

Bayswater Exploration & Production, LLC

Well Name: **Wilkinson E-12HC**

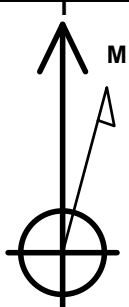
Surface Location: Wilkinson 1-P Pad Sec.1-T6N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4776.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1429423.18	3244863.76	40.508830	-104.619381	
		RKB - 22.5'	WELL @ 4798.5ft (RKB - 22.5')			

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 316'FSL, 360'FWL, SEC.1	1.0	0.0	0.0	Point
BHL 470'FSL, 965'FWL, SEC.12	7039.5	-5134.0	545.1	Point
LPL 50'FNL, 965'FWL, SEC.12	7066.5	-381.4	602.3	Point



Azimuths to True North
Magnetic North: 8.24°

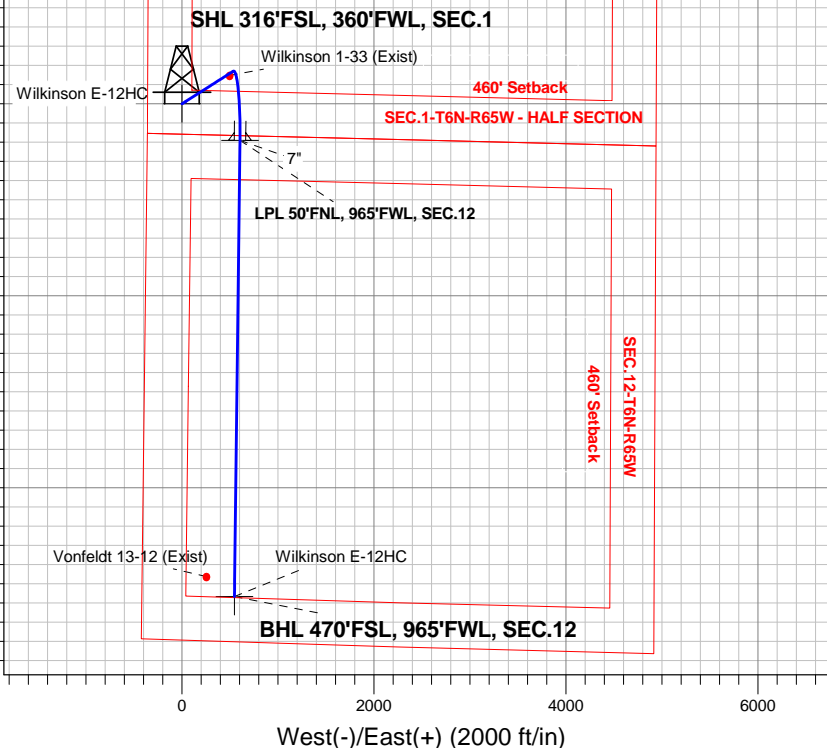
Magnetic Field
Strength: 52768.7nT
Dip Angle: 67.02°
Date: 7/31/2015
Model: IGRF2010

Wilkinson 1-P Pad Sec.1-T6N-R65W
Wilkinson E-12HC
Plan #1 (7-29-15)
11:27, July 31 2015

ANNOTATIONS

TVD	MD	Annotation
900.0	900.0	KOP - Start Build 1.00
1608.8	1610.6	Start 4733.6 hold at 1610.6 MD
6306.0	6344.2	Start DLS 8.00 TFO 122.93
7066.5	7521.8	Start 4753.0 hold at 7521.8 MD
7039.5	12274.7	TD at 12274.7

South(-)/North(+) (2000 ft/in)

