

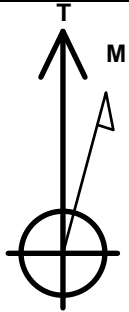
Magpie Operating, Inc.

Well Name: **Bunker 8-7H**

Surface Location: Bunker 8 Well Pad Sec.29-T5N-R68W
 North American Datum 1983 , US State Plane 1983, Colorado Northern Zone
 Ground Elevation: 4985.0
 +N/-S/E/-W Northing Easting Latittude Longitude Slot
 0.0 0.0377877.24 3130397.65 40.369730 -105.032010
 Original Well Elev WELL @ 5001.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|--------------------------------|--------|-------|---------|-------|
| SHL 2140'FSL, 2275'FWL, SEC.29 | 1.0 | 0.0 | 0.0 | Point |
| BHL 2256'FNL, 675'FWL, SEC.30 | 4550.0 | 875.3 | -6893.5 | Point |
| LPL 2264'FNL, 639'FEL, SEC.29 | 4660.0 | 852.6 | 2321.0 | Point |



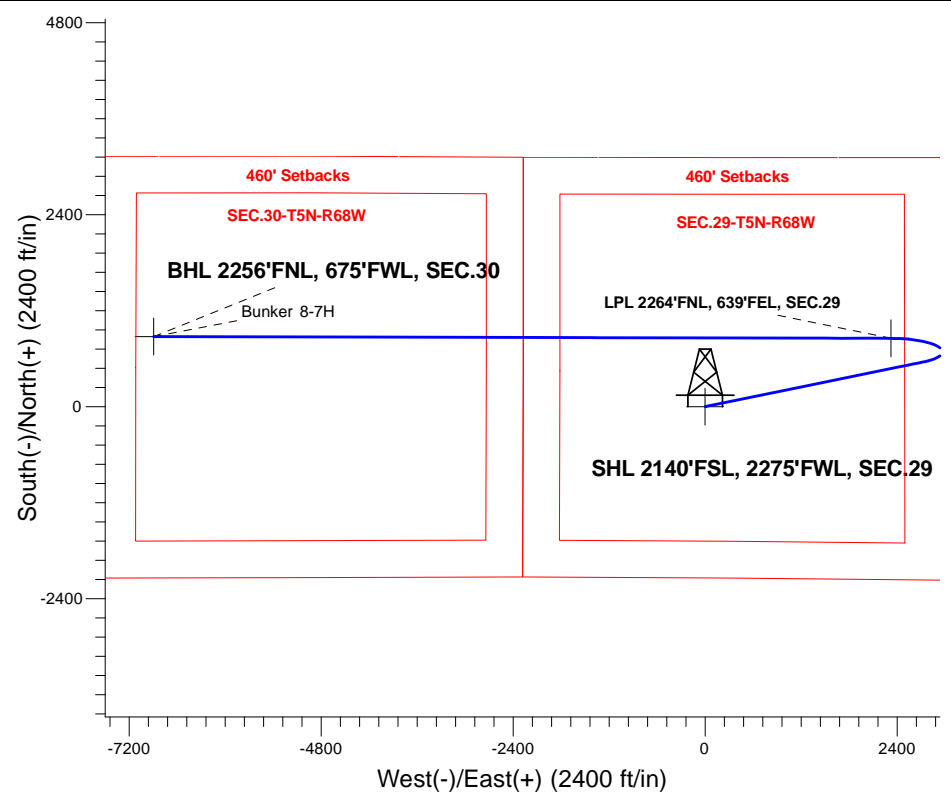
Azimuths to True North
 Magnetic North: 8.37°

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

Bunker 8 Well Pad Sec.29-T5N-R68W
 Bunker 8-7H
 Plan #2 (12-06-18)
 10:16, December 07 2018

ANNOTATIONS

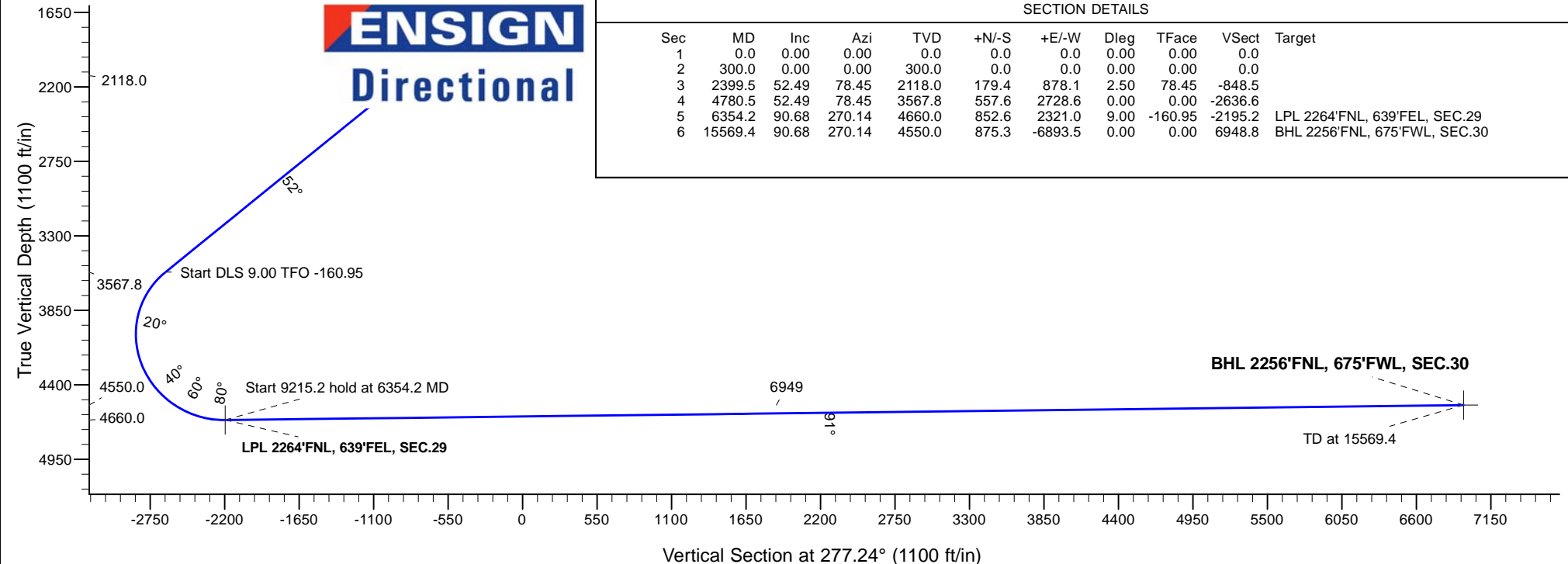
| TVD | MD | Annotation |
|--------|---------|--------------------------------|
| 300.0 | 300.0 | KOP - Start Build 2.50 |
| 2118.0 | 2399.5 | Start 2381.0 hold at 2399.5 MD |
| 3567.8 | 4780.5 | Start DLS 9.00 TFO -160.95 |
| 4660.0 | 6354.2 | Start 9215.2 hold at 6354.2 MD |
| 4550.0 | 15569.4 | TD at 15569.4 |



ENSIGN
 Directional

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 | 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 2399.5 | 52.49 | 78.45 | 2118.0 | 179.4 | 878.1 | 2.50 | 78.45 | -848.5 | |
| 4 | 4780.5 | 52.49 | 78.45 | 3567.8 | 557.6 | 2728.6 | 0.00 | 0.00 | -2636.6 | |
| 5 | 6354.2 | 90.68 | 270.14 | 4660.0 | 852.6 | 2321.0 | 9.00 | -160.95 | -2195.2 | LPL 2264'FNL, 639'FEL, SEC.29 |
| 6 | 15569.4 | 90.68 | 270.14 | 4550.0 | 875.3 | -6893.5 | 0.00 | 0.00 | 6948.8 | BHL 2256'FNL, 675'FWL, SEC.30 |





Magpie Operating, Inc.

SEC.29-T5N-R68W

Bunker 8 Well Pad Sec.29-T5N-R68W

Bunker 8-7H

Wellbore #1

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

Standard Planning Report

07 December, 2018

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Company: | Magpie Operating, Inc. | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Project: | SEC.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | North Reference: | True |
| Well: | Bunker 8-7H | 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 8-7H | | | | | |
|----------------------|-------------|----------|---------------------|-------------------|---------------|-------------|
| Well Position | +N/-S | 182.1 ft | Northing: | 1,377,877.24 usft | Latitude: | 40.369730 |
| | +E/-W | 0.0 ft | Easting: | 3,130,397.65 usft | Longitude: | -105.032010 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | 0.0 ft | Ground Level: | 4,985.0 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 | 277.24 |

| 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 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,399.5 | 52.49 | 78.45 | 2,118.0 | 179.4 | 878.1 | 2.50 | 2.50 | 0.00 | 78.45 | |
| 4,780.5 | 52.49 | 78.45 | 3,567.8 | 557.6 | 2,728.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,354.2 | 90.68 | 270.14 | 4,660.0 | 852.6 | 2,321.0 | 9.00 | 2.43 | -10.70 | -160.95 | LPL 2264'FNL, 639'F |
| 15,569.4 | 90.68 | 270.14 | 4,550.0 | 875.3 | -6,893.5 | 0.00 | 0.00 | 0.00 | 0.00 | BHL 2256'FNL, 675'F |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Company: | Maggie Operating, Inc. | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Project: | SEC.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | North Reference: | True |
| Well: | Bunker 8-7H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #2 (12-06-18) | | |

Planned Survey

| Measured | | | Vertical | | | Vertical | Dogleg | Build | Turn |
|--------------------------------|-------------|---------|----------|-------|---------|----------|-------------|-------------|-------------|
| Depth | Inclination | Azimuth | Depth | +N/-S | +E/-W | Section | Rate | Rate | Rate |
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100usft) | (°/100usft) | (°/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 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| KOP - Start Build 2.50 | | | | | | | | | |
| 400.0 | 2.50 | 78.45 | 400.0 | 0.4 | 2.1 | -2.1 | 2.50 | 2.50 | 0.00 |
| 500.0 | 5.00 | 78.45 | 499.7 | 1.7 | 8.5 | -8.3 | 2.50 | 2.50 | 0.00 |
| 600.0 | 7.50 | 78.45 | 599.1 | 3.9 | 19.2 | -18.6 | 2.50 | 2.50 | 0.00 |
| 700.0 | 10.00 | 78.45 | 698.0 | 7.0 | 34.1 | -33.0 | 2.50 | 2.50 | 0.00 |
| 800.0 | 12.50 | 78.45 | 796.0 | 10.9 | 53.2 | -51.4 | 2.50 | 2.50 | 0.00 |
| 900.0 | 15.00 | 78.45 | 893.2 | 15.6 | 76.5 | -73.9 | 2.50 | 2.50 | 0.00 |
| 1,000.0 | 17.50 | 78.45 | 989.2 | 21.2 | 103.9 | -100.4 | 2.50 | 2.50 | 0.00 |
| 1,100.0 | 20.00 | 78.45 | 1,083.9 | 27.7 | 135.4 | -130.9 | 2.50 | 2.50 | 0.00 |
| 1,200.0 | 22.50 | 78.45 | 1,177.0 | 34.9 | 170.9 | -165.2 | 2.50 | 2.50 | 0.00 |
| 1,300.0 | 25.00 | 78.45 | 1,268.6 | 43.0 | 210.4 | -203.3 | 2.50 | 2.50 | 0.00 |
| 1,400.0 | 27.50 | 78.45 | 1,358.3 | 51.8 | 253.7 | -245.2 | 2.50 | 2.50 | 0.00 |
| 1,500.0 | 30.00 | 78.45 | 1,445.9 | 61.5 | 300.8 | -290.7 | 2.50 | 2.50 | 0.00 |
| 1,600.0 | 32.50 | 78.45 | 1,531.4 | 71.9 | 351.7 | -339.8 | 2.50 | 2.50 | 0.00 |
| 1,700.0 | 35.00 | 78.45 | 1,614.5 | 83.0 | 406.1 | -392.4 | 2.50 | 2.50 | 0.00 |
| 1,800.0 | 37.50 | 78.45 | 1,695.2 | 94.8 | 464.0 | -448.4 | 2.50 | 2.50 | 0.00 |
| 1,900.0 | 40.00 | 78.45 | 1,773.2 | 107.3 | 525.3 | -507.6 | 2.50 | 2.50 | 0.00 |
| 2,000.0 | 42.50 | 78.45 | 1,848.3 | 120.5 | 589.9 | -570.0 | 2.50 | 2.50 | 0.00 |
| 2,100.0 | 45.00 | 78.45 | 1,920.6 | 134.4 | 657.7 | -635.5 | 2.50 | 2.50 | 0.00 |
| 2,200.0 | 47.50 | 78.45 | 1,989.7 | 148.8 | 728.4 | -703.9 | 2.50 | 2.50 | 0.00 |
| 2,300.0 | 50.00 | 78.45 | 2,055.6 | 163.9 | 802.1 | -775.1 | 2.50 | 2.50 | 0.00 |
| 2,399.5 | 52.49 | 78.45 | 2,118.0 | 179.4 | 878.1 | -848.5 | 2.50 | 2.50 | 0.00 |
| Start 2381.0 hold at 2399.5 MD | | | | | | | | | |
| 2,400.0 | 52.49 | 78.45 | 2,118.2 | 179.5 | 878.5 | -848.9 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 52.49 | 78.45 | 2,179.1 | 195.4 | 956.2 | -924.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 52.49 | 78.45 | 2,240.0 | 211.3 | 1,033.9 | -999.1 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 52.49 | 78.45 | 2,300.9 | 227.2 | 1,111.6 | -1,074.2 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 52.49 | 78.45 | 2,361.8 | 243.0 | 1,189.4 | -1,149.3 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 52.49 | 78.45 | 2,422.7 | 258.9 | 1,267.1 | -1,224.4 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 52.49 | 78.45 | 2,483.6 | 274.8 | 1,344.8 | -1,299.5 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 52.49 | 78.45 | 2,544.5 | 290.7 | 1,422.5 | -1,374.6 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 52.49 | 78.45 | 2,605.4 | 306.6 | 1,500.2 | -1,449.7 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 52.49 | 78.45 | 2,666.3 | 322.4 | 1,578.0 | -1,524.8 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 52.49 | 78.45 | 2,727.2 | 338.3 | 1,655.7 | -1,599.9 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 52.49 | 78.45 | 2,788.0 | 354.2 | 1,733.4 | -1,675.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 52.49 | 78.45 | 2,848.9 | 370.1 | 1,811.1 | -1,750.1 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 52.49 | 78.45 | 2,909.8 | 386.0 | 1,888.8 | -1,825.2 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 52.49 | 78.45 | 2,970.7 | 401.8 | 1,966.5 | -1,900.3 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 52.49 | 78.45 | 3,031.6 | 417.7 | 2,044.3 | -1,975.4 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 52.49 | 78.45 | 3,092.5 | 433.6 | 2,122.0 | -2,050.5 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 52.49 | 78.45 | 3,153.4 | 449.5 | 2,199.7 | -2,125.5 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 52.49 | 78.45 | 3,214.3 | 465.4 | 2,277.4 | -2,200.6 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 52.49 | 78.45 | 3,275.2 | 481.2 | 2,355.1 | -2,275.7 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 52.49 | 78.45 | 3,336.1 | 497.1 | 2,432.8 | -2,350.8 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 52.49 | 78.45 | 3,397.0 | 513.0 | 2,510.6 | -2,425.9 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 52.49 | 78.45 | 3,457.9 | 528.9 | 2,588.3 | -2,501.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 52.49 | 78.45 | 3,518.8 | 544.8 | 2,666.0 | -2,576.1 | 0.00 | 0.00 | 0.00 |
| 4,780.5 | 52.49 | 78.45 | 3,567.8 | 557.6 | 2,728.6 | -2,636.6 | 0.00 | 0.00 | 0.00 |
| Start DLS 9.00 TFO -160.95 | | | | | | | | | |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Company: | Magpie Operating, Inc. | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Project: | SEC.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | North Reference: | True |
| Well: | Bunker 8-7H | 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) | |
| 4,800.0 | 50.84 | 77.71 | 3,579.9 | 560.7 | 2,743.5 | -2,651.0 | 9.00 | -8.50 | -3.79 | |
| 4,900.0 | 42.43 | 73.27 | 3,648.5 | 578.7 | 2,813.8 | -2,718.5 | 9.00 | -8.41 | -4.44 | |
| 5,000.0 | 34.26 | 67.15 | 3,726.9 | 599.4 | 2,872.2 | -2,773.8 | 9.00 | -8.17 | -6.12 | |
| 5,100.0 | 26.55 | 57.89 | 3,813.1 | 622.2 | 2,917.2 | -2,815.6 | 9.00 | -7.71 | -9.26 | |
| 5,200.0 | 19.86 | 42.43 | 3,905.0 | 646.7 | 2,947.6 | -2,842.7 | 9.00 | -6.69 | -15.46 | |
| 5,300.0 | 15.56 | 16.05 | 4,000.4 | 672.2 | 2,962.8 | -2,854.6 | 9.00 | -4.30 | -26.38 | |
| 5,400.0 | 15.75 | 342.24 | 4,096.9 | 698.1 | 2,962.4 | -2,850.9 | 9.00 | 0.19 | -33.80 | |
| 5,500.0 | 20.30 | 316.76 | 4,192.1 | 723.7 | 2,946.4 | -2,831.7 | 9.00 | 4.55 | -25.48 | |
| 5,600.0 | 27.10 | 301.91 | 4,283.7 | 748.4 | 2,915.1 | -2,797.6 | 9.00 | 6.80 | -14.85 | |
| 5,700.0 | 34.85 | 292.96 | 4,369.5 | 771.6 | 2,869.3 | -2,749.3 | 9.00 | 7.75 | -8.95 | |
| 5,800.0 | 43.04 | 287.00 | 4,447.2 | 792.8 | 2,810.3 | -2,688.0 | 9.00 | 8.19 | -5.96 | |
| 5,900.0 | 51.46 | 282.65 | 4,515.0 | 811.4 | 2,739.3 | -2,615.3 | 9.00 | 8.42 | -4.35 | |
| 6,000.0 | 60.01 | 279.22 | 4,571.3 | 826.9 | 2,658.3 | -2,532.9 | 9.00 | 8.54 | -3.43 | |
| 6,100.0 | 68.63 | 276.35 | 4,614.6 | 839.0 | 2,569.1 | -2,442.9 | 9.00 | 8.62 | -2.88 | |
| 6,200.0 | 77.29 | 273.79 | 4,643.9 | 847.4 | 2,473.9 | -2,347.5 | 9.00 | 8.66 | -2.56 | |
| 6,300.0 | 85.97 | 271.41 | 4,658.4 | 851.9 | 2,375.2 | -2,249.0 | 9.00 | 8.69 | -2.39 | |
| 6,354.2 | 90.68 | 270.14 | 4,660.0 | 852.6 | 2,321.0 | -2,195.2 | 9.00 | 8.69 | -2.33 | |
| Start 9215.2 hold at 6354.2 MD | | | | | | | | | | |
| 6,400.0 | 90.68 | 270.14 | 4,659.5 | 852.7 | 2,275.2 | -2,149.7 | 0.00 | 0.00 | 0.00 | |
| 6,500.0 | 90.68 | 270.14 | 4,658.3 | 853.0 | 2,175.2 | -2,050.5 | 0.00 | 0.00 | 0.00 | |
| 6,600.0 | 90.68 | 270.14 | 4,657.1 | 853.2 | 2,075.2 | -1,951.2 | 0.00 | 0.00 | 0.00 | |
| 6,700.0 | 90.68 | 270.14 | 4,655.9 | 853.5 | 1,975.3 | -1,852.0 | 0.00 | 0.00 | 0.00 | |
| 6,800.0 | 90.68 | 270.14 | 4,654.7 | 853.7 | 1,875.3 | -1,752.8 | 0.00 | 0.00 | 0.00 | |
| 6,900.0 | 90.68 | 270.14 | 4,653.5 | 854.0 | 1,775.3 | -1,653.6 | 0.00 | 0.00 | 0.00 | |
| 7,000.0 | 90.68 | 270.14 | 4,652.3 | 854.2 | 1,675.3 | -1,554.3 | 0.00 | 0.00 | 0.00 | |
| 7,100.0 | 90.68 | 270.14 | 4,651.1 | 854.4 | 1,575.3 | -1,455.1 | 0.00 | 0.00 | 0.00 | |
| 7,200.0 | 90.68 | 270.14 | 4,649.9 | 854.7 | 1,475.3 | -1,355.9 | 0.00 | 0.00 | 0.00 | |
| 7,300.0 | 90.68 | 270.14 | 4,648.7 | 854.9 | 1,375.3 | -1,256.6 | 0.00 | 0.00 | 0.00 | |
| 7,400.0 | 90.68 | 270.14 | 4,647.5 | 855.2 | 1,275.3 | -1,157.4 | 0.00 | 0.00 | 0.00 | |
| 7,500.0 | 90.68 | 270.14 | 4,646.3 | 855.4 | 1,175.3 | -1,058.2 | 0.00 | 0.00 | 0.00 | |
| 7,600.0 | 90.68 | 270.14 | 4,645.1 | 855.7 | 1,075.3 | -959.0 | 0.00 | 0.00 | 0.00 | |
| 7,700.0 | 90.68 | 270.14 | 4,643.9 | 855.9 | 975.3 | -859.7 | 0.00 | 0.00 | 0.00 | |
| 7,800.0 | 90.68 | 270.14 | 4,642.7 | 856.2 | 875.3 | -760.5 | 0.00 | 0.00 | 0.00 | |
| 7,900.0 | 90.68 | 270.14 | 4,641.5 | 856.4 | 775.3 | -661.3 | 0.00 | 0.00 | 0.00 | |
| 8,000.0 | 90.68 | 270.14 | 4,640.4 | 856.7 | 675.3 | -562.1 | 0.00 | 0.00 | 0.00 | |
| 8,100.0 | 90.68 | 270.14 | 4,639.2 | 856.9 | 575.4 | -462.8 | 0.00 | 0.00 | 0.00 | |
| 8,200.0 | 90.68 | 270.14 | 4,638.0 | 857.2 | 475.4 | -363.6 | 0.00 | 0.00 | 0.00 | |
| 8,300.0 | 90.68 | 270.14 | 4,636.8 | 857.4 | 375.4 | -264.4 | 0.00 | 0.00 | 0.00 | |
| 8,400.0 | 90.68 | 270.14 | 4,635.6 | 857.6 | 275.4 | -165.2 | 0.00 | 0.00 | 0.00 | |
| 8,500.0 | 90.68 | 270.14 | 4,634.4 | 857.9 | 175.4 | -65.9 | 0.00 | 0.00 | 0.00 | |
| 8,600.0 | 90.68 | 270.14 | 4,633.2 | 858.1 | 75.4 | 33.3 | 0.00 | 0.00 | 0.00 | |
| 8,700.0 | 90.68 | 270.14 | 4,632.0 | 858.4 | -24.6 | 132.5 | 0.00 | 0.00 | 0.00 | |
| 8,800.0 | 90.68 | 270.14 | 4,630.8 | 858.6 | -124.6 | 231.8 | 0.00 | 0.00 | 0.00 | |
| 8,900.0 | 90.68 | 270.14 | 4,629.6 | 858.9 | -224.6 | 331.0 | 0.00 | 0.00 | 0.00 | |
| 9,000.0 | 90.68 | 270.14 | 4,628.4 | 859.1 | -324.6 | 430.2 | 0.00 | 0.00 | 0.00 | |
| 9,100.0 | 90.68 | 270.14 | 4,627.2 | 859.4 | -424.6 | 529.4 | 0.00 | 0.00 | 0.00 | |
| 9,200.0 | 90.68 | 270.14 | 4,626.0 | 859.6 | -524.6 | 628.7 | 0.00 | 0.00 | 0.00 | |
| 9,300.0 | 90.68 | 270.14 | 4,624.8 | 859.9 | -624.6 | 727.9 | 0.00 | 0.00 | 0.00 | |
| 9,400.0 | 90.68 | 270.14 | 4,623.6 | 860.1 | -724.5 | 827.1 | 0.00 | 0.00 | 0.00 | |
| 9,500.0 | 90.68 | 270.14 | 4,622.4 | 860.4 | -824.5 | 926.3 | 0.00 | 0.00 | 0.00 | |
| 9,600.0 | 90.68 | 270.14 | 4,621.3 | 860.6 | -924.5 | 1,025.6 | 0.00 | 0.00 | 0.00 | |
| 9,700.0 | 90.68 | 270.14 | 4,620.1 | 860.9 | -1,024.5 | 1,124.8 | 0.00 | 0.00 | 0.00 | |
| 9,800.0 | 90.68 | 270.14 | 4,618.9 | 861.1 | -1,124.5 | 1,224.0 | 0.00 | 0.00 | 0.00 | |
| 9,900.0 | 90.68 | 270.14 | 4,617.7 | 861.3 | -1,224.5 | 1,323.3 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Company: | Magpie Operating, Inc. | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Project: | SEC.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | North Reference: | True |
| Well: | Bunker 8-7H | 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 | 90.68 | 270.14 | 4,616.5 | 861.6 | -1,324.5 | 1,422.5 | 0.00 | 0.00 | 0.00 | |
| 10,100.0 | 90.68 | 270.14 | 4,615.3 | 861.8 | -1,424.5 | 1,521.7 | 0.00 | 0.00 | 0.00 | |
| 10,200.0 | 90.68 | 270.14 | 4,614.1 | 862.1 | -1,524.5 | 1,620.9 | 0.00 | 0.00 | 0.00 | |
| 10,300.0 | 90.68 | 270.14 | 4,612.9 | 862.3 | -1,624.5 | 1,720.2 | 0.00 | 0.00 | 0.00 | |
| 10,400.0 | 90.68 | 270.14 | 4,611.7 | 862.6 | -1,724.5 | 1,819.4 | 0.00 | 0.00 | 0.00 | |
| 10,500.0 | 90.68 | 270.14 | 4,610.5 | 862.8 | -1,824.5 | 1,918.6 | 0.00 | 0.00 | 0.00 | |
| 10,600.0 | 90.68 | 270.14 | 4,609.3 | 863.1 | -1,924.5 | 2,017.8 | 0.00 | 0.00 | 0.00 | |
| 10,700.0 | 90.68 | 270.14 | 4,608.1 | 863.3 | -2,024.4 | 2,117.1 | 0.00 | 0.00 | 0.00 | |
| 10,800.0 | 90.68 | 270.14 | 4,606.9 | 863.6 | -2,124.4 | 2,216.3 | 0.00 | 0.00 | 0.00 | |
| 10,900.0 | 90.68 | 270.14 | 4,605.7 | 863.8 | -2,224.4 | 2,315.5 | 0.00 | 0.00 | 0.00 | |
| 11,000.0 | 90.68 | 270.14 | 4,604.5 | 864.1 | -2,324.4 | 2,414.8 | 0.00 | 0.00 | 0.00 | |
| 11,100.0 | 90.68 | 270.14 | 4,603.4 | 864.3 | -2,424.4 | 2,514.0 | 0.00 | 0.00 | 0.00 | |
| 11,200.0 | 90.68 | 270.14 | 4,602.2 | 864.5 | -2,524.4 | 2,613.2 | 0.00 | 0.00 | 0.00 | |
| 11,300.0 | 90.68 | 270.14 | 4,601.0 | 864.8 | -2,624.4 | 2,712.4 | 0.00 | 0.00 | 0.00 | |
| 11,400.0 | 90.68 | 270.14 | 4,599.8 | 865.0 | -2,724.4 | 2,811.7 | 0.00 | 0.00 | 0.00 | |
| 11,500.0 | 90.68 | 270.14 | 4,598.6 | 865.3 | -2,824.4 | 2,910.9 | 0.00 | 0.00 | 0.00 | |
| 11,600.0 | 90.68 | 270.14 | 4,597.4 | 865.5 | -2,924.4 | 3,010.1 | 0.00 | 0.00 | 0.00 | |
| 11,700.0 | 90.68 | 270.14 | 4,596.2 | 865.8 | -3,024.4 | 3,109.3 | 0.00 | 0.00 | 0.00 | |
| 11,800.0 | 90.68 | 270.14 | 4,595.0 | 866.0 | -3,124.4 | 3,208.6 | 0.00 | 0.00 | 0.00 | |
| 11,900.0 | 90.68 | 270.14 | 4,593.8 | 866.3 | -3,224.4 | 3,307.8 | 0.00 | 0.00 | 0.00 | |
| 12,000.0 | 90.68 | 270.14 | 4,592.6 | 866.5 | -3,324.4 | 3,407.0 | 0.00 | 0.00 | 0.00 | |
| 12,100.0 | 90.68 | 270.14 | 4,591.4 | 866.8 | -3,424.3 | 3,506.3 | 0.00 | 0.00 | 0.00 | |
| 12,200.0 | 90.68 | 270.14 | 4,590.2 | 867.0 | -3,524.3 | 3,605.5 | 0.00 | 0.00 | 0.00 | |
| 12,300.0 | 90.68 | 270.14 | 4,589.0 | 867.3 | -3,624.3 | 3,704.7 | 0.00 | 0.00 | 0.00 | |
| 12,400.0 | 90.68 | 270.14 | 4,587.8 | 867.5 | -3,724.3 | 3,803.9 | 0.00 | 0.00 | 0.00 | |
| 12,500.0 | 90.68 | 270.14 | 4,586.6 | 867.8 | -3,824.3 | 3,903.2 | 0.00 | 0.00 | 0.00 | |
| 12,600.0 | 90.68 | 270.14 | 4,585.4 | 868.0 | -3,924.3 | 4,002.4 | 0.00 | 0.00 | 0.00 | |
| 12,700.0 | 90.68 | 270.14 | 4,584.3 | 868.2 | -4,024.3 | 4,101.6 | 0.00 | 0.00 | 0.00 | |
| 12,800.0 | 90.68 | 270.14 | 4,583.1 | 868.5 | -4,124.3 | 4,200.8 | 0.00 | 0.00 | 0.00 | |
| 12,900.0 | 90.68 | 270.14 | 4,581.9 | 868.7 | -4,224.3 | 4,300.1 | 0.00 | 0.00 | 0.00 | |
| 13,000.0 | 90.68 | 270.14 | 4,580.7 | 869.0 | -4,324.3 | 4,399.3 | 0.00 | 0.00 | 0.00 | |
| 13,100.0 | 90.68 | 270.14 | 4,579.5 | 869.2 | -4,424.3 | 4,498.5 | 0.00 | 0.00 | 0.00 | |
| 13,200.0 | 90.68 | 270.14 | 4,578.3 | 869.5 | -4,524.3 | 4,597.8 | 0.00 | 0.00 | 0.00 | |
| 13,300.0 | 90.68 | 270.14 | 4,577.1 | 869.7 | -4,624.3 | 4,697.0 | 0.00 | 0.00 | 0.00 | |
| 13,400.0 | 90.68 | 270.14 | 4,575.9 | 870.0 | -4,724.2 | 4,796.2 | 0.00 | 0.00 | 0.00 | |
| 13,500.0 | 90.68 | 270.14 | 4,574.7 | 870.2 | -4,824.2 | 4,895.4 | 0.00 | 0.00 | 0.00 | |
| 13,600.0 | 90.68 | 270.14 | 4,573.5 | 870.5 | -4,924.2 | 4,994.7 | 0.00 | 0.00 | 0.00 | |
| 13,700.0 | 90.68 | 270.14 | 4,572.3 | 870.7 | -5,024.2 | 5,093.9 | 0.00 | 0.00 | 0.00 | |
| 13,800.0 | 90.68 | 270.14 | 4,571.1 | 871.0 | -5,124.2 | 5,193.1 | 0.00 | 0.00 | 0.00 | |
| 13,900.0 | 90.68 | 270.14 | 4,569.9 | 871.2 | -5,224.2 | 5,292.3 | 0.00 | 0.00 | 0.00 | |
| 14,000.0 | 90.68 | 270.14 | 4,568.7 | 871.4 | -5,324.2 | 5,391.6 | 0.00 | 0.00 | 0.00 | |
| 14,100.0 | 90.68 | 270.14 | 4,567.5 | 871.7 | -5,424.2 | 5,490.8 | 0.00 | 0.00 | 0.00 | |
| 14,200.0 | 90.68 | 270.14 | 4,566.3 | 871.9 | -5,524.2 | 5,590.0 | 0.00 | 0.00 | 0.00 | |
| 14,300.0 | 90.68 | 270.14 | 4,565.2 | 872.2 | -5,624.2 | 5,689.2 | 0.00 | 0.00 | 0.00 | |
| 14,400.0 | 90.68 | 270.14 | 4,564.0 | 872.4 | -5,724.2 | 5,788.5 | 0.00 | 0.00 | 0.00 | |
| 14,500.0 | 90.68 | 270.14 | 4,562.8 | 872.7 | -5,824.2 | 5,887.7 | 0.00 | 0.00 | 0.00 | |
| 14,600.0 | 90.68 | 270.14 | 4,561.6 | 872.9 | -5,924.2 | 5,986.9 | 0.00 | 0.00 | 0.00 | |
| 14,700.0 | 90.68 | 270.14 | 4,560.4 | 873.2 | -6,024.2 | 6,086.2 | 0.00 | 0.00 | 0.00 | |
| 14,800.0 | 90.68 | 270.14 | 4,559.2 | 873.4 | -6,124.1 | 6,185.4 | 0.00 | 0.00 | 0.00 | |
| 14,900.0 | 90.68 | 270.14 | 4,558.0 | 873.7 | -6,224.1 | 6,284.6 | 0.00 | 0.00 | 0.00 | |
| 15,000.0 | 90.68 | 270.14 | 4,556.8 | 873.9 | -6,324.1 | 6,383.8 | 0.00 | 0.00 | 0.00 | |
| 15,100.0 | 90.68 | 270.14 | 4,555.6 | 874.2 | -6,424.1 | 6,483.1 | 0.00 | 0.00 | 0.00 | |
| 15,200.0 | 90.68 | 270.14 | 4,554.4 | 874.4 | -6,524.1 | 6,582.3 | 0.00 | 0.00 | 0.00 | |
| 15,300.0 | 90.68 | 270.14 | 4,553.2 | 874.7 | -6,624.1 | 6,681.5 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | US_EDM | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Company: | Magpie Operating, Inc. | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Project: | SEC.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | North Reference: | True |
| Well: | Bunker 8-7H | 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) |
| 15,400.0 | 90.68 | 270.14 | 4,552.0 | 874.9 | -6,724.1 | 6,780.7 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.68 | 270.14 | 4,550.8 | 875.1 | -6,824.1 | 6,880.0 | 0.00 | 0.00 | 0.00 |
| 15,569.4 | 90.68 | 270.14 | 4,550.0 | 875.3 | -6,893.5 | 6,948.8 | 0.00 | 0.00 | 0.00 |
| TD at 15569.4 | | | | | | | | | |

