

**Project:** Lea County, NM (NAD 27)  
**Site:** Maljamar  
**Well:** Maljamar AGI 2  
**Wellbore:** Wellbore #1  
**Plan:** Plan #2  
**Rig:** TBD

### SURFACE LOCATION

US State Plane 1927 (Exact solution)  
 New Mexico East 3001  
 Elevation: GL 4019.0' + 17.0' @ 4036.00usft (TBD)

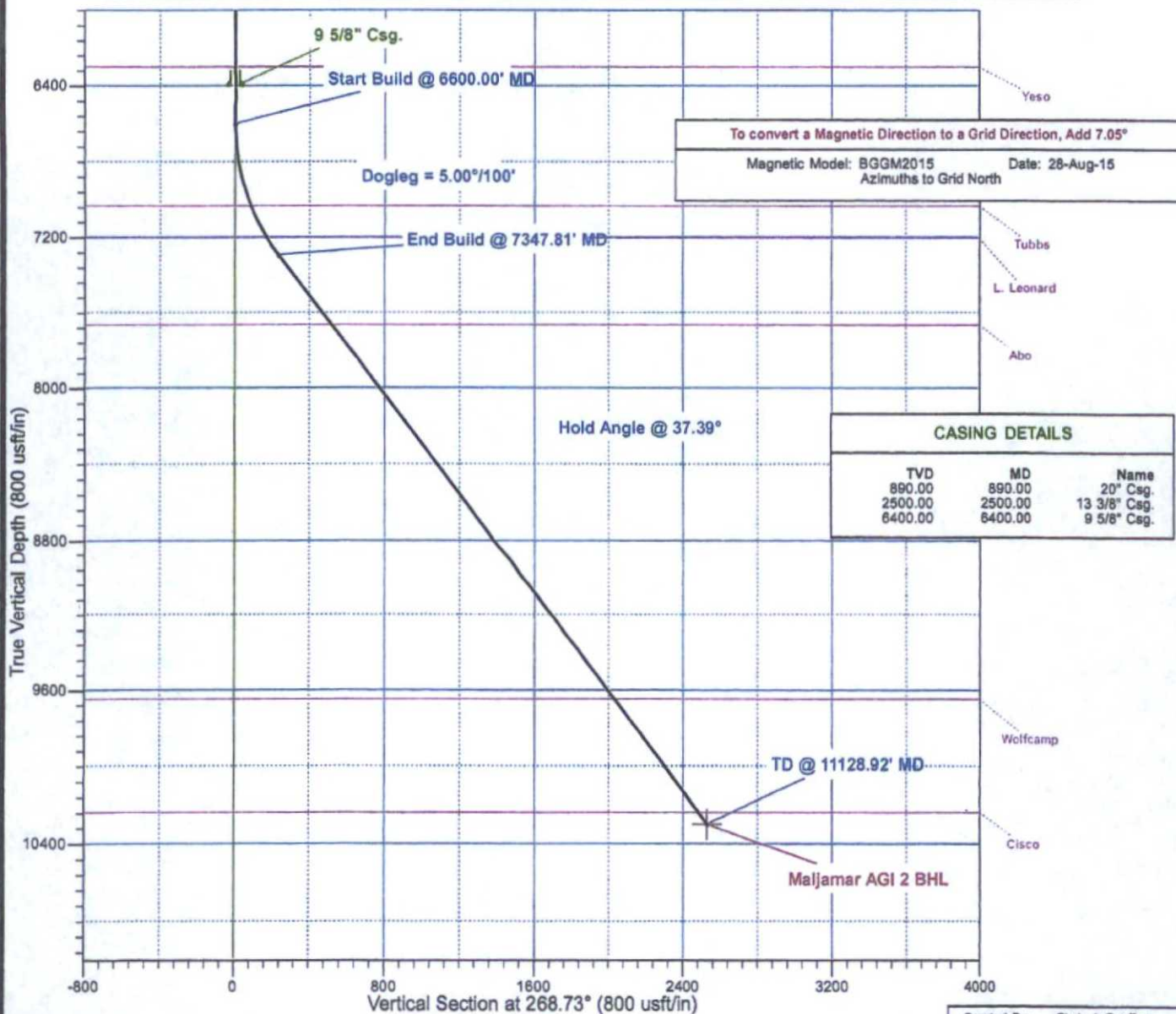
| Northing  | Easting   | Latitude         | Longitude        |
|-----------|-----------|------------------|------------------|
| 660255.80 | 673327.90 | 32° 48' 49.896 N | 103° 46' 8.995 W |