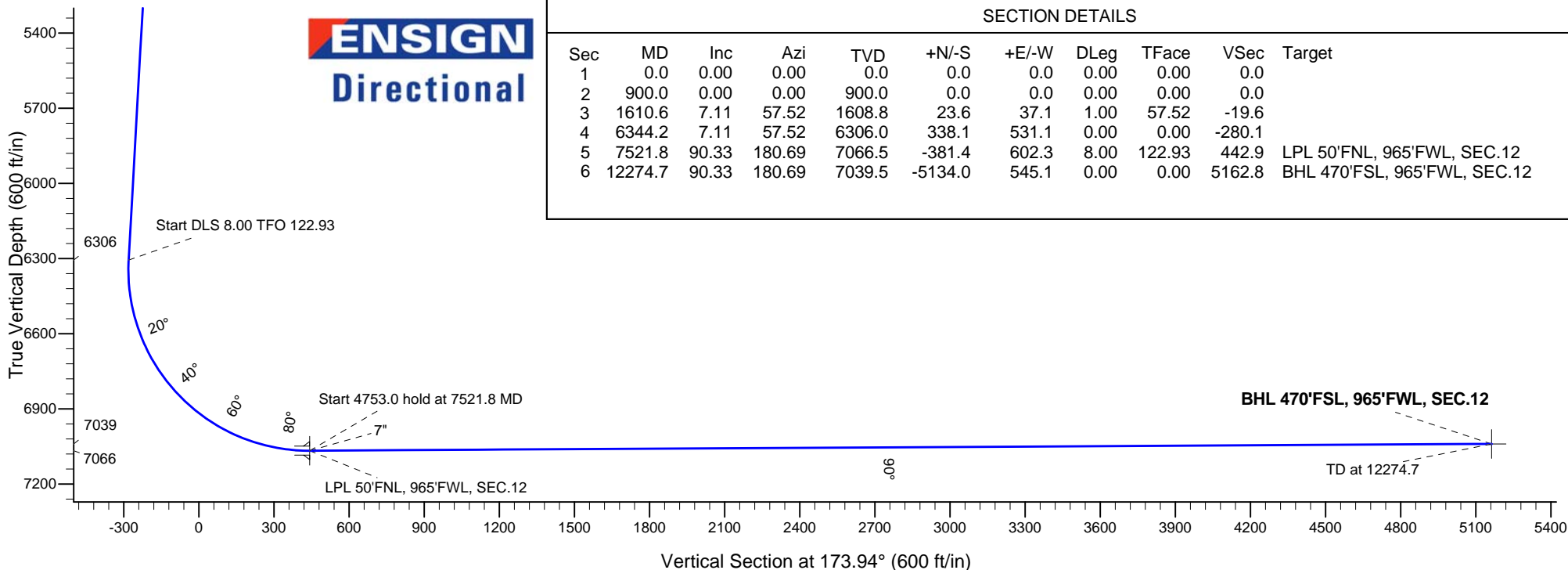


West(-)/East(+) (2000 ft/in)

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	900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.0	
3	1610.6	7.11	57.52	1608.8	23.6	37.1	1.00	57.52	-19.6	
4	6344.2	7.11	57.52	6306.0	338.1	531.1	0.00	0.00	-280.1	
5	7521.8	90.33	180.69	7066.5	-381.4	602.3	8.00	122.93	442.9	LPL 50'FNL, 965'FWL, SEC.12
6	12274.7	90.33	180.69	7039.5	-5134.0	545.1	0.00	0.00	5162.8	BHL 470'FSL, 965'FWL, SEC.12





Bayswater Exploration & Production, LLC

SEC.1-T6N-R65W

Wilkinson 1-P Pad Sec.1-T6N-R65W

Wilkinson E-12HC

Wellbore #1

Plan: Plan #1 (7-29-15)

Standard Planning Report

31 July, 2015



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Database:	EDMNEW	Local Co-ordinate Reference:	Well Wilkinson E-12HC
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4798.5ft (RKB - 22.5')
Project:	SEC.1-T6N-R65W	MD Reference:	WELL @ 4798.5ft (RKB - 22.5')
Site:	Wilkinson 1-P Pad Sec.1-T6N-R65W	North Reference:	True
Well:	Wilkinson E-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-29-15)		

Project	SEC.1-T6N-R65W, 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		Wilkinson 1-P Pad Sec.1-T6N-R65W				
Site Position:		Northing:	1,429,424.05 ft	Latitude:	40.508834	
From:	Lat/Long	Easting:	3,244,803.96 ft	Longitude:	-104.619596	
Position Uncertainty:		0.0 ft	Slot Radius:	"	Grid Convergence:	0.57 °

