

Magpie Operating, Inc.

Well Name: **Bunker 8-5H**

Surface Location: Bunker 8 Well Pad Sec.29-T5N-R68W

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

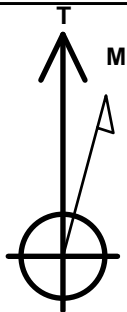
Ground Elevation: 4989.0

+N/-S/E/-W Northing Easting Latitude Longitude Slot
0.0 0.01377815.33130397.98 40.369560 -105.032010

Original Well Elev WELL @ 5005.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2080'FSL, 2275'FWL, SEC.29	1.0	0.0	0.0	Point
BHL 2209'FSL, 1979'FWL, SEC.30	4705.0	135.4	-5592.4	Point
LPL 2112'FSL, 647'FEL, SEC.29	4805.0	113.1	2315.5	Point



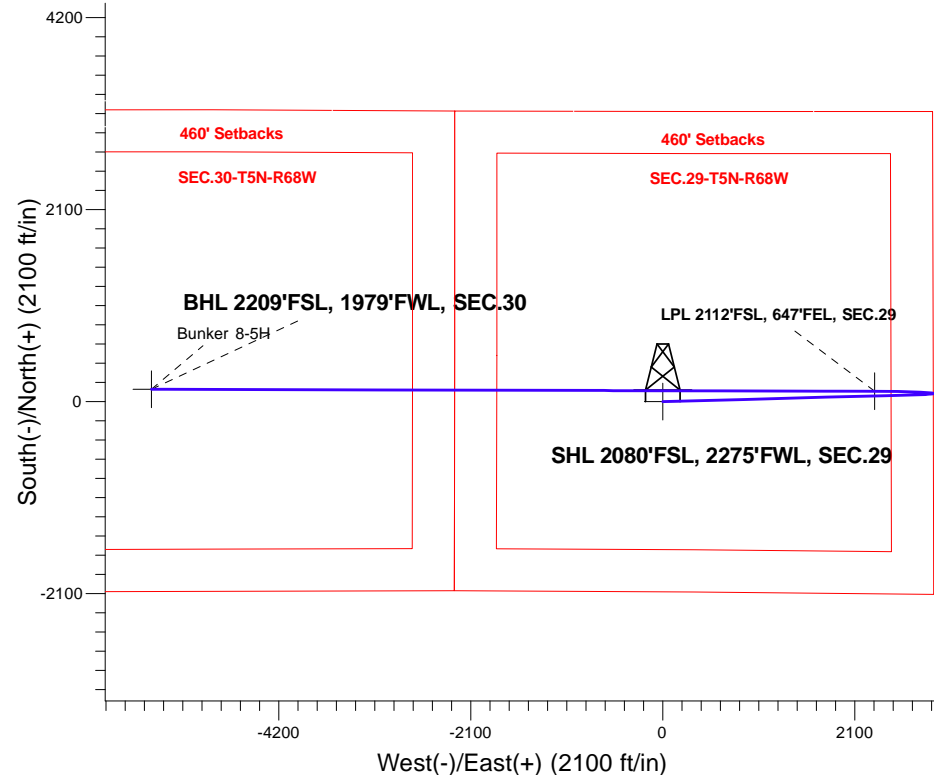
Azimuths to True North
Magnetic North: 8.37°

Magnetic Field
Strength: 52206.0snT
Dip Angle: 66.62°
Date: 12/7/2018
Model: HDGM

Bunker 8 Well Pad Sec.29-T5N-R68W
Bunker 8-5H
Plan #2 (12-06-18)
9:46, December 07 2018

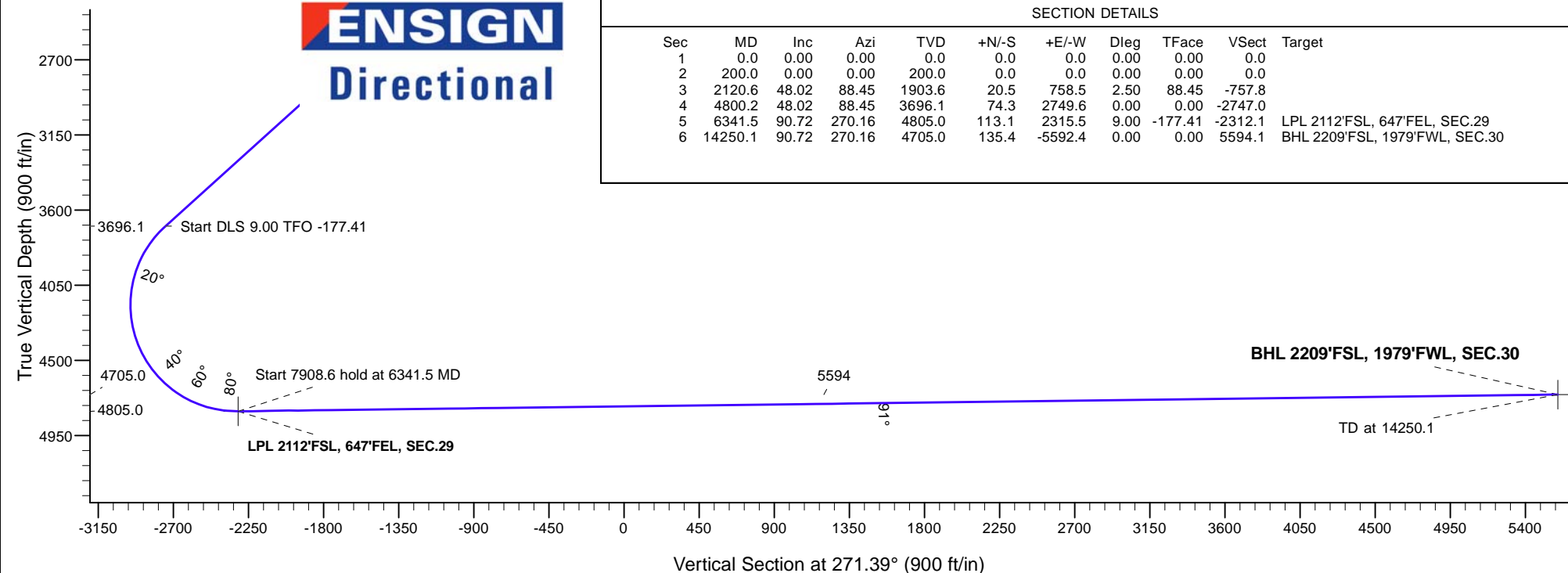
ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	KOP - Start Build 2.50
1903.6	2120.6	Start 2679.6 hold at 2120.6 MD
3696.1	4800.2	Start DLS 9.00 TFO -177.41
4805.0	6341.5	Start 7908.6 hold at 6341.5 MD
4705.0	14250.1	TD at 14250.1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	2120.6	48.02	88.45	1903.6	20.5	758.5	2.50	88.45	-757.8	
4	4800.2	48.02	88.45	3696.1	74.3	2749.6	0.00	0.00	-2747.0	
5	6341.5	90.72	270.16	4805.0	113.1	2315.5	9.00	-177.41	-2312.1	LPL 2112'FSL, 647'FEL, SEC.29
6	14250.1	90.72	270.16	4705.0	135.4	-5592.4	0.00	0.00	5594.1	BHL 2209'FSL, 1979'FWL, SEC.30





Magpie Operating, Inc.

SEC.29-T5N-R68W

Bunker 8 Well Pad Sec.29-T5N-R68W

Bunker 8-5H

Wellbore #1

Plan: Plan #2 (12-06-18)

Standard Planning Report

07 December, 2018

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-5H
Company:	Magpie Operating, Inc.	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Project:	SEC.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-06-18)		

Project	SEC.29-T5N-R68W, Laramier County, CO		
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	Bunker 8 Well Pad Sec.29-T5N-R68W			
Site Position:		Northing:	1,377,695.11 usft	Latitude: 40.369230
From:	Lat/Long	Easting:	3,130,398.62 usft	Longitude: -105.032010
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.30 °

Well	Bunker 8-5H					
Well Position	+N/-S	120.2 ft	Northing:	1,377,815.31 usft	Latitude:	40.369560
	+E/-W	0.0 ft	Easting:	3,130,397.98 usft	Longitude:	-105.032010
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,989.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/7/2018	8.37	66.62	52,206

Design	Plan #2 (12-06-18)			
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	271.39

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	
2,120.6	48.02	88.45	1,903.6	20.5	758.5	2.50	2.50	0.00	88.45	
4,800.2	48.02	88.45	3,696.1	74.3	2,749.6	0.00	0.00	0.00	0.00	
6,341.5	90.72	270.16	4,805.0	113.1	2,315.5	9.00	2.77	-11.57	-177.41	LPL 2112'FSL, 647'FE
14,250.1	90.72	270.16	4,705.0	135.4	-5,592.4	0.00	0.00	0.00	0.00	BHL 2209'FSL, 1979'I

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-5H
Company:	Magpie Operating, Inc.	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Project:	SEC.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-06-18)		

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
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 2.50									
300.0	2.50	88.45	300.0	0.1	2.2	-2.2	2.50	2.50	0.00
400.0	5.00	88.45	399.7	0.2	8.7	-8.7	2.50	2.50	0.00
500.0	7.50	88.45	499.1	0.5	19.6	-19.6	2.50	2.50	0.00
600.0	10.00	88.45	598.0	0.9	34.8	-34.8	2.50	2.50	0.00
700.0	12.50	88.45	696.0	1.5	54.3	-54.3	2.50	2.50	0.00
800.0	15.00	88.45	793.2	2.1	78.1	-78.0	2.50	2.50	0.00
900.0	17.50	88.45	889.2	2.9	106.0	-105.9	2.50	2.50	0.00
1,000.0	20.00	88.45	983.9	3.7	138.2	-138.0	2.50	2.50	0.00
1,100.0	22.50	88.45	1,077.0	4.7	174.4	-174.2	2.50	2.50	0.00
1,200.0	25.00	88.45	1,168.6	5.8	214.6	-214.4	2.50	2.50	0.00
1,300.0	27.50	88.45	1,258.3	7.0	258.9	-258.6	2.50	2.50	0.00
1,400.0	30.00	88.45	1,345.9	8.3	306.9	-306.6	2.50	2.50	0.00
1,500.0	32.50	88.45	1,431.4	9.7	358.8	-358.4	2.50	2.50	0.00
1,600.0	35.00	88.45	1,514.5	11.2	414.3	-413.9	2.50	2.50	0.00
1,700.0	37.50	88.45	1,595.2	12.8	473.4	-473.0	2.50	2.50	0.00
1,800.0	40.00	88.45	1,673.2	14.5	536.0	-535.5	2.50	2.50	0.00
1,900.0	42.50	88.45	1,748.3	16.3	601.9	-601.3	2.50	2.50	0.00
2,000.0	45.00	88.45	1,820.6	18.1	671.0	-670.4	2.50	2.50	0.00
2,100.0	47.50	88.45	1,889.7	20.1	743.2	-742.5	2.50	2.50	0.00
2,120.6	48.02	88.45	1,903.6	20.5	758.5	-757.8	2.50	2.50	0.00
Start 2679.6 hold at 2120.6 MD									
2,200.0	48.02	88.45	1,956.7	22.1	817.5	-816.7	0.00	0.00	0.00
2,300.0	48.02	88.45	2,023.6	24.1	891.8	-890.9	0.00	0.00	0.00
2,400.0	48.02	88.45	2,090.5	26.1	966.1	-965.2	0.00	0.00	0.00
2,500.0	48.02	88.45	2,157.4	28.1	1,040.4	-1,039.4	0.00	0.00	0.00
2,600.0	48.02	88.45	2,224.3	30.1	1,114.7	-1,113.6	0.00	0.00	0.00
2,700.0	48.02	88.45	2,291.1	32.1	1,189.0	-1,187.9	0.00	0.00	0.00
2,800.0	48.02	88.45	2,358.0	34.2	1,263.3	-1,262.1	0.00	0.00	0.00
2,900.0	48.02	88.45	2,424.9	36.2	1,337.6	-1,336.3	0.00	0.00	0.00
3,000.0	48.02	88.45	2,491.8	38.2	1,411.9	-1,410.6	0.00	0.00	0.00
3,100.0	48.02	88.45	2,558.7	40.2	1,486.2	-1,484.8	0.00	0.00	0.00
3,200.0	48.02	88.45	2,625.6	42.2	1,560.5	-1,559.0	0.00	0.00	0.00
3,300.0	48.02	88.45	2,692.5	44.2	1,634.8	-1,633.3	0.00	0.00	0.00
3,400.0	48.02	88.45	2,759.4	46.2	1,709.1	-1,707.5	0.00	0.00	0.00
3,500.0	48.02	88.45	2,826.3	48.2	1,783.4	-1,781.7	0.00	0.00	0.00
3,600.0	48.02	88.45	2,893.2	50.2	1,857.7	-1,856.0	0.00	0.00	0.00
3,700.0	48.02	88.45	2,960.1	52.2	1,932.0	-1,930.2	0.00	0.00	0.00
3,800.0	48.02	88.45	3,027.0	54.2	2,006.3	-2,004.4	0.00	0.00	0.00
3,900.0	48.02	88.45	3,093.9	56.2	2,080.7	-2,078.7	0.00	0.00	0.00
4,000.0	48.02	88.45	3,160.8	58.3	2,155.0	-2,152.9	0.00	0.00	0.00
4,100.0	48.02	88.45	3,227.6	60.3	2,229.3	-2,227.2	0.00	0.00	0.00
4,200.0	48.02	88.45	3,294.5	62.3	2,303.6	-2,301.4	0.00	0.00	0.00
4,300.0	48.02	88.45	3,361.4	64.3	2,377.9	-2,375.6	0.00	0.00	0.00
4,400.0	48.02	88.45	3,428.3	66.3	2,452.2	-2,449.9	0.00	0.00	0.00
4,500.0	48.02	88.45	3,495.2	68.3	2,526.5	-2,524.1	0.00	0.00	0.00
4,600.0	48.02	88.45	3,562.1	70.3	2,600.8	-2,598.3	0.00	0.00	0.00
4,700.0	48.02	88.45	3,629.0	72.3	2,675.1	-2,672.6	0.00	0.00	0.00
4,800.0	48.02	88.45	3,695.9	74.3	2,749.4	-2,746.8	0.00	0.00	0.00
4,800.2	48.02	88.45	3,696.1	74.3	2,749.6	-2,747.0	0.00	0.00	0.00

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Project:	SEC.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-06-18)		