| Design Targets | | | | | | | | | |
|---------------------------|---------------|--------------|----------|------------|------------|-----------------|----------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| SHL 2140'FSL, 2275'FW | 0.00 | 0.00 | 1.0 | 0.0 | 0.0 | 1,377,877.26 | 3,130,397.65 | 40.369730 | -105.032010 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| BHL 2256'FNL, 675'FWL | 0.00 | 0.00 | 4,550.0 | 875.3 | -6,893.5 | 1,378,716.13 | 3,123,499.95 | 40.372130 | -105.056750 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| LPL 2264'FNL, 639'FEL, | 0.00 | 0.00 | 4,660.0 | 852.6 | 2,321.0 | 1,378,742.05 | 3,132,714.07 | 40.372070 | -105.023680 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Plan Annotations | | | | |
|---------------------|---------------------|-------------------|------------|--------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 300.0 | 300.0 | 0.0 | 0.0 | KOP - Start Build 2.50 |
| 2,399.5 | 2,118.0 | 179.4 | 878.1 | Start 2381.0 hold at 2399.5 MD |
| 4,780.5 | 3,567.8 | 557.6 | 2,728.6 | Start DLS 9.00 TFO -160.95 |
| 6,354.2 | 4,660.0 | 852.6 | 2,321.0 | Start 9215.2 hold at 6354.2 MD |
| 15,569.4 | 4,550.0 | 875.3 | -6,893.5 | TD at 15569.4 |



Magpie Operating, Inc.

SEC.29-T5N-R68W

Bunker 8 Well Pad Sec.29-T5N-R68W

Bunker 8-7H

Wellbore #1

Plan #2 (12-06-18)

Anticollision Report

07 December, 2018

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Maggie Operating, Inc. | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | 15,569.4 | 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) | 162.1 | 174.1 | 182.2 | 181.5 | 280.044 | CC |
| Bunker 8-1H - Wellbore #1 - Plan #2 (12-06-18) | 200.0 | 211.3 | 182.2 | 181.3 | 213.316 | ES |
| Bunker 8-1H - Wellbore #1 - Plan #2 (12-06-18) | 1,900.0 | 1,660.9 | 757.2 | 737.8 | 39.064 | SF |
| Bunker 8-2H - Wellbore #1 - Plan #2 (12-06-18) | 263.4 | 272.4 | 149.4 | 148.2 | 124.497 | CC |
| Bunker 8-2H - Wellbore #1 - Plan #2 (12-06-18) | 300.0 | 308.9 | 149.4 | 148.0 | 106.719 | ES |
| Bunker 8-2H - Wellbore #1 - Plan #2 (12-06-18) | 3,100.0 | 2,964.2 | 785.9 | 708.4 | 10.145 | SF |
| Bunker 8-3H - Wellbore #1 - Plan #2 (12-06-18) | 164.2 | 171.2 | 120.2 | 119.6 | 185.552 | CC |
| Bunker 8-3H - Wellbore #1 - Plan #2 (12-06-18) | 300.0 | 306.1 | 120.6 | 119.2 | 87.254 | ES |
| Bunker 8-3H - Wellbore #1 - Plan #2 (12-06-18) | 3,600.0 | 3,458.2 | 779.5 | 674.6 | 7.430 | SF |
| Bunker 8-4H - Wellbore #1 - Plan #2 (12-06-18) | 264.5 | 270.5 | 91.1 | 89.9 | 76.028 | CC |
| Bunker 8-4H - Wellbore #1 - Plan #2 (12-06-18) | 300.0 | 306.0 | 91.1 | 89.7 | 65.411 | ES |
| Bunker 8-4H - Wellbore #1 - Plan #2 (12-06-18) | 4,500.0 | 4,424.6 | 779.7 | 630.8 | 5.238 | SF |
| Bunker 8-5H - Wellbore #1 - Plan #2 (12-06-18) | 283.6 | 287.6 | 61.9 | 60.6 | 48.009 | CC |
| Bunker 8-5H - Wellbore #1 - Plan #2 (12-06-18) | 300.0 | 304.0 | 61.9 | 60.5 | 44.893 | ES |
| Bunker 8-5H - Wellbore #1 - Plan #2 (12-06-18) | 4,780.5 | 4,712.5 | 552.6 | 394.3 | 3.490 | SF |
| Bunker 8-6H - Wellbore #1 - Plan #2 (12-06-18) | 308.7 | 310.7 | 29.0 | 27.6 | 20.425 | CC |
| Bunker 8-6H - Wellbore #1 - Plan #2 (12-06-18) | 14,800.0 | 14,566.1 | 479.4 | -116.3 | 0.805 | Level 1, ES, SF |
| Bunker 8-8H - Wellbore #1 - Plan #2 (12-06-18) | 447.7 | 445.5 | 28.6 | 26.5 | 13.199 | CC |
| Bunker 8-8H - Wellbore #1 - Plan #2 (12-06-18) | 15,569.4 | 15,797.2 | 550.5 | -121.7 | 0.819 | Level 1, ES, SF |
| Bunker 8-9H - Wellbore #1 - Plan #2 (12-16-18) | 200.0 | 197.0 | 58.3 | 57.5 | 71.285 | CC, ES |
| Bunker 8-9H - Wellbore #1 - Plan #2 (12-16-18) | 4,950.0 | 4,838.8 | 659.5 | 493.9 | 3.983 | 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 | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 0.0 | 0.0 | 12.0 | 12.0 | 0.0 | 0.0 | 180.00 | -182.2 | 0.0 | 182.2 | 182.1 | 0.02 | N/A | |
| 100.0 | 100.0 | 112.0 | 112.0 | 0.1 | 0.2 | 180.00 | -182.2 | 0.0 | 182.2 | 181.9 | 0.31 | 590.699 | |
| 162.1 | 162.1 | 174.1 | 174.1 | 0.3 | 0.3 | 180.00 | -182.2 | 0.0 | 182.2 | 181.5 | 0.65 | 280.044 | CC |
| 200.0 | 200.0 | 211.3 | 211.3 | 0.4 | 0.4 | 180.00 | -182.2 | 0.0 | 182.2 | 181.3 | 0.85 | 213.316 | ES |
| 300.0 | 300.0 | 305.6 | 305.6 | 0.7 | 0.7 | 179.79 | -184.0 | 0.7 | 184.1 | 182.7 | 1.36 | 135.019 | |
| 400.0 | 400.0 | 400.0 | 399.8 | 1.0 | 0.9 | 101.30 | -188.7 | 2.4 | 189.5 | 187.7 | 1.88 | 100.864 | |
| 500.0 | 499.7 | 493.3 | 492.8 | 1.2 | 1.2 | 102.02 | -196.2 | 5.2 | 198.9 | 196.5 | 2.42 | 82.082 | |

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 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | 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) | | | | |
| 600.0 | 599.1 | 586.0 | 584.8 | 1.5 | 1.5 | 103.32 | -206.5 | 8.9 | 212.4 | 209.3 | 3.02 | 70.211 | | | |
| 700.0 | 698.0 | 677.6 | 675.4 | 1.9 | 1.9 | 105.01 | -219.5 | 13.6 | 230.0 | 226.3 | 3.70 | 62.176 | | | |
| 800.0 | 796.0 | 767.8 | 764.0 | 2.4 | 2.3 | 106.88 | -234.8 | 19.3 | 251.9 | 247.4 | 4.46 | 56.470 | | | |
| 900.0 | 893.2 | 856.3 | 850.5 | 2.9 | 2.8 | 108.77 | -252.4 | 25.7 | 278.3 | 272.9 | 5.32 | 52.298 | | | |
| 1,000.0 | 989.2 | 942.9 | 934.6 | 3.6 | 3.3 | 110.54 | -272.1 | 32.9 | 309.1 | 302.8 | 6.28 | 49.195 | | | |
| 1,100.0 | 1,083.9 | 1,027.3 | 1,015.9 | 4.3 | 3.8 | 112.12 | -293.6 | 40.7 | 344.3 | 337.0 | 7.35 | 46.862 | | | |
| 1,200.0 | 1,177.0 | 1,109.5 | 1,094.3 | 5.2 | 4.4 | 113.47 | -316.6 | 49.2 | 383.9 | 375.4 | 8.51 | 45.093 | | | |
| 1,300.0 | 1,268.6 | 1,189.2 | 1,169.7 | 6.2 | 5.0 | 114.57 | -341.0 | 58.1 | 427.7 | 417.9 | 9.78 | 43.725 | | | |
| 1,400.0 | 1,358.3 | 1,266.3 | 1,241.9 | 7.3 | 5.7 | 115.41 | -366.4 | 67.4 | 475.5 | 464.4 | 11.15 | 42.655 | | | |
| 1,500.0 | 1,445.9 | 1,345.0 | 1,314.8 | 8.5 | 6.4 | 116.13 | -394.0 | 77.5 | 527.1 | 514.5 | 12.63 | 41.748 | | | |
| 1,600.0 | 1,531.4 | 1,427.0 | 1,390.8 | 9.8 | 7.1 | 116.91 | -423.1 | 88.1 | 581.1 | 566.9 | 14.21 | 40.909 | | | |
| 1,700.0 | 1,614.5 | 1,507.2 | 1,465.0 | 11.3 | 7.9 | 117.63 | -451.5 | 98.5 | 637.5 | 621.6 | 15.86 | 40.202 | | | |
| 1,800.0 | 1,695.2 | 1,585.1 | 1,537.2 | 12.9 | 8.6 | 118.25 | -479.1 | 108.6 | 696.1 | 678.6 | 17.58 | 39.590 | | | |
| 1,900.0 | 1,773.2 | 1,660.9 | 1,607.3 | 14.6 | 9.3 | 118.77 | -506.0 | 118.4 | 757.2 | 737.8 | 19.38 | 39.064 SF | | | |