Well	Wilkinson E-12HC					
Well Position	+N-S	-1.5 ft	Northing:	1,429,423.18 ft	Latitude:	40.508830
	+E-W	59.8 ft	Easting:	3,244,863.76 ft	Longitude:	-104.619381
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,776.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/31/2015	8.24	67.02	52,769

Design	Plan #1 (7-29-15)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	173.94

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,610.6	7.11	57.52	1,608.8	23.6	37.1	1.00	1.00	0.00	57.52	
6,344.2	7.11	57.52	6,306.0	338.1	531.1	0.00	0.00	0.00	0.00	
7,521.8	90.33	180.69	7,066.5	-381.4	602.3	8.00	7.07	10.46	122.93	LPL 50'FNL, 965'FV
12,274.7	90.33	180.69	7,039.5	-5,134.0	545.1	0.00	0.00	0.00	0.00	BHL 470'FSL, 965'F

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Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4798.5ft (RKB - 22.5')
Project:	SEC.1-T6N-R65W	MD Reference:	WELL @ 4798.5ft (RKB - 22.5')
Site:	Wilkinson 1-P Pad Sec.1-T6N-R65W	North Reference:	True
Well:	Wilkinson E-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-29-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 316'FSL, 360'FWL, SEC.1									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
1,000.0	1.00	57.52	1,000.0	0.5	0.7	-0.4	1.00	1.00	0.00
1,100.0	2.00	57.52	1,100.0	1.9	2.9	-1.6	1.00	1.00	0.00
1,200.0	3.00	57.52	1,199.9	4.2	6.6	-3.5	1.00	1.00	0.00
1,300.0	4.00	57.52	1,299.7	7.5	11.8	-6.2	1.00	1.00	0.00
1,400.0	5.00	57.52	1,399.4	11.7	18.4	-9.7	1.00	1.00	0.00
1,500.0	6.00	57.52	1,498.9	16.9	26.5	-14.0	1.00	1.00	0.00
1,600.0	7.00	57.52	1,598.3	22.9	36.0	-19.0	1.00	1.00	0.00
1,610.6	7.11	57.52	1,608.8	23.6	37.1	-19.6	1.00	1.00	0.00
Start 4733.6 hold at 1610.6 MD									
1,700.0	7.11	57.52	1,697.5	29.6	46.5	-24.5	0.00	0.00	0.00
1,800.0	7.11	57.52	1,796.7	36.2	56.9	-30.0	0.00	0.00	0.00
1,900.0	7.11	57.52	1,896.0	42.9	67.3	-35.5	0.00	0.00	0.00
2,000.0	7.11	57.52	1,995.2	49.5	77.8	-41.0	0.00	0.00	0.00
2,100.0	7.11	57.52	2,094.4	56.1	88.2	-46.5	0.00	0.00	0.00
2,200.0	7.11	57.52	2,193.7	62.8	98.6	-52.0	0.00	0.00	0.00
2,300.0	7.11	57.52	2,292.9	69.4	109.1	-57.5	0.00	0.00	0.00
2,400.0	7.11	57.52	2,392.1	76.1	119.5	-63.0	0.00	0.00	0.00
2,500.0	7.11	57.52	2,491.3	82.7	129.9	-68.5	0.00	0.00	0.00
2,600.0	7.11	57.52	2,590.6	89.4	140.4	-74.0	0.00	0.00	0.00
2,700.0	7.11	57.52	2,689.8	96.0	150.8	-79.5	0.00	0.00	0.00
2,800.0	7.11	57.52	2,789.0	102.6	161.3	-85.0	0.00	0.00	0.00
2,900.0	7.11	57.52	2,888.3	109.3	171.7	-90.5	0.00	0.00	0.00
3,000.0	7.11	57.52	2,987.5	115.9	182.1	-96.1	0.00	0.00	0.00
3,100.0	7.11	57.52	3,086.7	122.6	192.6	-101.6	0.00	0.00	0.00
3,200.0	7.11	57.52	3,186.0	129.2	203.0	-107.1	0.00	0.00	0.00
3,300.0	7.11	57.52	3,285.2	135.9	213.4	-112.6	0.00	0.00	0.00
3,400.0	7.11	57.52	3,384.4	142.5	223.9	-118.1	0.00	0.00	0.00
3,500.0	7.11	57.52	3,483.7	149.1	234.3	-123.6	0.00	0.00	0.00
3,600.0	7.11	57.52	3,582.9	155.8	244.7	-129.1	0.00	0.00	0.00
3,700.0	7.11	57.52	3,682.1	162.4	255.2	-134.6	0.00	0.00	0.00
3,800.0	7.11	57.52	3,781.4	169.1	265.6	-140.1	0.00	0.00	0.00
3,900.0	7.11	57.52	3,880.6	175.7	276.1	-145.6	0.00	0.00	0.00
4,000.0	7.11	57.52	3,979.8	182.4	286.5	-151.1	0.00	0.00	0.00
4,100.0	7.11	57.52	4,079.1	189.0	296.9	-156.6	0.00	0.00	0.00
4,200.0	7.11	57.52	4,178.3	195.6	307.4	-162.1	0.00	0.00	0.00
4,300.0	7.11	57.52	4,277.5	202.3	317.8	-167.6	0.00	0.00	0.00
4,400.0	7.11	57.52	4,376.8	208.9	328.2	-173.1	0.00	0.00	0.00
4,500.0	7.11	57.52	4,476.0	215.6	338.7	-178.6	0.00	0.00	0.00
4,600.0	7.11	57.52	4,575.2	222.2	349.1	-184.1	0.00	0.00	0.00
4,700.0	7.11	57.52	4,674.4	228.9	359.5	-189.6	0.00	0.00	0.00