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)
Start DLS 9.00 TFO -177.41									
4,900.0	39.05	87.81	3,768.3	76.5	2,818.2	-2,815.5	9.00	-8.99	-0.64
5,000.0	30.06	86.85	3,850.6	79.1	2,874.8	-2,872.0	9.00	-8.98	-0.96
5,100.0	21.09	85.18	3,940.7	82.0	2,917.8	-2,915.0	9.00	-8.97	-1.67
5,200.0	12.16	81.20	4,036.4	85.1	2,946.2	-2,943.3	9.00	-8.93	-3.98
5,300.0	3.57	57.57	4,135.4	88.4	2,959.3	-2,956.3	9.00	-8.59	-23.64
5,400.0	6.29	287.95	4,235.2	91.8	2,956.7	-2,953.6	9.00	2.72	-129.62
5,500.0	15.11	277.34	4,333.4	95.2	2,938.5	-2,935.3	9.00	8.82	-10.61
5,600.0	24.06	274.51	4,427.5	98.4	2,905.2	-2,901.9	9.00	8.95	-2.84
5,700.0	33.04	273.15	4,515.3	101.5	2,857.5	-2,854.2	9.00	8.98	-1.36
5,800.0	42.03	272.33	4,594.5	104.4	2,796.7	-2,793.4	9.00	8.99	-0.83
5,900.0	51.02	271.75	4,663.2	107.0	2,724.3	-2,720.9	9.00	8.99	-0.58
6,000.0	60.01	271.30	4,719.8	109.1	2,642.0	-2,638.6	9.00	8.99	-0.45
6,100.0	69.00	270.93	4,762.8	110.9	2,551.8	-2,548.4	9.00	8.99	-0.37
6,200.0	78.00	270.60	4,791.1	112.1	2,456.0	-2,452.6	9.00	8.99	-0.33
6,300.0	86.99	270.29	4,804.2	112.9	2,357.0	-2,353.6	9.00	8.99	-0.31
6,341.5	90.72	270.16	4,805.0	113.1	2,315.5	-2,312.1	9.00	8.99	-0.30
Start 7908.6 hold at 6341.5 MD									
6,400.0	90.72	270.16	4,804.3	113.2	2,257.0	-2,253.6	0.00	0.00	0.00
6,500.0	90.72	270.16	4,803.0	113.5	2,157.0	-2,153.7	0.00	0.00	0.00
6,600.0	90.72	270.16	4,801.7	113.8	2,057.0	-2,053.7	0.00	0.00	0.00
6,700.0	90.72	270.16	4,800.5	114.1	1,957.1	-1,953.7	0.00	0.00	0.00
6,800.0	90.72	270.16	4,799.2	114.4	1,857.1	-1,853.7	0.00	0.00	0.00
6,900.0	90.72	270.16	4,797.9	114.6	1,757.1	-1,753.8	0.00	0.00	0.00
7,000.0	90.72	270.16	4,796.7	114.9	1,657.1	-1,653.8	0.00	0.00	0.00
7,100.0	90.72	270.16	4,795.4	115.2	1,557.1	-1,553.8	0.00	0.00	0.00
7,200.0	90.72	270.16	4,794.1	115.5	1,457.1	-1,453.9	0.00	0.00	0.00
7,300.0	90.72	270.16	4,792.9	115.8	1,357.1	-1,353.9	0.00	0.00	0.00
7,400.0	90.72	270.16	4,791.6	116.1	1,257.1	-1,253.9	0.00	0.00	0.00
7,500.0	90.72	270.16	4,790.4	116.3	1,157.1	-1,154.0	0.00	0.00	0.00
7,600.0	90.72	270.16	4,789.1	116.6	1,057.1	-1,054.0	0.00	0.00	0.00
7,700.0	90.72	270.16	4,787.8	116.9	957.1	-954.0	0.00	0.00	0.00
7,800.0	90.72	270.16	4,786.6	117.2	857.1	-854.1	0.00	0.00	0.00
7,900.0	90.72	270.16	4,785.3	117.5	757.2	-754.1	0.00	0.00	0.00
8,000.0	90.72	270.16	4,784.0	117.8	657.2	-654.1	0.00	0.00	0.00
8,100.0	90.72	270.16	4,782.8	118.0	557.2	-554.2	0.00	0.00	0.00
8,200.0	90.72	270.16	4,781.5	118.3	457.2	-454.2	0.00	0.00	0.00
8,300.0	90.72	270.16	4,780.2	118.6	357.2	-354.2	0.00	0.00	0.00
8,400.0	90.72	270.16	4,779.0	118.9	257.2	-254.2	0.00	0.00	0.00
8,500.0	90.72	270.16	4,777.7	119.2	157.2	-154.3	0.00	0.00	0.00
8,600.0	90.72	270.16	4,776.4	119.4	57.2	-54.3	0.00	0.00	0.00
8,700.0	90.72	270.16	4,775.2	119.7	-42.8	45.7	0.00	0.00	0.00
8,800.0	90.72	270.16	4,773.9	120.0	-142.8	145.6	0.00	0.00	0.00
8,900.0	90.72	270.16	4,772.6	120.3	-242.8	245.6	0.00	0.00	0.00
9,000.0	90.72	270.16	4,771.4	120.6	-342.8	345.6	0.00	0.00	0.00
9,100.0	90.72	270.16	4,770.1	120.9	-442.7	445.5	0.00	0.00	0.00
9,200.0	90.72	270.16	4,768.9	121.1	-542.7	545.5	0.00	0.00	0.00
9,300.0	90.72	270.16	4,767.6	121.4	-642.7	645.5	0.00	0.00	0.00
9,400.0	90.72	270.16	4,766.3	121.7	-742.7	745.4	0.00	0.00	0.00
9,500.0	90.72	270.16	4,765.1	122.0	-842.7	845.4	0.00	0.00	0.00
9,600.0	90.72	270.16	4,763.8	122.3	-942.7	945.4	0.00	0.00	0.00
9,700.0	90.72	270.16	4,762.5	122.6	-1,042.7	1,045.4	0.00	0.00	0.00
9,800.0	90.72	270.16	4,761.3	122.8	-1,142.7	1,145.3	0.00	0.00	0.00
9,900.0	90.72	270.16	4,760.0	123.1	-1,242.7	1,245.3	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-5H
Company:	Magpie Operating, Inc.	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Project:	SEC.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-06-18)		

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)
10,000.0	90.72	270.16	4,758.7	123.4	-1,342.7	1,345.3	0.00	0.00	0.00
10,100.0	90.72	270.16	4,757.5	123.7	-1,442.7	1,445.2	0.00	0.00	0.00
10,200.0	90.72	270.16	4,756.2	124.0	-1,542.7	1,545.2	0.00	0.00	0.00
10,300.0	90.72	270.16	4,754.9	124.3	-1,642.6	1,645.2	0.00	0.00	0.00
10,400.0	90.72	270.16	4,753.7	124.5	-1,742.6	1,745.1	0.00	0.00	0.00
10,500.0	90.72	270.16	4,752.4	124.8	-1,842.6	1,845.1	0.00	0.00	0.00
10,600.0	90.72	270.16	4,751.2	125.1	-1,942.6	1,945.1	0.00	0.00	0.00
10,700.0	90.72	270.16	4,749.9	125.4	-2,042.6	2,045.0	0.00	0.00	0.00
10,800.0	90.72	270.16	4,748.6	125.7	-2,142.6	2,145.0	0.00	0.00	0.00
10,900.0	90.72	270.16	4,747.4	126.0	-2,242.6	2,245.0	0.00	0.00	0.00
11,000.0	90.72	270.16	4,746.1	126.2	-2,342.6	2,345.0	0.00	0.00	0.00
11,100.0	90.72	270.16	4,744.8	126.5	-2,442.6	2,444.9	0.00	0.00	0.00
11,200.0	90.72	270.16	4,743.6	126.8	-2,542.6	2,544.9	0.00	0.00	0.00
11,300.0	90.72	270.16	4,742.3	127.1	-2,642.6	2,644.9	0.00	0.00	0.00
11,400.0	90.72	270.16	4,741.0	127.4	-2,742.6	2,744.8	0.00	0.00	0.00
11,500.0	90.72	270.16	4,739.8	127.7	-2,842.5	2,844.8	0.00	0.00	0.00
11,600.0	90.72	270.16	4,738.5	127.9	-2,942.5	2,944.8	0.00	0.00	0.00
11,700.0	90.72	270.16	4,737.2	128.2	-3,042.5	3,044.7	0.00	0.00	0.00
11,800.0	90.72	270.16	4,736.0	128.5	-3,142.5	3,144.7	0.00	0.00	0.00
11,900.0	90.72	270.16	4,734.7	128.8	-3,242.5	3,244.7	0.00	0.00	0.00
12,000.0	90.72	270.16	4,733.5	129.1	-3,342.5	3,344.6	0.00	0.00	0.00
12,100.0	90.72	270.16	4,732.2	129.4	-3,442.5	3,444.6	0.00	0.00	0.00
12,200.0	90.72	270.16	4,730.9	129.6	-3,542.5	3,544.6	0.00	0.00	0.00
12,300.0	90.72	270.16	4,729.7	129.9	-3,642.5	3,644.6	0.00	0.00	0.00
12,400.0	90.72	270.16	4,728.4	130.2	-3,742.5	3,744.5	0.00	0.00	0.00
12,500.0	90.72	270.16	4,727.1	130.5	-3,842.5	3,844.5	0.00	0.00	0.00
12,600.0	90.72	270.16	4,725.9	130.8	-3,942.5	3,944.5	0.00	0.00	0.00
12,700.0	90.72	270.16	4,724.6	131.0	-4,042.4	4,044.4	0.00	0.00	0.00
12,800.0	90.72	270.16	4,723.3	131.3	-4,142.4	4,144.4	0.00	0.00	0.00
12,900.0	90.72	270.16	4,722.1	131.6	-4,242.4	4,244.4	0.00	0.00	0.00
13,000.0	90.72	270.16	4,720.8	131.9	-4,342.4	4,344.3	0.00	0.00	0.00
13,100.0	90.72	270.16	4,719.5	132.2	-4,442.4	4,444.3	0.00	0.00	0.00
13,200.0	90.72	270.16	4,718.3	132.5	-4,542.4	4,544.3	0.00	0.00	0.00
13,300.0	90.72	270.16	4,717.0	132.7	-4,642.4	4,644.2	0.00	0.00	0.00
13,400.0	90.72	270.16	4,715.7	133.0	-4,742.4	4,744.2	0.00	0.00	0.00
13,500.0	90.72	270.16	4,714.5	133.3	-4,842.4	4,844.2	0.00	0.00	0.00
13,600.0	90.72	270.16	4,713.2	133.6	-4,942.4	4,944.2	0.00	0.00	0.00
13,700.0	90.72	270.16	4,712.0	133.9	-5,042.4	5,044.1	0.00	0.00	0.00
13,800.0	90.72	270.16	4,710.7	134.2	-5,142.3	5,144.1	0.00	0.00	0.00
13,900.0	90.72	270.16	4,709.4	134.4	-5,242.3	5,244.1	0.00	0.00	0.00
14,000.0	90.72	270.16	4,708.2	134.7	-5,342.3	5,344.0	0.00	0.00	0.00
14,100.0	90.72	270.16	4,706.9	135.0	-5,442.3	5,444.0	0.00	0.00	0.00
14,200.0	90.72	270.16	4,705.6	135.3	-5,542.3	5,544.0	0.00	0.00	0.00
14,250.1	90.72	270.16	4,705.0	135.4	-5,592.4	5,594.1	0.00	0.00	0.00
TD at 14250.1									

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-5H
Company:	Magpie Operating, Inc.	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Project:	SEC.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-06-18)		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
SHL 2080'FSL, 2275'FW - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,377,815.33	3,130,397.98	40.369560	-105.032010
BHL 2209'FSL, 1979'FW - plan hits target center - Point	0.00	0.00	4,705.0	135.4	-5,592.4	1,377,921.23	3,124,805.16	40.369930	-105.052080
LPL 2112'FSL, 647'FEL, - plan hits target center - Point	0.00	0.00	4,805.0	113.1	2,315.5	1,377,940.58	3,132,712.80	40.369870	-105.023700

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP - Start Build 2.50
2,120.6	1,903.6	20.5	758.5	Start 2679.6 hold at 2120.6 MD
4,800.2	3,696.1	74.3	2,749.6	Start DLS 9.00 TFO -177.41
6,341.5	4,805.0	113.1	2,315.5	Start 7908.6 hold at 6341.5 MD
14,250.1	4,705.0	135.4	-5,592.4	TD at 14250.1



Magpie Operating, Inc.

SEC.29-T5N-R68W

Bunker 8 Well Pad Sec.29-T5N-R68W

Bunker 8-5H

Wellbore #1

Plan #2 (12-06-18)

Anticollision Report

07 December, 2018

Company:	Magpie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (12-06-18)		
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:	2.45 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	12/7/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,250.1	Plan #2 (12-06-18) (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						
Bunker 8 Well Pad Sec.29-T5N-R68W						
Bunker 8-1H - Wellbore #1 - Plan #2 (12-06-18)	163.8	171.8	120.2	119.6	185.385	CC
Bunker 8-1H - Wellbore #1 - Plan #2 (12-06-18)	200.0	207.7	120.2	119.4	142.283	ES
Bunker 8-1H - Wellbore #1 - Plan #2 (12-06-18)	2,000.0	1,773.5	745.1	721.4	31.451	SF
Bunker 8-2H - Wellbore #1 - Plan #2 (12-06-18)	200.0	205.0	87.4	86.6	104.116	CC
Bunker 8-2H - Wellbore #1 - Plan #2 (12-06-18)	300.0	304.9	87.5	86.1	63.492	ES
Bunker 8-2H - Wellbore #1 - Plan #2 (12-06-18)	4,500.0	4,446.1	784.7	638.1	5.351	SF
Bunker 8-3H - Wellbore #1 - Plan #2 (12-06-18)	165.6	168.6	58.3	57.6	90.366	CC
Bunker 8-3H - Wellbore #1 - Plan #2 (12-06-18)	300.0	302.6	58.7	57.3	43.182	ES
Bunker 8-3H - Wellbore #1 - Plan #2 (12-06-18)	4,950.0	4,943.6	624.7	458.5	3.760	SF
Bunker 8-4H - Wellbore #1 - Plan #2 (12-06-18)	200.0	202.0	29.1	28.3	35.050	CC
Bunker 8-4H - Wellbore #1 - Plan #2 (12-06-18)	12,900.0	12,859.8	465.4	-32.8	0.934	Level 1, ES, SF
Bunker 8-6H - Wellbore #1 - Plan #2 (12-06-18)	200.0	198.0	32.8	32.0	39.960	CC
Bunker 8-6H - Wellbore #1 - Plan #2 (12-06-18)	14,250.1	14,050.0	484.3	12.3	1.026	Level 2, ES, SF
Bunker 8-7H - Wellbore #1 - Plan #2 (12-06-18)	287.6	283.6	61.9	60.6	48.082	CC
Bunker 8-7H - Wellbore #1 - Plan #2 (12-06-18)	300.0	296.0	61.9	60.6	45.708	ES
Bunker 8-7H - Wellbore #1 - Plan #2 (12-06-18)	4,800.2	4,785.7	559.5	399.1	3.488	SF
Bunker 8-8H - Wellbore #1 - Plan #2 (12-06-18)	306.2	300.2	91.0	89.7	65.801	CC
Bunker 8-8H - Wellbore #1 - Plan #2 (12-06-18)	400.0	393.7	91.3	89.4	47.924	ES
Bunker 8-8H - Wellbore #1 - Plan #2 (12-06-18)	4,300.0	4,263.9	782.0	647.4	5.810	SF
Bunker 8-9H - Wellbore #1 - Plan #2 (12-16-18)	200.0	193.0	120.2	119.4	149.027	CC, ES
Bunker 8-9H - Wellbore #1 - Plan #2 (12-16-18)	3,500.0	3,350.2	794.8	696.7	8.103	SF

Offset Design		Bunker 8 Well Pad Sec.29-T5N-R68W - Bunker 8-1H - Wellbore #1 - Plan #2 (12-06-18)											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				
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)		(ft)	(ft)	(ft)				
0.0	0.0	8.0	8.0	0.0	0.0	180.00	-120.2	0.0		120.2	120.2	0.01	N/A			
100.0	100.0	108.0	108.0	0.1	0.2	180.00	-120.2	0.0		120.2	119.9	0.30	404.305			
163.8	163.8	171.8	171.8	0.3	0.3	180.00	-120.2	0.0		120.2	119.6	0.65	185.385 CC			
200.0	200.0	207.7	207.7	0.4	0.4	180.00	-120.2	0.0		120.2	119.4	0.85	142.283 ES			
300.0	300.0	303.9	303.8	0.7	0.7	92.18	-122.0	0.6		122.1	120.8	1.35	90.417			
400.0	399.7	400.0	399.8	1.0	0.9	94.07	-126.8	2.4		127.4	125.5	1.88	67.720			
500.0	499.1	495.1	494.5	1.3	1.2	96.88	-134.5	5.2		136.4	133.9	2.48	54.885			

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
600.0	598.0	589.6	588.4	1.7	1.5	100.21	-145.1	9.1	149.3	146.1	3.18	47.018		
700.0	696.0	683.1	680.8	2.2	1.9	103.66	-158.4	14.0	166.5	162.5	3.97	41.966		
800.0	793.2	775.4	771.5	2.7	2.3	106.93	-174.3	19.8	188.1	183.3	4.87	38.638		
900.0	889.2	866.1	860.2	3.4	2.8	109.84	-192.6	26.5	214.3	208.4	5.88	36.415		
1,000.0	983.9	955.2	946.5	4.2	3.4	112.32	-213.2	34.0	244.9	237.9	7.01	34.920		
1,100.0	1,077.0	1,042.5	1,030.4	5.1	3.9	114.34	-235.7	42.2	279.8	271.5	8.25	33.911		
1,200.0	1,168.6	1,127.7	1,111.6	6.1	4.5	115.95	-260.1	51.1	318.8	309.2	9.60	33.226		
1,300.0	1,258.3	1,210.8	1,190.0	7.2	5.2	117.17	-286.0	60.6	361.9	350.8	11.05	32.763		
1,400.0	1,345.9	1,291.7	1,265.5	8.4	5.9	118.06	-313.2	70.6	408.7	396.1	12.61	32.420		
1,500.0	1,431.4	1,375.7	1,343.2	9.8	6.6	118.86	-342.9	81.5	458.8	444.5	14.28	32.120		
1,600.0	1,514.5	1,459.3	1,420.7	11.3	7.4	119.69	-372.6	92.3	511.2	495.2	16.04	31.874		
1,700.0	1,595.2	1,541.1	1,496.4	12.9	8.2	120.46	-401.6	102.9	566.0	548.2	17.86	31.693		
1,800.0	1,673.2	1,620.8	1,570.3	14.7	8.9	121.16	-429.8	113.2	623.3	603.5	19.74	31.569		
1,900.0	1,748.3	1,698.3	1,642.0	16.6	9.6	121.75	-457.3	123.3	683.0	661.3	21.69	31.492		
2,000.0	1,820.6	1,773.5	1,711.7	18.6	10.3	122.22	-484.0	133.0	745.1	721.4	23.69	31.451 SF		