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Magpie Operating, Inc. | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 8-2H - Wellbore #1 - Plan #2 (12-06-18) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft | |
|--|----------------|----------------|----------------|-----------------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------|--------|--------|
| Offset Design | | | | 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 | 9.0 | 9.0 | 0.0 | 0.0 | -180.00 | -149.4 | 0.0 | 149.4 | 149.4 | 0.01 | N/A | | | |
| 100.0 | 100.0 | 109.0 | 109.0 | 0.1 | 0.2 | -180.00 | -149.4 | 0.0 | 149.4 | 149.1 | 0.30 | 497.693 | | | |
| 200.0 | 200.0 | 209.0 | 209.0 | 0.4 | 0.4 | -180.00 | -149.4 | 0.0 | 149.4 | 148.5 | 0.85 | 175.562 | | | |
| 263.4 | 263.4 | 272.4 | 272.4 | 0.6 | 0.6 | -180.00 | -149.4 | 0.0 | 149.4 | 148.2 | 1.20 | 124.497 CC | | | |
| 300.0 | 300.0 | 308.9 | 308.9 | 0.7 | 0.7 | 179.99 | -149.4 | 0.0 | 149.4 | 148.0 | 1.40 | 106.719 ES | | | |
| 400.0 | 400.0 | 407.2 | 407.2 | 1.0 | 1.0 | 101.40 | -150.0 | 2.4 | 150.4 | 148.5 | 1.92 | 78.292 | | | |
| 500.0 | 499.7 | 505.6 | 505.3 | 1.2 | 1.2 | 101.25 | -151.7 | 8.9 | 153.4 | 151.0 | 2.47 | 62.239 | | | |
| 600.0 | 599.1 | 603.7 | 602.9 | 1.5 | 1.5 | 101.12 | -154.4 | 19.5 | 158.4 | 155.3 | 3.09 | 51.198 | | | |
| 700.0 | 698.0 | 701.8 | 699.7 | 1.9 | 1.9 | 100.98 | -158.1 | 34.0 | 165.2 | 161.4 | 3.84 | 43.048 | | | |
| 800.0 | 796.0 | 800.0 | 796.0 | 2.4 | 2.4 | 100.85 | -162.9 | 52.6 | 174.0 | 169.3 | 4.73 | 36.765 | | | |
| 900.0 | 893.2 | 897.1 | 890.4 | 2.9 | 2.9 | 100.71 | -168.6 | 74.9 | 184.6 | 178.8 | 5.80 | 31.861 | | | |
| 1,000.0 | 989.2 | 994.3 | 983.7 | 3.6 | 3.5 | 100.58 | -175.4 | 101.1 | 197.1 | 190.1 | 7.05 | 27.974 | | | |
| 1,100.0 | 1,083.9 | 1,091.2 | 1,075.5 | 4.3 | 4.3 | 100.43 | -183.0 | 130.9 | 211.5 | 203.0 | 8.50 | 24.886 | | | |
| 1,200.0 | 1,177.0 | 1,187.6 | 1,165.6 | 5.2 | 5.1 | 100.27 | -191.6 | 164.4 | 227.6 | 217.4 | 10.15 | 22.414 | | | |
| 1,300.0 | 1,268.6 | 1,283.7 | 1,253.8 | 6.2 | 6.1 | 100.10 | -201.1 | 201.3 | 245.4 | 233.4 | 12.02 | 20.420 | | | |
| 1,400.0 | 1,358.3 | 1,379.3 | 1,339.8 | 7.3 | 7.1 | 99.90 | -211.5 | 241.6 | 265.0 | 250.9 | 14.10 | 18.796 | | | |
| 1,500.0 | 1,445.9 | 1,474.4 | 1,423.7 | 8.5 | 8.3 | 99.69 | -222.7 | 285.1 | 286.3 | 269.9 | 16.40 | 17.459 | | | |
| 1,600.0 | 1,531.4 | 1,569.0 | 1,505.2 | 9.8 | 9.5 | 99.45 | -234.6 | 331.7 | 309.2 | 290.2 | 18.91 | 16.349 | | | |
| 1,700.0 | 1,614.5 | 1,663.2 | 1,584.2 | 11.3 | 10.9 | 99.19 | -247.4 | 381.2 | 333.6 | 312.0 | 21.64 | 15.417 | | | |
| 1,800.0 | 1,695.2 | 1,756.8 | 1,660.6 | 12.9 | 12.4 | 98.91 | -260.8 | 433.5 | 359.6 | 335.0 | 24.58 | 14.628 | | | |
| 1,900.0 | 1,773.2 | 1,849.9 | 1,734.4 | 14.6 | 14.0 | 98.61 | -275.0 | 488.5 | 387.0 | 359.3 | 27.74 | 13.953 | | | |
| 2,000.0 | 1,848.3 | 1,942.4 | 1,805.4 | 16.5 | 15.7 | 98.28 | -289.7 | 546.0 | 415.9 | 384.8 | 31.10 | 13.371 | | | |
| 2,100.0 | 1,920.6 | 2,034.5 | 1,873.6 | 18.4 | 17.4 | 97.92 | -305.1 | 605.9 | 446.1 | 411.4 | 34.67 | 12.865 | | | |
| 2,200.0 | 1,989.7 | 2,126.0 | 1,938.9 | 20.5 | 19.3 | 97.55 | -321.1 | 668.0 | 477.6 | 439.1 | 38.44 | 12.423 | | | |
| 2,300.0 | 2,055.6 | 2,217.1 | 2,001.2 | 22.7 | 21.3 | 97.15 | -337.6 | 732.3 | 510.3 | 467.9 | 42.41 | 12.033 | | | |
| 2,399.5 | 2,118.0 | 2,307.4 | 2,060.4 | 25.0 | 23.3 | 96.73 | -354.6 | 798.4 | 544.1 | 497.5 | 46.54 | 11.690 | | | |
| 2,500.0 | 2,179.1 | 2,401.6 | 2,120.9 | 27.4 | 25.5 | 97.23 | -372.6 | 868.3 | 578.7 | 527.7 | 50.94 | 11.360 | | | |
| 2,600.0 | 2,240.0 | 2,495.4 | 2,181.1 | 29.8 | 27.7 | 97.66 | -390.5 | 938.0 | 613.2 | 557.8 | 55.34 | 11.081 | | | |
| 2,700.0 | 2,300.9 | 2,589.1 | 2,241.3 | 32.2 | 29.9 | 98.05 | -408.4 | 1,007.6 | 647.7 | 587.9 | 59.74 | 10.841 | | | |
| 2,800.0 | 2,361.8 | 2,682.9 | 2,301.5 | 34.6 | 32.1 | 98.40 | -426.3 | 1,077.2 | 682.2 | 618.0 | 64.16 | 10.632 | | | |
| 2,900.0 | 2,422.7 | 2,776.7 | 2,361.7 | 37.0 | 34.3 | 98.72 | -444.2 | 1,146.8 | 716.8 | 648.2 | 68.59 | 10.449 | | | |
| 3,000.0 | 2,483.6 | 2,870.5 | 2,421.9 | 39.4 | 36.5 | 99.00 | -462.1 | 1,216.5 | 751.3 | 678.3 | 73.03 | 10.288 | | | |
| 3,100.0 | 2,544.5 | 2,964.2 | 2,482.1 | 41.8 | 38.7 | 99.26 | -480.0 | 1,286.1 | 785.9 | 708.4 | 77.47 | 10.145 SF | | | |

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Maggie Operating, Inc. | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | | Highside Toolface (°) | Distance | | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | |
| 0.0 | 0.0 | 7.0 | 7.0 | 0.0 | 0.0 | 180.00 | -120.2 | 0.0 | 120.2 | 120.2 | 0.01 | N/A | | |
| 100.0 | 100.0 | 107.0 | 107.0 | 0.1 | 0.2 | 180.00 | -120.2 | 0.0 | 120.2 | 119.9 | 0.29 | 408.070 | | |
| 164.2 | 164.2 | 171.2 | 171.2 | 0.3 | 0.3 | 180.00 | -120.2 | 0.0 | 120.2 | 119.6 | 0.65 | 185.552 CC | | |
| 200.0 | 200.0 | 206.9 | 206.9 | 0.4 | 0.4 | 180.00 | -120.2 | 0.0 | 120.2 | 119.4 | 0.84 | 142.387 | | |
| 300.0 | 300.0 | 306.1 | 306.0 | 0.7 | 0.7 | 178.85 | -120.6 | 2.4 | 120.6 | 119.2 | 1.38 | 87.254 ES | | |
| 400.0 | 400.0 | 405.0 | 404.7 | 1.0 | 1.0 | 98.25 | -121.6 | 9.1 | 122.3 | 120.3 | 1.92 | 63.563 | | |
| 500.0 | 499.7 | 503.6 | 502.7 | 1.2 | 1.3 | 96.20 | -123.3 | 19.9 | 125.6 | 123.1 | 2.52 | 49.762 | | |
| 600.0 | 599.1 | 602.0 | 599.9 | 1.5 | 1.7 | 94.31 | -125.5 | 34.8 | 130.6 | 127.3 | 3.22 | 40.502 | | |
| 700.0 | 698.0 | 700.0 | 696.0 | 1.9 | 2.2 | 92.62 | -128.5 | 53.7 | 137.1 | 133.1 | 4.05 | 33.846 | | |
| 800.0 | 796.0 | 797.8 | 791.1 | 2.4 | 2.7 | 91.16 | -132.0 | 76.6 | 145.2 | 140.2 | 5.04 | 28.842 | | |
| 900.0 | 893.2 | 895.3 | 884.6 | 2.9 | 3.4 | 89.94 | -136.1 | 103.4 | 154.9 | 148.7 | 6.19 | 25.008 | | |
| 1,000.0 | 989.2 | 992.3 | 976.6 | 3.6 | 4.1 | 88.93 | -140.8 | 134.0 | 165.9 | 158.4 | 7.54 | 22.020 | | |
| 1,100.0 | 1,083.9 | 1,089.0 | 1,066.8 | 4.3 | 5.0 | 88.12 | -146.0 | 168.3 | 178.4 | 169.3 | 9.07 | 19.659 | | |
| 1,200.0 | 1,177.0 | 1,185.2 | 1,155.1 | 5.2 | 5.9 | 87.48 | -151.8 | 206.1 | 192.2 | 181.4 | 10.82 | 17.769 | | |
| 1,300.0 | 1,268.6 | 1,281.0 | 1,241.4 | 6.2 | 7.0 | 86.97 | -158.1 | 247.4 | 207.3 | 194.6 | 12.77 | 16.236 | | |
| 1,400.0 | 1,358.3 | 1,376.4 | 1,325.4 | 7.3 | 8.2 | 86.59 | -165.0 | 292.0 | 223.7 | 208.8 | 14.94 | 14.977 | | |
| 1,500.0 | 1,445.9 | 1,471.4 | 1,407.2 | 8.5 | 9.5 | 86.29 | -172.3 | 339.7 | 241.3 | 224.0 | 17.32 | 13.932 | | |
| 1,600.0 | 1,531.4 | 1,565.9 | 1,486.4 | 9.8 | 10.9 | 86.06 | -180.1 | 390.6 | 260.1 | 240.2 | 19.93 | 13.053 | | |
| 1,700.0 | 1,614.5 | 1,659.9 | 1,563.2 | 11.3 | 12.3 | 85.89 | -188.3 | 444.3 | 280.1 | 257.3 | 22.76 | 12.308 | | |
| 1,800.0 | 1,695.2 | 1,753.6 | 1,637.3 | 12.9 | 13.9 | 85.75 | -197.0 | 500.8 | 301.2 | 275.4 | 25.81 | 11.669 | | |
| 1,900.0 | 1,773.2 | 1,846.7 | 1,708.6 | 14.6 | 15.6 | 85.64 | -206.0 | 560.0 | 323.3 | 294.2 | 29.08 | 11.118 | | |
| 2,000.0 | 1,848.3 | 1,939.5 | 1,777.2 | 16.5 | 17.5 | 85.54 | -215.5 | 621.8 | 346.5 | 313.9 | 32.57 | 10.638 | | |
| 2,100.0 | 1,920.6 | 2,031.8 | 1,842.9 | 18.4 | 19.4 | 85.45 | -225.3 | 685.9 | 370.6 | 334.3 | 36.27 | 10.217 | | |
| 2,200.0 | 1,989.7 | 2,123.7 | 1,905.6 | 20.5 | 21.3 | 85.36 | -235.5 | 752.3 | 395.7 | 355.5 | 40.19 | 9.847 | | |
| 2,300.0 | 2,055.6 | 2,215.2 | 1,965.4 | 22.7 | 23.4 | 85.27 | -246.0 | 820.8 | 421.7 | 377.4 | 44.30 | 9.518 | | |
| 2,399.5 | 2,118.0 | 2,305.9 | 2,021.8 | 25.0 | 25.6 | 85.18 | -256.7 | 890.9 | 448.4 | 399.8 | 48.60 | 9.227 | | |
| 2,500.0 | 2,179.1 | 2,401.4 | 2,079.2 | 27.4 | 28.0 | 85.70 | -268.3 | 966.4 | 476.0 | 422.7 | 53.22 | 8.943 | | |
| 2,600.0 | 2,240.0 | 2,497.5 | 2,136.9 | 29.8 | 30.3 | 86.15 | -279.9 | 1,042.3 | 503.5 | 445.6 | 57.87 | 8.700 | | |
| 2,700.0 | 2,300.9 | 2,593.5 | 2,194.6 | 32.2 | 32.7 | 86.56 | -291.6 | 1,118.3 | 531.0 | 468.5 | 62.54 | 8.491 | | |
| 2,800.0 | 2,361.8 | 2,689.6 | 2,252.3 | 34.6 | 35.1 | 86.93 | -303.2 | 1,194.2 | 558.6 | 491.3 | 67.22 | 8.310 | | |
| 2,900.0 | 2,422.7 | 2,785.7 | 2,309.9 | 37.0 | 37.5 | 87.27 | -314.8 | 1,270.1 | 586.1 | 514.2 | 71.91 | 8.151 | | |
| 3,000.0 | 2,483.6 | 2,881.7 | 2,367.6 | 39.4 | 39.9 | 87.57 | -326.5 | 1,346.1 | 613.7 | 537.1 | 76.61 | 8.011 | | |
| 3,100.0 | 2,544.5 | 2,977.8 | 2,425.3 | 41.8 | 42.3 | 87.85 | -338.1 | 1,422.0 | 641.3 | 560.0 | 81.31 | 7.887 | | |
| 3,200.0 | 2,605.4 | 3,073.9 | 2,483.0 | 44.3 | 44.7 | 88.10 | -349.8 | 1,497.9 | 668.9 | 582.9 | 86.03 | 7.776 | | |
| 3,300.0 | 2,666.3 | 3,169.9 | 2,540.7 | 46.7 | 47.2 | 88.34 | -361.4 | 1,573.9 | 696.6 | 605.8 | 90.74 | 7.676 | | |
| 3,400.0 | 2,727.2 | 3,266.0 | 2,598.3 | 49.1 | 49.6 | 88.56 | -373.0 | 1,649.8 | 724.2 | 628.7 | 95.47 | 7.586 | | |
| 3,500.0 | 2,788.0 | 3,362.1 | 2,656.0 | 51.5 | 52.0 | 88.76 | -384.7 | 1,725.8 | 751.9 | 651.7 | 100.19 | 7.504 | | |
| 3,600.0 | 2,848.9 | 3,458.2 | 2,713.7 | 54.0 | 54.4 | 88.95 | -396.3 | 1,801.7 | 779.5 | 674.6 | 104.92 | 7.430 SF | | |

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Maggie Operating, Inc. | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | 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 | 6.0 | 6.0 | 0.0 | 0.0 | 180.00 | -91.1 | 0.0 | 91.1 | 91.1 | 0.01 | N/A | | |
| 100.0 | 100.0 | 106.0 | 106.0 | 0.1 | 0.2 | 180.00 | -91.1 | 0.0 | 91.1 | 90.8 | 0.29 | 312.060 | | |
| 200.0 | 200.0 | 206.0 | 206.0 | 0.4 | 0.4 | 180.00 | -91.1 | 0.0 | 91.1 | 90.2 | 0.84 | 108.099 | | |
| 264.5 | 264.5 | 270.5 | 270.5 | 0.6 | 0.6 | 180.00 | -91.1 | 0.0 | 91.1 | 89.9 | 1.20 | 76.028 CC | | |
| 300.0 | 300.0 | 306.0 | 306.0 | 0.7 | 0.7 | 180.00 | -91.1 | 0.0 | 91.1 | 89.7 | 1.39 | 65.411 ES | | |
| 400.0 | 400.0 | 405.7 | 405.7 | 1.0 | 1.0 | 101.35 | -91.2 | 2.4 | 91.7 | 89.8 | 1.92 | 47.753 | | |
| 500.0 | 499.7 | 505.4 | 505.1 | 1.2 | 1.2 | 101.09 | -91.7 | 9.2 | 93.5 | 91.0 | 2.47 | 37.841 | | |
| 600.0 | 599.1 | 605.0 | 604.1 | 1.5 | 1.6 | 100.78 | -92.5 | 20.2 | 96.4 | 93.3 | 3.11 | 31.047 | | |
| 700.0 | 698.0 | 704.6 | 702.5 | 1.9 | 1.9 | 100.44 | -93.6 | 35.5 | 100.6 | 96.7 | 3.86 | 26.029 | | |
| 800.0 | 796.0 | 804.0 | 800.0 | 2.4 | 2.4 | 100.07 | -94.9 | 55.1 | 105.9 | 101.1 | 4.77 | 22.170 | | |
| 900.0 | 893.2 | 903.4 | 896.4 | 2.9 | 2.9 | 99.69 | -96.6 | 78.8 | 112.3 | 106.4 | 5.87 | 19.146 | | |
| 1,000.0 | 989.2 | 1,002.6 | 991.7 | 3.6 | 3.6 | 99.31 | -98.6 | 106.6 | 119.9 | 112.7 | 7.15 | 16.759 | | |
| 1,100.0 | 1,083.9 | 1,101.7 | 1,085.5 | 4.3 | 4.4 | 98.93 | -100.8 | 138.5 | 128.6 | 119.9 | 8.65 | 14.863 | | |
| 1,200.0 | 1,177.0 | 1,200.7 | 1,177.6 | 5.2 | 5.2 | 98.55 | -103.3 | 174.3 | 138.4 | 128.0 | 10.37 | 13.348 | | |
| 1,300.0 | 1,268.6 | 1,299.4 | 1,268.0 | 6.2 | 6.2 | 98.19 | -106.1 | 214.0 | 149.3 | 137.0 | 12.31 | 12.126 | | |
| 1,400.0 | 1,358.3 | 1,398.0 | 1,356.5 | 7.3 | 7.3 | 97.83 | -109.1 | 257.4 | 161.2 | 146.7 | 14.48 | 11.130 | | |
| 1,500.0 | 1,445.9 | 1,496.4 | 1,442.8 | 8.5 | 8.5 | 97.48 | -112.4 | 304.5 | 174.2 | 157.3 | 16.89 | 10.311 | | |
| 1,600.0 | 1,531.4 | 1,594.6 | 1,526.9 | 9.8 | 9.9 | 97.14 | -116.0 | 355.2 | 188.2 | 168.6 | 19.54 | 9.631 | | |
| 1,700.0 | 1,614.5 | 1,692.6 | 1,608.5 | 11.3 | 11.3 | 96.81 | -119.8 | 409.2 | 203.1 | 180.7 | 22.42 | 9.060 | | |
| 1,800.0 | 1,695.2 | 1,790.4 | 1,687.6 | 12.9 | 12.9 | 96.48 | -123.8 | 466.6 | 219.1 | 193.5 | 25.55 | 8.576 | | |
| 1,900.0 | 1,773.2 | 1,888.0 | 1,763.9 | 14.6 | 14.6 | 96.16 | -128.1 | 527.2 | 235.9 | 207.0 | 28.91 | 8.161 | | |
| 2,000.0 | 1,848.3 | 1,985.4 | 1,837.5 | 16.5 | 16.4 | 95.83 | -132.5 | 590.8 | 253.6 | 221.1 | 32.50 | 7.803 | | |
| 2,100.0 | 1,920.6 | 2,082.5 | 1,908.2 | 18.4 | 18.4 | 95.51 | -137.2 | 657.3 | 272.2 | 235.9 | 36.33 | 7.492 | | |
| 2,200.0 | 1,989.7 | 2,179.5 | 1,975.8 | 20.5 | 20.4 | 95.19 | -142.1 | 726.7 | 291.6 | 251.2 | 40.39 | 7.220 | | |
| 2,300.0 | 2,055.6 | 2,276.3 | 2,040.3 | 22.7 | 22.6 | 94.86 | -147.1 | 798.6 | 311.7 | 267.1 | 44.67 | 6.979 | | |
| 2,399.5 | 2,118.0 | 2,372.4 | 2,101.3 | 25.0 | 24.8 | 94.54 | -152.3 | 872.7 | 332.6 | 283.4 | 49.13 | 6.769 | | |
| 2,500.0 | 2,179.1 | 2,470.5 | 2,161.8 | 27.4 | 27.2 | 94.70 | -157.7 | 949.8 | 353.9 | 300.1 | 53.82 | 6.577 | | |
| 2,600.0 | 2,240.0 | 2,568.2 | 2,222.0 | 29.8 | 29.5 | 94.85 | -163.1 | 1,026.5 | 375.2 | 316.7 | 58.50 | 6.413 | | |
| 2,700.0 | 2,300.9 | 2,665.9 | 2,282.2 | 32.2 | 31.9 | 94.97 | -168.5 | 1,103.3 | 396.5 | 333.3 | 63.21 | 6.273 | | |
| 2,800.0 | 2,361.8 | 2,763.6 | 2,342.4 | 34.6 | 34.3 | 95.09 | -173.9 | 1,180.1 | 417.8 | 349.8 | 67.92 | 6.151 | | |
| 2,900.0 | 2,422.7 | 2,861.3 | 2,402.6 | 37.0 | 36.7 | 95.19 | -179.2 | 1,256.8 | 439.1 | 366.4 | 72.65 | 6.043 | | |
| 3,000.0 | 2,483.6 | 2,959.0 | 2,462.8 | 39.4 | 39.1 | 95.29 | -184.6 | 1,333.6 | 460.3 | 383.0 | 77.38 | 5.949 | | |
| 3,100.0 | 2,544.5 | 3,056.7 | 2,523.0 | 41.8 | 41.5 | 95.37 | -190.0 | 1,410.4 | 481.6 | 399.5 | 82.13 | 5.864 | | |
| 3,200.0 | 2,605.4 | 3,154.4 | 2,583.2 | 44.3 | 43.9 | 95.45 | -195.4 | 1,487.1 | 502.9 | 416.0 | 86.87 | 5.789 | | |
| 3,300.0 | 2,666.3 | 3,252.1 | 2,643.4 | 46.7 | 46.3 | 95.52 | -200.8 | 1,563.9 | 524.2 | 432.6 | 91.63 | 5.721 | | |
| 3,400.0 | 2,727.2 | 3,349.8 | 2,703.6 | 49.1 | 48.7 | 95.59 | -206.2 | 1,640.6 | 545.5 | 449.1 | 96.38 | 5.660 | | |
| 3,500.0 | 2,788.0 | 3,447.6 | 2,763.8 | 51.5 | 51.1 | 95.65 | -211.5 | 1,717.4 | 566.8 | 465.6 | 101.14 | 5.604 | | |
| 3,600.0 | 2,848.9 | 3,545.3 | 2,824.0 | 54.0 | 53.5 | 95.71 | -216.9 | 1,794.2 | 588.1 | 482.2 | 105.91 | 5.553 | | |
| 3,700.0 | 2,909.8 | 3,643.0 | 2,884.2 | 56.4 | 55.9 | 95.76 | -222.3 | 1,870.9 | 609.4 | 498.7 | 110.67 | 5.506 | | |
| 3,800.0 | 2,970.7 | 3,740.7 | 2,944.5 | 58.8 | 58.3 | 95.81 | -227.7 | 1,947.7 | 630.7 | 515.2 | 115.44 | 5.463 | | |
| 3,900.0 | 3,031.6 | 3,838.4 | 3,004.7 | 61.3 | 60.7 | 95.86 | -233.1 | 2,024.4 | 651.9 | 531.7 | 120.21 | 5.423 | | |
| 4,000.0 | 3,092.5 | 3,936.1 | 3,064.9 | 63.7 | 63.1 | 95.90 | -238.5 | 2,101.2 | 673.2 | 548.3 | 124.98 | 5.387 | | |
| 4,100.0 | 3,153.4 | 4,033.8 | 3,125.1 | 66.1 | 65.5 | 95.94 | -243.9 | 2,178.0 | 694.5 | 564.8 | 129.76 | 5.352 | | |
| 4,200.0 | 3,214.3 | 4,131.5 | 3,185.3 | 68.6 | 68.0 | 95.98 | -249.2 | 2,254.7 | 715.8 | 581.3 | 134.53 | 5.321 | | |
| 4,300.0 | 3,275.2 | 4,229.2 | 3,245.5 | 71.0 | 70.4 | 96.02 | -254.6 | 2,331.5 | 737.1 | 597.8 | 139.31 | 5.291 | | |
| 4,400.0 | 3,336.1 | 4,326.9 | 3,305.7 | 73.4 | 72.8 | 96.05 | -260.0 | 2,408.3 | 758.4 | 614.3 | 144.09 | 5.263 | | |
| 4,500.0 | 3,397.0 | 4,424.6 | 3,365.9 | 75.9 | 75.2 | 96.08 | -265.4 | 2,485.0 | 779.7 | 630.8 | 148.87 | 5.238 SF | | |

