.5	7.38	105.204			

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design		Thornton 28-H Pad Sec.28-T7N-R66W - Thornton W-29-30HC - Wellbore #1 - Plan #1 (1-28-16)											Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-177.97	-329.7	-11.7	330.0						
100.0	100.0	92.0	92.0	0.1	0.1	-177.97	-329.7	-11.7	329.9	329.7	0.22	1,528.891			
200.0	200.0	192.0	192.0	0.3	0.3	-177.97	-329.7	-11.7	329.9	329.3	0.66	502.686	CC, ES		
300.0	300.0	284.6	284.6	0.6	0.5	-175.68	-330.6	-11.7	332.2	331.2	1.08	306.524			
400.0	399.9	376.3	376.3	0.8	0.7	-175.69	-333.8	-12.0	339.6	338.0	1.52	222.835			
500.0	499.7	467.3	467.1	1.0	0.9	-175.71	-339.0	-12.4	351.9	349.9	1.98	178.065			
600.0	599.3	557.4	556.8	1.3	1.1	-175.74	-346.4	-13.0	369.1	366.6	2.43	151.620			
700.0	698.6	646.1	645.1	1.6	1.4	-175.76	-355.6	-13.8	391.2	388.3	2.89	135.135			
800.0	797.5	733.2	731.5	1.9	1.6	-175.79	-366.7	-14.7	418.0	414.6	3.36	124.585			
900.0	896.1	818.4	815.7	2.2	1.9	-175.81	-379.5	-15.7	449.5	445.7	3.81	117.829			
1,000.0	994.2	900.0	896.1	2.6	2.2	-175.83	-393.5	-16.8	485.5	481.2	4.27	113.720			
1,100.0	1,091.7	982.3	976.9	3.0	2.5	-175.84	-409.3	-18.1	525.9	521.2	4.73	111.212			
1,160.7	1,150.6	1,030.1	1,023.6	3.3	2.7	-175.84	-419.3	-18.9	552.5	547.5	5.00	110.409			
1,200.0	1,188.7	1,060.7	1,053.4	3.5	2.9	-175.87	-426.0	-19.5	570.4	565.2	5.18	110.189			
1,300.0	1,285.5	1,137.2	1,127.9	4.0	3.2	-175.91	-443.7	-20.9	617.1	611.5	5.62	109.859			
1,400.0	1,382.4	1,212.2	1,200.3	4.5	3.6	-175.94	-462.6	-22.4	665.5	659.5	6.06	109.809	SF		
1,500.0	1,479.2	1,285.4	1,270.9	5.0	4.0	-175.96	-482.4	-24.1	715.6	709.1	6.51	109.987			
1,600.0	1,576.1	1,357.1	1,339.5	5.5	4.4	-175.97	-503.1	-25.7	767.4	760.5	6.96	110.297			

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design Thornton 28-H Pad Sec.28-T7N-R66W - Thornton X-29-30HN - Wellbore #1 - Plan #1 (1-28-16)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-177.97	-344.6	-12.2	345.0					
100.0	100.0	92.0	92.0	0.1	0.1	-177.97	-344.6	-12.2	344.9	344.6	0.22	1,598.141 CC, ES		
200.0	200.0	184.4	184.4	0.3	0.3	-177.96	-345.6	-12.3	345.9	345.3	0.62	553.854		