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	5.0	5.0	0.0	0.0	180.00	-87.4	0.0	87.4	87.4	0.01	N/A		
100.0	100.0	105.0	105.0	0.1	0.2	180.00	-87.4	0.0	87.4	87.1	0.29	302.431		
200.0	200.0	205.0	205.0	0.4	0.4	180.00	-87.4	0.0	87.4	86.6	0.84	104.116 CC		
202.8	202.8	207.8	207.8	0.4	0.4	91.55	-87.4	0.0	87.4	86.6	0.86	102.260		
300.0	300.0	304.9	304.9	0.7	0.7	92.97	-87.4	0.0	87.5	86.1	1.38	63.492 ES		
400.0	399.7	404.1	404.0	1.0	1.0	95.65	-88.0	2.3	88.5	86.6	1.92	46.168		
500.0	499.1	503.3	503.1	1.3	1.2	98.26	-89.7	8.7	90.9	88.4	2.52	36.125		
600.0	598.0	602.8	601.9	1.7	1.5	100.68	-92.4	19.3	94.6	91.4	3.23	29.334		
700.0	696.0	702.3	700.2	2.2	1.9	102.83	-96.2	34.1	99.7	95.7	4.08	24.461		
800.0	793.2	801.9	797.9	2.7	2.4	104.66	-101.1	53.0	106.2	101.1	5.09	20.841		
900.0	889.2	901.5	894.6	3.4	2.9	106.16	-107.0	76.0	113.9	107.6	6.29	18.092		
1,000.0	983.9	1,001.2	990.3	4.2	3.6	107.34	-113.9	103.1	122.8	115.1	7.69	15.970		
1,100.0	1,077.0	1,101.0	1,084.7	5.1	4.4	108.23	-121.9	134.2	132.9	123.6	9.29	14.304		
1,200.0	1,168.6	1,200.7	1,177.7	6.1	5.2	108.85	-130.9	169.2	144.1	133.0	11.11	12.976		
1,300.0	1,258.3	1,300.4	1,269.0	7.2	6.2	109.25	-140.9	208.1	156.5	143.3	13.15	11.901		
1,400.0	1,345.9	1,400.2	1,358.4	8.4	7.4	109.45	-151.9	250.9	169.9	154.5	15.42	11.018		
1,500.0	1,431.4	1,499.9	1,445.8	9.8	8.6	109.50	-163.9	297.3	184.4	166.4	17.93	10.282		
1,600.0	1,514.5	1,599.6	1,531.0	11.3	10.0	109.41	-176.7	347.4	199.8	179.2	20.68	9.663		
1,700.0	1,595.2	1,699.2	1,613.9	12.9	11.5	109.22	-190.5	401.0	216.3	192.6	23.68	9.135		
1,800.0	1,673.2	1,798.7	1,694.2	14.7	13.1	108.94	-205.2	457.9	233.7	206.7	26.92	8.681		
1,900.0	1,748.3	1,898.2	1,771.8	16.6	14.8	108.59	-220.7	518.2	252.0	221.5	30.41	8.287		
2,000.0	1,820.6	1,997.7	1,846.6	18.6	16.7	108.18	-237.0	581.6	271.1	237.0	34.14	7.942		
2,100.0	1,889.7	2,097.1	1,918.5	20.7	18.7	107.72	-254.1	648.1	291.1	253.0	38.11	7.639		
2,120.6	1,903.6	2,117.6	1,932.9	21.1	19.1	107.63	-257.7	662.2	295.4	256.4	38.97	7.579		
2,200.0	1,956.7	2,196.5	1,987.3	22.9	20.8	107.39	-271.9	717.5	311.6	269.2	42.33	7.361		
2,300.0	2,023.6	2,295.7	2,052.9	25.1	23.0	106.45	-290.5	789.7	331.6	284.8	46.77	7.090		
2,400.0	2,090.5	2,393.6	2,115.7	27.4	25.3	105.23	-309.1	862.4	351.5	300.2	51.31	6.851		
2,500.0	2,157.4	2,491.3	2,178.5	29.6	27.6	104.14	-327.8	934.9	371.6	315.7	55.86	6.652		
2,600.0	2,224.3	2,589.1	2,241.2	31.9	29.9	103.16	-346.5	1,007.5	391.7	331.3	60.41	6.484		
2,700.0	2,291.1	2,686.8	2,304.0	34.1	32.2	102.28	-365.1	1,080.1	412.0	347.0	64.97	6.341		
2,800.0	2,358.0	2,784.5	2,366.7	36.4	34.5	101.48	-383.8	1,152.7	432.3	362.8	69.52	6.219		
2,900.0	2,424.9	2,882.3	2,429.5	38.6	36.8	100.76	-402.4	1,225.2	452.8	378.7	74.08	6.112		
3,000.0	2,491.8	2,980.0	2,492.2	40.9	39.1	100.09	-421.1	1,297.8	473.2	394.6	78.63	6.018		
3,100.0	2,558.7	3,077.7	2,555.0	43.2	41.4	99.48	-439.7	1,370.4	493.8	410.6	83.18	5.936		
3,200.0	2,625.6	3,175.5	2,617.7	45.4	43.7	98.92	-458.4	1,443.0	514.4	426.6	87.73	5.863		
3,300.0	2,692.5	3,273.2	2,680.5	47.7	46.0	98.41	-477.1	1,515.5	535.0	442.7	92.28	5.798		
3,400.0	2,759.4	3,371.0	2,743.2	50.0	48.3	97.93	-495.7	1,588.1	555.7	458.8	96.82	5.739		
3,500.0	2,826.3	3,468.7	2,806.0	52.2	50.6	97.48	-514.4	1,660.7	576.4	475.0	101.36	5.686		
3,600.0	2,893.2	3,566.4	2,868.7	54.5	53.0	97.07	-533.0	1,733.3	597.1	491.2	105.90	5.638		
3,700.0	2,960.1	3,664.2	2,931.5	56.8	55.3	96.68	-551.7	1,805.8	617.9	507.4	110.44	5.595		
3,800.0	3,027.0	3,761.9	2,994.2	59.0	57.6	96.32	-570.3	1,878.4	638.7	523.7	114.97	5.555		
3,900.0	3,093.9	3,859.6	3,057.0	61.3	59.9	95.98	-589.0	1,951.0	659.5	540.0	119.51	5.518		
4,000.0	3,160.8	3,957.4	3,119.7	63.6	62.3	95.66	-607.7	2,023.6	680.3	556.3	124.04	5.485		
4,100.0	3,227.6	4,055.1	3,182.5	65.9	64.6	95.37	-626.3	2,096.1	701.2	572.6	128.56	5.454		
4,200.0	3,294.5	4,152.9	3,245.2	68.1	66.9	95.08	-645.0	2,168.7	722.0	589.0	133.09	5.425		
4,300.0	3,361.4	4,250.6	3,308.0	70.4	69.2	94.82	-663.6	2,241.3	742.9	605.3	137.61	5.399		
4,400.0	3,428.3	4,348.3	3,370.7	72.7	71.6	94.57	-682.3	2,313.9	763.8	621.7	142.13	5.374		
4,500.0	3,495.2	4,446.1	3,433.5	75.0	73.9	94.33	-701.0	2,386.4	784.7	638.1	146.66	5.351 SF		

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	3.0	3.0	0.0	0.0	180.00	-58.3	0.0	58.3	58.3	0.00	N/A		
100.0	100.0	103.0	103.0	0.1	0.1	180.00	-58.3	0.0	58.3	58.0	0.28	205.536		
165.6	165.6	168.6	168.6	0.3	0.3	180.00	-58.3	0.0	58.3	57.6	0.65	90.366 CC		
200.0	200.0	203.0	203.0	0.4	0.4	180.00	-58.3	0.0	58.3	57.5	0.83	69.900		
300.0	300.0	302.6	302.6	0.7	0.7	91.44	-58.6	2.3	58.7	57.3	1.36	43.182 ES		
400.0	399.7	402.2	401.9	1.0	1.0	91.39	-59.6	8.8	59.9	58.0	1.92	31.229		
500.0	499.1	501.8	500.9	1.3	1.3	91.38	-61.3	19.6	61.8	59.3	2.57	24.027		
600.0	598.0	601.3	599.3	1.7	1.7	91.40	-63.6	34.6	64.6	61.2	3.36	19.208		
700.0	696.0	700.8	696.8	2.2	2.2	91.47	-66.5	53.9	68.0	63.7	4.31	15.790		
800.0	793.2	800.3	793.4	2.7	2.7	91.55	-70.1	77.3	72.3	66.9	5.44	13.285		
900.0	889.2	899.7	888.9	3.4	3.4	91.65	-74.3	104.8	77.3	70.5	6.77	11.409		
1,000.0	983.9	999.0	983.0	4.2	4.2	91.75	-79.2	136.3	83.0	74.7	8.32	9.979		
1,100.0	1,077.0	1,098.3	1,075.5	5.1	5.1	91.85	-84.6	171.8	89.5	79.4	10.09	8.872		
1,200.0	1,168.6	1,197.5	1,166.3	6.1	6.1	91.94	-90.7	211.2	96.7	84.6	12.08	8.000		
1,300.0	1,258.3	1,296.7	1,255.3	7.2	7.2	92.01	-97.3	254.5	104.5	90.2	14.31	7.303		
1,400.0	1,345.9	1,395.8	1,342.2	8.4	8.4	92.08	-104.5	301.4	113.1	96.3	16.79	6.738		
1,500.0	1,431.4	1,494.7	1,427.0	9.8	9.8	92.12	-112.2	352.0	122.3	102.8	19.50	6.274		
1,600.0	1,514.5	1,593.6	1,509.3	11.3	11.3	92.15	-120.5	406.1	132.2	109.8	22.46	5.886		
1,700.0	1,595.2	1,692.4	1,589.2	12.9	12.9	92.17	-129.3	463.6	142.7	117.1	25.67	5.560		
1,800.0	1,673.2	1,791.2	1,666.4	14.7	14.6	92.16	-138.6	524.4	153.9	124.8	29.13	5.283		
1,900.0	1,748.3	1,889.8	1,740.8	16.6	16.5	92.14	-148.4	588.4	165.6	132.8	32.83	5.044		
2,000.0	1,820.6	1,988.4	1,812.3	18.6	18.4	92.10	-158.7	655.4	177.9	141.1	36.78	4.837		
2,100.0	1,889.7	2,086.8	1,880.8	20.7	20.5	92.04	-169.4	725.4	190.7	149.8	40.97	4.656		
2,120.6	1,903.6	2,107.1	1,894.5	21.1	21.0	92.03	-171.7	740.1	193.5	151.6	41.86	4.621		
2,200.0	1,956.7	2,185.2	1,946.1	22.9	22.7	91.86	-180.6	798.1	204.1	158.7	45.36	4.499		
2,300.0	2,023.6	2,283.3	2,008.0	25.1	25.1	90.66	-192.1	873.3	217.8	168.0	49.83	4.370		
2,400.0	2,090.5	2,381.5	2,067.3	27.4	27.5	88.75	-204.0	950.7	232.1	177.7	54.33	4.272		
2,500.0	2,157.4	2,480.2	2,126.5	29.6	29.9	86.97	-215.9	1,028.7	246.7	187.9	58.80	4.195		
2,600.0	2,224.3	2,578.9	2,185.8	31.9	32.4	85.38	-227.9	1,106.7	261.4	198.2	63.23	4.135		
2,700.0	2,291.1	2,677.5	2,245.0	34.1	34.8	83.97	-239.8	1,184.6	276.4	208.8	67.63	4.087		
2,800.0	2,358.0	2,776.2	2,304.2	36.4	37.3	82.70	-251.8	1,262.6	291.5	219.5	71.99	4.049		
2,900.0	2,424.9	2,874.8	2,363.5	38.6	39.8	81.56	-263.7	1,340.6	306.7	230.4	76.33	4.019		
3,000.0	2,491.8	2,973.5	2,422.7	40.9	42.2	80.52	-275.7	1,418.6	322.1	241.4	80.64	3.994		
3,100.0	2,558.7	3,072.1	2,481.9	43.2	44.7	79.58	-287.6	1,496.6	337.5	252.6	84.93	3.974		
3,200.0	2,625.6	3,170.8	2,541.2	45.4	47.2	78.72	-299.6	1,574.6	353.0	263.8	89.20	3.958		
3,300.0	2,692.5	3,269.5	2,600.4	47.7	49.7	77.93	-311.5	1,652.5	368.6	275.2	93.45	3.945		
3,400.0	2,759.4	3,368.1	2,659.6	50.0	52.1	77.21	-323.5	1,730.5	384.3	286.6	97.68	3.934		
3,500.0	2,826.3	3,466.8	2,718.9	52.2	54.6	76.55	-335.4	1,808.5	400.0	298.1	101.90	3.925		
3,600.0	2,893.2	3,565.4	2,778.1	54.5	57.1	75.93	-347.4	1,886.5	415.7	309.6	106.11	3.918		
3,700.0	2,960.1	3,664.1	2,837.4	56.8	59.6	75.36	-359.3	1,964.5	431.5	321.2	110.30	3.912		
3,800.0	3,027.0	3,762.7	2,896.6	59.0	62.1	74.83	-371.3	2,042.5	447.4	332.9	114.49	3.908		
3,900.0	3,093.9	3,861.4	2,955.8	61.3	64.6	74.33	-383.2	2,120.4	463.2	344.6	118.66	3.904		
4,000.0	3,160.8	3,960.0	3,015.1	63.6	67.1	73.87	-395.2	2,198.4	479.1	356.3	122.83	3.901		
4,100.0	3,227.6	4,058.7	3,074.3	65.9	69.6	73.44	-407.1	2,276.4	495.1	368.1	126.99	3.899		
4,200.0	3,294.5	4,157.4	3,133.5	68.1	72.1	73.03	-419.1	2,354.4	511.0	379.9	131.14	3.897		
4,300.0	3,361.4	4,256.0	3,192.8	70.4	74.5	72.65	-431.0	2,432.4	527.0	391.7	135.29	3.895		
4,400.0	3,428.3	4,354.7	3,252.0	72.7	77.0	72.30	-443.0	2,510.4	543.0	403.6	139.43	3.895		
4,500.0	3,495.2	4,453.3	3,311.2	75.0	79.5	71.96	-454.9	2,588.3	559.0	415.5	143.56	3.894		
4,600.0	3,562.1	4,552.0	3,370.5	77.2	82.0	71.64	-466.9	2,666.3	575.1	427.4	147.69	3.894		
4,700.0	3,629.0	4,650.1	3,437.1	79.5	84.6	71.53	-480.3	2,750.3	590.8	438.7	152.11	3.884		
4,800.2	3,696.1	4,778.1	3,522.9	81.8	86.9	73.14	-497.6	2,829.3	603.7	446.0	157.79	3.826		
4,850.0	3,730.8	4,834.4	3,568.5	82.8	87.7	75.14	-506.8	2,860.9	609.9	449.1	160.86	3.792		