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Magpie Operating, Inc. | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 8-5H - 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 | 4.0 | 4.0 | 0.0 | 0.0 | -180.00 | -61.9 | 0.0 | 61.9 | 61.9 | 0.01 | N/A | | |
| 100.0 | 100.0 | 104.0 | 104.0 | 0.1 | 0.1 | -180.00 | -61.9 | 0.0 | 61.9 | 61.6 | 0.29 | 216.282 | | |
| 200.0 | 200.0 | 204.0 | 204.0 | 0.4 | 0.4 | 180.00 | -61.9 | 0.0 | 61.9 | 61.1 | 0.84 | 74.021 | | |
| 283.6 | 283.6 | 287.6 | 287.6 | 0.6 | 0.6 | 178.45 | -61.9 | 1.7 | 61.9 | 60.6 | 1.29 | 48.009 | CC | |
| 300.0 | 300.0 | 304.0 | 304.0 | 0.7 | 0.7 | 177.82 | -61.9 | 2.4 | 61.9 | 60.5 | 1.38 | 44.893 | ES | |
| 400.0 | 400.0 | 403.8 | 403.5 | 1.0 | 1.0 | 95.18 | -61.7 | 9.0 | 62.5 | 60.6 | 1.92 | 32.493 | | |
| 500.0 | 499.7 | 503.3 | 502.4 | 1.2 | 1.3 | 91.13 | -61.4 | 20.0 | 64.2 | 61.7 | 2.53 | 25.401 | | |
| 600.0 | 599.1 | 602.7 | 600.6 | 1.5 | 1.7 | 87.39 | -61.0 | 35.3 | 66.9 | 63.7 | 3.23 | 20.715 | | |
| 700.0 | 698.0 | 701.8 | 697.8 | 1.9 | 2.2 | 84.07 | -60.5 | 54.7 | 70.6 | 66.6 | 4.06 | 17.393 | | |
| 800.0 | 796.0 | 800.7 | 793.8 | 2.4 | 2.7 | 81.23 | -59.8 | 78.2 | 75.2 | 70.2 | 5.04 | 14.936 | | |
| 900.0 | 893.2 | 899.4 | 888.6 | 2.9 | 3.4 | 78.88 | -59.1 | 105.8 | 80.7 | 74.5 | 6.18 | 13.065 | | |
| 1,000.0 | 989.2 | 997.8 | 981.8 | 3.6 | 4.2 | 76.99 | -58.2 | 137.4 | 87.0 | 79.5 | 7.49 | 11.606 | | |
| 1,100.0 | 1,083.9 | 1,096.0 | 1,073.4 | 4.3 | 5.0 | 75.50 | -57.3 | 172.9 | 93.9 | 85.0 | 8.99 | 10.447 | | |
| 1,200.0 | 1,177.0 | 1,194.0 | 1,163.1 | 5.2 | 6.0 | 74.37 | -56.2 | 212.1 | 101.6 | 90.9 | 10.69 | 9.506 | | |
| 1,300.0 | 1,268.6 | 1,291.7 | 1,250.9 | 6.2 | 7.1 | 73.53 | -55.0 | 255.0 | 109.9 | 97.3 | 12.58 | 8.731 | | |
| 1,400.0 | 1,358.3 | 1,389.2 | 1,336.6 | 7.3 | 8.3 | 72.94 | -53.8 | 301.6 | 118.8 | 104.1 | 14.70 | 8.082 | | |
| 1,500.0 | 1,445.9 | 1,486.5 | 1,420.0 | 8.5 | 9.6 | 72.55 | -52.4 | 351.6 | 128.2 | 111.2 | 17.03 | 7.530 | | |
| 1,600.0 | 1,531.4 | 1,583.5 | 1,501.0 | 9.8 | 11.1 | 72.32 | -51.0 | 404.9 | 138.2 | 118.7 | 19.59 | 7.057 | | |
| 1,700.0 | 1,614.5 | 1,680.3 | 1,579.5 | 11.3 | 12.6 | 72.22 | -49.5 | 461.5 | 148.8 | 126.4 | 22.38 | 6.647 | | |
| 1,800.0 | 1,695.2 | 1,776.8 | 1,655.4 | 12.9 | 14.3 | 72.23 | -47.8 | 521.2 | 159.8 | 134.4 | 25.41 | 6.289 | | |
| 1,900.0 | 1,773.2 | 1,873.2 | 1,728.5 | 14.6 | 16.1 | 72.30 | -46.1 | 583.9 | 171.4 | 142.7 | 28.68 | 5.974 | | |
| 2,000.0 | 1,848.3 | 1,969.3 | 1,798.7 | 16.5 | 18.0 | 72.44 | -44.4 | 649.5 | 183.4 | 151.2 | 32.20 | 5.695 | | |
| 2,100.0 | 1,920.6 | 2,065.2 | 1,866.0 | 18.4 | 20.0 | 72.63 | -42.5 | 717.8 | 195.8 | 159.9 | 35.94 | 5.447 | | |
| 2,200.0 | 1,989.7 | 2,162.4 | 1,931.5 | 20.5 | 22.1 | 72.95 | -40.6 | 789.5 | 208.5 | 168.6 | 39.96 | 5.218 | | |
| 2,300.0 | 2,055.6 | 2,261.6 | 1,997.9 | 22.7 | 24.3 | 74.16 | -38.6 | 863.2 | 220.4 | 176.0 | 44.40 | 4.963 | | |
| 2,399.5 | 2,118.0 | 2,360.1 | 2,063.7 | 25.0 | 26.5 | 76.27 | -36.6 | 936.4 | 231.2 | 182.0 | 49.20 | 4.700 | | |
| 2,500.0 | 2,179.1 | 2,459.3 | 2,130.1 | 27.4 | 28.7 | 78.94 | -34.6 | 1,010.1 | 242.1 | 187.9 | 54.22 | 4.466 | | |
| 2,600.0 | 2,240.0 | 2,558.1 | 2,196.2 | 29.8 | 30.9 | 81.37 | -32.6 | 1,083.6 | 253.5 | 194.3 | 59.19 | 4.282 | | |
| 2,700.0 | 2,300.9 | 2,656.9 | 2,262.3 | 32.2 | 33.1 | 83.59 | -30.7 | 1,157.0 | 265.2 | 201.1 | 64.11 | 4.137 | | |
| 2,800.0 | 2,361.8 | 2,755.7 | 2,328.4 | 34.6 | 35.4 | 85.62 | -28.7 | 1,230.4 | 277.3 | 208.3 | 68.99 | 4.020 | | |
| 2,900.0 | 2,422.7 | 2,854.5 | 2,394.5 | 37.0 | 37.6 | 87.48 | -26.7 | 1,303.8 | 289.7 | 215.9 | 73.82 | 3.925 | | |
| 3,000.0 | 2,483.6 | 2,953.3 | 2,460.6 | 39.4 | 39.8 | 89.19 | -24.7 | 1,377.2 | 302.5 | 223.9 | 78.60 | 3.848 | | |
| 3,100.0 | 2,544.5 | 3,052.1 | 2,526.7 | 41.8 | 42.1 | 90.76 | -22.7 | 1,450.6 | 315.4 | 232.1 | 83.34 | 3.785 | | |
| 3,200.0 | 2,605.4 | 3,150.9 | 2,592.8 | 44.3 | 44.3 | 92.21 | -20.7 | 1,524.0 | 328.6 | 240.5 | 88.03 | 3.733 | | |
| 3,300.0 | 2,666.3 | 3,249.7 | 2,658.9 | 46.7 | 46.6 | 93.54 | -18.7 | 1,597.4 | 341.9 | 249.3 | 92.68 | 3.689 | | |
| 3,400.0 | 2,727.2 | 3,348.5 | 2,724.9 | 49.1 | 48.8 | 94.77 | -16.8 | 1,670.9 | 355.5 | 258.2 | 97.29 | 3.654 | | |
| 3,500.0 | 2,788.0 | 3,447.3 | 2,791.0 | 51.5 | 51.0 | 95.92 | -14.8 | 1,744.3 | 369.1 | 267.3 | 101.87 | 3.624 | | |
| 3,600.0 | 2,848.9 | 3,546.1 | 2,857.1 | 54.0 | 53.3 | 96.98 | -12.8 | 1,817.7 | 383.0 | 276.5 | 106.41 | 3.599 | | |
| 3,700.0 | 2,909.8 | 3,644.9 | 2,923.2 | 56.4 | 55.5 | 97.96 | -10.8 | 1,891.1 | 396.9 | 286.0 | 110.92 | 3.578 | | |
| 3,800.0 | 2,970.7 | 3,743.7 | 2,989.3 | 58.8 | 57.8 | 98.89 | -8.8 | 1,964.5 | 410.9 | 295.5 | 115.41 | 3.561 | | |
| 3,900.0 | 3,031.6 | 3,842.5 | 3,055.4 | 61.3 | 60.0 | 99.75 | -6.8 | 2,037.9 | 425.1 | 305.2 | 119.87 | 3.546 | | |
| 4,000.0 | 3,092.5 | 3,941.3 | 3,121.5 | 63.7 | 62.2 | 100.55 | -4.9 | 2,111.3 | 439.3 | 315.0 | 124.31 | 3.534 | | |
| 4,100.0 | 3,153.4 | 4,040.1 | 3,187.6 | 66.1 | 64.5 | 101.30 | -2.9 | 2,184.8 | 453.6 | 324.9 | 128.72 | 3.524 | | |
| 4,200.0 | 3,214.3 | 4,138.9 | 3,253.7 | 68.6 | 66.7 | 102.01 | -0.9 | 2,258.2 | 468.0 | 334.9 | 133.12 | 3.516 | | |
| 4,300.0 | 3,275.2 | 4,237.7 | 3,319.8 | 71.0 | 69.0 | 102.68 | 1.1 | 2,331.6 | 482.4 | 344.9 | 137.50 | 3.509 | | |
| 4,400.0 | 3,336.1 | 4,336.5 | 3,385.8 | 73.4 | 71.2 | 103.31 | 3.1 | 2,405.0 | 496.9 | 355.1 | 141.86 | 3.503 | | |
| 4,500.0 | 3,397.0 | 4,435.3 | 3,451.9 | 75.9 | 73.5 | 103.90 | 5.1 | 2,478.4 | 511.5 | 365.3 | 146.20 | 3.499 | | |
| 4,600.0 | 3,457.9 | 4,534.1 | 3,518.0 | 78.3 | 75.7 | 104.46 | 7.1 | 2,551.8 | 526.1 | 375.6 | 150.54 | 3.495 | | |
| 4,700.0 | 3,518.8 | 4,632.9 | 3,584.1 | 80.8 | 78.0 | 104.98 | 9.0 | 2,625.2 | 540.8 | 385.9 | 154.86 | 3.492 | | |
| 4,780.5 | 3,567.8 | 4,712.5 | 3,637.3 | 82.7 | 79.8 | 105.39 | 10.6 | 2,684.4 | 552.6 | 394.3 | 158.33 | 3.490 | SF | |
| 4,800.0 | 3,579.9 | 4,731.7 | 3,650.2 | 83.2 | 80.2 | 106.17 | 11.0 | 2,698.7 | 555.5 | 396.5 | 158.99 | 3.494 | | |
| 4,850.0 | 3,612.8 | 4,781.1 | 3,683.3 | 84.2 | 81.4 | 108.11 | 12.0 | 2,735.4 | 563.0 | 402.3 | 160.72 | 3.503 | | |

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

| Offset Design | | | | | | | | | | | | Offset Site Error: | | 0.0 ft |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------------------|--|--------|
| Bunker 8 Well Pad Sec.29-T5N-R68W - Bunker 8-5H - Wellbore #1 - Plan #2 (12-06-18) | | | | | | | | | | | | Offset Well Error: | | 0.0 ft |
| Survey Program: | | 0-MWD | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 4,900.0 | 3,648.5 | 4,827.6 | 3,714.8 | 85.1 | 82.4 | 110.10 | 13.0 | 2,769.5 | 570.9 | 408.5 | 162.37 | 3.516 | | |
| 4,950.0 | 3,686.6 | 4,872.5 | 3,747.4 | 86.0 | 83.2 | 112.52 | 14.0 | 2,800.4 | 579.3 | 415.5 | 163.76 | 3.537 | | |
| 5,000.0 | 3,726.9 | 4,917.6 | 3,782.1 | 86.7 | 84.0 | 115.53 | 15.0 | 2,829.1 | 588.2 | 423.2 | 164.93 | 3.566 | | |
| 5,050.0 | 3,769.1 | 4,962.8 | 3,819.0 | 87.3 | 84.6 | 119.34 | 16.2 | 2,855.3 | 597.6 | 431.7 | 165.91 | 3.602 | | |
| 5,100.0 | 3,813.1 | 5,008.3 | 3,857.8 | 87.8 | 85.2 | 124.23 | 17.4 | 2,878.9 | 607.4 | 440.7 | 166.70 | 3.644 | | |
| 5,150.0 | 3,858.5 | 5,054.1 | 3,898.5 | 88.2 | 85.7 | 130.66 | 18.7 | 2,899.8 | 617.6 | 450.3 | 167.32 | 3.691 | | |
| 5,200.0 | 3,905.0 | 5,100.0 | 3,940.7 | 88.5 | 86.1 | 139.23 | 20.1 | 2,917.8 | 628.1 | 460.3 | 167.79 | 3.744 | | |
| 5,250.0 | 3,952.5 | 5,146.5 | 3,984.6 | 88.7 | 86.4 | 150.62 | 21.5 | 2,932.9 | 638.9 | 470.8 | 168.10 | 3.801 | | |
| 5,300.0 | 4,000.4 | 5,193.3 | 4,029.9 | 88.9 | 86.7 | 165.18 | 23.0 | 2,944.8 | 649.9 | 481.6 | 168.30 | 3.862 | | |
| 5,350.0 | 4,048.7 | 5,240.5 | 4,076.3 | 89.0 | 86.8 | -178.02 | 24.5 | 2,953.4 | 661.1 | 492.7 | 168.40 | 3.926 | | |
| 5,400.0 | 4,096.9 | 5,288.2 | 4,123.7 | 89.0 | 86.9 | -161.43 | 26.1 | 2,958.5 | 672.3 | 503.9 | 168.43 | 3.992 | | |
| 5,450.0 | 4,144.8 | 5,336.5 | 4,171.9 | 89.0 | 87.0 | -147.32 | 27.7 | 2,960.1 | 683.6 | 515.2 | 168.39 | 4.060 | | |
| 5,500.0 | 4,192.1 | 5,385.4 | 4,220.6 | 88.9 | 87.0 | -136.39 | 29.4 | 2,958.0 | 694.8 | 526.5 | 168.32 | 4.128 | | |
| 5,550.0 | 4,238.5 | 5,434.9 | 4,269.8 | 88.9 | 86.9 | -128.20 | 31.0 | 2,952.1 | 705.9 | 537.7 | 168.23 | 4.196 | | |
| 5,600.0 | 4,283.7 | 5,485.1 | 4,319.0 | 88.8 | 86.8 | -122.06 | 32.7 | 2,942.2 | 716.9 | 548.7 | 168.15 | 4.263 | | |
| 5,650.0 | 4,327.5 | 5,536.1 | 4,368.0 | 88.7 | 86.7 | -117.37 | 34.4 | 2,928.2 | 727.5 | 559.4 | 168.08 | 4.328 | | |
| 5,700.0 | 4,369.5 | 5,587.9 | 4,416.4 | 88.6 | 86.6 | -113.73 | 36.1 | 2,910.0 | 737.9 | 569.8 | 168.06 | 4.391 | | |
| 5,750.0 | 4,409.4 | 5,640.5 | 4,463.9 | 88.5 | 86.5 | -110.85 | 37.8 | 2,887.5 | 747.9 | 579.8 | 168.09 | 4.449 | | |
| 5,800.0 | 4,447.2 | 5,694.0 | 4,510.2 | 88.5 | 86.4 | -108.53 | 39.4 | 2,860.8 | 757.4 | 589.2 | 168.19 | 4.503 | | |
| 5,850.0 | 4,482.5 | 5,748.4 | 4,554.8 | 88.5 | 86.3 | -106.66 | 41.0 | 2,829.7 | 766.3 | 598.0 | 168.38 | 4.551 | | |
| 5,900.0 | 4,515.0 | 5,803.7 | 4,597.2 | 88.5 | 86.3 | -105.12 | 42.6 | 2,794.3 | 774.7 | 606.1 | 168.66 | 4.594 | | |
| 5,950.0 | 4,544.7 | 5,859.9 | 4,637.0 | 88.6 | 86.3 | -103.87 | 44.0 | 2,754.6 | 782.4 | 613.4 | 169.04 | 4.629 | | |
| 6,000.0 | 4,571.3 | 5,916.9 | 4,673.7 | 88.7 | 86.4 | -102.84 | 45.4 | 2,711.0 | 789.4 | 619.9 | 169.52 | 4.657 | | |
| 6,050.0 | 4,594.6 | 5,974.8 | 4,706.8 | 88.9 | 86.5 | -102.00 | 46.7 | 2,663.5 | 795.6 | 625.5 | 170.12 | 4.677 | | |