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Site:	Wilkinson 1-P Pad Sec.1-T6N-R65W	North Reference:	True
Well:	Wilkinson E-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-29-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,800.0	7.11	57.52	4,773.7	235.5	370.0	-195.1	0.00	0.00	0.00
4,900.0	7.11	57.52	4,872.9	242.1	380.4	-200.6	0.00	0.00	0.00
5,000.0	7.11	57.52	4,972.1	248.8	390.9	-206.1	0.00	0.00	0.00
5,100.0	7.11	57.52	5,071.4	255.4	401.3	-211.6	0.00	0.00	0.00
5,200.0	7.11	57.52	5,170.6	262.1	411.7	-217.1	0.00	0.00	0.00
5,300.0	7.11	57.52	5,269.8	268.7	422.2	-222.6	0.00	0.00	0.00
5,400.0	7.11	57.52	5,369.1	275.4	432.6	-228.2	0.00	0.00	0.00
5,500.0	7.11	57.52	5,468.3	282.0	443.0	-233.7	0.00	0.00	0.00
5,600.0	7.11	57.52	5,567.5	288.6	453.5	-239.2	0.00	0.00	0.00
5,700.0	7.11	57.52	5,666.8	295.3	463.9	-244.7	0.00	0.00	0.00
5,800.0	7.11	57.52	5,766.0	301.9	474.4	-250.2	0.00	0.00	0.00
5,900.0	7.11	57.52	5,865.2	308.6	484.8	-255.7	0.00	0.00	0.00
6,000.0	7.11	57.52	5,964.5	315.2	495.2	-261.2	0.00	0.00	0.00
6,100.0	7.11	57.52	6,063.7	321.9	505.7	-266.7	0.00	0.00	0.00
6,200.0	7.11	57.52	6,162.9	328.5	516.1	-272.2	0.00	0.00	0.00
6,300.0	7.11	57.52	6,262.2	335.1	526.5	-277.7	0.00	0.00	0.00
6,344.2	7.11	57.52	6,306.0	338.1	531.1	-280.1	0.00	0.00	0.00
Start DLS 8.00 TFO 122.93									
6,400.0	5.99	96.29	6,361.5	339.6	537.0	-281.0	8.00	-2.00	69.47
6,500.0	10.44	146.14	6,460.5	331.5	547.2	-271.9	8.00	4.45	49.85
6,600.0	17.60	161.44	6,557.5	309.6	557.1	-249.1	8.00	7.16	15.30
6,700.0	25.25	167.87	6,650.6	274.4	566.4	-213.1	8.00	7.66	6.43
6,800.0	33.07	171.43	6,737.8	226.5	575.0	-164.5	8.00	7.81	3.56
6,900.0	40.95	173.74	6,817.6	166.8	582.6	-104.4	8.00	7.88	2.32
7,000.0	48.86	175.42	6,888.4	96.6	589.2	-33.9	8.00	7.91	1.68
7,100.0	56.79	176.74	6,948.8	17.2	594.6	45.7	8.00	7.93	1.31