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

Company:	Magpie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:		0.0 ft
Bunker 8 Well Pad Sec.29-T5N-R68W - Bunker 8-3H - Wellbore #1 - Plan #2 (12-06-18)													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)				
4,900.0	3,768.3	4,889.7	3,615.8	83.7	88.4	77.27	-516.4	2,887.8	616.9	453.3	163.64	3.770			
4,950.0	3,808.3	4,943.6	3,664.0	84.5	88.9	79.55	-526.1	2,910.0	624.7	458.5	166.15	3.760 SF			
5,000.0	3,850.6	4,996.4	3,712.7	85.1	89.3	81.98	-536.0	2,927.6	633.2	464.8	168.38	3.761			
5,050.0	3,894.8	5,047.9	3,761.6	85.7	89.6	84.60	-545.8	2,940.7	642.4	472.1	170.31	3.772			
5,100.0	3,940.7	5,098.4	3,810.3	86.1	89.8	87.52	-555.7	2,949.6	652.3	480.3	171.94	3.794			
5,150.0	3,988.0	5,147.9	3,858.5	86.5	90.0	90.93	-565.4	2,954.5	662.7	489.4	173.28	3.824			
5,200.0	4,036.4	5,196.5	3,906.1	86.7	90.0	95.38	-575.0	2,955.6	673.6	499.2	174.33	3.864			
5,250.0	4,085.7	5,244.2	3,952.8	86.9	90.0	102.61	-584.5	2,953.1	684.9	509.8	175.10	3.911			
5,300.0	4,135.4	5,291.1	3,998.4	87.0	90.0	122.79	-593.7	2,947.1	696.5	520.9	175.61	3.966			
5,350.0	4,185.4	5,337.3	4,042.8	87.0	89.9	-140.24	-602.7	2,937.9	708.3	532.4	175.86	4.027			
5,400.0	4,235.2	5,383.0	4,085.9	87.0	89.8	-104.01	-611.4	2,925.6	720.2	544.3	175.90	4.094			
5,450.0	4,284.7	5,428.0	4,127.4	86.9	89.7	-94.84	-619.8	2,910.4	732.1	556.4	175.73	4.166			
5,500.0	4,333.4	5,472.6	4,167.4	86.8	89.6	-90.08	-627.9	2,892.4	744.0	568.6	175.38	4.242			
5,550.0	4,381.1	5,516.7	4,205.7	86.7	89.5	-86.81	-635.6	2,871.9	755.6	580.8	174.89	4.321			
5,600.0	4,427.5	5,560.5	4,242.2	86.6	89.5	-84.25	-643.0	2,848.9	767.1	592.8	174.28	4.401			
5,650.0	4,472.3	5,603.9	4,276.8	86.5	89.4	-82.11	-650.0	2,823.6	778.1	604.6	173.59	4.483			
5,700.0	4,515.3	5,647.1	4,309.4	86.4	89.4	-80.27	-656.6	2,796.1	788.8	616.0	172.85	4.564			
5,750.0	4,556.1	5,690.0	4,339.9	86.3	89.4	-78.65	-662.8	2,766.6	799.0	626.9	172.09	4.643			

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design Bunker 8 Well Pad Sec.29-T5N-R68W - Bunker 8-4H - Wellbore #1 - Plan #2 (12-06-18)													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	2.0	2.0	0.0	0.0	180.00	-29.1	0.0	29.1	29.1	0.00	9,736.085		
100.0	100.0	102.0	102.0	0.1	0.1	180.00	-29.1	0.0	29.1	28.9	0.28	103.775		
200.0	200.0	202.0	202.0	0.4	0.4	180.00	-29.1	0.0	29.1	28.3	0.83	35.050 CC		
203.1	203.1	205.1	205.1	0.4	0.4	91.55	-29.1	0.0	29.1	28.3	0.85	34.353		
300.0	300.0	302.0	302.0	0.7	0.7	95.81	-29.1	0.0	29.3	27.9	1.37	21.358		
400.0	399.7	402.0	401.9	1.0	1.0	103.86	-29.3	2.3	30.2	28.3	1.92	15.769		
500.0	499.1	502.2	501.9	1.3	1.2	111.02	-29.8	8.9	32.1	29.6	2.52	12.737		
600.0	598.0	602.5	601.7	1.7	1.5	116.98	-30.5	19.9	34.9	31.7	3.22	10.816		
700.0	696.0	703.1	701.0	2.2	1.9	121.68	-31.6	35.3	38.3	34.3	4.03	9.504		
800.0	793.2	803.8	799.8	2.7	2.4	125.24	-33.0	55.0	42.3	37.3	4.94	8.545		
900.0	889.2	904.7	897.7	3.4	3.0	127.83	-34.7	79.1	46.7	40.7	5.98	7.801		
1,000.0	983.9	1,005.8	994.7	4.2	3.6	129.65	-36.7	107.5	51.5	44.3	7.16	7.190		
1,100.0	1,077.0	1,107.0	1,090.4	5.1	4.4	130.83	-39.0	140.3	56.6	48.1	8.49	6.668		
1,200.0	1,168.6	1,208.4	1,184.8	6.1	5.3	131.53	-41.6	177.2	62.0	52.0	9.99	6.207		
1,300.0	1,258.3	1,309.9	1,277.6	7.2	6.3	131.85	-44.5	218.4	67.7	56.0	11.68	5.797		
1,400.0	1,345.9	1,411.7	1,368.6	8.4	7.5	131.86	-47.6	263.7	73.7	60.1	13.58	5.423		
1,500.0	1,431.4	1,513.5	1,457.6	9.8	8.8	131.63	-51.1	313.1	79.8	64.1	15.70	5.083		
1,600.0	1,514.5	1,615.5	1,544.5	11.3	10.2	131.22	-54.8	366.4	86.2	68.2	18.07	4.774		
1,700.0	1,595.2	1,717.7	1,629.0	12.9	11.7	130.67	-58.9	423.6	92.9	72.2	20.68	4.491		
1,800.0	1,673.2	1,819.9	1,711.0	14.7	13.4	130.00	-63.1	484.6	99.7	76.2	23.56	4.234		
1,900.0	1,748.3	1,922.4	1,790.2	16.6	15.2	129.24	-67.7	549.3	106.8	80.1	26.70	4.000		
2,000.0	1,820.6	2,024.9	1,866.6	18.6	17.2	128.42	-72.5	617.5	114.1	83.9	30.12	3.787		
2,100.0	1,889.7	2,127.6	1,939.9	20.7	19.3	127.54	-77.5	689.2	121.5	87.7	33.81	3.594		
2,120.6	1,903.6	2,148.7	1,954.7	21.1	19.8	127.35	-78.6	704.4	123.1	88.5	34.61	3.556		
2,200.0	1,956.7	2,230.4	2,010.1	22.9	21.5	126.24	-82.7	764.1	128.4	90.4	37.96	3.381		
2,300.0	2,023.6	2,333.1	2,076.7	25.1	23.9	123.44	-88.2	842.1	133.0	90.1	42.90	3.101		
2,400.0	2,090.5	2,433.9	2,139.2	27.4	26.3	119.47	-93.8	921.0	136.3	87.9	48.47	2.813		
2,500.0	2,157.4	2,533.4	2,200.5	29.6	28.7	115.59	-99.2	999.2	140.0	86.0	54.09	2.589		
2,600.0	2,224.3	2,632.9	2,261.8	31.9	31.1	111.92	-104.7	1,077.3	144.4	84.7	59.67	2.419		
2,700.0	2,291.1	2,732.3	2,323.1	34.1	33.5	108.48	-110.2	1,155.5	149.3	84.1	65.19	2.290		
2,800.0	2,358.0	2,831.8	2,384.4	36.4	36.0	105.26	-115.7	1,233.7	154.7	84.1	70.59	2.191		
2,900.0	2,424.9	2,931.3	2,445.7	38.6	38.4	102.27	-121.2	1,311.8	160.5	84.7	75.87	2.116		
3,000.0	2,491.8	3,030.8	2,507.0	40.9	40.8	99.49	-126.6	1,390.0	166.8	85.8	81.02	2.059		
3,100.0	2,558.7	3,130.3	2,568.3	43.2	43.3	96.92	-132.1	1,468.1	173.4	87.4	86.04	2.016		
3,200.0	2,625.6	3,229.8	2,629.6	45.4	45.7	94.55	-137.6	1,546.3	180.4	89.4	90.92	1.984		
3,300.0	2,692.5	3,329.3	2,690.9	47.7	48.2	92.35	-143.1	1,624.5	187.6	91.9	95.69	1.961		
3,400.0	2,759.4	3,428.8	2,752.3	50.0	50.6	90.31	-148.6	1,702.6	195.1	94.8	100.35	1.944		
3,500.0	2,826.3	3,528.2	2,813.6	52.2	53.1	88.43	-154.1	1,780.8	202.8	97.9	104.90	1.934		
3,600.0	2,893.2	3,627.7	2,874.9	54.5	55.5	86.69	-159.5	1,859.0	210.8	101.4	109.36	1.927		
3,700.0	2,960.1	3,727.2	2,936.2	56.8	58.0	85.08	-165.0	1,937.1	218.9	105.1	113.73	1.924		
3,800.0	3,027.0	3,826.7	2,997.5	59.0	60.4	83.58	-170.5	2,015.3	227.1	109.1	118.03	1.924		
3,900.0	3,093.9	3,926.2	3,058.8	61.3	62.9	82.18	-176.0	2,093.4	235.5	113.3	122.26	1.927		
4,000.0	3,160.8	4,025.7	3,120.1	63.6	65.3	80.89	-181.5	2,171.6	244.1	117.6	126.42	1.931		
4,100.0	3,227.6	4,125.2	3,181.4	65.9	67.8	79.68	-187.0	2,249.8	252.7	122.2	130.54	1.936		
4,200.0	3,294.5	4,224.7	3,242.7	68.1	70.3	78.55	-192.4	2,327.9	261.5	126.9	134.60	1.943		
4,300.0	3,361.4	4,324.1	3,304.0	70.4	72.7	77.49	-197.9	2,406.1	270.3	131.7	138.62	1.950		
4,400.0	3,428.3	4,423.6	3,365.3	72.7	75.2	76.51	-203.4	2,484.3	279.3	136.7	142.61	1.958		
4,500.0	3,495.2	4,523.1	3,426.6	75.0	77.6	75.58	-208.9	2,562.4	288.3	141.7	146.55	1.967		
4,600.0	3,562.1	4,622.6	3,487.9	77.2	80.1	74.71	-214.4	2,640.6	297.4	146.9	150.47	1.976		
4,700.0	3,629.0	4,722.4	3,549.4	79.5	82.6	73.89	-219.9	2,719.0	306.5	152.2	154.36	1.986		
4,800.2	3,696.1	4,834.6	3,626.2	81.8	84.9	74.86	-226.7	2,800.2	313.6	154.1	159.51	1.966		
4,850.0	3,730.8	4,889.4	3,668.7	82.8	85.8	76.66	-230.5	2,834.7	316.4	154.0	162.45	1.948		

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

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design Bunker 8 Well Pad Sec.29-T5N-R68W - Bunker 8-4H - Wellbore #1 - Plan #2 (12-06-18)													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		
4,900.0	3,768.3	4,943.8	3,713.5	83.7	86.6	78.61	-234.5	2,865.1	319.7	154.6	165.09	1.936		
4,950.0	3,808.3	4,997.5	3,760.2	84.5	87.2	80.69	-238.7	2,891.3	323.3	155.9	167.44	1.931		
5,000.0	3,850.6	5,050.5	3,808.2	85.1	87.7	82.93	-243.0	2,913.2	327.4	157.9	169.48	1.932		
5,050.0	3,894.8	5,102.8	3,857.3	85.7	88.1	85.37	-247.4	2,930.8	331.9	160.7	171.20	1.939		
5,100.0	3,940.7	5,154.4	3,907.0	86.1	88.4	88.08	-251.8	2,944.2	336.7	164.1	172.60	1.951		
5,150.0	3,988.0	5,205.4	3,956.9	86.5	88.6	91.29	-256.2	2,953.3	342.0	168.3	173.69	1.969		
5,200.0	4,036.4	5,255.8	4,006.8	86.7	88.7	95.52	-260.7	2,958.4	347.5	173.0	174.49	1.991		
5,250.0	4,085.7	5,305.6	4,056.4	86.9	88.7	102.54	-265.1	2,959.6	353.3	178.3	175.01	2.019		
5,300.0	4,135.4	5,354.8	4,105.3	87.0	88.7	122.50	-269.5	2,956.9	359.3	184.1	175.28	2.050		
5,350.0	4,185.4	5,403.4	4,153.3	87.0	88.6	-140.76	-273.7	2,950.5	365.6	190.2	175.33	2.085		
5,400.0	4,235.2	5,451.5	4,200.2	87.0	88.6	-104.75	-277.9	2,940.5	371.9	196.7	175.18	2.123		
5,450.0	4,284.7	5,500.0	4,246.6	86.9	88.5	-95.79	-282.0	2,927.0	378.3	203.5	174.87	2.163		
5,500.0	4,333.4	5,546.4	4,289.8	86.8	88.4	-91.28	-285.9	2,910.7	384.8	210.3	174.43	2.206		
5,550.0	4,381.1	5,593.2	4,332.2	86.7	88.3	-88.23	-289.7	2,891.1	391.2	217.3	173.90	2.249		
5,600.0	4,427.5	5,639.6	4,372.6	86.6	88.2	-85.88	-293.2	2,868.7	397.5	224.2	173.30	2.294		
5,650.0	4,472.3	5,685.7	4,411.1	86.5	88.1	-83.95	-296.7	2,843.5	403.6	231.0	172.67	2.338		
5,700.0	4,515.3	5,731.5	4,447.4	86.4	88.0	-82.30	-299.9	2,815.9	409.6	237.6	172.04	2.381		
5,750.0	4,556.1	5,776.9	4,481.4	86.3	88.0	-80.87	-302.9	2,785.8	415.3	243.9	171.43	2.423		
5,800.0	4,594.5	5,822.1	4,513.0	86.3	88.1	-79.60	-305.7	2,753.7	420.7	249.9	170.88	2.462		
5,850.0	4,630.3	5,867.1	4,542.1	86.3	88.1	-78.49	-308.3	2,719.5	425.8	255.4	170.40	2.499		
5,900.0	4,663.2	5,911.9	4,568.6	86.3	88.2	-77.51	-310.7	2,683.5	430.6	260.5	170.02	2.532		
5,950.0	4,693.1	5,956.4	4,592.5	86.4	88.3	-76.66	-312.8	2,645.9	434.9	265.1	169.75	2.562		
6,000.0	4,719.8	6,000.0	4,613.2	86.6	88.5	-75.92	-314.6	2,607.7	438.8	269.2	169.61	2.587		
6,050.0	4,743.0	6,045.2	4,631.8	86.8	88.7	-75.29	-316.3	2,566.6	442.2	272.6	169.60	2.607		
6,100.0	4,762.8	6,089.3	4,647.2	87.0	89.0	-74.77	-317.6	2,525.2	445.1	275.4	169.72	2.623		
6,150.0	4,778.8	6,133.4	4,659.7	87.3	89.2	-74.35	-318.7	2,483.0	447.5	277.5	169.97	2.633		
6,200.0	4,791.1	6,177.4	4,669.3	87.6	89.6	-74.03	-319.6	2,440.0	449.4	279.0	170.35	2.638		
6,250.0	4,799.6	6,221.4	4,675.8	87.9	89.9	-73.82	-320.1	2,396.6	450.7	279.9	170.84	2.638		
6,300.0	4,804.2	6,265.3	4,679.4	88.3	90.2	-73.70	-320.4	2,352.8	451.5	280.1	171.44	2.634		
6,341.5	4,805.0	6,301.8	4,680.0	88.6	90.5	-73.68	-320.5	2,316.4	451.7	279.7	172.01	2.626		
6,400.0	4,804.3	6,359.8	4,679.1	89.1	91.1	-73.66	-320.4	2,258.3	451.9	278.9	172.97	2.612		
6,500.0	4,803.0	6,459.8	4,677.5	90.0	92.0	-73.62	-320.2	2,158.3	452.1	277.3	174.79	2.586		
6,600.0	4,801.7	6,559.8	4,675.9	91.0	93.1	-73.58	-320.0	2,058.3	452.3	275.4	176.84	2.557		
6,700.0	4,800.5	6,659.8	4,674.3	92.2	94.3	-73.55	-319.9	1,958.4	452.5	273.4	179.11	2.526		
6,800.0	4,799.2	6,759.8	4,672.7	93.5	95.6	-73.51	-319.7	1,858.4	452.7	271.1	181.58	2.493		
6,900.0	4,797.9	6,859.8	4,671.1	94.8	97.0	-73.47	-319.5	1,758.4	452.9	268.6	184.26	2.458		
7,000.0	4,796.7	6,959.8	4,669.5	96.3	98.5	-73.44	-319.4	1,658.4	453.1	265.9	187.14	2.421		
7,100.0	4,795.4	7,059.8	4,667.9	97.9	100.1	-73.40	-319.2	1,558.4	453.3	263.1	190.19	2.383		
7,200.0	4,794.1	7,159.8	4,666.3	99.6	101.8	-73.36	-319.0	1,458.4	453.5	260.1	193.43	2.344		
7,300.0	4,792.9	7,259.8	4,664.7	101.3	103.6	-73.33	-318.8	1,358.4	453.7	256.9	196.83	2.305		
7,400.0	4,791.6	7,359.8	4,663.2	103.2	105.5	-73.29	-318.7	1,258.5	453.9	253.5	200.39	2.265		
7,500.0	4,790.4	7,459.8	4,661.6	105.1	107.4	-73.26	-318.5	1,158.5	454.1	250.0	204.09	2.225		
7,600.0	4,789.1	7,559.8	4,660.0	107.1	109.4	-73.22	-318.3	1,058.5	454.3	246.4	207.94	2.185		
7,700.0	4,787.8	7,659.8	4,658.4	109.2	111.5	-73.18	-318.2	958.5	454.5	242.6	211.93	2.145		
7,800.0	4,786.6	7,759.8	4,656.8	111.3	113.7	-73.15	-318.0	858.5	454.7	238.7	216.03	2.105		
7,900.0	4,785.3	7,859.8	4,655.2	113.5	115.9	-73.11	-317.8	758.5	454.9	234.6	220.26	2.065		
8,000.0	4,784.0	7,959.8	4,653.6	115.8	118.2	-73.08	-317.7	658.5	455.1	230.5	224.60	2.026		
8,100.0	4,782.8	8,059.8	4,652.0	118.1	120.5	-73.04	-317.5	558.6	455.3	226.3	229.04	1.988		
8,200.0	4,781.5	8,159.8	4,650.4	120.5	122.9	-73.00	-317.3	458.6	455.5	221.9	233.58	1.950		
8,300.0	4,780.2	8,259.8	4,648.8	122.9	125.3	-72.97	-317.1	358.6	455.7	217.5	238.22	1.913		
8,400.0	4,779.0	8,359.8	4,647.2	125.4	127.8	-72.93	-317.0	258.6	455.9	213.0	242.94	1.877		
8,500.0	4,777.7	8,459.8	4,645.6	127.9	130.3	-72.90	-316.8	158.6	456.1	208.4	247.75	1.841		