### SECTION DETAILS

| MD       | Inc   | Azi    | TVD      | +N/-S  | +E/-W    | Dleg | TFace  | VSec    | Annotation  |
|----------|-------|--------|----------|--------|----------|------|--------|---------|-------------|
| 0.00     | 0.00  | 0.00   | 0.00     | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    |             |
| 6600.00  | 0.00  | 0.00   | 6600.00  | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    | Start Build |
| 7347.81  | 37.39 | 268.73 | 7295.85  | -5.20  | -235.41  | 5.00 | 268.73 | 235.47  | End Build   |
| 11128.92 | 37.39 | 268.73 | 10300.00 | -55.90 | -2530.90 | 0.00 | 0.00   | 2531.52 | TD          |

### WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

| Name               | TVD      | +N/-S  | +E/-W    | Northing  | Easting   | Latitude         | Longitude         |
|--------------------|----------|--------|----------|-----------|-----------|------------------|-------------------|
| Maljamar AGI 2 BHL | 10300.00 | -55.90 | -2530.90 | 660199.90 | 670797.00 | 32° 48' 49.476 N | 103° 46' 38.654 W |



Created By: Clyde J. Geoffrey

JAN 04 2016

### CASING DETAILS

| TVD     | MD      | Name         |
|---------|---------|--------------|
| 890.00  | 890.00  | 20" Csg.     |
| 2500.00 | 2500.00 | 13 3/8" Csg. |
| 6400.00 | 6400.00 | 9 5/8" Csg.  |

**Project:** Lea County, NM (NAD 27)

**Site:** Majamar

**Well:** Majamar AGI 2

**Wellbore:** Wellbore #1

**Design:** Plan #2

**Rig:** TBD

### SURFACE LOCATION

|                                      |                                        |                  |                  |
|--------------------------------------|----------------------------------------|------------------|------------------|
| US State Plane 1927 (Exact solution) |                                        |                  |                  |
| New Mexico East 3001                 |                                        |                  |                  |
| Elevation:                           | GL 4019.0' + 17.0' @ 4036.00usft (TBD) | Longitude        |                  |
| Northing                             | 660255.80                              | 32° 48' 49.896 N | 103° 46' 8.995 W |
| Easting                              | 673327.90                              | 32° 48' 49.896 N | 103° 46' 8.995 W |