7,200.0	64.73	177.83	6,997.6	-69.9	598.7	132.7	8.00	7.94	1.09
7,300.0	72.68	178.79	7,033.9	-163.0	601.4	225.6	8.00	7.95	0.96
7,400.0	80.64	179.67	7,056.9	-260.2	602.7	322.4	8.00	7.95	0.88
7,500.0	88.59	180.51	7,066.3	-359.7	602.5	421.3	8.00	7.96	0.84
7,521.8	90.32	180.69	7,066.5	-381.4	602.3	442.9	7.99	7.94	0.83
Start 4753.0 hold at 7521.8 MD - 7" - LPL 50'FNL, 965'FWL, SEC.12									
7,600.0	90.33	180.69	7,066.1	-459.7	601.4	520.6	0.00	0.00	0.00
7,700.0	90.33	180.69	7,065.5	-559.7	600.2	619.9	0.00	0.00	0.00
7,800.0	90.33	180.69	7,064.9	-659.6	599.0	719.2	0.00	0.00	0.00
7,900.0	90.33	180.69	7,064.4	-759.6	597.8	818.5	0.00	0.00	0.00
8,000.0	90.33	180.69	7,063.8	-859.6	596.6	917.8	0.00	0.00	0.00
8,100.0	90.33	180.69	7,063.2	-959.6	595.4	1,017.1	0.00	0.00	0.00
8,200.0	90.33	180.69	7,062.6	-1,059.6	594.2	1,116.4	0.00	0.00	0.00
8,300.0	90.33	180.69	7,062.1	-1,159.6	593.0	1,215.7	0.00	0.00	0.00
8,400.0	90.33	180.69	7,061.5	-1,259.6	591.8	1,315.0	0.00	0.00	0.00
8,500.0	90.33	180.69	7,060.9	-1,359.6	590.5	1,414.3	0.00	0.00	0.00
8,600.0	90.33	180.69	7,060.4	-1,459.6	589.3	1,513.6	0.00	0.00	0.00
8,700.0	90.33	180.69	7,059.8	-1,559.6	588.1	1,612.9	0.00	0.00	0.00
8,800.0	90.33	180.69	7,059.2	-1,659.6	586.9	1,712.2	0.00	0.00	0.00
8,900.0	90.33	180.69	7,058.7	-1,759.5	585.7	1,811.5	0.00	0.00	0.00
9,000.0	90.33	180.69	7,058.1	-1,859.5	584.5	1,910.9	0.00	0.00	0.00
9,100.0	90.33	180.69	7,057.5	-1,959.5	583.3	2,010.2	0.00	0.00	0.00
9,200.0	90.33	180.69	7,057.0	-2,059.5	582.1	2,109.5	0.00	0.00	0.00
9,300.0	90.33	180.69	7,056.4	-2,159.5	580.9	2,208.8	0.00	0.00	0.00
9,400.0	90.33	180.69	7,055.8	-2,259.5	579.7	2,308.1	0.00	0.00	0.00
9,500.0	90.33	180.69	7,055.3	-2,359.5	578.5	2,407.4	0.00	0.00	0.00
9,600.0	90.33	180.69	7,054.7	-2,459.5	577.3	2,506.7	0.00	0.00	0.00
9,700.0	90.33	180.69	7,054.1	-2,559.5	576.1	2,606.0	0.00	0.00	0.00