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

Company:	Magpie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance								
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)				
8,600.0	4,776.4	8,559.8	4,644.0	130.5	132.9	-72.86	-316.6	58.6	456.3	203.7	252.63	1.806			
8,700.0	4,775.2	8,659.8	4,642.4	133.1	135.5	-72.82	-316.5	-41.4	456.6	199.0	257.58	1.772			
8,800.0	4,773.9	8,759.8	4,640.8	135.7	138.1	-72.79	-316.3	-141.4	456.8	194.1	262.61	1.739			
8,900.0	4,772.6	8,859.8	4,639.2	138.4	140.8	-72.75	-316.1	-241.3	457.0	189.3	267.70	1.707			
9,000.0	4,771.4	8,959.8	4,637.6	141.1	143.5	-72.72	-316.0	-341.3	457.2	184.3	272.84	1.676			
9,100.0	4,770.1	9,059.8	4,636.0	143.8	146.2	-72.68	-315.8	-441.3	457.4	179.3	278.05	1.645			
9,200.0	4,768.9	9,159.8	4,634.4	146.6	149.0	-72.65	-315.6	-541.3	457.6	174.3	283.31	1.615			
9,300.0	4,767.6	9,259.8	4,632.8	149.4	151.8	-72.61	-315.4	-641.3	457.8	169.2	288.62	1.586			
9,400.0	4,766.3	9,359.8	4,631.2	152.2	154.6	-72.57	-315.3	-741.3	458.0	164.0	293.98	1.558			
9,500.0	4,765.1	9,459.8	4,629.6	155.0	157.4	-72.54	-315.1	-841.3	458.2	158.8	299.38	1.531			
9,600.0	4,763.8	9,559.8	4,628.0	157.9	160.3	-72.50	-314.9	-941.2	458.4	153.6	304.83	1.504			
9,700.0	4,762.5	9,659.8	4,626.4	160.8	163.2	-72.47	-314.8	-1,041.2	458.6	148.3	310.31	1.478	Level 3		
9,800.0	4,761.3	9,759.8	4,624.8	163.7	166.1	-72.43	-314.6	-1,141.2	458.8	143.0	315.84	1.453	Level 3		
9,900.0	4,760.0	9,859.8	4,623.2	166.6	169.0	-72.40	-314.4	-1,241.2	459.0	137.6	321.40	1.428	Level 3		
10,000.0	4,758.7	9,959.8	4,621.6	169.6	172.0	-72.36	-314.3	-1,341.2	459.2	132.3	326.99	1.404	Level 3		
10,100.0	4,757.5	10,059.8	4,620.0	172.6	175.0	-72.33	-314.1	-1,441.2	459.5	126.8	332.62	1.381	Level 3		
10,200.0	4,756.2	10,159.8	4,618.4	175.6	177.9	-72.29	-313.9	-1,541.2	459.7	121.4	338.27	1.359	Level 3		
10,300.0	4,754.9	10,259.8	4,616.8	178.6	180.9	-72.26	-313.7	-1,641.1	459.9	115.9	343.95	1.337	Level 3		
10,400.0	4,753.7	10,359.8	4,615.2	181.6	184.0	-72.22	-313.6	-1,741.1	460.1	110.4	349.67	1.316	Level 3		
10,500.0	4,752.4	10,459.8	4,613.6	184.6	187.0	-72.19	-313.4	-1,841.1	460.3	104.9	355.40	1.295	Level 3		
10,600.0	4,751.2	10,559.8	4,612.0	187.7	190.0	-72.15	-313.2	-1,941.1	460.5	99.3	361.16	1.275	Level 3		
10,700.0	4,749.9	10,659.8	4,610.4	190.7	193.1	-72.11	-313.1	-2,041.1	460.7	93.8	366.95	1.256	Level 3		
10,800.0	4,748.6	10,759.8	4,608.8	193.8	196.2	-72.08	-312.9	-2,141.1	460.9	88.2	372.75	1.237	Level 2		
10,900.0	4,747.4	10,859.8	4,607.2	196.9	199.3	-72.04	-312.7	-2,241.1	461.1	82.5	378.58	1.218	Level 2		
11,000.0	4,746.1	10,959.8	4,605.6	200.0	202.3	-72.01	-312.5	-2,341.1	461.3	76.9	384.42	1.200	Level 2		
11,100.0	4,744.8	11,059.8	4,604.0	203.1	205.5	-71.97	-312.4	-2,441.0	461.5	71.3	390.29	1.183	Level 2		
11,200.0	4,743.6	11,159.8	4,602.4	206.2	208.6	-71.94	-312.2	-2,541.0	461.8	65.6	396.17	1.166	Level 2		
11,300.0	4,742.3	11,259.8	4,600.8	209.3	211.7	-71.90	-312.0	-2,641.0	462.0	59.9	402.07	1.149	Level 2		
11,400.0	4,741.0	11,359.8	4,599.2	212.5	214.8	-71.87	-311.9	-2,741.0	462.2	54.2	407.98	1.133	Level 2		
11,500.0	4,739.8	11,459.8	4,597.6	215.6	218.0	-71.83	-311.7	-2,841.0	462.4	48.5	413.91	1.117	Level 2		
11,600.0	4,738.5	11,559.8	4,596.0	218.8	221.1	-71.80	-311.5	-2,941.0	462.6	42.7	419.86	1.102	Level 2		
11,700.0	4,737.2	11,659.8	4,594.4	222.0	224.3	-71.76	-311.4	-3,041.0	462.8	37.0	425.82	1.087	Level 2		
11,800.0	4,736.0	11,759.8	4,592.8	225.1	227.5	-71.73	-311.2	-3,140.9	463.0	31.2	431.79	1.072	Level 2		
11,900.0	4,734.7	11,859.8	4,591.2	228.3	230.6	-71.70	-311.0	-3,240.9	463.2	25.5	437.77	1.058	Level 2		
12,000.0	4,733.5	11,959.8	4,589.7	231.5	233.8	-71.66	-310.8	-3,340.9	463.4	19.7	443.76	1.044	Level 2		
12,100.0	4,732.2	12,059.8	4,588.1	234.7	237.0	-71.63	-310.7	-3,440.9	463.7	13.9	449.77	1.031	Level 2		
12,200.0	4,730.9	12,159.8	4,586.5	237.9	240.2	-71.59	-310.5	-3,540.9	463.9	8.1	455.78	1.018	Level 2		
12,300.0	4,729.7	12,259.8	4,584.9	241.1	243.4	-71.56	-310.3	-3,640.9	464.1	2.3	461.81	1.005	Level 2		
12,400.0	4,728.4	12,359.8	4,583.3	244.3	246.6	-71.52	-310.2	-3,740.9	464.3	-3.5	467.84	0.992	Level 1		
12,500.0	4,727.1	12,459.8	4,581.7	247.5	249.9	-71.49	-310.0	-3,840.9	464.5	-9.4	473.89	0.980	Level 1		
12,600.0	4,725.9	12,559.8	4,580.1	250.8	253.1	-71.45	-309.8	-3,940.8	464.7	-15.2	479.94	0.968	Level 1		
12,700.0	4,724.6	12,659.8	4,578.5	254.0	256.3	-71.42	-309.7	-4,040.8	464.9	-21.1	486.00	0.957	Level 1		
12,800.0	4,723.3	12,759.8	4,576.9	257.2	259.5	-71.38	-309.5	-4,140.8	465.1	-26.9	492.07	0.945	Level 1		
12,900.0	4,722.1	12,859.8	4,575.3	260.5	262.8	-71.35	-309.3	-4,240.8	465.4	-32.8	498.15	0.934	Level 1, ES, SF		
13,000.0	4,720.8	12,876.8	4,575.0	263.7	263.3	-71.34	-309.3	-4,257.8	472.9	-28.8	501.75	0.943	Level 1		
13,100.0	4,719.5	12,876.8	4,575.0	267.0	263.3	-71.34	-309.3	-4,257.8	500.5	-4.4	504.84	0.991	Level 1		
13,200.0	4,718.3	12,876.8	4,575.0	270.2	263.3	-71.34	-309.3	-4,257.8	545.2	37.3	507.94	1.073	Level 2		
13,300.0	4,717.0	12,876.8	4,575.0	273.5	263.3	-71.34	-309.3	-4,257.8	603.4	92.3	511.04	1.181	Level 2		
13,400.0	4,715.7	12,876.8	4,575.0	276.8	263.3	-71.34	-309.3	-4,257.8	671.5	157.3	514.15	1.306	Level 3		
13,500.0	4,714.5	12,876.8	4,575.0	280.0	263.3	-71.34	-309.3	-4,257.8	746.8	229.5	517.26	1.444	Level 3		

Company:	Magpie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Bunker 8 Well Pad Sec.29-T5N-R68W - Bunker 8-6H - Wellbore #1 - Plan #2 (12-06-18)													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	0.00	32.8	0.0	32.8					
100.0	100.0	98.0	98.0	0.1	0.1	0.00	32.8	0.0	32.8	32.5	0.27	120.283		
200.0	200.0	198.0	198.0	0.4	0.4	0.00	32.8	0.0	32.8	32.0	0.82	39.960	CC	
300.0	300.0	297.9	297.8	0.7	0.7	-88.62	33.0	2.1	32.9	31.6	1.35	24.399		
400.0	399.7	397.7	397.5	1.0	1.0	-88.82	33.6	8.5	33.4	31.5	1.91	17.478		
500.0	499.1	497.6	496.8	1.3	1.3	-89.05	34.7	19.2	34.2	31.6	2.57	13.313		
600.0	598.0	597.4	595.5	1.7	1.7	-89.29	36.2	34.2	35.3	31.9	3.36	10.516		
700.0	696.0	697.3	693.4	2.2	2.1	-89.54	38.2	53.5	36.7	32.4	4.30	8.526		
800.0	793.2	797.2	790.4	2.7	2.7	-89.79	40.5	77.0	38.4	33.0	5.44	7.067		
900.0	889.2	897.0	886.3	3.4	3.4	-90.03	43.3	104.7	40.5	33.7	6.77	5.974		
1,000.0	983.9	996.9	980.9	4.2	4.1	-90.26	46.5	136.5	42.8	34.5	8.32	5.144		
1,100.0	1,077.0	1,096.7	1,074.0	5.1	5.0	-90.47	50.1	172.3	45.4	35.3	10.09	4.502		
1,200.0	1,168.6	1,196.6	1,165.5	6.1	6.0	-90.66	54.1	212.2	48.3	36.3	12.09	3.999		
1,300.0	1,258.3	1,296.4	1,255.1	7.2	7.1	-90.82	58.5	256.0	51.6	37.2	14.33	3.599		
1,400.0	1,345.9	1,396.2	1,342.6	8.4	8.4	-90.97	63.2	303.6	55.1	38.3	16.81	3.276		
1,500.0	1,431.4	1,496.0	1,428.1	9.8	9.7	-91.10	68.4	355.0	58.8	39.3	19.53	3.012		
1,600.0	1,514.5	1,595.9	1,511.1	11.3	11.2	-91.20	73.9	410.0	62.9	40.4	22.51	2.793		
1,700.0	1,595.2	1,695.7	1,591.7	12.9	12.8	-91.28	79.8	468.6	67.2	41.4	25.74	2.610		
1,800.0	1,673.2	1,795.5	1,669.7	14.7	14.6	-91.35	86.0	530.6	71.7	42.5	29.22	2.455		
1,900.0	1,748.3	1,895.2	1,744.8	16.6	16.4	-91.40	92.6	595.9	76.5	43.6	32.95	2.323		
2,000.0	1,820.6	1,995.0	1,817.0	18.6	18.4	-91.43	99.4	664.4	81.6	44.6	36.93	2.209		
2,100.0	1,889.7	2,094.8	1,886.2	20.7	20.5	-91.45	106.6	736.0	86.8	45.7	41.15	2.110		
2,120.6	1,903.6	2,115.4	1,900.1	21.1	20.9	-91.46	108.1	751.1	87.9	45.9	42.06	2.091		
2,200.0	1,956.7	2,194.5	1,952.1	22.9	22.7	-90.72	114.1	810.4	92.3	46.7	45.59	2.024		
2,300.0	2,023.6	2,294.0	2,014.6	25.1	25.0	-87.62	121.8	887.4	98.0	48.0	50.07	1.958		
2,400.0	2,090.5	2,393.2	2,074.1	27.4	27.5	-82.93	129.7	966.4	104.6	50.3	54.34	1.925		
2,500.0	2,157.4	2,492.6	2,133.3	29.6	29.9	-78.63	137.7	1,045.8	111.9	53.6	58.30	1.919		
2,600.0	2,224.3	2,592.0	2,192.6	31.9	32.4	-74.88	145.7	1,125.2	119.7	57.7	62.00	1.931		
2,700.0	2,291.1	2,691.4	2,251.9	34.1	34.8	-71.59	153.6	1,204.6	128.0	62.5	65.48	1.955		
2,800.0	2,358.0	2,790.8	2,311.2	36.4	37.3	-68.71	161.6	1,284.0	136.6	67.8	68.80	1.986		
2,900.0	2,424.9	2,890.2	2,370.5	38.6	39.8	-66.17	169.5	1,363.4	145.6	73.6	71.99	2.022		
3,000.0	2,491.8	2,989.6	2,429.8	40.9	42.2	-63.93	177.5	1,442.7	154.8	79.7	75.08	2.062		
3,100.0	2,558.7	3,089.0	2,489.1	43.2	44.7	-61.95	185.5	1,522.1	164.2	86.1	78.09	2.103		
3,200.0	2,625.6	3,188.4	2,548.4	45.4	47.2	-60.18	193.4	1,601.5	173.8	92.8	81.04	2.145		
3,300.0	2,692.5	3,287.8	2,607.7	47.7	49.7	-58.60	201.4	1,680.9	183.5	99.6	83.94	2.186		
3,400.0	2,759.4	3,387.2	2,667.0	50.0	52.2	-57.17	209.4	1,760.3	193.4	106.6	86.80	2.228		
3,500.0	2,826.3	3,486.6	2,726.3	52.2	54.6	-55.89	217.3	1,839.6	203.4	113.7	89.64	2.269		
3,600.0	2,893.2	3,586.1	2,785.6	54.5	57.1	-54.72	225.3	1,919.0	213.4	121.0	92.45	2.308		
3,700.0	2,960.1	3,685.5	2,844.9	56.8	59.6	-53.67	233.2	1,998.4	223.5	128.3	95.25	2.347		
3,800.0	3,027.0	3,784.9	2,904.2	59.0	62.1	-52.70	241.2	2,077.8	233.8	135.7	98.03	2.385		
3,900.0	3,093.9	3,884.3	2,963.5	61.3	64.6	-51.81	249.2	2,157.2	244.0	143.2	100.80	2.421		
4,000.0	3,160.8	3,983.7	3,022.8	63.6	67.1	-51.00	257.1	2,236.6	254.3	150.8	103.56	2.456		
4,100.0	3,227.6	4,083.1	3,082.1	65.9	69.6	-50.25	265.1	2,315.9	264.7	158.4	106.32	2.490		
4,200.0	3,294.5	4,182.5	3,141.4	68.1	72.1	-49.55	273.0	2,395.3	275.1	166.0	109.07	2.522		
4,300.0	3,361.4	4,281.9	3,200.7	70.4	74.6	-48.91	281.0	2,474.7	285.6	173.7	111.82	2.554		
4,400.0	3,428.3	4,381.3	3,260.0	72.7	77.0	-48.31	289.0	2,554.1	296.0	181.5	114.56	2.584		
4,500.0	3,495.2	4,480.7	3,319.3	75.0	79.5	-47.75	296.9	2,633.5	306.5	189.2	117.30	2.613		
4,600.0	3,562.1	4,588.1	3,383.9	77.2	82.2	-47.28	305.6	2,718.9	316.8	196.6	120.24	2.635		
4,700.0	3,629.0	4,727.1	3,482.4	79.5	84.9	-49.70	319.0	2,815.6	318.7	190.7	127.96	2.490		
4,800.2	3,696.1	4,856.4	3,590.6	81.8	86.6	-56.14	334.0	2,884.3	310.3	169.1	141.21	2.198		
4,850.0	3,730.8	4,915.2	3,643.9	82.8	87.1	-59.62	341.4	2,907.9	305.0	157.4	147.60	2.067		
4,900.0	3,768.3	4,971.8	3,697.0	83.7	87.5	-63.21	348.9	2,925.9	301.0	147.4	153.55	1.960		