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Magpie Operating, Inc. | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 8-6H - Wellbore #1 - Plan #2 (12-06-18) | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | | |
| 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 | 35.056 | | | |
| 300.0 | 300.0 | 302.1 | 302.0 | 0.7 | 0.7 | 175.53 | -28.9 | 2.3 | 29.0 | 27.6 | 1.37 | 21.101 | | | |
| 308.7 | 308.7 | 310.7 | 310.7 | 0.7 | 0.7 | 96.31 | -28.9 | 2.7 | 29.0 | 27.6 | 1.42 | 20.425 CC | | | |
| 400.0 | 400.0 | 401.9 | 401.6 | 1.0 | 1.0 | 88.37 | -28.3 | 8.8 | 29.5 | 27.6 | 1.92 | 15.358 | | | |
| 500.0 | 499.7 | 501.5 | 500.7 | 1.2 | 1.3 | 80.30 | -27.2 | 19.7 | 31.0 | 28.5 | 2.52 | 12.320 | | | |
| 600.0 | 599.1 | 601.0 | 598.9 | 1.5 | 1.7 | 73.39 | -25.7 | 34.8 | 33.5 | 30.3 | 3.20 | 10.465 | | | |
| 700.0 | 698.0 | 700.0 | 696.0 | 1.9 | 2.2 | 67.84 | -23.7 | 54.1 | 36.8 | 32.8 | 3.99 | 9.234 | | | |
| 800.0 | 796.0 | 799.2 | 792.4 | 2.4 | 2.7 | 63.55 | -21.4 | 77.5 | 40.8 | 35.9 | 4.88 | 8.350 | | | |
| 900.0 | 893.2 | 898.1 | 887.3 | 2.9 | 3.4 | 60.36 | -18.6 | 105.0 | 45.2 | 39.3 | 5.89 | 7.674 | | | |
| 1,000.0 | 989.2 | 996.7 | 980.8 | 3.6 | 4.1 | 58.06 | -15.5 | 136.4 | 50.1 | 43.1 | 7.03 | 7.123 | | | |
| 1,100.0 | 1,083.9 | 1,095.2 | 1,072.6 | 4.3 | 5.0 | 56.45 | -11.9 | 171.8 | 55.3 | 47.0 | 8.32 | 6.652 | | | |
| 1,200.0 | 1,177.0 | 1,193.4 | 1,162.6 | 5.2 | 6.0 | 55.39 | -8.0 | 210.9 | 60.9 | 51.1 | 9.77 | 6.235 | | | |
| 1,300.0 | 1,268.6 | 1,291.5 | 1,250.7 | 6.2 | 7.1 | 54.76 | -3.7 | 253.8 | 66.8 | 55.4 | 11.39 | 5.859 | | | |
| 1,400.0 | 1,358.3 | 1,389.4 | 1,336.7 | 7.3 | 8.3 | 54.44 | 1.0 | 300.2 | 72.9 | 59.6 | 13.21 | 5.514 | | | |
| 1,500.0 | 1,445.9 | 1,487.1 | 1,420.5 | 8.5 | 9.6 | 54.38 | 6.0 | 350.2 | 79.2 | 64.0 | 15.24 | 5.197 | | | |
| 1,600.0 | 1,531.4 | 1,584.6 | 1,501.9 | 9.8 | 11.0 | 54.52 | 11.3 | 403.6 | 85.8 | 68.3 | 17.49 | 4.905 | | | |
| 1,700.0 | 1,614.5 | 1,681.9 | 1,580.8 | 11.3 | 12.6 | 54.80 | 17.0 | 460.3 | 92.6 | 72.6 | 19.97 | 4.637 | | | |
| 1,800.0 | 1,695.2 | 1,779.0 | 1,657.0 | 12.9 | 14.3 | 55.20 | 23.0 | 520.2 | 99.6 | 76.9 | 22.68 | 4.391 | | | |
| 1,900.0 | 1,773.2 | 1,876.0 | 1,730.6 | 14.6 | 16.1 | 55.69 | 29.3 | 583.1 | 106.8 | 81.2 | 25.64 | 4.165 | | | |
| 2,000.0 | 1,848.3 | 1,972.8 | 1,801.3 | 16.5 | 17.9 | 56.25 | 35.9 | 648.9 | 114.2 | 85.4 | 28.85 | 3.959 | | | |
| 2,100.0 | 1,920.6 | 2,069.5 | 1,869.0 | 18.4 | 20.0 | 56.85 | 42.8 | 717.6 | 121.8 | 89.5 | 32.32 | 3.770 | | | |
| 2,200.0 | 1,989.7 | 2,166.0 | 1,933.6 | 20.5 | 22.1 | 57.49 | 50.0 | 788.8 | 129.6 | 93.6 | 36.03 | 3.597 | | | |
| 2,300.0 | 2,055.6 | 2,262.4 | 1,995.1 | 22.7 | 24.3 | 58.15 | 57.4 | 862.7 | 137.6 | 97.6 | 40.00 | 3.439 | | | |
| 2,399.5 | 2,118.0 | 2,359.0 | 2,053.7 | 25.0 | 26.6 | 58.88 | 65.1 | 939.1 | 145.6 | 101.4 | 44.22 | 3.293 | | | |
| 2,500.0 | 2,179.1 | 2,459.1 | 2,113.4 | 27.4 | 29.1 | 60.04 | 73.1 | 1,019.1 | 153.3 | 104.5 | 48.86 | 3.138 | | | |
| 2,600.0 | 2,240.0 | 2,558.8 | 2,172.8 | 29.8 | 31.5 | 61.08 | 81.1 | 1,098.7 | 161.0 | 107.5 | 53.53 | 3.008 | | | |
| 2,700.0 | 2,300.9 | 2,658.5 | 2,232.3 | 32.2 | 34.0 | 62.03 | 89.0 | 1,178.3 | 168.8 | 110.6 | 58.23 | 2.899 | | | |
| 2,800.0 | 2,361.8 | 2,758.1 | 2,291.7 | 34.6 | 36.5 | 62.90 | 97.0 | 1,257.9 | 176.6 | 113.7 | 62.96 | 2.806 | | | |
| 2,900.0 | 2,422.7 | 2,857.8 | 2,351.2 | 37.0 | 39.0 | 63.69 | 105.0 | 1,337.4 | 184.5 | 116.8 | 67.71 | 2.725 | | | |
| 3,000.0 | 2,483.6 | 2,957.4 | 2,410.6 | 39.4 | 41.4 | 64.42 | 113.0 | 1,417.0 | 192.4 | 119.9 | 72.48 | 2.654 | | | |
| 3,100.0 | 2,544.5 | 3,057.1 | 2,470.1 | 41.8 | 43.9 | 65.09 | 121.0 | 1,496.6 | 200.3 | 123.0 | 77.27 | 2.592 | | | |
| 3,200.0 | 2,605.4 | 3,156.7 | 2,529.5 | 44.3 | 46.4 | 65.70 | 129.0 | 1,576.2 | 208.3 | 126.2 | 82.06 | 2.538 | | | |
| 3,300.0 | 2,666.3 | 3,256.4 | 2,589.0 | 46.7 | 48.9 | 66.28 | 136.9 | 1,655.8 | 216.2 | 129.4 | 86.87 | 2.489 | | | |
| 3,400.0 | 2,727.2 | 3,356.1 | 2,648.4 | 49.1 | 51.4 | 66.81 | 144.9 | 1,735.4 | 224.2 | 132.5 | 91.69 | 2.445 | | | |
| 3,500.0 | 2,788.0 | 3,455.7 | 2,707.9 | 51.5 | 53.9 | 67.31 | 152.9 | 1,815.0 | 232.2 | 135.7 | 96.51 | 2.406 | | | |
| 3,600.0 | 2,848.9 | 3,555.4 | 2,767.3 | 54.0 | 56.4 | 67.77 | 160.9 | 1,894.5 | 240.2 | 138.9 | 101.33 | 2.371 | | | |
| 3,700.0 | 2,909.8 | 3,655.0 | 2,826.8 | 56.4 | 58.8 | 68.20 | 168.9 | 1,974.1 | 248.3 | 142.1 | 106.17 | 2.339 | | | |
| 3,800.0 | 2,970.7 | 3,754.7 | 2,886.2 | 58.8 | 61.3 | 68.61 | 176.9 | 2,053.7 | 256.3 | 145.3 | 111.00 | 2.309 | | | |
| 3,900.0 | 3,031.6 | 3,854.4 | 2,945.7 | 61.3 | 63.8 | 68.99 | 184.8 | 2,133.3 | 264.4 | 148.5 | 115.84 | 2.282 | | | |
| 4,000.0 | 3,092.5 | 3,954.0 | 3,005.1 | 63.7 | 66.3 | 69.35 | 192.8 | 2,212.9 | 272.5 | 151.8 | 120.69 | 2.258 | | | |
| 4,100.0 | 3,153.4 | 4,053.7 | 3,064.6 | 66.1 | 68.8 | 69.68 | 200.8 | 2,292.5 | 280.5 | 155.0 | 125.53 | 2.235 | | | |
| 4,200.0 | 3,214.3 | 4,153.3 | 3,124.0 | 68.6 | 71.3 | 70.00 | 208.8 | 2,372.1 | 288.6 | 158.2 | 130.38 | 2.214 | | | |
| 4,300.0 | 3,275.2 | 4,253.0 | 3,183.5 | 71.0 | 73.8 | 70.31 | 216.8 | 2,451.6 | 296.7 | 161.5 | 135.23 | 2.194 | | | |
| 4,400.0 | 3,336.1 | 4,352.7 | 3,242.9 | 73.4 | 76.3 | 70.59 | 224.7 | 2,531.2 | 304.8 | 164.8 | 140.08 | 2.176 | | | |
| 4,500.0 | 3,397.0 | 4,452.3 | 3,302.4 | 75.9 | 78.8 | 70.86 | 232.7 | 2,610.8 | 312.9 | 168.0 | 144.93 | 2.159 | | | |
| 4,600.0 | 3,457.9 | 4,552.0 | 3,361.8 | 78.3 | 81.3 | 71.12 | 240.7 | 2,690.4 | 321.1 | 171.3 | 149.79 | 2.143 | | | |
| 4,700.0 | 3,518.8 | 4,684.8 | 3,450.2 | 80.8 | 84.2 | 73.26 | 252.7 | 2,788.5 | 324.5 | 167.9 | 156.62 | 2.072 | | | |
| 4,780.5 | 3,567.8 | 4,788.3 | 3,531.8 | 82.7 | 85.8 | 77.84 | 263.9 | 2,850.9 | 320.3 | 156.8 | 163.51 | 1.959 | | | |
| 4,800.0 | 3,579.9 | 4,812.0 | 3,551.9 | 83.2 | 86.1 | 79.56 | 266.7 | 2,863.2 | 318.9 | 153.9 | 164.93 | 1.933 | | | |
| 4,850.0 | 3,612.8 | 4,871.3 | 3,603.9 | 84.2 | 86.7 | 84.29 | 273.9 | 2,890.8 | 315.7 | 147.6 | 168.03 | 1.879 | | | |

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 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | 3,648.5 | 4,928.3 | 3,656.1 | 85.1 | 87.2 | 89.49 | 281.2 | 2,912.5 | 313.5 | 143.1 | 170.37 | 1.840 | | |
| 4,950.0 | 3,686.6 | 4,983.3 | 3,708.1 | 86.0 | 87.6 | 95.21 | 288.5 | 2,929.0 | 312.5 | 140.5 | 171.93 | 1.817 | | |
| 4,964.9 | 3,698.4 | 4,999.4 | 3,723.4 | 86.2 | 87.7 | 97.03 | 290.7 | 2,932.9 | 312.4 | 140.2 | 172.25 | 1.814 | | |
| 5,000.0 | 3,726.9 | 5,036.4 | 3,759.4 | 86.7 | 87.8 | 101.55 | 295.7 | 2,940.5 | 312.7 | 140.0 | 172.75 | 1.810 | | |
| 5,050.0 | 3,769.1 | 5,087.7 | 3,809.7 | 87.3 | 88.0 | 108.68 | 302.8 | 2,947.5 | 314.3 | 141.5 | 172.87 | 1.818 | | |
| 5,100.0 | 3,813.1 | 5,137.5 | 3,858.8 | 87.8 | 88.0 | 116.87 | 309.8 | 2,950.3 | 317.2 | 144.9 | 172.37 | 1.840 | | |
| 5,150.0 | 3,858.5 | 5,185.7 | 3,906.6 | 88.2 | 88.1 | 126.51 | 316.6 | 2,949.4 | 321.4 | 150.1 | 171.33 | 1.876 | | |
| 5,200.0 | 3,905.0 | 5,232.7 | 3,952.9 | 88.5 | 88.0 | 138.20 | 323.2 | 2,944.9 | 326.8 | 156.9 | 169.87 | 1.924 | | |
| 5,250.0 | 3,952.5 | 5,278.5 | 3,997.5 | 88.7 | 88.0 | 152.60 | 329.5 | 2,937.3 | 333.2 | 165.1 | 168.09 | 1.982 | | |
| 5,300.0 | 4,000.4 | 5,323.2 | 4,040.5 | 88.9 | 87.9 | 170.02 | 335.7 | 2,926.7 | 340.6 | 174.5 | 166.09 | 2.050 | | |
| 5,350.0 | 4,048.7 | 5,366.9 | 4,081.8 | 89.0 | 87.8 | -170.48 | 341.6 | 2,913.5 | 348.6 | 184.7 | 163.98 | 2.126 | | |
| 5,400.0 | 4,096.9 | 5,409.8 | 4,121.2 | 89.0 | 87.7 | -151.35 | 347.3 | 2,897.8 | 357.3 | 195.5 | 161.85 | 2.208 | | |
| 5,450.0 | 4,144.8 | 5,450.0 | 4,157.2 | 89.0 | 87.7 | -134.97 | 352.5 | 2,880.6 | 366.5 | 206.6 | 159.87 | 2.292 | | |
| 5,500.0 | 4,192.1 | 5,493.3 | 4,194.7 | 88.9 | 87.6 | -121.77 | 358.0 | 2,859.6 | 375.8 | 218.0 | 157.86 | 2.381 | | |
| 5,550.0 | 4,238.5 | 5,534.1 | 4,228.6 | 88.9 | 87.5 | -111.57 | 362.9 | 2,837.5 | 385.4 | 229.2 | 156.14 | 2.468 | | |
| 5,600.0 | 4,283.7 | 5,574.3 | 4,260.6 | 88.8 | 87.5 | -103.58 | 367.6 | 2,813.6 | 394.9 | 240.2 | 154.67 | 2.553 | | |
| 5,650.0 | 4,327.5 | 5,614.0 | 4,290.7 | 88.7 | 87.5 | -97.22 | 372.0 | 2,788.0 | 404.3 | 250.8 | 153.48 | 2.634 | | |
| 5,700.0 | 4,369.5 | 5,650.0 | 4,316.5 | 88.6 | 87.5 | -92.14 | 375.8 | 2,763.3 | 413.4 | 260.7 | 152.70 | 2.707 | | |
| 5,750.0 | 4,409.4 | 5,692.2 | 4,345.0 | 88.5 | 87.5 | -87.81 | 380.0 | 2,732.4 | 422.2 | 270.2 | 152.07 | 2.776 | | |
| 5,800.0 | 4,447.2 | 5,730.8 | 4,369.2 | 88.5 | 87.6 | -84.27 | 383.6 | 2,702.6 | 430.6 | 278.7 | 151.88 | 2.835 | | |
| 5,850.0 | 4,482.5 | 5,769.1 | 4,391.4 | 88.5 | 87.7 | -81.30 | 387.0 | 2,671.6 | 438.4 | 286.4 | 152.04 | 2.884 | | |
| 5,900.0 | 4,515.0 | 5,807.0 | 4,411.6 | 88.5 | 87.8 | -78.81 | 390.0 | 2,639.6 | 445.7 | 293.1 | 152.53 | 2.922 | | |
| 5,950.0 | 4,544.7 | 5,850.0 | 4,432.0 | 88.6 | 88.0 | -76.65 | 393.1 | 2,602.0 | 452.3 | 299.0 | 153.28 | 2.951 | | |
| 6,000.0 | 4,571.3 | 5,882.4 | 4,445.8 | 88.7 | 88.1 | -74.98 | 395.3 | 2,572.7 | 458.1 | 303.7 | 154.46 | 2.966 | | |
| 6,050.0 | 4,594.6 | 5,919.8 | 4,459.8 | 88.9 | 88.3 | -73.54 | 397.5 | 2,538.1 | 463.3 | 307.4 | 155.84 | 2.973 | | |
| 6,100.0 | 4,614.6 | 5,957.1 | 4,471.8 | 89.1 | 88.5 | -72.38 | 399.4 | 2,502.9 | 467.6 | 310.2 | 157.43 | 2.970 | | |
| 6,150.0 | 4,631.0 | 6,000.0 | 4,483.0 | 89.3 | 88.8 | -71.44 | 401.2 | 2,461.5 | 471.2 | 312.0 | 159.22 | 2.959 | | |
| 6,200.0 | 4,643.9 | 6,031.3 | 4,489.4 | 89.6 | 89.0 | -70.81 | 402.3 | 2,430.9 | 473.8 | 312.6 | 161.15 | 2.940 | | |
| 6,250.0 | 4,653.0 | 6,068.3 | 4,495.1 | 89.9 | 89.3 | -70.37 | 403.3 | 2,394.3 | 475.6 | 312.4 | 163.18 | 2.915 | | |
| 6,300.0 | 4,658.4 | 6,100.0 | 4,498.2 | 90.2 | 89.5 | -70.14 | 403.9 | 2,362.8 | 476.6 | 311.4 | 165.21 | 2.885 | | |
| 6,354.2 | 4,660.0 | 6,150.0 | 4,500.1 | 90.6 | 89.9 | -70.15 | 404.5 | 2,312.8 | 476.6 | 309.0 | 167.55 | 2.844 | | |
| 6,371.7 | 4,659.8 | 6,158.5 | 4,500.0 | 90.7 | 90.0 | -70.15 | 404.5 | 2,304.4 | 476.5 | 308.7 | 167.76 | 2.840 | | |
| 6,400.0 | 4,659.5 | 6,186.7 | 4,499.6 | 90.9 | 90.3 | -70.14 | 404.6 | 2,276.1 | 476.5 | 308.3 | 168.20 | 2.833 | | |
| 6,500.0 | 4,658.3 | 6,286.7 | 4,498.0 | 91.8 | 91.2 | -70.09 | 405.0 | 2,176.2 | 476.5 | 306.5 | 169.93 | 2.804 | | |
| 6,600.0 | 4,657.1 | 6,386.7 | 4,496.5 | 92.7 | 92.2 | -70.05 | 405.3 | 2,076.2 | 476.5 | 304.6 | 171.88 | 2.772 | | |
| 6,700.0 | 4,655.9 | 6,486.7 | 4,494.9 | 93.8 | 93.4 | -70.00 | 405.7 | 1,976.2 | 476.5 | 302.5 | 174.05 | 2.738 | | |
| 6,800.0 | 4,654.7 | 6,586.7 | 4,493.4 | 95.0 | 94.6 | -69.96 | 406.0 | 1,876.2 | 476.5 | 300.1 | 176.43 | 2.701 | | |
| 6,900.0 | 4,653.5 | 6,686.7 | 4,491.8 | 96.3 | 96.0 | -69.91 | 406.4 | 1,776.2 | 476.6 | 297.5 | 179.01 | 2.662 | | |
| 7,000.0 | 4,652.3 | 6,786.7 | 4,490.3 | 97.7 | 97.5 | -69.87 | 406.7 | 1,676.2 | 476.6 | 294.8 | 181.79 | 2.622 | | |
| 7,100.0 | 4,651.1 | 6,886.7 | 4,488.7 | 99.2 | 99.0 | -69.83 | 407.1 | 1,576.2 | 476.6 | 291.9 | 184.74 | 2.580 | | |
| 7,200.0 | 4,649.9 | 6,986.7 | 4,487.2 | 100.7 | 100.7 | -69.78 | 407.4 | 1,476.3 | 476.6 | 288.7 | 187.87 | 2.537 | | |
| 7,300.0 | 4,648.7 | 7,086.7 | 4,485.6 | 102.4 | 102.5 | -69.74 | 407.8 | 1,376.3 | 476.6 | 285.5 | 191.17 | 2.493 | | |
| 7,400.0 | 4,647.5 | 7,186.7 | 4,484.1 | 104.2 | 104.3 | -69.69 | 408.1 | 1,276.3 | 476.7 | 282.0 | 194.62 | 2.449 | | |
| 7,500.0 | 4,646.3 | 7,286.7 | 4,482.6 | 106.1 | 106.2 | -69.65 | 408.5 | 1,176.3 | 476.7 | 278.5 | 198.22 | 2.405 | | |
| 7,600.0 | 4,645.1 | 7,386.7 | 4,481.0 | 108.0 | 108.2 | -69.60 | 408.9 | 1,076.3 | 476.7 | 274.7 | 201.96 | 2.360 | | |
| 7,700.0 | 4,643.9 | 7,486.7 | 4,479.5 | 110.0 | 110.3 | -69.56 | 409.2 | 976.3 | 476.7 | 270.9 | 205.84 | 2.316 | | |
| 7,800.0 | 4,642.7 | 7,586.7 | 4,477.9 | 112.1 | 112.4 | -69.52 | 409.6 | 876.3 | 476.7 | 266.9 | 209.83 | 2.272 | | |
| 7,900.0 | 4,641.5 | 7,686.7 | 4,476.4 | 114.2 | 114.6 | -69.47 | 409.9 | 776.3 | 476.8 | 262.8 | 213.95 | 2.228 | | |
| 8,000.0 | 4,640.4 | 7,786.7 | 4,474.8 | 116.5 | 116.9 | -69.43 | 410.3 | 676.4 | 476.8 | 258.6 | 218.17 | 2.185 | | |
| 8,100.0 | 4,639.2 | 7,886.7 | 4,473.3 | 118.7 | 119.2 | -69.38 | 410.6 | 576.4 | 476.8 | 254.3 | 222.50 | 2.143 | | |
| 8,200.0 | 4,638.0 | 7,986.7 | 4,471.7 | 121.1 | 121.5 | -69.34 | 411.0 | 476.4 | 476.8 | 249.9 | 226.92 | 2.101 | | |
| 8,300.0 | 4,636.8 | 8,086.7 | 4,470.2 | 123.4 | 124.0 | -69.29 | 411.3 | 376.4 | 476.9 | 245.4 | 231.44 | 2.060 | | |