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Well:	Wilkinson E-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,800.0	90.33	180.69	7,053.6	-2,659.5	574.9	2,705.3	0.00	0.00	0.00	
9,900.0	90.33	180.69	7,053.0	-2,759.5	573.7	2,804.6	0.00	0.00	0.00	
10,000.0	90.33	180.69	7,052.4	-2,859.4	572.5	2,903.9	0.00	0.00	0.00	
10,100.0	90.33	180.69	7,051.9	-2,959.4	571.3	3,003.2	0.00	0.00	0.00	
10,200.0	90.33	180.69	7,051.3	-3,059.4	570.1	3,102.5	0.00	0.00	0.00	
10,300.0	90.33	180.69	7,050.7	-3,159.4	568.9	3,201.8	0.00	0.00	0.00	
10,400.0	90.33	180.69	7,050.1	-3,259.4	567.7	3,301.1	0.00	0.00	0.00	
10,500.0	90.33	180.69	7,049.6	-3,359.4	566.5	3,400.4	0.00	0.00	0.00	
10,600.0	90.33	180.69	7,049.0	-3,459.4	565.3	3,499.7	0.00	0.00	0.00	
10,700.0	90.33	180.69	7,048.4	-3,559.4	564.1	3,599.0	0.00	0.00	0.00	
10,800.0	90.33	180.69	7,047.9	-3,659.4	562.9	3,698.4	0.00	0.00	0.00	
10,900.0	90.33	180.69	7,047.3	-3,759.4	561.7	3,797.7	0.00	0.00	0.00	
11,000.0	90.33	180.69	7,046.7	-3,859.4	560.5	3,897.0	0.00	0.00	0.00	
11,100.0	90.33	180.69	7,046.2	-3,959.4	559.3	3,996.3	0.00	0.00	0.00	
11,200.0	90.33	180.69	7,045.6	-4,059.3	558.1	4,095.6	0.00	0.00	0.00	
11,300.0	90.33	180.69	7,045.0	-4,159.3	556.9	4,194.9	0.00	0.00	0.00	
11,400.0	90.33	180.69	7,044.5	-4,259.3	555.7	4,294.2	0.00	0.00	0.00	
11,500.0	90.33	180.69	7,043.9	-4,359.3	554.5	4,393.5	0.00	0.00	0.00	
11,600.0	90.33	180.69	7,043.3	-4,459.3	553.3	4,492.8	0.00	0.00	0.00	
11,700.0	90.33	180.69	7,042.8	-4,559.3	552.1	4,592.1	0.00	0.00	0.00	
11,800.0	90.33	180.69	7,042.2	-4,659.3	550.8	4,691.4	0.00	0.00	0.00	
11,900.0	90.33	180.69	7,041.6	-4,759.3	549.6	4,790.7	0.00	0.00	0.00	
12,000.0	90.33	180.69	7,041.1	-4,859.3	548.4	4,890.0	0.00	0.00	0.00	
12,100.0	90.33	180.69	7,040.5	-4,959.3	547.2	4,989.3	0.00	0.00	0.00	
12,200.0	90.33	180.69	7,039.9	-5,059.3	546.0	5,088.6	0.00	0.00	0.00	
12,274.7	90.33	180.69	7,039.5	-5,134.0	545.1	5,162.8	0.00	0.00	0.00	
TD at 12274.7 - BHL 470'FSL, 965'FWL, SEC.12										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
LPL 50'FNL, 965'FWL - hit/miss target - Shape - Point	0.00	0.00	7,066.5	-381.4	602.3	1,429,047.76	3,245,469.81	40.507783	-104.617215	
BHL 470'FSL, 965'FW - plan hits target center - Point	0.00	0.00	7,039.5	-5,134.0	545.1	1,424,295.06	3,245,459.83	40.494738	-104.617421	
SHL 316'FSL, 360'FW - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,429,423.18	3,244,863.76	40.508830	-104.619381	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,521.8	7,066.5	7"	7	7-1/2	

Database:	EDMNEW	Local Co-ordinate Reference:	Well Wilkinson E-12HC
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 4798.5ft (RKB - 22.5')
Project:	SEC.1-T6N-R65W	MD Reference:	WELL @ 4798.5ft (RKB - 22.5')
Site:	Wilkinson 1-P Pad Sec.1-T6N-R65W	North Reference:	True
Well:	Wilkinson E-12HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-29-15)		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
900.0	900.0	0.0	0.0	KOP - Start Build 1.00
1,610.6	1,608.8	23.6	37.1	Start 4733.6 hold at 1610.6 MD
6,344.2	6,306.0	338.1	531.1	Start DLS 8.00 TFO 122.93
7,521.8	7,066.5	-381.4	602.3	Start 4753.0 hold at 7521.8 MD
12,274.7	7,039.5	-5,134.0	545.1	TD at 12274.7