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

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design Bunker 8 Well Pad Sec.29-T5N-R68W - Bunker 8-6H - Wellbore #1 - Plan #2 (12-06-18)													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		
4,950.0	3,808.3	5,026.0	3,749.3	84.5	87.8	-66.83	356.2	2,938.6	298.3	139.3	158.94	1.877		
5,000.0	3,850.6	5,078.2	3,800.3	85.1	88.0	-70.41	363.4	2,946.5	297.1	133.5	163.64	1.816		
5,009.9	3,859.2	5,088.3	3,810.2	85.2	88.0	-71.10	364.8	2,947.5	297.1	132.6	164.47	1.807		
5,050.0	3,894.8	5,128.5	3,850.0	85.7	88.0	-73.84	370.5	2,950.1	297.6	130.1	167.56	1.776		
5,100.0	3,940.7	5,177.2	3,898.1	86.1	88.1	-76.97	377.3	2,949.8	299.8	129.1	170.63	1.757		
5,150.0	3,988.0	5,224.3	3,944.6	86.5	88.0	-79.54	383.9	2,946.0	303.4	130.6	172.82	1.756		
5,200.0	4,036.4	5,270.0	3,989.3	86.7	88.0	-80.97	390.3	2,938.9	308.6	134.4	174.13	1.772		
5,250.0	4,085.7	5,314.6	4,032.3	86.9	87.9	-79.44	396.5	2,929.0	315.0	140.4	174.60	1.804		
5,300.0	4,135.4	5,358.0	4,073.5	87.0	87.8	-64.77	402.4	2,916.4	322.5	148.2	174.30	1.850		
5,350.0	4,185.4	5,400.0	4,112.3	87.0	87.8	26.95	408.0	2,901.6	330.9	157.6	173.31	1.909		
5,400.0	4,235.2	5,442.1	4,150.3	87.0	87.7	58.15	413.5	2,884.1	340.0	168.3	171.72	1.980		
5,450.0	4,284.7	5,483.0	4,185.9	86.9	87.6	62.58	418.6	2,864.8	349.7	180.0	169.66	2.061		
5,500.0	4,333.4	5,523.1	4,219.6	86.8	87.5	62.89	423.5	2,843.6	359.6	192.4	167.24	2.150		
5,550.0	4,381.1	5,562.7	4,251.5	86.7	87.5	62.02	428.2	2,820.7	369.7	205.2	164.56	2.247		
5,600.0	4,427.5	5,600.0	4,280.2	86.6	87.5	60.79	432.4	2,797.3	379.9	218.1	161.77	2.348		
5,650.0	4,472.3	5,640.2	4,309.6	86.5	87.5	59.31	436.7	2,770.2	389.8	231.0	158.80	2.455		
5,700.0	4,515.3	5,678.3	4,335.8	86.4	87.5	57.90	440.6	2,742.8	399.5	243.6	155.91	2.563		
5,750.0	4,556.1	5,716.0	4,360.1	86.3	87.6	56.55	444.2	2,714.2	408.8	255.7	153.10	2.670		
5,800.0	4,594.5	5,750.0	4,380.6	86.3	87.6	55.37	447.3	2,687.2	417.7	267.1	150.54	2.775		
5,850.0	4,630.3	5,790.4	4,403.0	86.3	87.7	54.17	450.7	2,653.7	425.9	277.9	148.00	2.878		
5,900.0	4,663.2	5,827.3	4,421.5	86.3	87.9	53.15	453.5	2,622.0	433.6	287.8	145.80	2.974		
5,950.0	4,693.1	5,863.9	4,438.1	86.4	88.0	52.25	456.0	2,589.5	440.5	296.6	143.89	3.061		
6,000.0	4,719.8	5,900.0	4,452.7	86.6	88.2	51.48	458.3	2,556.5	446.6	304.4	142.28	3.139		
6,050.0	4,743.0	5,936.5	4,465.5	86.8	88.4	50.83	460.3	2,522.4	452.0	311.0	141.00	3.206		
6,100.0	4,762.8	5,972.7	4,476.2	87.0	88.6	50.30	462.0	2,487.9	456.5	316.4	140.05	3.259		
6,150.0	4,778.8	6,008.7	4,484.9	87.3	88.9	49.89	463.4	2,453.0	460.1	320.7	139.42	3.300		
6,200.0	4,791.1	6,050.0	4,492.5	87.6	89.2	49.58	464.8	2,412.4	462.8	323.7	139.12	3.327		
6,250.0	4,799.6	6,080.5	4,496.5	87.9	89.4	49.42	465.5	2,382.2	464.6	325.4	139.13	3.339		
6,300.0	4,804.2	6,116.4	4,499.3	88.3	89.7	49.36	466.1	2,346.4	465.4	326.0	139.44	3.338		
6,341.5	4,805.0	6,150.0	4,500.1	88.6	89.9	49.40	466.4	2,312.8	465.4	325.5	139.93	3.326		
6,355.7	4,804.8	6,156.4	4,500.0	88.7	90.0	49.40	466.4	2,306.5	465.4	325.3	140.10	3.322		
6,400.0	4,804.3	6,199.9	4,499.4	89.1	90.4	49.39	466.6	2,263.0	465.5	324.7	140.75	3.307		
6,500.0	4,803.0	6,299.9	4,497.8	90.0	91.3	49.37	466.9	2,163.0	465.7	323.3	142.38	3.271		
6,600.0	4,801.7	6,399.9	4,496.3	91.0	92.4	49.35	467.3	2,063.0	465.9	321.7	144.20	3.231		
6,700.0	4,800.5	6,499.9	4,494.7	92.2	93.5	49.33	467.6	1,963.0	466.2	320.0	146.18	3.189		
6,800.0	4,799.2	6,599.9	4,493.2	93.5	94.8	49.31	468.0	1,863.0	466.4	318.1	148.34	3.144		
6,900.0	4,797.9	6,699.9	4,491.6	94.8	96.2	49.29	468.4	1,763.0	466.6	316.0	150.64	3.098		
7,000.0	4,796.7	6,799.9	4,490.1	96.3	97.7	49.27	468.7	1,663.0	466.9	313.8	153.10	3.049		
7,100.0	4,795.4	6,899.9	4,488.5	97.9	99.2	49.25	469.1	1,563.1	467.1	311.4	155.71	3.000		
7,200.0	4,794.1	6,999.9	4,487.0	99.6	100.9	49.23	469.4	1,463.1	467.4	308.9	158.45	2.950		
7,300.0	4,792.9	7,099.9	4,485.4	101.3	102.7	49.21	469.8	1,363.1	467.6	306.3	161.31	2.899		
7,400.0	4,791.6	7,199.9	4,483.9	103.2	104.5	49.19	470.1	1,263.1	467.8	303.5	164.30	2.847		
7,500.0	4,790.4	7,299.9	4,482.4	105.1	106.5	49.17	470.5	1,163.1	468.1	300.7	167.40	2.796		
7,600.0	4,789.1	7,399.9	4,480.8	107.1	108.5	49.15	470.8	1,063.1	468.3	297.7	170.61	2.745		
7,700.0	4,787.8	7,499.9	4,479.3	109.2	110.5	49.13	471.2	963.1	468.5	294.6	173.93	2.694		
7,800.0	4,786.6	7,599.9	4,477.7	111.3	112.7	49.11	471.5	863.1	468.8	291.4	177.34	2.643		
7,900.0	4,785.3	7,699.9	4,476.2	113.5	114.9	49.09	471.9	763.2	469.0	288.2	180.84	2.594		
8,000.0	4,784.0	7,799.9	4,474.6	115.8	117.2	49.07	472.3	663.2	469.3	284.8	184.42	2.545		
8,100.0	4,782.8	7,899.9	4,473.1	118.1	119.5	49.05	472.6	563.2	469.5	281.4	188.08	2.496		
8,200.0	4,781.5	7,999.9	4,471.5	120.5	121.9	49.03	473.0	463.2	469.7	277.9	191.82	2.449		
8,300.0	4,780.2	8,099.9	4,470.0	122.9	124.3	49.01	473.3	363.2	470.0	274.3	195.63	2.402		
8,400.0	4,779.0	8,199.9	4,468.4	125.4	126.8	48.99	473.7	263.2	470.2	270.7	199.51	2.357		

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

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,500.0	4,777.7	8,299.9	4,466.9	127.9	129.3	48.97	474.0	163.2	470.5	267.0	203.45	2.312		
8,600.0	4,776.4	8,399.9	4,465.3	130.5	131.8	48.95	474.4	63.3	470.7	263.3	207.44	2.269		
8,700.0	4,775.2	8,499.9	4,463.8	133.1	134.4	48.93	474.7	-36.7	470.9	259.4	211.49	2.227		
8,800.0	4,773.9	8,599.9	4,462.3	135.7	137.1	48.91	475.1	-136.7	471.2	255.6	215.60	2.185		
8,900.0	4,772.6	8,699.9	4,460.7	138.4	139.8	48.89	475.4	-236.7	471.4	251.7	219.75	2.145		
9,000.0	4,771.4	8,799.9	4,459.2	141.1	142.5	48.87	475.8	-336.7	471.7	247.7	223.94	2.106		
9,100.0	4,770.1	8,899.9	4,457.6	143.8	145.2	48.85	476.1	-436.7	471.9	243.7	228.18	2.068		
9,200.0	4,768.9	8,999.9	4,456.1	146.6	148.0	48.83	476.5	-536.7	472.1	239.7	232.46	2.031		
9,300.0	4,767.6	9,099.9	4,454.5	149.4	150.8	48.81	476.9	-636.7	472.4	235.6	236.78	1.995		
9,400.0	4,766.3	9,199.9	4,453.0	152.2	153.6	48.79	477.2	-736.6	472.6	231.5	241.14	1.960		
9,500.0	4,765.1	9,299.9	4,451.4	155.0	156.4	48.77	477.6	-836.6	472.8	227.3	245.52	1.926		
9,600.0	4,763.8	9,399.9	4,449.9	157.9	159.3	48.75	477.9	-936.6	473.1	223.1	249.94	1.893		
9,700.0	4,762.5	9,499.9	4,448.3	160.8	162.2	48.73	478.3	-1,036.6	473.3	218.9	254.39	1.861		
9,800.0	4,761.3	9,599.9	4,446.8	163.7	165.1	48.71	478.6	-1,136.6	473.6	214.7	258.87	1.829		
9,900.0	4,760.0	9,699.9	4,445.2	166.6	168.0	48.69	479.0	-1,236.6	473.8	210.4	263.37	1.799		
10,000.0	4,758.7	9,799.9	4,443.7	169.6	171.0	48.67	479.3	-1,336.6	474.0	206.1	267.90	1.769		
10,100.0	4,757.5	9,899.9	4,442.2	172.6	174.0	48.65	479.7	-1,436.6	474.3	201.8	272.45	1.741		
10,200.0	4,756.2	9,999.9	4,440.6	175.6	176.9	48.63	480.0	-1,536.5	474.5	197.5	277.03	1.713		
10,300.0	4,754.9	10,099.9	4,439.1	178.6	179.9	48.61	480.4	-1,636.5	474.8	193.1	281.63	1.686		
10,400.0	4,753.7	10,199.9	4,437.5	181.6	183.0	48.59	480.8	-1,736.5	475.0	188.8	286.24	1.659		
10,500.0	4,752.4	10,299.9	4,436.0	184.6	186.0	48.57	481.1	-1,836.5	475.2	184.4	290.88	1.634		
10,600.0	4,751.2	10,399.9	4,434.4	187.7	189.0	48.55	481.5	-1,936.5	475.5	180.0	295.53	1.609		
10,700.0	4,749.9	10,499.9	4,432.9	190.7	192.1	48.53	481.8	-2,036.5	475.7	175.5	300.20	1.585		
10,800.0	4,748.6	10,599.9	4,431.3	193.8	195.2	48.51	482.2	-2,136.5	476.0	171.1	304.88	1.561		
10,900.0	4,747.4	10,699.9	4,429.8	196.9	198.3	48.49	482.5	-2,236.4	476.2	166.6	309.58	1.538		
11,000.0	4,746.1	10,799.9	4,428.2	200.0	201.4	48.47	482.9	-2,336.4	476.4	162.1	314.30	1.516		
11,100.0	4,744.8	10,899.9	4,426.7	203.1	204.5	48.45	483.2	-2,436.4	476.7	157.7	319.03	1.494 Level 3		
11,200.0	4,743.6	10,999.9	4,425.1	206.2	207.6	48.43	483.6	-2,536.4	476.9	153.2	323.77	1.473 Level 3		
11,300.0	4,742.3	11,099.9	4,423.6	209.3	210.7	48.41	483.9	-2,636.4	477.2	148.6	328.52	1.452 Level 3		
11,400.0	4,741.0	11,199.9	4,422.0	212.5	213.9	48.39	484.3	-2,736.4	477.4	144.1	333.28	1.432 Level 3		
11,500.0	4,739.8	11,299.9	4,420.5	215.6	217.0	48.37	484.7	-2,836.4	477.6	139.6	338.06	1.413 Level 3		
11,600.0	4,738.5	11,399.9	4,419.0	218.8	220.2	48.35	485.0	-2,936.4	477.9	135.0	342.84	1.394 Level 3		
11,700.0	4,737.2	11,499.9	4,417.4	222.0	223.3	48.33	485.4	-3,036.3	478.1	130.5	347.64	1.375 Level 3		
11,800.0	4,736.0	11,599.9	4,415.9	225.1	226.5	48.31	485.7	-3,136.3	478.4	125.9	352.44	1.357 Level 3		
11,900.0	4,734.7	11,699.9	4,414.3	228.3	229.7	48.29	486.1	-3,236.3	478.6	121.4	357.26	1.340 Level 3		
12,000.0	4,733.5	11,799.9	4,412.8	231.5	232.9	48.27	486.4	-3,336.3	478.8	116.8	362.08	1.323 Level 3		
12,100.0	4,732.2	11,899.9	4,411.2	234.7	236.1	48.25	486.8	-3,436.3	479.1	112.2	366.91	1.306 Level 3		
12,200.0	4,730.9	11,999.9	4,409.7	237.9	239.3	48.23	487.1	-3,536.3	479.3	107.6	371.74	1.289 Level 3		
12,300.0	4,729.7	12,099.8	4,408.1	241.1	242.5	48.21	487.5	-3,636.3	479.6	103.0	376.58	1.273 Level 3		
12,400.0	4,728.4	12,199.8	4,406.6	244.3	245.7	48.19	487.8	-3,736.3	479.8	98.4	381.43	1.258 Level 3		
12,500.0	4,727.1	12,299.8	4,405.0	247.5	248.9	48.17	488.2	-3,836.2	480.1	93.8	386.29	1.243 Level 2		
12,600.0	4,725.9	12,399.8	4,403.5	250.8	252.1	48.16	488.5	-3,936.2	480.3	89.1	391.15	1.228 Level 2		
12,700.0	4,724.6	12,499.8	4,401.9	254.0	255.4	48.14	488.9	-4,036.2	480.5	84.5	396.02	1.213 Level 2		
12,800.0	4,723.3	12,599.8	4,400.4	257.2	258.6	48.12	489.3	-4,136.2	480.8	79.9	400.89	1.199 Level 2		
12,900.0	4,722.1	12,699.8	4,398.9	260.5	261.8	48.10	489.6	-4,236.2	481.0	75.2	405.77	1.185 Level 2		
13,000.0	4,720.8	12,799.8	4,397.3	263.7	265.1	48.08	490.0	-4,336.2	481.3	70.6	410.65	1.172 Level 2		
13,100.0	4,719.5	12,899.8	4,395.8	267.0	268.3	48.06	490.3	-4,436.2	481.5	66.0	415.54	1.159 Level 2		
13,200.0	4,718.3	12,999.8	4,394.2	270.2	271.6	48.04	490.7	-4,536.2	481.7	61.3	420.43	1.146 Level 2		
13,300.0	4,717.0	13,099.8	4,392.7	273.5	274.9	48.02	491.0	-4,636.1	482.0	56.7	425.32	1.133 Level 2		
13,400.0	4,715.7	13,199.8	4,391.1	276.8	278.1	48.00	491.4	-4,736.1	482.2	52.0	430.22	1.121 Level 2		
13,500.0	4,714.5	13,299.8	4,389.6	280.0	281.4	47.98	491.7	-4,836.1	482.5	47.3	435.13	1.109 Level 2		
13,600.0	4,713.2	13,399.8	4,388.0	283.3	284.7	47.96	492.1	-4,936.1	482.7	42.7	440.03	1.097 Level 2		