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 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | | |
| 8,400.0 | 4,635.6 | 8,186.7 | 4,468.6 | 125.9 | 126.4 | -69.25 | 411.7 | 276.4 | 476.9 | 240.9 | 236.04 | 2.020 | | | |
| 8,500.0 | 4,634.4 | 8,286.7 | 4,467.1 | 128.4 | 128.9 | -69.21 | 412.0 | 176.4 | 476.9 | 236.2 | 240.72 | 1.981 | | | |
| 8,600.0 | 4,633.2 | 8,386.7 | 4,465.5 | 130.9 | 131.5 | -69.16 | 412.4 | 76.4 | 476.9 | 231.5 | 245.48 | 1.943 | | | |
| 8,700.0 | 4,632.0 | 8,486.7 | 4,464.0 | 133.5 | 134.1 | -69.12 | 412.8 | -23.5 | 477.0 | 226.7 | 250.30 | 1.906 | | | |
| 8,800.0 | 4,630.8 | 8,586.7 | 4,462.5 | 136.1 | 136.7 | -69.07 | 413.1 | -123.5 | 477.0 | 221.8 | 255.20 | 1.869 | | | |
| 8,900.0 | 4,629.6 | 8,686.7 | 4,460.9 | 138.7 | 139.4 | -69.03 | 413.5 | -223.5 | 477.0 | 216.9 | 260.16 | 1.834 | | | |
| 9,000.0 | 4,628.4 | 8,786.7 | 4,459.4 | 141.4 | 142.1 | -68.99 | 413.8 | -323.5 | 477.0 | 211.9 | 265.17 | 1.799 | | | |
| 9,100.0 | 4,627.2 | 8,886.7 | 4,457.8 | 144.1 | 144.8 | -68.94 | 414.2 | -423.5 | 477.1 | 206.8 | 270.25 | 1.765 | | | |
| 9,200.0 | 4,626.0 | 8,986.7 | 4,456.3 | 146.9 | 147.6 | -68.90 | 414.5 | -523.5 | 477.1 | 201.7 | 275.37 | 1.733 | | | |
| 9,300.0 | 4,624.8 | 9,086.7 | 4,454.7 | 149.7 | 150.4 | -68.85 | 414.9 | -623.5 | 477.1 | 196.6 | 280.54 | 1.701 | | | |
| 9,400.0 | 4,623.6 | 9,186.7 | 4,453.2 | 152.5 | 153.2 | -68.81 | 415.2 | -723.5 | 477.1 | 191.4 | 285.76 | 1.670 | | | |
| 9,500.0 | 4,622.4 | 9,286.7 | 4,451.6 | 155.3 | 156.0 | -68.76 | 415.6 | -823.4 | 477.2 | 186.1 | 291.03 | 1.640 | | | |
| 9,600.0 | 4,621.3 | 9,386.7 | 4,450.1 | 158.1 | 158.9 | -68.72 | 415.9 | -923.4 | 477.2 | 180.9 | 296.33 | 1.610 | | | |
| 9,700.0 | 4,620.1 | 9,486.7 | 4,448.5 | 161.0 | 161.8 | -68.68 | 416.3 | -1,023.4 | 477.2 | 175.6 | 301.67 | 1.582 | | | |
| 9,800.0 | 4,618.9 | 9,586.7 | 4,447.0 | 163.9 | 164.7 | -68.63 | 416.6 | -1,123.4 | 477.3 | 170.2 | 307.05 | 1.554 | | | |
| 9,900.0 | 4,617.7 | 9,686.7 | 4,445.4 | 166.9 | 167.6 | -68.59 | 417.0 | -1,223.4 | 477.3 | 164.8 | 312.46 | 1.527 | | | |
| 10,000.0 | 4,616.5 | 9,786.7 | 4,443.9 | 169.8 | 170.6 | -68.54 | 417.4 | -1,323.4 | 477.3 | 159.4 | 317.90 | 1.501 | | | |
| 10,100.0 | 4,615.3 | 9,886.7 | 4,442.4 | 172.8 | 173.6 | -68.50 | 417.7 | -1,423.4 | 477.3 | 154.0 | 323.38 | 1.476 Level 3 | | | |
| 10,200.0 | 4,614.1 | 9,986.7 | 4,440.8 | 175.7 | 176.5 | -68.46 | 418.1 | -1,523.3 | 477.4 | 148.5 | 328.88 | 1.451 Level 3 | | | |
| 10,300.0 | 4,612.9 | 10,086.7 | 4,439.3 | 178.7 | 179.5 | -68.41 | 418.4 | -1,623.3 | 477.4 | 143.0 | 334.41 | 1.428 Level 3 | | | |
| 10,400.0 | 4,611.7 | 10,186.7 | 4,437.7 | 181.7 | 182.6 | -68.37 | 418.8 | -1,723.3 | 477.4 | 137.5 | 339.97 | 1.404 Level 3 | | | |
| 10,500.0 | 4,610.5 | 10,286.7 | 4,436.2 | 184.8 | 185.6 | -68.32 | 419.1 | -1,823.3 | 477.5 | 131.9 | 345.54 | 1.382 Level 3 | | | |
| 10,600.0 | 4,609.3 | 10,386.7 | 4,434.6 | 187.8 | 188.6 | -68.28 | 419.5 | -1,923.3 | 477.5 | 126.3 | 351.15 | 1.360 Level 3 | | | |
| 10,700.0 | 4,608.1 | 10,486.7 | 4,433.1 | 190.9 | 191.7 | -68.24 | 419.8 | -2,023.3 | 477.5 | 120.7 | 356.77 | 1.338 Level 3 | | | |
| 10,800.0 | 4,606.9 | 10,586.7 | 4,431.5 | 193.9 | 194.8 | -68.19 | 420.2 | -2,123.3 | 477.5 | 115.1 | 362.41 | 1.318 Level 3 | | | |
| 10,900.0 | 4,605.7 | 10,686.7 | 4,430.0 | 197.0 | 197.9 | -68.15 | 420.5 | -2,223.3 | 477.6 | 109.5 | 368.07 | 1.298 Level 3 | | | |
| 11,000.0 | 4,604.5 | 10,786.7 | 4,428.4 | 200.1 | 201.0 | -68.10 | 420.9 | -2,323.2 | 477.6 | 103.9 | 373.75 | 1.278 Level 3 | | | |
| 11,100.0 | 4,603.4 | 10,886.7 | 4,426.9 | 203.2 | 204.1 | -68.06 | 421.3 | -2,423.2 | 477.6 | 98.2 | 379.45 | 1.259 Level 3 | | | |
| 11,200.0 | 4,602.2 | 10,986.7 | 4,425.3 | 206.3 | 207.2 | -68.01 | 421.6 | -2,523.2 | 477.7 | 92.5 | 385.16 | 1.240 Level 2 | | | |
| 11,300.0 | 4,601.0 | 11,086.7 | 4,423.8 | 209.5 | 210.3 | -67.97 | 422.0 | -2,623.2 | 477.7 | 86.8 | 390.89 | 1.222 Level 2 | | | |
| 11,400.0 | 4,599.8 | 11,186.7 | 4,422.3 | 212.6 | 213.4 | -67.93 | 422.3 | -2,723.2 | 477.7 | 81.1 | 396.63 | 1.204 Level 2 | | | |
| 11,500.0 | 4,598.6 | 11,286.7 | 4,420.7 | 215.7 | 216.6 | -67.88 | 422.7 | -2,823.2 | 477.8 | 75.4 | 402.38 | 1.187 Level 2 | | | |
| 11,600.0 | 4,597.4 | 11,386.7 | 4,419.2 | 218.9 | 219.7 | -67.84 | 423.0 | -2,923.2 | 477.8 | 69.7 | 408.15 | 1.171 Level 2 | | | |
| 11,700.0 | 4,596.2 | 11,486.7 | 4,417.6 | 222.1 | 222.9 | -67.79 | 423.4 | -3,023.2 | 477.8 | 63.9 | 413.93 | 1.154 Level 2 | | | |
| 11,800.0 | 4,595.0 | 11,586.7 | 4,416.1 | 225.2 | 226.1 | -67.75 | 423.7 | -3,123.1 | 477.9 | 58.1 | 419.72 | 1.139 Level 2 | | | |
| 11,900.0 | 4,593.8 | 11,686.7 | 4,414.5 | 228.4 | 229.3 | -67.71 | 424.1 | -3,223.1 | 477.9 | 52.4 | 425.52 | 1.123 Level 2 | | | |
| 12,000.0 | 4,592.6 | 11,786.7 | 4,413.0 | 231.6 | 232.4 | -67.66 | 424.4 | -3,323.1 | 477.9 | 46.6 | 431.33 | 1.108 Level 2 | | | |
| 12,100.0 | 4,591.4 | 11,886.7 | 4,411.4 | 234.8 | 235.6 | -67.62 | 424.8 | -3,423.1 | 478.0 | 40.8 | 437.15 | 1.093 Level 2 | | | |
| 12,200.0 | 4,590.2 | 11,986.7 | 4,409.9 | 238.0 | 238.8 | -67.57 | 425.2 | -3,523.1 | 478.0 | 35.0 | 442.98 | 1.079 Level 2 | | | |
| 12,300.0 | 4,589.0 | 12,086.7 | 4,408.3 | 241.2 | 242.0 | -67.53 | 425.5 | -3,623.1 | 478.0 | 29.2 | 448.82 | 1.065 Level 2 | | | |
| 12,400.0 | 4,587.8 | 12,186.7 | 4,406.8 | 244.4 | 245.3 | -67.49 | 425.9 | -3,723.1 | 478.1 | 23.4 | 454.67 | 1.051 Level 2 | | | |
| 12,500.0 | 4,586.6 | 12,286.7 | 4,405.2 | 247.6 | 248.5 | -67.44 | 426.2 | -3,823.0 | 478.1 | 17.6 | 460.52 | 1.038 Level 2 | | | |
| 12,600.0 | 4,585.4 | 12,386.7 | 4,403.7 | 250.8 | 251.7 | -67.40 | 426.6 | -3,923.0 | 478.1 | 11.8 | 466.38 | 1.025 Level 2 | | | |
| 12,700.0 | 4,584.3 | 12,486.6 | 4,402.2 | 254.1 | 254.9 | -67.35 | 426.9 | -4,023.0 | 478.2 | 5.9 | 472.24 | 1.013 Level 2 | | | |
| 12,800.0 | 4,583.1 | 12,586.6 | 4,400.6 | 257.3 | 258.2 | -67.31 | 427.3 | -4,123.0 | 478.2 | 0.1 | 478.12 | 1.000 Level 2 | | | |
| 12,900.0 | 4,581.9 | 12,686.6 | 4,399.1 | 260.6 | 261.4 | -67.27 | 427.6 | -4,223.0 | 478.3 | -5.7 | 484.00 | 0.988 Level 1 | | | |
| 13,000.0 | 4,580.7 | 12,786.6 | 4,397.5 | 263.8 | 264.7 | -67.22 | 428.0 | -4,323.0 | 478.3 | -11.6 | 489.88 | 0.976 Level 1 | | | |
| 13,100.0 | 4,579.5 | 12,886.6 | 4,396.0 | 267.1 | 267.9 | -67.18 | 428.3 | -4,423.0 | 478.3 | -17.4 | 495.77 | 0.965 Level 1 | | | |
| 13,200.0 | 4,578.3 | 12,986.6 | 4,394.4 | 270.3 | 271.2 | -67.13 | 428.7 | -4,523.0 | 478.4 | -23.3 | 501.66 | 0.954 Level 1 | | | |
| 13,300.0 | 4,577.1 | 13,086.6 | 4,392.9 | 273.6 | 274.4 | -67.09 | 429.0 | -4,622.9 | 478.4 | -29.2 | 507.56 | 0.943 Level 1 | | | |
| 13,400.0 | 4,575.9 | 13,186.6 | 4,391.3 | 276.8 | 277.7 | -67.05 | 429.4 | -4,722.9 | 478.4 | -35.0 | 513.46 | 0.932 Level 1 | | | |
| 13,500.0 | 4,574.7 | 13,286.6 | 4,389.8 | 280.1 | 281.0 | -67.00 | 429.8 | -4,822.9 | 478.5 | -40.9 | 519.37 | 0.921 Level 1 | | | |

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 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | | |
| 13,600.0 | 4,573.5 | 13,386.6 | 4,388.2 | 283.4 | 284.2 | -66.96 | 430.1 | -4,922.9 | 478.5 | -46.8 | 525.28 | 0.911 | Level 1 | |
| 13,700.0 | 4,572.3 | 13,486.6 | 4,386.7 | 286.7 | 287.5 | -66.92 | 430.5 | -5,022.9 | 478.6 | -52.6 | 531.19 | 0.901 | Level 1 | |
| 13,800.0 | 4,571.1 | 13,586.6 | 4,385.1 | 289.9 | 290.8 | -66.87 | 430.8 | -5,122.9 | 478.6 | -58.5 | 537.10 | 0.891 | Level 1 | |
| 13,900.0 | 4,569.9 | 13,686.6 | 4,383.6 | 293.2 | 294.1 | -66.83 | 431.2 | -5,222.9 | 478.6 | -64.4 | 543.02 | 0.881 | Level 1 | |
| 14,000.0 | 4,568.7 | 13,786.6 | 4,382.1 | 296.5 | 297.4 | -66.78 | 431.5 | -5,322.8 | 478.7 | -70.3 | 548.94 | 0.872 | Level 1 | |
| 14,100.0 | 4,567.5 | 13,886.6 | 4,380.5 | 299.8 | 300.7 | -66.74 | 431.9 | -5,422.8 | 478.7 | -76.1 | 554.86 | 0.863 | Level 1 | |
| 14,200.0 | 4,566.3 | 13,986.6 | 4,379.0 | 303.1 | 304.0 | -66.70 | 432.2 | -5,522.8 | 478.8 | -82.0 | 560.79 | 0.854 | Level 1 | |
| 14,300.0 | 4,565.2 | 14,086.6 | 4,377.4 | 306.4 | 307.3 | -66.65 | 432.6 | -5,622.8 | 478.8 | -87.9 | 566.72 | 0.845 | Level 1 | |
| 14,400.0 | 4,564.0 | 14,186.6 | 4,375.9 | 309.7 | 310.6 | -66.61 | 432.9 | -5,722.8 | 478.8 | -93.8 | 572.64 | 0.836 | Level 1 | |
| 14,500.0 | 4,562.8 | 14,286.6 | 4,374.3 | 313.0 | 313.9 | -66.56 | 433.3 | -5,822.8 | 478.9 | -99.7 | 578.57 | 0.828 | Level 1 | |
| 14,600.0 | 4,561.6 | 14,386.6 | 4,372.8 | 316.3 | 317.2 | -66.52 | 433.7 | -5,922.8 | 478.9 | -105.6 | 584.50 | 0.819 | Level 1 | |
| 14,700.0 | 4,560.4 | 14,486.6 | 4,371.2 | 319.6 | 320.5 | -66.48 | 434.0 | -6,022.8 | 479.0 | -111.5 | 590.44 | 0.811 | Level 1 | |
| 14,751.8 | 4,559.8 | 14,538.4 | 4,370.4 | 321.3 | 322.2 | -66.45 | 434.2 | -6,074.5 | 479.0 | -114.5 | 593.51 | 0.807 | Level 1 | |
| 14,800.0 | 4,559.2 | 14,566.1 | 4,370.0 | 322.9 | 323.1 | -66.44 | 434.3 | -6,102.3 | 479.4 | -116.3 | 595.78 | 0.805 | Level 1, ES, SF | |
| 14,900.0 | 4,558.0 | 14,566.1 | 4,370.0 | 326.3 | 323.1 | -66.44 | 434.3 | -6,102.3 | 494.0 | -104.9 | 598.84 | 0.825 | Level 1 | |
| 15,000.0 | 4,556.8 | 14,566.1 | 4,370.0 | 329.6 | 323.1 | -66.44 | 434.3 | -6,102.3 | 527.4 | -74.5 | 601.90 | 0.876 | Level 1 | |
| 15,100.0 | 4,555.6 | 14,566.1 | 4,370.0 | 332.9 | 323.1 | -66.44 | 434.3 | -6,102.3 | 576.4 | -28.5 | 604.96 | 0.953 | Level 1 | |
| 15,200.0 | 4,554.4 | 14,566.1 | 4,370.0 | 336.2 | 323.1 | -66.44 | 434.3 | -6,102.3 | 637.5 | 29.5 | 608.03 | 1.048 | Level 2 | |
| 15,300.0 | 4,553.2 | 14,566.1 | 4,370.0 | 339.5 | 323.1 | -66.44 | 434.3 | -6,102.3 | 707.5 | 96.4 | 611.10 | 1.158 | Level 2 | |
| 15,400.0 | 4,552.0 | 14,566.1 | 4,370.0 | 342.9 | 323.1 | -66.44 | 434.3 | -6,102.3 | 784.0 | 169.9 | 614.16 | 1.277 | Level 3 | |

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Maggie Operating, Inc. | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 8-8H - 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 29.1 | 0.0 | 29.2 | | | | | |
| 100.0 | 100.0 | 98.0 | 98.0 | 0.1 | 0.1 | 0.00 | 29.1 | 0.0 | 29.1 | 28.9 | 0.27 | 106.903 | | |
| 200.0 | 200.0 | 198.0 | 198.0 | 0.4 | 0.4 | 0.00 | 29.1 | 0.0 | 29.1 | 28.3 | 0.82 | 35.515 | | |
| 300.0 | 300.0 | 298.0 | 298.0 | 0.7 | 0.7 | 0.00 | 29.1 | 0.0 | 29.1 | 27.8 | 1.37 | 21.252 | | |
| 400.0 | 400.0 | 398.0 | 398.0 | 1.0 | 1.0 | -82.72 | 29.1 | 0.0 | 28.8 | 26.9 | 1.91 | 15.052 | | |
| 447.7 | 447.6 | 445.5 | 445.5 | 1.1 | 1.1 | -86.94 | 29.3 | 0.4 | 28.6 | 26.5 | 2.17 | 13.199 CC | | |
| 500.0 | 499.7 | 497.7 | 497.6 | 1.2 | 1.2 | -91.61 | 29.8 | 2.0 | 28.8 | 26.4 | 2.45 | 11.746 | | |
| 600.0 | 599.1 | 597.5 | 597.3 | 1.5 | 1.5 | -100.16 | 31.8 | 8.1 | 30.1 | 27.0 | 3.04 | 9.880 | | |
| 700.0 | 698.0 | 697.6 | 696.8 | 1.9 | 1.8 | -107.64 | 35.3 | 18.3 | 32.4 | 28.7 | 3.72 | 8.723 | | |
| 800.0 | 796.0 | 797.8 | 795.8 | 2.4 | 2.2 | -113.69 | 40.1 | 32.7 | 35.7 | 31.2 | 4.49 | 7.957 | | |
| 900.0 | 893.2 | 898.3 | 894.3 | 2.9 | 2.6 | -118.32 | 46.2 | 51.2 | 39.9 | 34.5 | 5.38 | 7.409 | | |
| 1,000.0 | 989.2 | 998.8 | 992.1 | 3.6 | 3.1 | -121.70 | 53.8 | 73.8 | 44.6 | 38.2 | 6.39 | 6.981 | | |
| 1,100.0 | 1,083.9 | 1,099.6 | 1,088.8 | 4.3 | 3.8 | -124.06 | 62.7 | 100.5 | 49.9 | 42.4 | 7.55 | 6.618 | | |
| 1,200.0 | 1,177.0 | 1,200.5 | 1,184.4 | 5.2 | 4.5 | -125.63 | 73.0 | 131.3 | 55.7 | 46.9 | 8.86 | 6.290 | | |
| 1,300.0 | 1,268.6 | 1,301.6 | 1,278.5 | 6.2 | 5.4 | -126.60 | 84.6 | 166.1 | 62.0 | 51.6 | 10.35 | 5.984 | | |
| 1,400.0 | 1,358.3 | 1,402.9 | 1,371.2 | 7.3 | 6.3 | -127.10 | 97.5 | 204.8 | 68.6 | 56.5 | 12.04 | 5.693 | | |
| 1,500.0 | 1,445.9 | 1,504.3 | 1,462.0 | 8.5 | 7.4 | -127.24 | 111.8 | 247.5 | 75.5 | 61.6 | 13.95 | 5.416 | | |
| 1,600.0 | 1,531.4 | 1,605.8 | 1,551.0 | 9.8 | 8.7 | -127.11 | 127.3 | 294.0 | 82.9 | 66.8 | 16.08 | 5.154 | | |
| 1,700.0 | 1,614.5 | 1,707.5 | 1,637.7 | 11.3 | 10.0 | -126.78 | 144.1 | 344.3 | 90.5 | 72.1 | 18.45 | 4.907 | | |
| 1,800.0 | 1,695.2 | 1,809.3 | 1,722.2 | 12.9 | 11.5 | -126.29 | 162.1 | 398.2 | 98.5 | 77.4 | 21.07 | 4.675 | | |
| 1,900.0 | 1,773.2 | 1,911.3 | 1,804.1 | 14.6 | 13.1 | -125.68 | 181.3 | 455.8 | 106.8 | 82.8 | 23.94 | 4.460 | | |
| 2,000.0 | 1,848.3 | 2,013.4 | 1,883.4 | 16.5 | 14.8 | -124.98 | 201.7 | 516.8 | 115.4 | 88.3 | 27.08 | 4.260 | | |
| 2,100.0 | 1,920.6 | 2,115.6 | 1,959.8 | 18.4 | 16.7 | -124.22 | 223.2 | 581.2 | 124.3 | 93.8 | 30.49 | 4.076 | | |
| 2,200.0 | 1,989.7 | 2,218.0 | 2,033.2 | 20.5 | 18.7 | -123.40 | 245.8 | 648.8 | 133.5 | 99.3 | 34.16 | 3.907 | | |
| 2,300.0 | 2,055.6 | 2,320.5 | 2,103.5 | 22.7 | 20.8 | -122.55 | 269.4 | 719.6 | 142.9 | 104.8 | 38.10 | 3.752 | | |
| 2,399.5 | 2,118.0 | 2,422.6 | 2,170.1 | 25.0 | 23.0 | -121.68 | 294.0 | 793.0 | 152.6 | 110.3 | 42.28 | 3.610 | | |
| 2,500.0 | 2,179.1 | 2,524.7 | 2,233.3 | 27.4 | 25.3 | -120.41 | 319.3 | 869.0 | 161.7 | 114.8 | 46.91 | 3.446 | | |
| 2,600.0 | 2,240.0 | 2,624.2 | 2,294.3 | 29.8 | 27.6 | -119.00 | 344.3 | 943.6 | 170.3 | 118.7 | 51.65 | 3.298 | | |
| 2,700.0 | 2,300.9 | 2,723.7 | 2,355.2 | 32.2 | 30.0 | -117.73 | 369.2 | 1,018.3 | 179.0 | 122.6 | 56.42 | 3.174 | | |
| 2,800.0 | 2,361.8 | 2,823.3 | 2,416.1 | 34.6 | 32.3 | -116.58 | 394.2 | 1,093.0 | 187.9 | 126.7 | 61.21 | 3.069 | | |
| 2,900.0 | 2,422.7 | 2,922.8 | 2,477.0 | 37.0 | 34.6 | -115.53 | 419.1 | 1,167.7 | 196.8 | 130.7 | 66.02 | 2.980 | | |
| 3,000.0 | 2,483.6 | 3,022.4 | 2,537.9 | 39.4 | 37.0 | -114.57 | 444.0 | 1,242.3 | 205.7 | 134.9 | 70.84 | 2.904 | | |
| 3,100.0 | 2,544.5 | 3,121.9 | 2,598.8 | 41.8 | 39.3 | -113.69 | 469.0 | 1,317.0 | 214.7 | 139.0 | 75.67 | 2.837 | | |
| 3,200.0 | 2,605.4 | 3,221.5 | 2,659.8 | 44.3 | 41.7 | -112.89 | 493.9 | 1,391.7 | 223.7 | 143.2 | 80.51 | 2.779 | | |
| 3,300.0 | 2,666.3 | 3,321.0 | 2,720.7 | 46.7 | 44.0 | -112.14 | 518.8 | 1,466.3 | 232.8 | 147.5 | 85.35 | 2.728 | | |
| 3,400.0 | 2,727.2 | 3,420.5 | 2,781.6 | 49.1 | 46.4 | -111.45 | 543.8 | 1,541.0 | 242.0 | 151.8 | 90.19 | 2.683 | | |
| 3,500.0 | 2,788.0 | 3,520.1 | 2,842.5 | 51.5 | 48.7 | -110.81 | 568.7 | 1,615.7 | 251.1 | 156.1 | 95.04 | 2.642 | | |
| 3,600.0 | 2,848.9 | 3,619.6 | 2,903.4 | 54.0 | 51.1 | -110.22 | 593.7 | 1,690.4 | 260.3 | 160.4 | 99.88 | 2.606 | | |
| 3,700.0 | 2,909.8 | 3,719.2 | 2,964.3 | 56.4 | 53.4 | -109.67 | 618.6 | 1,765.0 | 269.5 | 164.8 | 104.73 | 2.573 | | |
| 3,800.0 | 2,970.7 | 3,818.7 | 3,025.3 | 58.8 | 55.8 | -109.15 | 643.5 | 1,839.7 | 278.7 | 169.2 | 109.58 | 2.544 | | |
| 3,900.0 | 3,031.6 | 3,918.3 | 3,086.2 | 61.3 | 58.2 | -108.67 | 668.5 | 1,914.4 | 288.0 | 173.6 | 114.43 | 2.517 | | |
| 4,000.0 | 3,092.5 | 4,017.8 | 3,147.1 | 63.7 | 60.5 | -108.21 | 693.4 | 1,989.1 | 297.3 | 178.0 | 119.27 | 2.492 | | |
| 4,100.0 | 3,153.4 | 4,117.3 | 3,208.0 | 66.1 | 62.9 | -107.79 | 718.3 | 2,063.7 | 306.6 | 182.4 | 124.12 | 2.470 | | |
| 4,200.0 | 3,214.3 | 4,216.9 | 3,268.9 | 68.6 | 65.2 | -107.39 | 743.3 | 2,138.4 | 315.9 | 186.9 | 128.96 | 2.449 | | |
| 4,300.0 | 3,275.2 | 4,316.4 | 3,329.8 | 71.0 | 67.6 | -107.01 | 768.2 | 2,213.1 | 325.2 | 191.4 | 133.81 | 2.430 | | |
| 4,400.0 | 3,336.1 | 4,416.0 | 3,390.8 | 73.4 | 70.0 | -106.65 | 793.2 | 2,287.7 | 334.5 | 195.9 | 138.65 | 2.413 | | |
| 4,500.0 | 3,397.0 | 4,515.5 | 3,451.7 | 75.9 | 72.3 | -106.31 | 818.1 | 2,362.4 | 343.9 | 200.4 | 143.49 | 2.396 | | |
| 4,600.0 | 3,457.9 | 4,615.0 | 3,512.6 | 78.3 | 74.7 | -106.00 | 843.0 | 2,437.1 | 353.2 | 204.9 | 148.34 | 2.381 | | |
| 4,700.0 | 3,518.8 | 4,714.6 | 3,573.5 | 80.8 | 77.1 | -105.69 | 868.0 | 2,511.8 | 362.6 | 209.4 | 153.18 | 2.367 | | |
| 4,780.5 | 3,567.8 | 4,794.8 | 3,622.6 | 82.7 | 79.0 | -105.46 | 888.0 | 2,571.9 | 370.1 | 213.1 | 157.07 | 2.356 | | |
| 4,800.0 | 3,579.9 | 4,814.1 | 3,634.4 | 83.2 | 79.4 | -105.03 | 892.9 | 2,586.4 | 371.8 | 213.7 | 158.06 | 2.352 | | |
| 4,850.0 | 3,612.8 | 4,863.9 | 3,664.9 | 84.2 | 80.6 | -103.29 | 905.4 | 2,623.8 | 374.5 | 213.9 | 160.62 | 2.332 | | |