300.0	300.0	275.9	275.9	0.6	0.5	-175.65	-348.7	-12.5	350.6	349.5	1.07	328.465		
400.0	399.9	367.0	366.8	0.8	0.7	-175.65	-353.9	-13.0	360.3	358.8	1.53	235.671		
500.0	499.7	457.2	456.7	1.0	0.9	-175.65	-361.3	-13.5	374.9	372.9	1.99	187.977		
600.0	599.3	546.3	545.3	1.3	1.2	-175.66	-370.6	-14.3	394.4	392.0	2.46	160.288		
700.0	698.6	634.0	632.3	1.6	1.5	-175.67	-381.8	-15.2	418.8	415.8	2.93	143.102		
800.0	797.5	720.0	717.3	1.9	1.8	-175.69	-394.7	-16.2	447.8	444.4	3.39	132.080		
900.0	896.1	800.0	796.1	2.2	2.1	-175.70	-408.4	-17.3	481.4	477.6	3.84	125.268		
1,000.0	994.2	885.7	880.2	2.6	2.4	-175.71	-424.9	-18.6	519.5	515.2	4.31	120.479		
1,100.0	1,091.7	965.1	957.7	3.0	2.8	-175.72	-441.9	-19.9	561.9	557.1	4.77	117.832		
1,160.7	1,150.6	1,012.0	1,003.3	3.3	3.0	-175.72	-452.7	-20.7	589.6	584.6	5.04	116.906		
1,200.0	1,188.7	1,041.9	1,032.4	3.5	3.1	-175.74	-459.8	-21.3	608.3	603.0	5.22	116.609		
1,300.0	1,285.5	1,116.9	1,104.9	4.0	3.5	-175.78	-478.8	-22.8	656.8	651.2	5.66	116.091		
1,400.0	1,382.4	1,190.3	1,175.5	4.5	3.9	-175.82	-498.7	-24.4	707.1	701.0	6.10	115.860 SF		
1,500.0	1,479.2	1,262.0	1,244.2	5.0	4.3	-175.84	-519.5	-26.0	758.9	752.4	6.55	115.873		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Walton 25D Pad Sec.25-T7N-R67W - Walton A-25HN - Wellbore #1 - Plan #1 (1-14-15)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
17,600.0	7,298.6	7,100.0	7,012.3	290.5	20.4	-0.82	1,167.5	-11,066.8	716.8	631.4	85.47	8.387	
17,700.0	7,298.1	7,130.3	7,038.4	293.3	20.4	-0.85	1,167.4	-11,082.2	630.5	544.3	86.25	7.311	
17,800.0	7,297.6	7,150.0	7,055.0	296.1	20.3	-0.87	1,167.3	-11,092.8	546.4	459.4	87.00	6.280	
17,900.0	7,297.1	7,200.0	7,095.8	298.9	20.2	-0.94	1,167.0	-11,121.7	464.5	376.7	87.80	5.290	
17,922.5	7,297.0	7,200.0	7,095.8	299.5	20.2	-0.94	1,167.0	-11,121.7	446.4	358.4	87.97	5.075 CC, ES, SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Walton 25D Pad Sec.25-T7N-R67W - Walton B-25HC - Wellbore #1 - Plan #1 (1-14-15)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