To convert a Magnetic Direction to a Grid Direction, Add 7.08°

Magnetic Model: BGM2015

Azimuths to Grid North

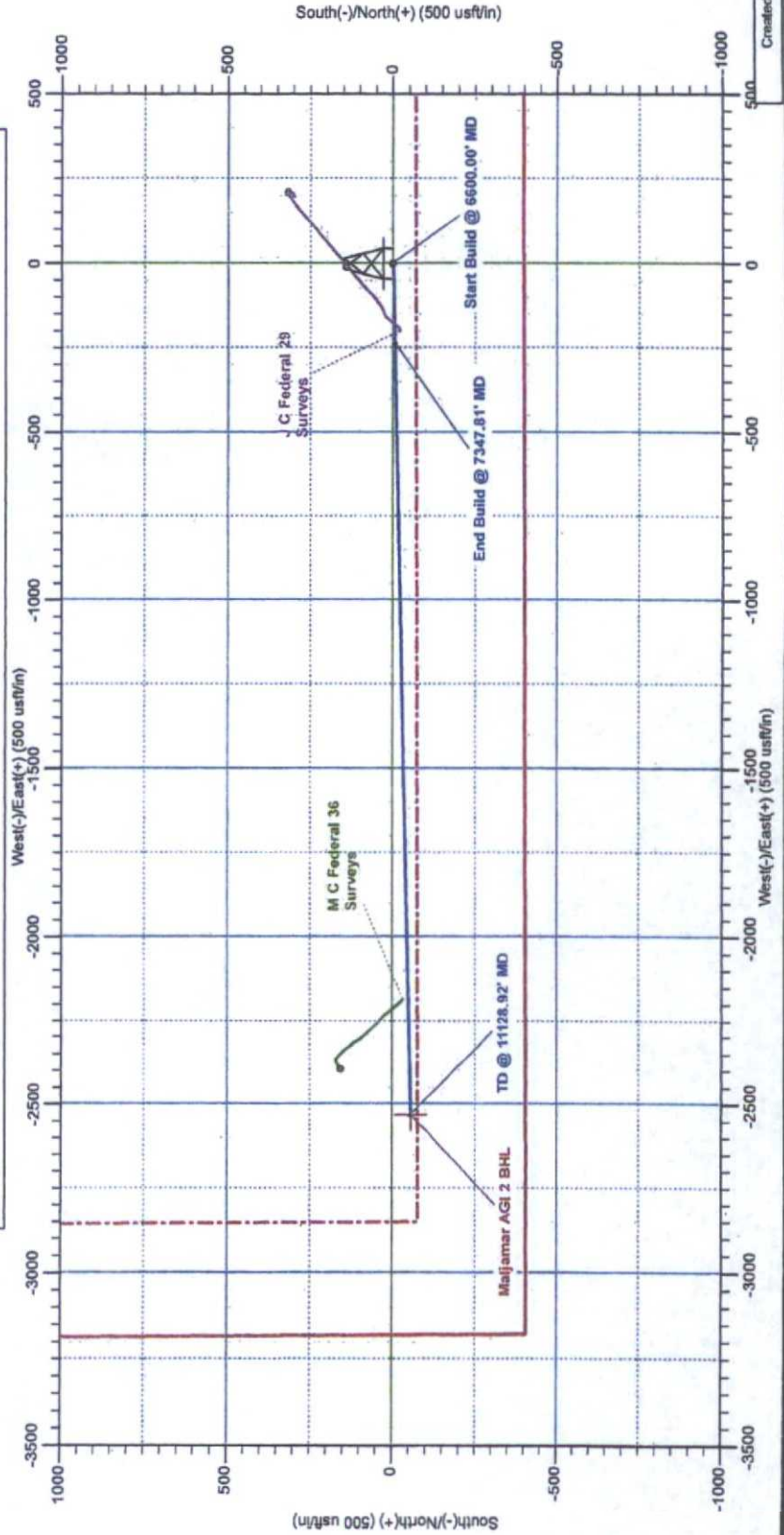
Date: 28-Aug-15

### SECTION DETAILS

| MD       | Inc   | Azi    | TVD      | +N/-S  | +E/-W    | Dleg | TFace  | VSecl   | Annotation  |
|----------|-------|--------|----------|--------|----------|------|--------|---------|-------------|
| 0.00     | 0.00  | 0.00   | 0.00     | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    | Start Build |
| 6600.00  | 0.00  | 0.00   | 6600.00  | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    | End Build   |
| 7347.81  | 37.39 | 268.73 | 7295.85  | -5.20  | -235.41  | 5.00 | 268.73 | 235.47  | TD          |
| 11128.92 | 37.39 | 268.73 | 10300.00 | -55.90 | -2530.90 | 0.00 | 0.00   | 2531.52 | TD          |

### WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

| Name              | TVD      | +N/-S  | +E/-W    | Northing  | Easting   | Latitude         | Longitude         |
|-------------------|----------|--------|----------|-----------|-----------|------------------|-------------------|
| Majamar AGI 2 BHL | 10300.00 | -55.90 | -2530.90 | 660199.90 | 670797.00 | 32° 48' 49.476 N | 103° 46' 38.654 W |





# Frontier Energy Services

Lea County, NM (NAD 27)

Maljamar

Maljamar AGI 2

Wellbore #1

Plan: Plan #2

## Sperry Drilling Services Proposal Report

01 September, 2015

Well Coordinates: 860,255.80 N, 673,327.90 E (32° 48' 49.90" N, 103° 46' 09.00" W)  
Ground Level: 4,019.00 usft

|                          |                                        |
|--------------------------|----------------------------------------|
| Local Coordinate Origin: | Centered on Well Maljamar AGI 2        |
| Viewing Datum:           | GL 4019.0' + 17.0' @ 4036.00usft (TBD) |
| TVDs to System:          | N                                      |
| North Reference:         | Grid                                   |
| Unit System:             | API - US Survey Feet                   |