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

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design		Bunker 8 Well Pad Sec.29-T5N-R68W - Bunker 8-6H - Wellbore #1 - Plan #2 (12-06-18)										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	
13,700.0	4,712.0	13,499.8	4,386.5	286.6	288.0	47.94	492.4	-5,036.1	483.0	38.0	444.94	1.085	Level 2
13,800.0	4,710.7	13,599.8	4,384.9	289.9	291.2	47.92	492.8	-5,136.1	483.2	33.3	449.85	1.074	Level 2
13,900.0	4,709.4	13,699.8	4,383.4	293.2	294.5	47.91	493.2	-5,236.1	483.4	28.7	454.76	1.063	Level 2
14,000.0	4,708.2	13,799.8	4,381.8	296.5	297.8	47.89	493.5	-5,336.0	483.7	24.0	459.68	1.052	Level 2
14,100.0	4,706.9	13,899.8	4,380.3	299.7	301.1	47.87	493.9	-5,436.0	483.9	19.3	464.60	1.042	Level 2
14,200.0	4,705.6	13,999.8	4,378.8	303.0	304.4	47.85	494.2	-5,536.0	484.2	14.6	469.52	1.031	Level 2
14,250.1	4,705.0	14,050.0	4,378.0	304.7	306.1	47.84	494.4	-5,586.1	484.3	12.3	471.99	1.026	Level 2, ES, SF

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	61.9	0.0	62.1					
100.0	100.0	96.0	96.0	0.1	0.1	0.00	61.9	0.0	61.9	61.7	0.27	229.515		
200.0	200.0	196.0	196.0	0.4	0.4	0.00	61.9	0.0	61.9	61.1	0.82	75.991		
287.6	287.6	283.6	283.6	0.6	0.6	-90.00	61.9	0.0	61.9	60.6	1.29	48.082 CC		
300.0	300.0	296.0	296.0	0.7	0.7	-90.47	61.9	0.0	61.9	60.6	1.35	45.708 ES		
400.0	399.7	395.5	395.5	1.0	0.9	-94.63	62.3	2.0	62.5	60.6	1.90	32.879		
500.0	499.1	495.3	495.0	1.3	1.2	-98.66	63.6	8.1	64.1	61.6	2.50	25.606		
600.0	598.0	595.2	594.3	1.7	1.5	-102.37	65.7	18.6	66.8	63.6	3.21	20.818		
700.0	696.0	695.2	693.3	2.2	1.9	-105.64	68.7	33.3	70.5	66.4	4.04	17.439		
800.0	793.2	795.5	791.6	2.7	2.4	-108.42	72.6	52.3	75.1	70.1	5.02	14.949		
900.0	889.2	895.9	889.2	3.4	2.9	-110.69	77.4	75.5	80.6	74.4	6.17	13.061		
1,000.0	983.9	996.4	985.7	4.2	3.6	-112.47	83.0	102.9	86.9	79.4	7.50	11.595		
1,100.0	1,077.0	1,097.1	1,081.1	5.1	4.3	-113.83	89.4	134.4	94.0	85.0	9.01	10.430		
1,200.0	1,168.6	1,197.9	1,175.1	6.1	5.2	-114.81	96.7	170.1	101.8	91.0	10.73	9.487		
1,300.0	1,258.3	1,298.8	1,267.5	7.2	6.2	-115.46	104.8	209.9	110.2	97.5	12.65	8.709		
1,400.0	1,345.9	1,399.8	1,358.1	8.4	7.3	-115.85	113.8	253.6	119.3	104.5	14.80	8.056		
1,500.0	1,431.4	1,501.0	1,446.8	9.8	8.5	-116.01	123.5	301.3	129.0	111.8	17.19	7.502		
1,600.0	1,514.5	1,602.3	1,533.3	11.3	9.9	-115.99	134.0	352.8	139.2	119.4	19.82	7.026		
1,700.0	1,595.2	1,703.6	1,617.5	12.9	11.4	-115.83	145.3	408.1	150.1	127.4	22.70	6.613		
1,800.0	1,673.2	1,805.1	1,699.2	14.7	13.0	-115.54	157.4	467.0	161.5	135.6	25.83	6.252		
1,900.0	1,748.3	1,906.6	1,778.2	16.6	14.7	-115.17	170.1	529.5	173.4	144.2	29.22	5.934		
2,000.0	1,820.6	2,008.2	1,854.4	18.6	16.6	-114.71	183.6	595.4	185.8	152.9	32.86	5.654		
2,100.0	1,889.7	2,109.9	1,927.6	20.7	18.6	-114.19	197.7	664.6	198.7	162.0	36.77	5.404		
2,120.6	1,903.6	2,130.9	1,942.3	21.1	19.1	-114.08	200.7	679.2	201.5	163.8	37.62	5.356		
2,200.0	1,956.7	2,211.7	1,997.6	22.9	20.8	-113.53	212.5	736.9	211.6	170.6	40.97	5.164		
2,300.0	2,023.6	2,313.5	2,064.3	25.1	23.0	-111.89	227.9	812.3	223.3	177.7	45.58	4.899		
2,400.0	2,090.5	2,414.5	2,127.1	27.4	25.4	-109.38	243.8	889.8	234.2	183.6	50.53	4.634		
2,500.0	2,157.4	2,513.3	2,187.2	29.6	27.7	-106.79	259.4	966.6	245.2	189.6	55.53	4.415		
2,600.0	2,224.3	2,612.1	2,247.4	31.9	30.1	-104.42	275.1	1,043.4	256.6	196.1	60.50	4.242		
2,700.0	2,291.1	2,710.9	2,307.6	34.1	32.5	-102.25	290.8	1,120.1	268.5	203.0	65.42	4.104		
2,800.0	2,358.0	2,809.7	2,367.7	36.4	34.8	-100.27	306.5	1,196.9	280.7	210.4	70.29	3.993		
2,900.0	2,424.9	2,908.5	2,427.9	38.6	37.2	-98.45	322.2	1,273.7	293.2	218.1	75.11	3.903		
3,000.0	2,491.8	3,007.3	2,488.0	40.9	39.6	-96.78	337.9	1,350.5	305.9	226.1	79.89	3.830		
3,100.0	2,558.7	3,106.1	2,548.2	43.2	42.0	-95.24	353.6	1,427.3	319.0	234.3	84.62	3.769		
3,200.0	2,625.6	3,204.9	2,608.4	45.4	44.4	-93.83	369.3	1,504.1	332.2	242.9	89.31	3.720		
3,300.0	2,692.5	3,303.7	2,668.5	47.7	46.8	-92.53	385.0	1,580.8	345.6	251.6	93.95	3.678		
3,400.0	2,759.4	3,402.5	2,728.7	50.0	49.2	-91.32	400.7	1,657.6	359.2	260.6	98.56	3.644		
3,500.0	2,826.3	3,501.3	2,788.8	52.2	51.6	-90.20	416.3	1,734.4	372.9	269.7	103.13	3.616		
3,600.0	2,893.2	3,600.1	2,849.0	54.5	54.0	-89.16	432.0	1,811.2	386.7	279.1	107.67	3.592		
3,700.0	2,960.1	3,698.9	2,909.2	56.8	56.4	-88.19	447.7	1,888.0	400.7	288.5	112.18	3.572		
3,800.0	3,027.0	3,797.7	2,969.3	59.0	58.8	-87.28	463.4	1,964.8	414.8	298.1	116.66	3.555		
3,900.0	3,093.9	3,896.5	3,029.5	61.3	61.2	-86.44	479.1	2,041.5	428.9	307.8	121.12	3.541		
4,000.0	3,160.8	3,995.3	3,089.7	63.6	63.6	-85.65	494.8	2,118.3	443.2	317.6	125.55	3.530		
4,100.0	3,227.6	4,094.1	3,149.8	65.9	66.0	-84.91	510.5	2,195.1	457.5	327.5	129.97	3.520		
4,200.0	3,294.5	4,192.9	3,210.0	68.1	68.4	-84.21	526.2	2,271.9	471.9	337.5	134.36	3.512		
4,300.0	3,361.4	4,291.7	3,270.1	70.4	70.8	-83.56	541.9	2,348.7	486.4	347.6	138.74	3.506		
4,400.0	3,428.3	4,390.5	3,330.3	72.7	73.2	-82.94	557.6	2,425.5	500.9	357.8	143.10	3.500		
4,500.0	3,495.2	4,489.3	3,390.5	75.0	75.6	-82.36	573.2	2,502.3	515.5	368.0	147.44	3.496		
4,600.0	3,562.1	4,588.1	3,450.6	77.2	78.0	-81.81	588.9	2,579.0	530.1	378.3	151.77	3.493		
4,700.0	3,629.0	4,686.9	3,510.8	79.5	80.4	-81.29	604.6	2,655.8	544.8	388.7	156.09	3.490		
4,800.2	3,696.1	4,785.7	3,570.9	81.8	82.8	-80.79	620.3	2,732.6	559.5	399.1	160.40	3.488 SF		
4,850.0	3,730.8	4,832.6	3,601.0	82.8	83.8	-81.09	628.2	2,767.6	567.2	404.6	162.56	3.489		

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

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.0	3,768.3	4,879.7	3,633.7	83.7	84.8	-81.36	636.7	2,800.5	575.5	411.0	164.52	3.498		
4,950.0	3,808.3	4,926.8	3,668.6	84.5	85.6	-81.59	645.9	2,830.7	584.4	418.1	166.30	3.514		
5,000.0	3,850.6	4,974.0	3,705.6	85.1	86.3	-81.74	655.7	2,858.3	593.8	425.9	167.89	3.537		
5,050.0	3,894.8	5,021.2	3,744.6	85.7	86.9	-81.75	666.0	2,882.9	603.6	434.3	169.30	3.565		
5,100.0	3,940.7	5,068.6	3,785.3	86.1	87.5	-81.50	676.8	2,904.6	613.9	443.4	170.52	3.600		
5,150.0	3,988.0	5,116.1	3,827.6	86.5	87.9	-80.77	688.0	2,923.1	624.5	452.9	171.55	3.640		
5,200.0	4,036.4	5,163.8	3,871.2	86.7	88.3	-79.00	699.6	2,938.3	635.3	462.9	172.41	3.685		
5,250.0	4,085.7	5,211.6	3,916.0	86.9	88.6	-74.43	711.6	2,950.2	646.4	473.3	173.09	3.735		
5,300.0	4,135.4	5,259.7	3,961.7	87.0	88.8	-56.88	723.8	2,958.6	657.6	484.0	173.60	3.788		
5,350.0	4,185.4	5,308.1	4,008.2	87.0	88.9	37.51	736.2	2,963.4	668.9	494.9	173.96	3.845		
5,400.0	4,235.2	5,356.7	4,055.2	87.0	89.0	71.24	748.8	2,964.5	680.2	506.0	174.18	3.905		
5,450.0	4,284.7	5,405.7	4,102.4	86.9	89.0	77.98	761.5	2,961.9	691.5	517.2	174.28	3.967		
5,500.0	4,333.4	5,455.1	4,149.7	86.8	89.0	80.39	774.2	2,955.5	702.6	528.3	174.28	4.031		
5,550.0	4,381.1	5,504.9	4,196.8	86.7	88.9	81.42	786.8	2,945.2	713.5	539.3	174.19	4.096		
5,600.0	4,427.5	5,555.2	4,243.3	86.6	88.8	81.85	799.4	2,930.9	724.2	550.2	174.03	4.162		
5,650.0	4,472.3	5,605.9	4,289.0	86.5	88.8	81.98	811.7	2,912.8	734.6	560.8	173.82	4.226		
5,700.0	4,515.3	5,657.1	4,333.6	86.4	88.7	81.93	823.8	2,890.6	744.5	571.0	173.59	4.289		
5,750.0	4,556.1	5,708.9	4,376.7	86.3	88.6	81.80	835.5	2,864.6	754.1	580.7	173.36	4.350		
5,800.0	4,594.5	5,761.2	4,418.1	86.3	88.5	81.61	846.8	2,834.7	763.1	589.9	173.14	4.407		
5,850.0	4,630.3	5,814.0	4,457.3	86.3	88.5	81.40	857.5	2,801.0	771.5	598.6	172.96	4.461		
5,900.0	4,663.2	5,867.4	4,494.1	86.3	88.5	81.18	867.6	2,763.7	779.3	606.5	172.84	4.509		
5,950.0	4,693.1	5,921.3	4,528.0	86.4	88.6	80.96	876.9	2,722.9	786.4	613.7	172.79	4.551		
6,000.0	4,719.8	5,975.6	4,558.7	86.6	88.7	80.76	885.4	2,678.8	792.8	620.0	172.82	4.588		
6,050.0	4,743.0	6,030.5	4,585.9	86.8	88.8	80.57	892.9	2,631.9	798.4	625.5	172.94	4.617		