17,500.0	7,299.1	7,100.0	7,039.3	287.7	19.4	-27.46	1,002.8	-11,038.9	789.9	633.4	156.57	5.045	
17,600.0	7,298.6	7,125.8	7,062.5	290.5	19.3	-29.20	1,002.6	-11,050.1	702.2	537.4	164.77	4.262	
17,700.0	7,298.1	7,150.0	7,083.9	293.3	19.3	-31.00	1,002.5	-11,061.5	616.5	443.2	173.30	3.558	
17,800.0	7,297.6	7,178.5	7,108.5	296.1	19.3	-33.33	1,002.4	-11,075.7	533.5	349.5	184.00	2.899	
17,900.0	7,297.1	7,210.8	7,135.8	298.9	19.2	-36.30	1,002.3	-11,093.0	453.9	256.6	197.25	2.301	
17,922.5	7,297.0	7,218.8	7,142.4	299.5	19.2	-37.09	1,002.2	-11,097.5	436.6	235.9	200.68	2.175 CC, ES, SF	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Walton 25D Pad Sec.25-T7N-R67W - Walton C-25HN - Wellbore #1 - Plan #1 (1-14-15)													Offset Well Error:	0.0 ft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
17,600.0	7,298.6	7,075.8	7,015.0	290.5	18.2	-43.58	837.5	-11,069.9	797.8	579.5	218.29	3.655		
17,700.0	7,298.1	7,100.0	7,035.8	293.3	18.1	-45.32	837.4	-11,082.1	720.2	493.8	226.32	3.182		
17,800.0	7,297.6	7,131.1	7,062.0	296.1	18.1	-47.67	837.2	-11,099.0	646.5	410.1	236.33	2.735		
17,900.0	7,297.1	7,164.6	7,089.4	298.9	18.1	-50.33	837.1	-11,118.3	577.7	330.5	247.18	2.337		
17,922.5	7,297.0	7,172.8	7,095.9	299.5	18.1	-50.99	837.0	-11,123.3	563.0	313.2	249.81	2.254 CC, ES, SF		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4932.0ft (RKB - 23')

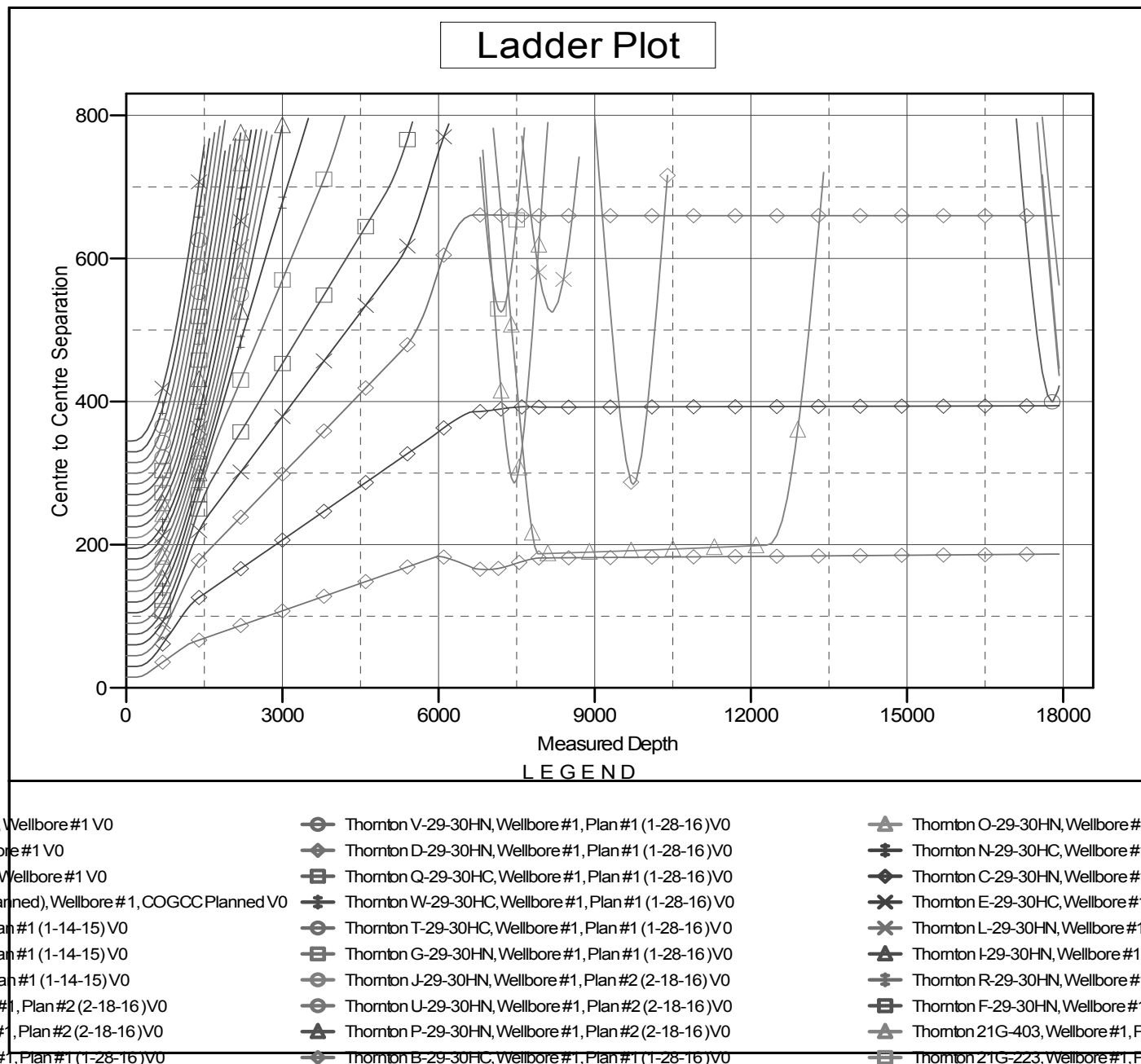
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: Thornton A-29-30HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.46°



Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Thornton A-29-30HN
Project:	SEC.28-T7N-R66W	TVD Reference:	WELL @ 4932.0ft (RKB - 23')
Reference Site:	Thornton 28-H Pad Sec.28-T7N-R66W	MD Reference:	WELL @ 4932.0ft (RKB - 23')
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Thornton A-29-30HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #1 (1-28-16)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4932.0ft (RKB - 23')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: Thornton A-29-30HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.46°