Version: 5000.1 Build: 76

**HALLIBURTON**

**HALLIBURTON****Plan Report for Maljamar AGI 2 - Plan #2**

| Measured Depth (usft)                                  | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | Toolface Azimuth (°) |
|--------------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|----------------------|
| 0.00                                                   | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 860.00                                                 | 0.00            | 0.00        | 860.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Rustler</b>                                         |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 890.00                                                 | 0.00            | 0.00        | 890.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>20" Csg.</b>                                        |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 985.00                                                 | 0.00            | 0.00        | 985.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>T/Salt</b>                                          |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 1,989.00                                               | 0.00            | 0.00        | 1,989.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Tansil</b>                                          |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 2,067.00                                               | 0.00            | 0.00        | 2,067.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Yates</b>                                           |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 2,207.00                                               | 0.00            | 0.00        | 2,207.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>7R</b>                                              |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 2,500.00                                               | 0.00            | 0.00        | 2,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>13 3/8" Csg.</b>                                    |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 3,176.00                                               | 0.00            | 0.00        | 3,176.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Queen</b>                                           |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 3,537.00                                               | 0.00            | 0.00        | 3,537.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Grayburg</b>                                        |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 3,931.00                                               | 0.00            | 0.00        | 3,931.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>San Andres</b>                                      |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 5,571.00                                               | 0.00            | 0.00        | 5,571.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Glorietta</b>                                       |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 6,300.00                                               | 0.00            | 0.00        | 6,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Yeso</b>                                            |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 6,400.00                                               | 0.00            | 0.00        | 6,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>9 5/8" Csg.</b>                                     |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 6,600.00                                               | 0.00            | 0.00        | 6,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Start Build @ 6600.00' MD - Dogleg = 5.00°/100'</b> |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 6,700.00                                               | 5.00            | 268.73      | 6,699.87              | -0.10        | -4.36        | 4.36                    | 5.00                    | 5.00                   | 0.00                  | 268.73               |
| 6,800.00                                               | 10.00           | 268.73      | 6,798.99              | -0.38        | -17.40       | 17.41                   | 5.00                    | 5.00                   | 0.00                  | 0.00                 |
| 6,900.00                                               | 15.00           | 268.73      | 6,896.58              | -0.86        | -39.04       | 39.05                   | 5.00                    | 5.00                   | 0.00                  | 0.00                 |
| 7,000.00                                               | 20.00           | 268.73      | 6,991.93              | -1.53        | -69.09       | 69.11                   | 5.00                    | 5.00                   | 0.00                  | 0.00                 |
| 7,047.27                                               | 22.36           | 268.73      | 7,036.00              | -1.90        | -86.17       | 86.19                   | 5.00                    | 5.00                   | 0.00                  | 0.00                 |
| <b>Tubbs</b>                                           |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 7,100.00                                               | 25.00           | 268.73      | 7,084.28              | -2.37        | -107.34      | 107.36                  | 5.00                    | 5.00                   | 0.00                  | 0.00                 |
| 7,200.00                                               | 30.00           | 268.73      | 7,172.96              | -3.39        | -153.49      | 153.52                  | 5.00                    | 5.00                   | 0.00                  | 0.00                 |
| 7,238.54                                               | 31.93           | 268.73      | 7,206.00              | -3.83        | -173.31      | 173.35                  | 5.00                    | 5.00                   | 0.00                  | 0.00                 |
| <b>L. Leonard</b>                                      |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 7,300.00                                               | 35.00           | 268.73      | 7,257.27              | -4.58        | -207.19      | 207.24                  | 5.00                    | 5.00                   | 0.00                  | 0.00                 |
| 7,347.81                                               | 37.39           | 268.73      | 7,295.85              | -5.20        | -235.41      | 235.47                  | 5.00                    | 5.00                   | 0.00                  | 0.00                 |
| <b>End Build @ 7347.81' MD - Hold Angle @ 37.39°</b>   |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 7,400.00                                               | 37.39           | 268.73      | 7,337.32              | -5.90        | -267.09      | 267.16                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,500.00                                               | 37.39           | 268.73      | 7,416.77              | -7.24        | -327.80      | 327.88                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,600.00                                               | 37.39           | 268.73      | 7,496.22              | -8.58        | -388.51      | 388.61                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,700.00                                               | 37.39           | 268.73      | 7,575.67              | -9.92        | -449.22      | 449.33                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,800.00                                               | 37.39           | 268.73      | 7,655.12              | -11.26       | -509.93      | 510.06                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,814.95                                               | 37.39           | 268.73      | 7,667.00              | -11.46       | -519.01      | 519.13                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Abo</b>                                             |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 7,900.00                                               | 37.39           | 268.73      | 7,734.57              | -12.60       | -570.64      | 570.78                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,000.00                                               | 37.39           | 268.73      | 7,814.03              | -13.94       | -631.35      | 631.51                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,100.00                                               | 37.39           | 268.73      | 7,893.48              | -15.29       | -692.06      | 692.23                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,200.00                                               | 37.39           | 268.73      | 7,972.93              | -16.63       | -752.77      | 752.95                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,300.00                                               | 37.39           | 268.73      | 8,052.38              | -17.97       | -813.48      | 813.68                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,400.00                                               | 37.39           | 268.73      | 8,131.83              | -19.31       | -874.19      | 874.40                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,500.00                                               | 37.39           | 268.73      | 8,211.28              | -20.65       | -934.90      | 935.13                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |

## Plan Report for Maljamar AGI 2 - Plan #2

| Measured Depth (usft)                  | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | Toolface Azimuth (°) |
|----------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|----------------------|
| 8,600.00                               | 37.39           | 268.73      | 8,290.74              | -21.99       | -995.61      | 995.85                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,700.00                               | 37.39           | 268.73      | 8,370.19              | -23.33       | -1,056.32    | 1,056.58                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,800.00                               | 37.39           | 268.73      | 8,449.64              | -24.67       | -1,117.03    | 1,117.30                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,900.00                               | 37.39           | 268.73      | 8,529.09              | -26.01       | -1,177.74    | 1,178.02                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,000.00                               | 37.39           | 268.73      | 8,608.54              | -27.35       | -1,238.45    | 1,238.75                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,100.00                               | 37.39           | 268.73      | 8,687.99              | -28.69       | -1,299.16    | 1,299.47                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,200.00                               | 37.39           | 268.73      | 8,767.45              | -30.04       | -1,359.87    | 1,360.20                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,300.00                               | 37.39           | 268.73      | 8,846.90              | -31.38       | -1,420.58    | 1,420.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,400.00                               | 37.39           | 268.73      | 8,926.35              | -32.72       | -1,481.28    | 1,481.65                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,500.00                               | 37.39           | 268.73      | 9,005.80              | -34.06       | -1,541.99    | 1,542.37                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,600.00                               | 37.39           | 268.73      | 9,085.25              | -35.40       | -1,602.70    | 1,603.09                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,700.00                               | 37.39           | 268.73      | 9,164.70              | -36.74       | -1,663.41    | 1,663.82                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,800.00                               | 37.39           | 268.73      | 9,244.16              | -38.08       | -1,724.12    | 1,724.54                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,900.00                               | 37.39           | 268.73      | 9,323.61              | -39.42       | -1,784.83    | 1,785.27                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,000.00                              | 37.39           | 268.73      | 9,403.06              | -40.76       | -1,845.54    | 1,845.99                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,100.00                              | 37.39           | 268.73      | 9,482.51              | -42.10       | -1,906.25    | 1,906.72                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,200.00                              | 37.39           | 268.73      | 9,561.96              | -43.44       | -1,966.96    | 1,967.44                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,300.00                              | 37.39           | 268.73      | 9,641.41              | -44.79       | -2,027.67    | 2,028.16                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,308.29                              | 37.39           | 268.73      | 9,648.00              | -44.90       | -2,032.70    | 2,033.20                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| Wolfcamp                               |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 10,400.00                              | 37.39           | 268.73      | 9,720.87              | -46.13       | -2,088.38    | 2,088.89                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,500.00                              | 37.39           | 268.73      | 9,800.32              | -47.47       | -2,149.09    | 2,149.61                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,600.00                              | 37.39           | 268.73      | 9,879.77              | -48.81       | -2,209.80    | 2,210.34                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,700.00                              | 37.39           | 268.73      | 9,959.22              | -50.15       | -2,270.51    | 2,271.06                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,800.00                              | 37.39           | 268.73      | 10,038.67             | -51.49       | -2,331.22    | 2,331.79                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,900.00                              | 37.39           | 268.73      | 10,118.12             | -52.83       | -2,391.93    | 2,392.51                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 11,000.00                              | 37.39           | 268.73      | 10,197.57             | -54.17       | -2,452.64    | 2,453.23                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 11,050.88                              | 37.39           | 268.73      | 10,238.00             | -54.85       | -2,483.53    | 2,484.13                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| Cisco                                  |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 11,100.00                              | 37.39           | 268.73      | 10,277.03             | -55.51       | -2,513.35    | 2,513.96                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 11,128.92                              | 37.39           | 268.73      | 10,300.00             | -55.90       | -2,530.90    | 2,531.52                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| TD @ 11128.92' MD - Maljamar AGI 2 BHL |                 |             |                       |              |              |                         |                         |                        |                       |                      |