Company:	Maggie Operating, Inc.	Local Co-ordinate Reference:	Well Bunker 8-5H
Project:	SEC.29-T5N-R68W	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Bunker 8-5H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	US_EDM
Reference Design:	Plan #2 (12-06-18)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	91.1	0.0	91.3					
100.0	100.0	94.0	94.0	0.1	0.1	0.00	91.1	0.0	91.1	90.8	0.27	340.980		
200.0	200.0	194.0	194.0	0.4	0.4	0.00	91.1	0.0	91.1	90.3	0.81	112.507		
300.0	300.0	294.0	294.0	0.7	0.7	-89.82	91.1	0.0	91.0	89.7	1.35	67.487		
306.2	306.2	300.2	300.2	0.7	0.7	-90.00	91.1	0.0	91.0	89.7	1.38	65.801 CC		
400.0	399.7	393.7	393.7	1.0	0.9	-93.92	91.1	0.0	91.3	89.4	1.90	47.924 ES		
500.0	499.1	492.7	492.7	1.3	1.2	-99.40	91.7	1.8	92.9	90.4	2.50	37.175		
600.0	598.0	591.9	591.7	1.7	1.5	-104.56	93.6	7.6	96.6	93.4	3.16	30.563		
700.0	696.0	691.4	690.6	2.2	1.8	-109.15	96.9	17.5	102.3	98.4	3.92	26.090		
800.0	793.2	791.2	789.3	2.7	2.1	-113.03	101.6	31.6	109.9	105.1	4.80	22.891		
900.0	889.2	891.3	887.6	3.4	2.6	-116.18	107.7	49.8	119.1	113.2	5.81	20.488		
1,000.0	983.9	991.6	985.1	4.2	3.1	-118.63	115.1	72.0	129.7	122.8	6.97	18.609		
1,100.0	1,077.0	1,092.2	1,081.7	5.1	3.7	-120.46	123.9	98.4	141.8	133.5	8.30	17.086		
1,200.0	1,168.6	1,193.0	1,177.3	6.1	4.4	-121.76	134.1	128.8	155.0	145.2	9.80	15.814		
1,300.0	1,258.3	1,294.0	1,271.5	7.2	5.3	-122.61	145.6	163.3	169.5	157.9	11.51	14.729		
1,400.0	1,345.9	1,395.1	1,364.1	8.4	6.3	-123.10	158.4	201.7	184.9	171.5	13.41	13.786		
1,500.0	1,431.4	1,496.4	1,455.1	9.8	7.3	-123.29	172.6	244.1	201.4	185.9	15.54	12.958		
1,600.0	1,514.5	1,597.9	1,544.1	11.3	8.6	-123.25	188.0	290.2	218.9	201.0	17.91	12.225		
1,700.0	1,595.2	1,699.5	1,631.0	12.9	9.9	-123.02	204.7	340.2	237.3	216.8	20.51	11.572		
1,800.0	1,673.2	1,801.2	1,715.5	14.7	11.3	-122.64	222.6	393.8	256.6	233.3	23.36	10.987		
1,900.0	1,748.3	1,903.0	1,797.6	16.6	12.9	-122.13	241.7	450.9	276.8	250.4	26.46	10.462		
2,000.0	1,820.6	2,004.9	1,876.9	18.6	14.7	-121.53	261.9	511.6	297.9	268.1	29.82	9.990		
2,100.0	1,889.7	2,106.9	1,953.5	20.7	16.5	-120.85	283.3	575.6	319.8	286.3	33.43	9.564		
2,120.6	1,903.6	2,128.0	1,968.9	21.1	16.9	-120.70	287.8	589.2	324.4	290.1	34.22	9.480		
2,200.0	1,956.7	2,209.2	2,027.0	22.9	18.5	-120.29	305.8	642.9	341.7	304.4	37.31	9.160		
2,300.0	2,023.6	2,311.6	2,097.6	25.1	20.6	-119.20	329.3	713.4	362.5	320.9	41.51	8.732		
2,400.0	2,090.5	2,413.9	2,164.6	27.4	22.8	-117.58	353.8	786.7	382.1	336.0	46.04	8.299		
2,500.0	2,157.4	2,514.6	2,227.2	29.6	25.1	-115.53	378.8	861.4	400.9	350.1	50.82	7.889		
2,600.0	2,224.3	2,611.8	2,286.7	31.9	27.4	-113.56	403.1	934.3	419.9	364.3	55.59	7.553		
2,700.0	2,291.1	2,709.0	2,346.1	34.1	29.6	-111.76	427.4	1,007.2	439.3	379.0	60.36	7.278		
2,800.0	2,358.0	2,806.1	2,405.6	36.4	31.9	-110.12	451.8	1,080.1	459.2	394.0	65.13	7.050		
2,900.0	2,424.9	2,903.3	2,465.1	38.6	34.2	-108.61	476.1	1,153.0	479.3	409.5	69.88	6.860		
3,000.0	2,491.8	3,000.5	2,524.5	40.9	36.5	-107.22	500.5	1,225.9	499.8	425.2	74.61	6.699		
3,100.0	2,558.7	3,097.7	2,584.0	43.2	38.7	-105.94	524.8	1,298.8	520.6	441.2	79.32	6.563		
3,200.0	2,625.6	3,194.9	2,643.5	45.4	41.0	-104.76	549.2	1,371.7	541.5	457.5	84.02	6.445		
3,300.0	2,692.5	3,292.0	2,703.0	47.7	43.3	-103.66	573.5	1,444.6	562.7	474.0	88.69	6.344		
3,400.0	2,759.4	3,389.2	2,762.4	50.0	45.6	-102.64	597.9	1,517.5	584.1	490.7	93.35	6.256		
3,500.0	2,826.3	3,486.4	2,821.9	52.2	47.9	-101.70	622.2	1,590.4	605.6	507.6	98.00	6.180		
3,600.0	2,893.2	3,583.6	2,881.4	54.5	50.2	-100.82	646.6	1,663.3	627.2	524.6	102.62	6.112		
3,700.0	2,960.1	3,680.8	2,940.8	56.8	52.5	-99.99	670.9	1,736.2	649.1	541.8	107.23	6.053		
3,800.0	3,027.0	3,777.9	3,000.3	59.0	54.8	-99.22	695.2	1,809.1	671.0	559.2	111.82	6.000		
3,900.0	3,093.9	3,875.1	3,059.8	61.3	57.1	-98.50	719.6	1,882.0	693.0	576.6	116.40	5.953		
4,000.0	3,160.8	3,972.3	3,119.3	63.6	59.4	-97.83	743.9	1,954.9	715.1	594.2	120.97	5.912		
4,100.0	3,227.6	4,069.5	3,178.7	65.9	61.7	-97.19	768.3	2,027.8	737.4	611.8	125.52	5.874		
4,200.0	3,294.5	4,166.7	3,238.2	68.1	64.1	-96.59	792.6	2,100.7	759.7	629.6	130.07	5.841		
4,300.0	3,361.4	4,263.9	3,297.7	70.4	66.4	-96.03	817.0	2,173.6	782.0	647.4	134.60	5.810 SF		

Offset Design													Offset Site Error:	
Survey Program: 0-MWD													Offset Well Error:	
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	0.01	120.2	0.0	120.4					
100.0	100.0	93.0	93.0	0.1	0.1	0.01	120.2	0.0	120.2	120.0	0.27	452.458		
200.0	200.0	193.0	193.0	0.4	0.4	0.01	120.2	0.0	120.2	119.4	0.81	149.027	CC, ES	
300.0	300.0	291.1	291.1	0.7	0.7	-88.66	120.9	1.7	120.9	119.6	1.34	90.473		
400.0	399.7	389.1	388.9	1.0	0.9	-89.01	123.3	7.2	123.1	121.2	1.90	64.933		
500.0	499.1	487.0	486.3	1.3	1.3	-89.49	127.2	16.5	126.9	124.3	2.54	49.927		
600.0	598.0	584.9	583.1	1.7	1.6	-90.06	132.8	29.7	132.2	128.9	3.30	39.990		
700.0	696.0	682.6	679.0	2.2	2.1	-90.69	139.9	46.6	139.0	134.8	4.22	32.964		
800.0	793.2	780.2	774.0	2.7	2.6	-91.34	148.6	67.3	147.4	142.1	5.30	27.813		
900.0	889.2	877.6	867.7	3.4	3.2	-91.98	158.9	91.6	157.4	150.8	6.57	23.950		
1,000.0	983.9	974.7	960.1	4.2	3.9	-92.59	170.7	119.5	168.8	160.8	8.04	21.002		
1,100.0	1,077.0	1,071.7	1,050.8	5.1	4.8	-93.14	183.9	150.9	181.8	172.1	9.71	18.717		
1,200.0	1,168.6	1,168.4	1,139.8	6.1	5.7	-93.64	198.6	185.7	196.2	184.6	11.60	16.919		
1,300.0	1,258.3	1,264.8	1,226.9	7.2	6.7	-94.07	214.7	223.8	212.0	198.4	13.69	15.484		
1,400.0	1,345.9	1,361.0	1,312.0	8.4	7.8	-94.43	232.2	265.2	229.3	213.3	16.01	14.322		
1,500.0	1,431.4	1,456.8	1,394.8	9.8	9.0	-94.73	250.9	309.6	248.0	229.4	18.55	13.369		
1,600.0	1,514.5	1,552.4	1,475.2	11.3	10.4	-94.95	271.0	357.0	267.9	246.6	21.30	12.577		
1,700.0	1,595.2	1,647.6	1,553.2	12.9	11.8	-95.11	292.2	407.3	289.2	264.9	24.28	11.911		
1,800.0	1,673.2	1,742.5	1,628.6	14.7	13.3	-95.21	314.6	460.4	311.7	284.3	27.48	11.346		
1,900.0	1,748.3	1,837.0	1,701.3	16.6	15.0	-95.25	338.1	516.1	335.5	304.6	30.89	10.861		
2,000.0	1,820.6	1,931.3	1,771.3	18.6	16.7	-95.24	362.7	574.3	360.3	325.8	34.51	10.441		
2,100.0	1,889.7	2,025.2	1,838.3	20.7	18.5	-95.19	388.3	634.9	386.3	348.0	38.34	10.075		
2,120.6	1,903.6	2,044.6	1,851.8	21.1	18.9	-95.17	393.7	647.7	391.8	352.7	39.16	10.005		
2,200.0	1,956.7	2,118.9	1,902.5	22.9	20.4	-95.45	414.8	697.9	413.2	370.9	42.37	9.754		
2,300.0	2,023.6	2,212.4	1,963.6	25.1	22.4	-95.31	442.3	763.0	440.8	394.3	46.49	9.482		
2,400.0	2,090.5	2,305.2	2,021.4	27.4	24.5	-94.71	470.6	829.9	469.0	418.3	50.69	9.252		
2,500.0	2,157.4	2,398.0	2,076.3	29.6	26.7	-93.74	499.7	898.8	497.9	442.9	54.96	9.058		
2,600.0	2,224.3	2,493.2	2,131.7	31.9	29.0	-92.73	529.8	970.2	527.1	467.8	59.30	8.888		
2,700.0	2,291.1	2,588.4	2,187.0	34.1	31.2	-91.82	559.9	1,041.5	556.5	492.9	63.64	8.745		
2,800.0	2,358.0	2,683.7	2,242.4	36.4	33.5	-91.00	590.0	1,112.9	586.0	518.1	67.97	8.622		
2,900.0	2,424.9	2,778.9	2,297.8	38.6	35.8	-90.26	620.2	1,184.3	615.6	543.4	72.29	8.516		
3,000.0	2,491.8	2,874.1	2,353.1	40.9	38.1	-89.58	650.3	1,255.7	645.3	568.7	76.60	8.424		
3,100.0	2,558.7	2,969.3	2,408.5	43.2	40.4	-88.97	680.4	1,327.0	675.1	594.2	80.91	8.344		
3,200.0	2,625.6	3,064.6	2,463.9	45.4	42.7	-88.41	710.6	1,398.4	704.9	619.7	85.21	8.273		
3,300.0	2,692.5	3,159.8	2,519.2	47.7	45.0	-87.89	740.7	1,469.8	734.8	645.3	89.51	8.210		
3,400.0	2,759.4	3,255.0	2,574.6	50.0	47.3	-87.41	770.8	1,541.2	764.8	671.0	93.80	8.154		
3,500.0	2,826.3	3,350.2	2,630.0	52.2	49.6	-86.97	801.0	1,612.5	794.8	696.7	98.08	8.103	SF	

Company: Magpie Operating, Inc.
Project: SEC.29-T5N-R68W
Reference Site: Bunker 8 Well Pad Sec.29-T5N-R68W
Site Error: 0.0 ft
Reference Well: Bunker 8-5H
Well Error: 0.0 ft
Reference Wellbore Wellbore #1
Reference Design: Plan #2 (12-06-18)

Local Co-ordinate Reference: Well Bunker 8-5H
TVD Reference: WELL @ 5005.0ft (Original Well Elev)
MD Reference: WELL @ 5005.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.45 sigma
Database: US_EDM
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 5005.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

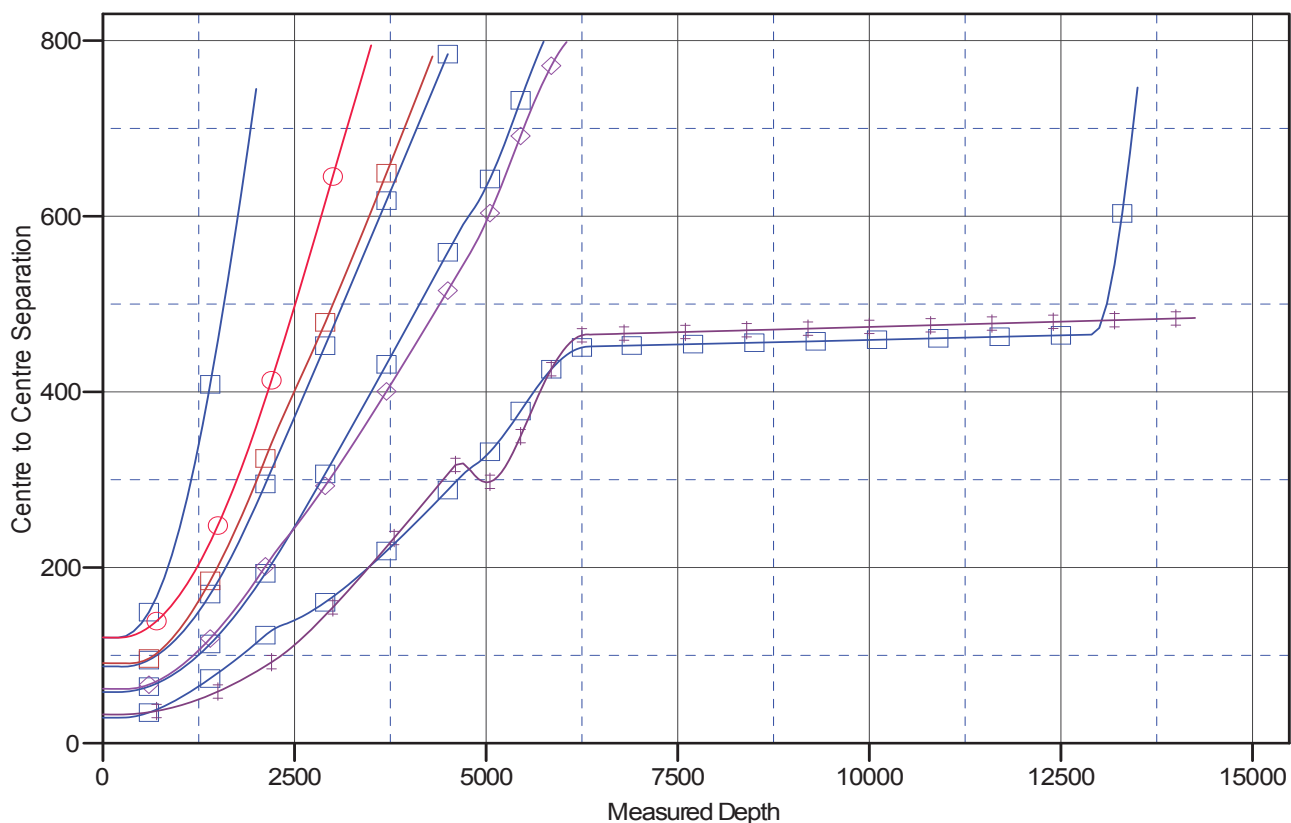
Central Meridian is -105.500000

Coordinates are relative to: Bunker 8-5H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°

Ladder Plot



LEGEND

- Bunker 8-4H, Wellbore #1, Plan #2 (12-06-18) V0
 ■ Bunker 8-1H, Wellbore #1, Plan #2 (12-06-18) V0
 ○ Bunker 8-9H, Wellbore #1, Plan #2 (12-16-18) V0
- Bunker 8-2H, Wellbore #1, Plan #2 (12-06-18) V0
 ■ Bunker 8-3H, Wellbore #1, Plan #2 (12-06-18) V0
 ◆ Bunker 8-7H, Wellbore #1, Plan #2 (12-06-18) V0
- ◆ Bunker 8-6H, Wellbore #1, Plan #2 (12-06-18) V0
 ■ Bunker 8-8H, Wellbore #1, Plan #2 (12-06-18) V0

Reference Depths are relative to WELL @ 5005.0ft (Original Well Elev)	Coordinates are relative to: Bunker 8-5H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000	Grid Convergence at Surface is: 0.30°