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 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 8-8H - 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) | | | |
| 4,900.0 | 3,648.5 | 4,913.4 | 3,695.2 | 85.1 | 81.8 | -100.59 | 917.8 | 2,660.9 | 375.1 | 211.9 | 163.23 | 2.298 | | |
| 4,950.0 | 3,686.6 | 4,962.3 | 3,725.1 | 86.0 | 83.0 | -96.83 | 930.0 | 2,697.6 | 373.8 | 208.0 | 165.80 | 2.255 | | |
| 5,000.0 | 3,726.9 | 5,010.3 | 3,754.5 | 86.7 | 84.1 | -91.90 | 942.1 | 2,733.6 | 370.8 | 202.6 | 168.24 | 2.204 | | |
| 5,050.0 | 3,769.1 | 5,050.0 | 3,778.9 | 87.3 | 85.0 | -86.06 | 952.1 | 2,763.2 | 366.7 | 196.7 | 170.07 | 2.156 | | |
| 5,100.0 | 3,813.1 | 5,087.4 | 3,803.2 | 87.8 | 85.8 | -79.08 | 962.0 | 2,789.8 | 362.9 | 191.6 | 171.34 | 2.118 | | |
| 5,150.0 | 3,858.5 | 5,123.7 | 3,828.1 | 88.2 | 86.5 | -70.53 | 972.3 | 2,814.2 | 359.8 | 187.6 | 172.17 | 2.090 | | |
| 5,200.0 | 3,905.0 | 5,160.6 | 3,854.7 | 88.5 | 87.1 | -59.74 | 983.2 | 2,837.3 | 357.4 | 184.8 | 172.62 | 2.071 | | |
| 5,250.0 | 3,952.5 | 5,200.0 | 3,884.4 | 88.7 | 87.8 | -45.89 | 995.5 | 2,860.1 | 356.0 | 183.3 | 172.73 | 2.061 | | |
| 5,286.4 | 3,987.4 | 5,225.7 | 3,904.5 | 88.9 | 88.1 | -33.98 | 1,003.8 | 2,873.9 | 355.7 | 183.2 | 172.53 | 2.062 | | |
| 5,300.0 | 4,000.4 | 5,236.1 | 3,912.7 | 88.9 | 88.3 | -29.09 | 1,007.2 | 2,879.2 | 355.8 | 183.3 | 172.44 | 2.063 | | |
| 5,350.0 | 4,048.7 | 5,275.1 | 3,944.3 | 89.0 | 88.8 | -9.87 | 1,020.3 | 2,897.8 | 356.8 | 184.9 | 171.88 | 2.076 | | |
| 5,400.0 | 4,096.9 | 5,314.9 | 3,977.6 | 89.0 | 89.2 | 9.16 | 1,034.1 | 2,914.7 | 359.1 | 188.1 | 171.07 | 2.099 | | |
| 5,450.0 | 4,144.8 | 5,355.7 | 4,012.7 | 89.0 | 89.6 | 25.70 | 1,048.7 | 2,929.6 | 362.9 | 192.9 | 170.05 | 2.134 | | |
| 5,500.0 | 4,192.1 | 5,397.7 | 4,049.6 | 88.9 | 90.0 | 39.04 | 1,064.0 | 2,942.3 | 368.3 | 199.4 | 168.87 | 2.181 | | |
| 5,550.0 | 4,238.5 | 5,441.0 | 4,088.5 | 88.9 | 90.3 | 49.61 | 1,080.2 | 2,952.7 | 375.1 | 207.5 | 167.59 | 2.238 | | |
| 5,600.0 | 4,283.7 | 5,485.9 | 4,129.3 | 88.8 | 90.5 | 58.08 | 1,097.3 | 2,960.4 | 383.4 | 217.1 | 166.26 | 2.306 | | |
| 5,650.0 | 4,327.5 | 5,532.6 | 4,172.1 | 88.7 | 90.7 | 65.04 | 1,115.2 | 2,965.1 | 393.1 | 228.2 | 164.95 | 2.383 | | |
| 5,700.0 | 4,369.5 | 5,581.3 | 4,217.0 | 88.6 | 90.8 | 70.89 | 1,134.0 | 2,966.3 | 404.1 | 240.4 | 163.70 | 2.469 | | |
| 5,750.0 | 4,409.4 | 5,632.4 | 4,264.1 | 88.5 | 90.9 | 75.93 | 1,153.7 | 2,963.6 | 416.2 | 253.7 | 162.54 | 2.561 | | |
| 5,800.0 | 4,447.2 | 5,686.3 | 4,313.3 | 88.5 | 90.9 | 80.33 | 1,174.3 | 2,956.3 | 429.3 | 267.8 | 161.52 | 2.658 | | |
| 5,850.0 | 4,482.5 | 5,743.4 | 4,364.6 | 88.5 | 90.9 | 84.24 | 1,195.9 | 2,943.8 | 443.1 | 282.4 | 160.67 | 2.758 | | |
| 5,900.0 | 4,515.0 | 5,804.1 | 4,417.8 | 88.5 | 90.8 | 87.75 | 1,218.3 | 2,924.9 | 457.3 | 297.3 | 160.02 | 2.858 | | |
| 5,950.0 | 4,544.7 | 5,869.1 | 4,472.6 | 88.6 | 90.7 | 90.93 | 1,241.5 | 2,898.9 | 471.7 | 312.1 | 159.60 | 2.955 | | |
| 6,000.0 | 4,571.3 | 5,938.8 | 4,528.3 | 88.7 | 90.6 | 93.81 | 1,265.0 | 2,864.3 | 485.9 | 326.4 | 159.45 | 3.047 | | |
| 6,050.0 | 4,594.6 | 6,013.8 | 4,583.9 | 88.9 | 90.6 | 96.41 | 1,288.7 | 2,819.9 | 499.5 | 339.9 | 159.61 | 3.130 | | |
| 6,100.0 | 4,614.6 | 6,094.5 | 4,637.9 | 89.1 | 90.5 | 98.72 | 1,311.7 | 2,764.6 | 512.2 | 352.0 | 160.14 | 3.198 | | |
| 6,150.0 | 4,631.0 | 6,181.1 | 4,688.2 | 89.3 | 90.6 | 100.71 | 1,333.3 | 2,697.5 | 523.4 | 362.3 | 161.11 | 3.249 | | |
| 6,200.0 | 4,643.9 | 6,273.6 | 4,732.0 | 89.6 | 90.7 | 102.34 | 1,352.2 | 2,618.4 | 532.8 | 370.2 | 162.56 | 3.277 | | |
| 6,250.0 | 4,653.0 | 6,371.2 | 4,766.3 | 89.9 | 91.0 | 103.56 | 1,367.3 | 2,528.4 | 539.8 | 375.3 | 164.51 | 3.281 | | |
| 6,300.0 | 4,658.4 | 6,472.7 | 4,788.0 | 90.2 | 91.4 | 104.30 | 1,377.1 | 2,429.9 | 544.2 | 377.3 | 166.94 | 3.260 | | |
| 6,354.2 | 4,660.0 | 6,582.0 | 4,795.0 | 90.6 | 92.0 | 104.54 | 1,380.9 | 2,321.0 | 545.7 | 375.8 | 169.98 | 3.211 | | |
| 6,400.0 | 4,659.5 | 6,627.8 | 4,794.4 | 90.9 | 92.2 | 104.54 | 1,381.0 | 2,275.2 | 545.8 | 375.1 | 170.69 | 3.197 | | |
| 6,500.0 | 4,658.3 | 6,727.8 | 4,793.3 | 91.8 | 92.9 | 104.54 | 1,381.3 | 2,175.2 | 545.8 | 373.4 | 172.41 | 3.166 | | |
| 6,600.0 | 4,657.1 | 6,827.8 | 4,792.2 | 92.7 | 93.7 | 104.55 | 1,381.6 | 2,075.2 | 545.9 | 371.5 | 174.37 | 3.131 | | |
| 6,700.0 | 4,655.9 | 6,927.8 | 4,791.0 | 93.8 | 94.6 | 104.55 | 1,381.9 | 1,975.2 | 545.9 | 369.4 | 176.55 | 3.092 | | |
| 6,800.0 | 4,654.7 | 7,027.8 | 4,789.9 | 95.0 | 95.6 | 104.56 | 1,382.1 | 1,875.2 | 546.0 | 367.0 | 178.96 | 3.051 | | |
| 6,900.0 | 4,653.5 | 7,127.8 | 4,788.8 | 96.3 | 96.7 | 104.56 | 1,382.4 | 1,775.2 | 546.0 | 364.4 | 181.59 | 3.007 | | |
| 7,000.0 | 4,652.3 | 7,227.8 | 4,787.6 | 97.7 | 97.9 | 104.57 | 1,382.7 | 1,675.2 | 546.1 | 361.7 | 184.41 | 2.961 | | |
| 7,100.0 | 4,651.1 | 7,327.8 | 4,786.5 | 99.2 | 99.3 | 104.57 | 1,383.0 | 1,575.2 | 546.1 | 358.7 | 187.43 | 2.914 | | |
| 7,200.0 | 4,649.9 | 7,427.8 | 4,785.3 | 100.7 | 100.7 | 104.57 | 1,383.3 | 1,475.2 | 546.2 | 355.5 | 190.64 | 2.865 | | |
| 7,300.0 | 4,648.7 | 7,527.8 | 4,784.2 | 102.4 | 102.2 | 104.58 | 1,383.6 | 1,375.2 | 546.2 | 352.2 | 194.02 | 2.815 | | |
| 7,400.0 | 4,647.5 | 7,627.8 | 4,783.1 | 104.2 | 103.9 | 104.58 | 1,383.9 | 1,275.2 | 546.3 | 348.7 | 197.57 | 2.765 | | |
| 7,500.0 | 4,646.3 | 7,727.8 | 4,781.9 | 106.1 | 105.6 | 104.59 | 1,384.1 | 1,175.3 | 546.3 | 345.0 | 201.28 | 2.714 | | |
| 7,600.0 | 4,645.1 | 7,827.8 | 4,780.8 | 108.0 | 107.4 | 104.59 | 1,384.4 | 1,075.3 | 546.4 | 341.2 | 205.14 | 2.663 | | |
| 7,700.0 | 4,643.9 | 7,927.8 | 4,779.6 | 110.0 | 109.3 | 104.60 | 1,384.7 | 975.3 | 546.4 | 337.3 | 209.14 | 2.613 | | |
| 7,800.0 | 4,642.7 | 8,027.8 | 4,778.5 | 112.1 | 111.3 | 104.60 | 1,385.0 | 875.3 | 546.5 | 333.2 | 213.27 | 2.562 | | |
| 7,900.0 | 4,641.5 | 8,127.8 | 4,777.4 | 114.2 | 113.3 | 104.61 | 1,385.3 | 775.3 | 546.5 | 329.0 | 217.53 | 2.512 | | |
| 8,000.0 | 4,640.4 | 8,227.8 | 4,776.2 | 116.5 | 115.4 | 104.61 | 1,385.6 | 675.3 | 546.6 | 324.7 | 221.91 | 2.463 | | |
| 8,100.0 | 4,639.2 | 8,327.8 | 4,775.1 | 118.7 | 117.6 | 104.62 | 1,385.9 | 575.3 | 546.6 | 320.2 | 226.39 | 2.415 | | |
| 8,200.0 | 4,638.0 | 8,427.8 | 4,773.9 | 121.1 | 119.9 | 104.62 | 1,386.1 | 475.3 | 546.7 | 315.7 | 230.99 | 2.367 | | |
| 8,300.0 | 4,636.8 | 8,527.8 | 4,772.8 | 123.4 | 122.2 | 104.62 | 1,386.4 | 375.3 | 546.7 | 311.1 | 235.68 | 2.320 | | |
| 8,400.0 | 4,635.6 | 8,627.8 | 4,771.7 | 125.9 | 124.6 | 104.63 | 1,386.7 | 275.3 | 546.8 | 306.3 | 240.47 | 2.274 | | |

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Maggie Operating, Inc. | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 8-8H - 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 | | |
| 8,500.0 | 4,634.4 | 8,727.8 | 4,770.5 | 128.4 | 127.0 | 104.63 | 1,387.0 | 175.3 | 546.8 | 301.5 | 245.34 | 2.229 | | |
| 8,600.0 | 4,633.2 | 8,827.8 | 4,769.4 | 130.9 | 129.5 | 104.64 | 1,387.3 | 75.3 | 546.9 | 296.6 | 250.30 | 2.185 | | |
| 8,700.0 | 4,632.0 | 8,927.8 | 4,768.3 | 133.5 | 132.0 | 104.64 | 1,387.6 | -24.7 | 546.9 | 291.6 | 255.33 | 2.142 | | |
| 8,800.0 | 4,630.8 | 9,027.8 | 4,767.1 | 136.1 | 134.5 | 104.65 | 1,387.9 | -124.7 | 547.0 | 286.6 | 260.44 | 2.100 | | |
| 8,900.0 | 4,629.6 | 9,127.8 | 4,766.0 | 138.7 | 137.1 | 104.65 | 1,388.1 | -224.6 | 547.0 | 281.4 | 265.61 | 2.060 | | |
| 9,000.0 | 4,628.4 | 9,227.8 | 4,764.8 | 141.4 | 139.8 | 104.66 | 1,388.4 | -324.6 | 547.1 | 276.3 | 270.85 | 2.020 | | |
| 9,100.0 | 4,627.2 | 9,327.8 | 4,763.7 | 144.1 | 142.5 | 104.66 | 1,388.7 | -424.6 | 547.2 | 271.0 | 276.15 | 1.981 | | |
| 9,200.0 | 4,626.0 | 9,427.8 | 4,762.6 | 146.9 | 145.2 | 104.67 | 1,389.0 | -524.6 | 547.2 | 265.7 | 281.51 | 1.944 | | |
| 9,300.0 | 4,624.8 | 9,527.8 | 4,761.4 | 149.7 | 147.9 | 104.67 | 1,389.3 | -624.6 | 547.3 | 260.3 | 286.93 | 1.907 | | |
| 9,400.0 | 4,623.6 | 9,627.8 | 4,760.3 | 152.5 | 150.7 | 104.67 | 1,389.6 | -724.6 | 547.3 | 254.9 | 292.39 | 1.872 | | |
| 9,500.0 | 4,622.4 | 9,727.8 | 4,759.1 | 155.3 | 153.5 | 104.68 | 1,389.9 | -824.6 | 547.4 | 249.5 | 297.90 | 1.837 | | |
| 9,600.0 | 4,621.3 | 9,827.8 | 4,758.0 | 158.1 | 156.4 | 104.68 | 1,390.1 | -924.6 | 547.4 | 243.9 | 303.46 | 1.804 | | |
| 9,700.0 | 4,620.1 | 9,927.8 | 4,756.9 | 161.0 | 159.2 | 104.69 | 1,390.4 | -1,024.6 | 547.5 | 238.4 | 309.07 | 1.771 | | |
| 9,800.0 | 4,618.9 | 10,027.8 | 4,755.7 | 163.9 | 162.1 | 104.69 | 1,390.7 | -1,124.6 | 547.5 | 232.8 | 314.71 | 1.740 | | |
| 9,900.0 | 4,617.7 | 10,127.8 | 4,754.6 | 166.9 | 165.0 | 104.70 | 1,391.0 | -1,224.6 | 547.6 | 227.2 | 320.40 | 1.709 | | |
| 10,000.0 | 4,616.5 | 10,227.8 | 4,753.5 | 169.8 | 168.0 | 104.70 | 1,391.3 | -1,324.6 | 547.6 | 221.5 | 326.12 | 1.679 | | |
| 10,100.0 | 4,615.3 | 10,327.8 | 4,752.3 | 172.8 | 170.9 | 104.71 | 1,391.6 | -1,424.6 | 547.7 | 215.8 | 331.87 | 1.650 | | |
| 10,200.0 | 4,614.1 | 10,427.8 | 4,751.2 | 175.7 | 173.9 | 104.71 | 1,391.9 | -1,524.6 | 547.7 | 210.1 | 337.66 | 1.622 | | |
| 10,300.0 | 4,612.9 | 10,527.8 | 4,750.0 | 178.7 | 176.9 | 104.71 | 1,392.1 | -1,624.5 | 547.8 | 204.3 | 343.48 | 1.595 | | |
| 10,400.0 | 4,611.7 | 10,627.8 | 4,748.9 | 181.7 | 179.9 | 104.72 | 1,392.4 | -1,724.5 | 547.8 | 198.5 | 349.33 | 1.568 | | |
| 10,500.0 | 4,610.5 | 10,727.8 | 4,747.8 | 184.8 | 182.9 | 104.72 | 1,392.7 | -1,824.5 | 547.9 | 192.7 | 355.20 | 1.542 | | |
| 10,600.0 | 4,609.3 | 10,827.8 | 4,746.6 | 187.8 | 185.9 | 104.73 | 1,393.0 | -1,924.5 | 547.9 | 186.8 | 361.11 | 1.517 | | |
| 10,700.0 | 4,608.1 | 10,927.8 | 4,745.5 | 190.9 | 189.0 | 104.73 | 1,393.3 | -2,024.5 | 548.0 | 180.9 | 367.04 | 1.493 Level 3 | | |
| 10,800.0 | 4,606.9 | 11,027.8 | 4,744.3 | 193.9 | 192.0 | 104.74 | 1,393.6 | -2,124.5 | 548.0 | 175.0 | 372.99 | 1.469 Level 3 | | |
| 10,900.0 | 4,605.7 | 11,127.8 | 4,743.2 | 197.0 | 195.1 | 104.74 | 1,393.9 | -2,224.5 | 548.1 | 169.1 | 378.97 | 1.446 Level 3 | | |
| 11,000.0 | 4,604.5 | 11,227.8 | 4,742.1 | 200.1 | 198.2 | 104.75 | 1,394.1 | -2,324.5 | 548.1 | 163.2 | 384.97 | 1.424 Level 3 | | |
| 11,100.0 | 4,603.4 | 11,327.8 | 4,740.9 | 203.2 | 201.3 | 104.75 | 1,394.4 | -2,424.5 | 548.2 | 157.2 | 390.99 | 1.402 Level 3 | | |
| 11,200.0 | 4,602.2 | 11,427.8 | 4,739.8 | 206.3 | 204.4 | 104.76 | 1,394.7 | -2,524.5 | 548.2 | 151.2 | 397.04 | 1.381 Level 3 | | |
| 11,300.0 | 4,601.0 | 11,527.8 | 4,738.6 | 209.5 | 207.5 | 104.76 | 1,395.0 | -2,624.5 | 548.3 | 145.2 | 403.10 | 1.360 Level 3 | | |
| 11,400.0 | 4,599.8 | 11,627.8 | 4,737.5 | 212.6 | 210.7 | 104.76 | 1,395.3 | -2,724.5 | 548.4 | 139.2 | 409.18 | 1.340 Level 3 | | |
| 11,500.0 | 4,598.6 | 11,727.8 | 4,736.4 | 215.7 | 213.8 | 104.77 | 1,395.6 | -2,824.5 | 548.4 | 133.1 | 415.27 | 1.321 Level 3 | | |
| 11,600.0 | 4,597.4 | 11,827.8 | 4,735.2 | 218.9 | 217.0 | 104.77 | 1,395.9 | -2,924.5 | 548.5 | 127.1 | 421.38 | 1.302 Level 3 | | |
| 11,700.0 | 4,596.2 | 11,927.8 | 4,734.1 | 222.1 | 220.1 | 104.78 | 1,396.1 | -3,024.5 | 548.5 | 121.0 | 427.51 | 1.283 Level 3 | | |
| 11,800.0 | 4,595.0 | 12,027.8 | 4,733.0 | 225.2 | 223.3 | 104.78 | 1,396.4 | -3,124.4 | 548.6 | 114.9 | 433.66 | 1.265 Level 3 | | |
| 11,900.0 | 4,593.8 | 12,127.8 | 4,731.8 | 228.4 | 226.5 | 104.79 | 1,396.7 | -3,224.4 | 548.6 | 108.8 | 439.82 | 1.247 Level 2 | | |
| 12,000.0 | 4,592.6 | 12,227.8 | 4,730.7 | 231.6 | 229.7 | 104.79 | 1,397.0 | -3,324.4 | 548.7 | 102.7 | 445.99 | 1.230 Level 2 | | |
| 12,100.0 | 4,591.4 | 12,327.8 | 4,729.5 | 234.8 | 232.9 | 104.80 | 1,397.3 | -3,424.4 | 548.7 | 96.5 | 452.18 | 1.213 Level 2 | | |
| 12,200.0 | 4,590.2 | 12,427.8 | 4,728.4 | 238.0 | 236.1 | 104.80 | 1,397.6 | -3,524.4 | 548.8 | 90.4 | 458.38 | 1.197 Level 2 | | |
| 12,300.0 | 4,589.0 | 12,527.8 | 4,727.3 | 241.2 | 239.3 | 104.80 | 1,397.9 | -3,624.4 | 548.8 | 84.2 | 464.59 | 1.181 Level 2 | | |
| 12,400.0 | 4,587.8 | 12,627.8 | 4,726.1 | 244.4 | 242.5 | 104.81 | 1,398.1 | -3,724.4 | 548.9 | 78.1 | 470.81 | 1.166 Level 2 | | |
| 12,500.0 | 4,586.6 | 12,727.8 | 4,725.0 | 247.6 | 245.7 | 104.81 | 1,398.4 | -3,824.4 | 548.9 | 71.9 | 477.05 | 1.151 Level 2 | | |
| 12,600.0 | 4,585.4 | 12,827.8 | 4,723.8 | 250.8 | 248.9 | 104.82 | 1,398.7 | -3,924.4 | 549.0 | 65.7 | 483.30 | 1.136 Level 2 | | |
| 12,700.0 | 4,584.3 | 12,927.8 | 4,722.7 | 254.1 | 252.2 | 104.82 | 1,399.0 | -4,024.4 | 549.0 | 59.5 | 489.55 | 1.121 Level 2 | | |
| 12,800.0 | 4,583.1 | 13,027.8 | 4,721.6 | 257.3 | 255.4 | 104.83 | 1,399.3 | -4,124.4 | 549.1 | 53.3 | 495.82 | 1.107 Level 2 | | |
| 12,900.0 | 4,581.9 | 13,127.8 | 4,720.4 | 260.6 | 258.6 | 104.83 | 1,399.6 | -4,224.4 | 549.1 | 47.0 | 502.10 | 1.094 Level 2 | | |
| 13,000.0 | 4,580.7 | 13,227.8 | 4,719.3 | 263.8 | 261.9 | 104.84 | 1,399.9 | -4,324.4 | 549.2 | 40.8 | 508.38 | 1.080 Level 2 | | |
| 13,100.0 | 4,579.5 | 13,327.8 | 4,718.1 | 267.1 | 265.1 | 104.84 | 1,400.1 | -4,424.4 | 549.2 | 34.6 | 514.68 | 1.067 Level 2 | | |
| 13,200.0 | 4,578.3 | 13,427.8 | 4,717.0 | 270.3 | 268.4 | 104.85 | 1,400.4 | -4,524.3 | 549.3 | 28.3 | 520.98 | 1.054 Level 2 | | |
| 13,300.0 | 4,577.1 | 13,527.8 | 4,715.9 | 273.6 | 271.7 | 104.85 | 1,400.7 | -4,624.3 | 549.3 | 22.0 | 527.30 | 1.042 Level 2 | | |
| 13,400.0 | 4,575.9 | 13,627.8 | 4,714.7 | 276.8 | 274.9 | 104.85 | 1,401.0 | -4,724.3 | 549.4 | 15.8 | 533.62 | 1.030 Level 2 | | |
| 13,500.0 | 4,574.7 | 13,727.8 | 4,713.6 | 280.1 | 278.2 | 104.86 | 1,401.3 | -4,824.3 | 549.4 | 9.5 | 539.94 | 1.018 Level 2 | | |
| 13,600.0 | 4,573.5 | 13,827.8 | 4,712.5 | 283.4 | 281.5 | 104.86 | 1,401.6 | -4,924.3 | 549.5 | 3.2 | 546.28 | 1.006 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 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | | |
| 13,700.0 | 4,572.3 | 13,927.8 | 4,711.3 | 286.7 | 284.7 | 104.87 | 1,401.9 | -5,024.3 | 549.6 | -3.1 | 552.62 | 0.994 | Level 1 | |
| 13,800.0 | 4,571.1 | 14,027.8 | 4,710.2 | 289.9 | 288.0 | 104.87 | 1,402.1 | -5,124.3 | 549.6 | -9.4 | 558.97 | 0.983 | Level 1 | |
| 13,900.0 | 4,569.9 | 14,127.8 | 4,709.0 | 293.2 | 291.3 | 104.88 | 1,402.4 | -5,224.3 | 549.7 | -15.7 | 565.33 | 0.972 | Level 1 | |
| 14,000.0 | 4,568.7 | 14,227.8 | 4,707.9 | 296.5 | 294.6 | 104.88 | 1,402.7 | -5,324.3 | 549.7 | -22.0 | 571.69 | 0.962 | Level 1 | |
| 14,100.0 | 4,567.5 | 14,327.8 | 4,706.8 | 299.8 | 297.9 | 104.89 | 1,403.0 | -5,424.3 | 549.8 | -28.3 | 578.06 | 0.951 | Level 1 | |
| 14,200.0 | 4,566.3 | 14,427.8 | 4,705.6 | 303.1 | 301.2 | 104.89 | 1,403.3 | -5,524.3 | 549.8 | -34.6 | 584.44 | 0.941 | Level 1 | |
| 14,300.0 | 4,565.2 | 14,527.8 | 4,704.5 | 306.4 | 304.5 | 104.89 | 1,403.6 | -5,624.3 | 549.9 | -41.0 | 590.82 | 0.931 | Level 1 | |
| 14,400.0 | 4,564.0 | 14,627.8 | 4,703.3 | 309.7 | 307.8 | 104.90 | 1,403.9 | -5,724.3 | 549.9 | -47.3 | 597.20 | 0.921 | Level 1 | |
| 14,500.0 | 4,562.8 | 14,727.8 | 4,702.2 | 313.0 | 311.1 | 104.90 | 1,404.1 | -5,824.3 | 550.0 | -53.6 | 603.60 | 0.911 | Level 1 | |
| 14,600.0 | 4,561.6 | 14,827.8 | 4,701.1 | 316.3 | 314.4 | 104.91 | 1,404.4 | -5,924.3 | 550.0 | -60.0 | 609.99 | 0.902 | Level 1 | |
| 14,700.0 | 4,560.4 | 14,927.8 | 4,699.9 | 319.6 | 317.7 | 104.91 | 1,404.7 | -6,024.2 | 550.1 | -66.3 | 616.40 | 0.892 | Level 1 | |
| 14,800.0 | 4,559.2 | 15,027.8 | 4,698.8 | 322.9 | 321.0 | 104.92 | 1,405.0 | -6,124.2 | 550.1 | -72.7 | 622.80 | 0.883 | Level 1 | |
| 14,900.0 | 4,558.0 | 15,127.8 | 4,697.7 | 326.3 | 324.4 | 104.92 | 1,405.3 | -6,224.2 | 550.2 | -79.0 | 629.22 | 0.874 | Level 1 | |
| 15,000.0 | 4,556.8 | 15,227.8 | 4,696.5 | 329.6 | 327.7 | 104.93 | 1,405.6 | -6,324.2 | 550.2 | -85.4 | 635.63 | 0.866 | Level 1 | |
| 15,100.0 | 4,555.6 | 15,327.8 | 4,695.4 | 332.9 | 331.0 | 104.93 | 1,405.9 | -6,424.2 | 550.3 | -91.8 | 642.05 | 0.857 | Level 1 | |
| 15,200.0 | 4,554.4 | 15,427.8 | 4,694.2 | 336.2 | 334.3 | 104.93 | 1,406.1 | -6,524.2 | 550.3 | -98.1 | 648.48 | 0.849 | Level 1 | |
| 15,300.0 | 4,553.2 | 15,527.8 | 4,693.1 | 339.5 | 337.7 | 104.94 | 1,406.4 | -6,624.2 | 550.4 | -104.5 | 654.91 | 0.840 | Level 1 | |
| 15,400.0 | 4,552.0 | 15,627.8 | 4,692.0 | 342.9 | 341.0 | 104.94 | 1,406.7 | -6,724.2 | 550.4 | -110.9 | 661.34 | 0.832 | Level 1 | |
| 15,500.0 | 4,550.8 | 15,727.8 | 4,690.8 | 346.2 | 344.3 | 104.95 | 1,407.0 | -6,824.2 | 550.5 | -117.3 | 667.78 | 0.824 | Level 1 | |
| 15,569.4 | 4,550.0 | 15,797.2 | 4,690.0 | 348.5 | 346.6 | 104.95 | 1,407.2 | -6,893.6 | 550.5 | -121.7 | 672.25 | 0.819 | Level 1, ES, SF | |