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | +E/-W (usft) | Comment                   |
|-----------------------|-----------------------|--------------------------------|--------------|---------------------------|
| 6,600.00              | 6,600.00              | 0.00                           | 0.00         | Start Build @ 6600.00' MD |
| 6,600.00              | 6,600.00              | 0.00                           | 0.00         | Dogleg = 5.00°/100'       |
| 7,347.81              | 7,295.85              | -5.20                          | -235.41      | End Build @ 7347.81' MD   |
| 7,347.81              | 7,295.85              | -5.20                          | -235.41      | Hold Angle @ 37.39°       |
| 11,128.92             | 10,300.00             | -55.90                         | -2,530.90    | TD @ 11128.92' MD         |

Vertical Section Information

| Angle Type | Target               | Azimuth (°) | Origin Type | Origin +N/-S (usft) | +E/-W (usft) | Start TVD (usft) |
|------------|----------------------|-------------|-------------|---------------------|--------------|------------------|
| TD         | No Target (Freehand) | 268.73      | Slot        | 0.00                | 0.00         | 0.00             |

Survey tool program

| From (usft) | To (usft) | Survey/Plan | Survey Tool |
|-------------|-----------|-------------|-------------|
| 0.00        | 11,128.92 | Plan #2     | MWD         |



## Plan Report for Maljamar AGI 2 - Plan #2

Casing Details

| Measured Depth (usft) | Vertical Depth (usft) | Name         | Casing Diameter (") | Hole Diameter (") |
|-----------------------|-----------------------|--------------|---------------------|-------------------|
| 890.00                | 890.00                | 20" Csg.     | 20                  | 26                |
| 2,500.00              | 2,500.00              | 13 3/8" Csg. | 13-3/8              | 17-1/2            |
| 6,400.00              | 6,400.00              | 9 5/8" Csg.  | 9-5/8               | 12-1/4            |

Formation Details

| Measured Depth (usft) | Vertical Depth (usft) | Name       | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|------------|-----------|---------|-------------------|
| 860.00                | 860.00                | Rustler    |           | 0.00    | 268.66            |
| 985.00                | 985.00                | T/Salt     |           | 0.00    | 268.66            |
| 1,989.00              | 1,989.00              | Tansil     |           | 0.00    | 268.66            |
| 2,067.00              | 2,067.00              | Yates      |           | 0.00    | 268.66            |
| 2,207.00              | 2,207.00              | 7R         |           | 0.00    | 268.66            |
| 3,176.00              | 3,176.00              | Queen      |           | 0.00    | 268.66            |
| 3,537.00              | 3,537.00              | Grayburg   |           | 0.00    | 268.66            |
| 3,931.00              | 3,931.00              | San Andres |           | 0.00    | 268.66            |
| 5,571.00              | 5,571.00              | Glorietta  |           | 0.00    | 268.66            |
| 6,300.00              | 6,300.00              | Yeso       |           | 0.00    | 268.66            |
| 7,047.27              | 7,036.00              | Tubbs      |           | 0.00    | 268.66            |
| 7,238.54              | 7,206.00              | L. Leonard |           | 0.00    | 268.66            |
| 7,814.95              | 7,667.00              | Abo        |           | 0.00    | 268.66            |
| 10,308.29             | 9,648.00              | Wolfcamp   |           | 0.00    | 268.66            |
| 11,050.88             | 10,238.00             | Cisco      |           | 0.00    | 268.66            |

Targets associated with this wellbore

| Target Name        | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Shape |
|--------------------|------------|--------------|--------------|-------|
| Maljamar AGI 2 BHL | 10,300.00  | -55.90       | -2,530.90    | Point |

## North Reference Sheet for Maljamar - Maljamar AGI 2 - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 4019.0' + 17.0' @ 4036.00usft (TBD). Northing and Easting are relative to Maljamar AGI 2

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99994349

Grid Coordinates of Well: 660,255.80 usft N, 673,327.90 usft E

Geographical Coordinates of Well: 32° 48' 49.90" N, 103° 46' 09.00" W

Grid Convergence at Surface is: 0.31°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,128.92usft  
the Bottom Hole Displacement is 2,531.52usft in the Direction of 268.73° (Grid).

Magnetic Convergence at surface is: -7.05° (28 August 2015, , BGGM2015)