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Maggie Operating, Inc. | Local Co-ordinate Reference: | Well Bunker 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | 58.3 | 0.0 | 58.4 | | | | | |
| 100.0 | 100.0 | 97.0 | 97.0 | 0.1 | 0.1 | 0.00 | 58.3 | 0.0 | 58.3 | 58.0 | 0.27 | 214.935 | | |
| 200.0 | 200.0 | 197.0 | 197.0 | 0.4 | 0.4 | 0.00 | 58.3 | 0.0 | 58.3 | 57.5 | 0.82 | 71.285 CC, ES | | |
| 300.0 | 300.0 | 296.0 | 296.0 | 0.7 | 0.7 | 1.80 | 59.1 | 1.9 | 59.1 | 57.8 | 1.36 | 43.443 | | |
| 400.0 | 400.0 | 394.7 | 394.5 | 1.0 | 1.0 | -73.24 | 61.5 | 7.6 | 61.4 | 59.5 | 1.91 | 32.158 | | |
| 500.0 | 499.7 | 493.3 | 492.5 | 1.2 | 1.3 | -70.43 | 65.6 | 17.3 | 64.6 | 62.1 | 2.50 | 25.812 | | |
| 600.0 | 599.1 | 591.7 | 589.8 | 1.5 | 1.7 | -68.24 | 71.3 | 30.8 | 68.6 | 65.5 | 3.18 | 21.597 | | |
| 700.0 | 698.0 | 689.9 | 686.1 | 1.9 | 2.1 | -66.64 | 78.6 | 48.0 | 73.5 | 69.5 | 3.96 | 18.556 | | |
| 800.0 | 796.0 | 787.8 | 781.4 | 2.4 | 2.7 | -65.57 | 87.5 | 69.1 | 79.1 | 74.2 | 4.87 | 16.236 | | |
| 900.0 | 893.2 | 885.6 | 875.4 | 2.9 | 3.3 | -64.94 | 97.9 | 93.8 | 85.3 | 79.4 | 5.93 | 14.399 | | |
| 1,000.0 | 989.2 | 983.1 | 968.0 | 3.6 | 4.0 | -64.68 | 109.8 | 122.1 | 92.2 | 85.1 | 7.15 | 12.906 | | |
| 1,100.0 | 1,083.9 | 1,080.4 | 1,058.9 | 4.3 | 4.8 | -64.72 | 123.3 | 153.9 | 99.8 | 91.2 | 8.55 | 11.672 | | |
| 1,200.0 | 1,177.0 | 1,177.5 | 1,148.2 | 5.2 | 5.8 | -64.97 | 138.2 | 189.2 | 108.0 | 97.8 | 10.15 | 10.640 | | |
| 1,300.0 | 1,268.6 | 1,274.4 | 1,235.5 | 6.2 | 6.8 | -65.40 | 154.5 | 227.8 | 116.8 | 104.8 | 11.95 | 9.767 | | |
| 1,400.0 | 1,358.3 | 1,371.1 | 1,320.8 | 7.3 | 7.9 | -65.95 | 172.1 | 269.7 | 126.2 | 112.2 | 13.98 | 9.023 | | |
| 1,500.0 | 1,445.9 | 1,467.5 | 1,403.9 | 8.5 | 9.2 | -66.58 | 191.2 | 314.8 | 136.2 | 119.9 | 16.24 | 8.386 | | |
| 1,600.0 | 1,531.4 | 1,563.7 | 1,484.6 | 9.8 | 10.5 | -67.27 | 211.5 | 362.9 | 146.8 | 128.0 | 18.73 | 7.837 | | |
| 1,700.0 | 1,614.5 | 1,659.7 | 1,563.0 | 11.3 | 12.0 | -67.99 | 233.1 | 414.0 | 157.9 | 136.5 | 21.45 | 7.362 | | |
| 1,800.0 | 1,695.2 | 1,755.5 | 1,638.8 | 12.9 | 13.5 | -68.73 | 255.8 | 467.9 | 169.7 | 145.3 | 24.42 | 6.949 | | |
| 1,900.0 | 1,773.2 | 1,851.0 | 1,711.9 | 14.6 | 15.2 | -69.46 | 279.8 | 524.6 | 182.0 | 154.4 | 27.62 | 6.589 | | |
| 2,000.0 | 1,848.3 | 1,946.4 | 1,782.2 | 16.5 | 17.0 | -70.18 | 304.8 | 583.9 | 194.8 | 163.8 | 31.07 | 6.272 | | |
| 2,100.0 | 1,920.6 | 2,041.6 | 1,849.7 | 18.4 | 18.8 | -70.89 | 330.9 | 645.7 | 208.2 | 173.5 | 34.75 | 5.993 | | |
| 2,200.0 | 1,989.7 | 2,136.6 | 1,914.2 | 20.5 | 20.8 | -71.57 | 358.0 | 710.0 | 222.1 | 183.5 | 38.66 | 5.746 | | |
| 2,300.0 | 2,055.6 | 2,231.4 | 1,975.7 | 22.7 | 22.9 | -72.22 | 386.1 | 776.5 | 236.5 | 193.7 | 42.79 | 5.527 | | |
| 2,399.5 | 2,118.0 | 2,325.6 | 2,033.7 | 25.0 | 25.0 | -72.84 | 414.9 | 844.8 | 251.3 | 204.2 | 47.13 | 5.333 | | |
| 2,500.0 | 2,179.1 | 2,422.4 | 2,090.5 | 27.4 | 27.3 | -73.46 | 445.4 | 917.1 | 267.2 | 215.5 | 51.67 | 5.171 | | |
| 2,600.0 | 2,240.0 | 2,521.1 | 2,147.9 | 29.8 | 29.6 | -73.91 | 476.7 | 991.1 | 283.2 | 227.0 | 56.25 | 5.036 | | |
| 2,700.0 | 2,300.9 | 2,619.8 | 2,205.2 | 32.2 | 32.0 | -74.30 | 507.9 | 1,065.0 | 299.3 | 238.4 | 60.85 | 4.919 | | |
| 2,800.0 | 2,361.8 | 2,718.5 | 2,262.6 | 34.6 | 34.3 | -74.66 | 539.1 | 1,139.0 | 315.4 | 249.9 | 65.47 | 4.817 | | |
| 2,900.0 | 2,422.7 | 2,817.1 | 2,320.0 | 37.0 | 36.7 | -74.98 | 570.3 | 1,213.0 | 331.4 | 261.3 | 70.10 | 4.728 | | |
| 3,000.0 | 2,483.6 | 2,915.8 | 2,377.4 | 39.4 | 39.1 | -75.28 | 601.6 | 1,286.9 | 347.5 | 272.8 | 74.74 | 4.650 | | |
| 3,100.0 | 2,544.5 | 3,014.5 | 2,434.8 | 41.8 | 41.5 | -75.55 | 632.8 | 1,360.9 | 363.6 | 284.2 | 79.39 | 4.580 | | |
| 3,200.0 | 2,605.4 | 3,113.2 | 2,492.1 | 44.3 | 43.8 | -75.79 | 664.0 | 1,434.8 | 379.7 | 295.7 | 84.05 | 4.518 | | |
| 3,300.0 | 2,666.3 | 3,211.9 | 2,549.5 | 46.7 | 46.2 | -76.01 | 695.2 | 1,508.8 | 395.9 | 307.1 | 88.71 | 4.462 | | |
| 3,400.0 | 2,727.2 | 3,310.6 | 2,606.9 | 49.1 | 48.6 | -76.22 | 726.5 | 1,582.8 | 412.0 | 318.6 | 93.38 | 4.412 | | |
| 3,500.0 | 2,788.0 | 3,409.2 | 2,664.3 | 51.5 | 51.0 | -76.41 | 757.7 | 1,656.7 | 428.1 | 330.0 | 98.06 | 4.366 | | |
| 3,600.0 | 2,848.9 | 3,507.9 | 2,721.7 | 54.0 | 53.4 | -76.59 | 788.9 | 1,730.7 | 444.2 | 341.5 | 102.74 | 4.324 | | |
| 3,700.0 | 2,909.8 | 3,606.6 | 2,779.0 | 56.4 | 55.8 | -76.76 | 820.1 | 1,804.7 | 460.3 | 352.9 | 107.42 | 4.286 | | |
| 3,800.0 | 2,970.7 | 3,705.3 | 2,836.4 | 58.8 | 58.2 | -76.91 | 851.4 | 1,878.6 | 476.5 | 364.4 | 112.10 | 4.250 | | |
| 3,900.0 | 3,031.6 | 3,804.0 | 2,893.8 | 61.3 | 60.6 | -77.05 | 882.6 | 1,952.6 | 492.6 | 375.8 | 116.79 | 4.218 | | |
| 4,000.0 | 3,092.5 | 3,902.6 | 2,951.2 | 63.7 | 63.0 | -77.19 | 913.8 | 2,026.6 | 508.8 | 387.3 | 121.48 | 4.188 | | |
| 4,100.0 | 3,153.4 | 4,001.3 | 3,008.6 | 66.1 | 65.4 | -77.31 | 945.0 | 2,100.5 | 524.9 | 398.7 | 126.18 | 4.160 | | |
| 4,200.0 | 3,214.3 | 4,100.0 | 3,065.9 | 68.6 | 67.7 | -77.43 | 976.3 | 2,174.5 | 541.0 | 410.2 | 130.87 | 4.134 | | |
| 4,300.0 | 3,275.2 | 4,198.7 | 3,123.3 | 71.0 | 70.1 | -77.54 | 1,007.5 | 2,248.5 | 557.2 | 421.6 | 135.57 | 4.110 | | |
| 4,400.0 | 3,336.1 | 4,297.4 | 3,180.7 | 73.4 | 72.5 | -77.65 | 1,038.7 | 2,322.4 | 573.3 | 433.1 | 140.26 | 4.088 | | |
| 4,500.0 | 3,397.0 | 4,396.1 | 3,238.1 | 75.9 | 74.9 | -77.75 | 1,069.9 | 2,396.4 | 589.5 | 444.5 | 144.96 | 4.066 | | |
| 4,600.0 | 3,457.9 | 4,494.7 | 3,295.5 | 78.3 | 77.3 | -77.84 | 1,101.2 | 2,470.3 | 605.6 | 456.0 | 149.66 | 4.047 | | |
| 4,700.0 | 3,518.8 | 4,593.4 | 3,352.8 | 80.8 | 79.7 | -77.93 | 1,132.4 | 2,544.3 | 621.8 | 467.4 | 154.37 | 4.028 | | |
| 4,780.5 | 3,567.8 | 4,672.9 | 3,399.1 | 82.7 | 81.7 | -78.00 | 1,157.5 | 2,603.9 | 634.8 | 476.7 | 158.15 | 4.014 | | |
| 4,800.0 | 3,579.9 | 4,692.1 | 3,410.2 | 83.2 | 82.1 | -77.82 | 1,163.6 | 2,618.3 | 637.9 | 478.7 | 159.25 | 4.006 | | |
| 4,850.0 | 3,612.8 | 4,741.4 | 3,438.9 | 84.2 | 83.3 | -76.87 | 1,179.2 | 2,655.2 | 645.6 | 483.8 | 161.77 | 3.991 | | |
| 4,900.0 | 3,648.5 | 4,790.4 | 3,467.4 | 85.1 | 84.5 | -75.22 | 1,194.7 | 2,692.0 | 652.7 | 488.8 | 163.88 | 3.983 | | |

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 8-7H |
| Project: | SEC.29-T5N-R68W | TVD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Reference Site: | Bunker 8 Well Pad Sec.29-T5N-R68W | MD Reference: | WELL @ 5001.0ft (Original Well Elev) |
| Site Error: | 0.0 ft | North Reference: | True |
| Reference Well: | Bunker 8-7H | 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 | | |
| 4,950.0 | 3,686.6 | 4,838.8 | 3,495.5 | 86.0 | 85.7 | -72.80 | 1,210.0 | 2,728.2 | 659.5 | 493.9 | 165.58 | 3.983 SF | | |
| 5,000.0 | 3,726.9 | 4,885.1 | 3,522.5 | 86.7 | 86.8 | -69.54 | 1,224.7 | 2,762.9 | 666.0 | 499.1 | 166.87 | 3.991 | | |
| 5,050.0 | 3,769.1 | 4,922.2 | 3,544.9 | 87.3 | 87.6 | -65.64 | 1,236.9 | 2,789.9 | 672.8 | 505.0 | 167.80 | 4.009 | | |
| 5,100.0 | 3,813.1 | 4,959.7 | 3,568.9 | 87.8 | 88.4 | -60.66 | 1,250.0 | 2,815.5 | 680.2 | 511.6 | 168.53 | 4.036 | | |
| 5,150.0 | 3,858.5 | 5,000.0 | 3,596.1 | 88.2 | 89.1 | -54.09 | 1,264.9 | 2,841.2 | 688.2 | 519.2 | 169.07 | 4.071 | | |
| 5,200.0 | 3,905.0 | 5,035.9 | 3,621.5 | 88.5 | 89.7 | -45.55 | 1,278.9 | 2,862.4 | 696.9 | 527.4 | 169.45 | 4.113 | | |
| 5,250.0 | 3,952.5 | 5,074.8 | 3,650.1 | 88.7 | 90.4 | -34.12 | 1,294.6 | 2,883.5 | 706.1 | 536.5 | 169.68 | 4.162 | | |
| 5,300.0 | 4,000.4 | 5,114.3 | 3,680.3 | 88.9 | 90.9 | -19.52 | 1,311.3 | 2,902.8 | 716.0 | 546.2 | 169.78 | 4.217 | | |
| 5,350.0 | 4,048.7 | 5,154.6 | 3,712.0 | 89.0 | 91.4 | -2.71 | 1,328.8 | 2,920.3 | 726.4 | 556.6 | 169.78 | 4.279 | | |
| 5,400.0 | 4,096.9 | 5,195.7 | 3,745.3 | 89.0 | 91.9 | 13.90 | 1,347.3 | 2,935.7 | 737.4 | 567.7 | 169.67 | 4.346 | | |
| 5,450.0 | 4,144.8 | 5,237.8 | 3,780.2 | 89.0 | 92.3 | 28.02 | 1,366.7 | 2,949.0 | 748.8 | 579.4 | 169.49 | 4.418 | | |
| 5,500.0 | 4,192.1 | 5,281.0 | 3,816.8 | 88.9 | 92.6 | 38.97 | 1,387.0 | 2,959.8 | 760.8 | 591.5 | 169.24 | 4.495 | | |
| 5,550.0 | 4,238.5 | 5,325.5 | 3,855.0 | 88.9 | 92.9 | 47.20 | 1,408.2 | 2,967.9 | 773.1 | 604.2 | 168.96 | 4.576 | | |
| 5,600.0 | 4,283.7 | 5,371.5 | 3,894.9 | 88.8 | 93.1 | 53.39 | 1,430.5 | 2,973.1 | 785.8 | 617.1 | 168.65 | 4.659 | | |
| 5,650.0 | 4,327.5 | 5,419.2 | 3,936.5 | 88.7 | 93.3 | 58.16 | 1,453.7 | 2,975.0 | 798.7 | 630.4 | 168.33 | 4.745 | | |

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|---|--|
| Reference Depths are relative to WELL @ 5001.0ft (Original Well Elev) | Coordinates are relative to: Bunker 8-7H |
| 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° |



| | |
|---|--|
| Reference Depths are relative to WELL @ 5001.0ft (Original Well Elev) | Coordinates are relative to: Bunker 8-7H |
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