



Lea County, NM (NAD 27 NME)

Bridge State Unit #501H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (East solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
System Datum: Mean Sea Level

WELL DETAILS: #501H

Ground Level: 3573.0  
Rb = 25' @ 3596.00 ft  
Northing: 499773.00  
Easting: 789197.00  
Latitude: 32° 22' 13.542 N  
Longitude: 103° 33' 47.960 W

#### SECTION DETAILS

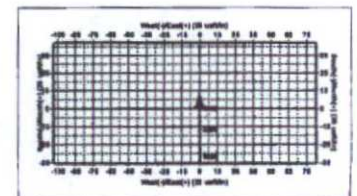
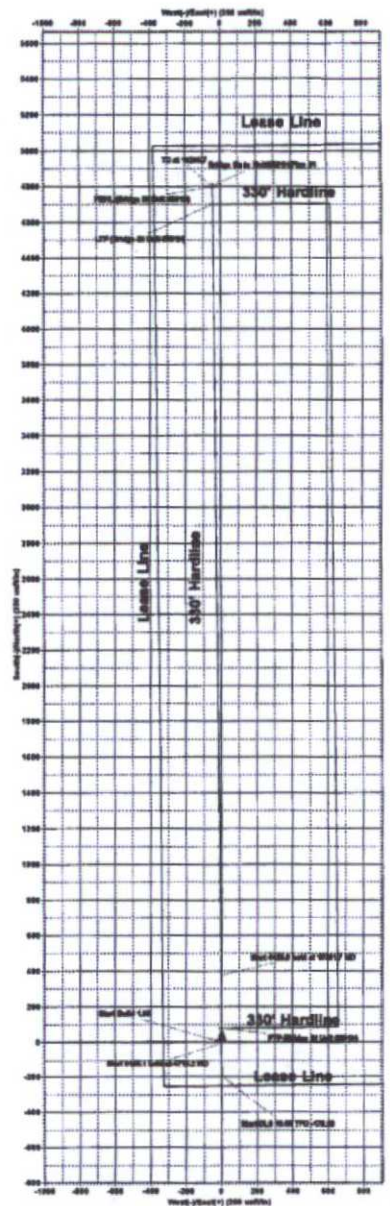
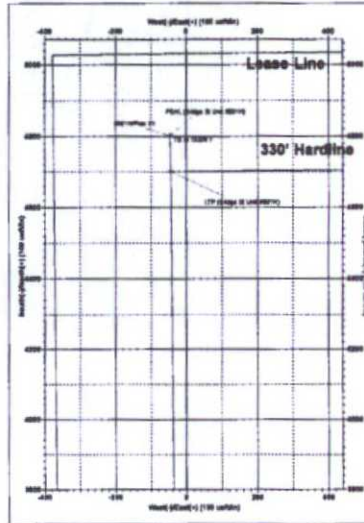
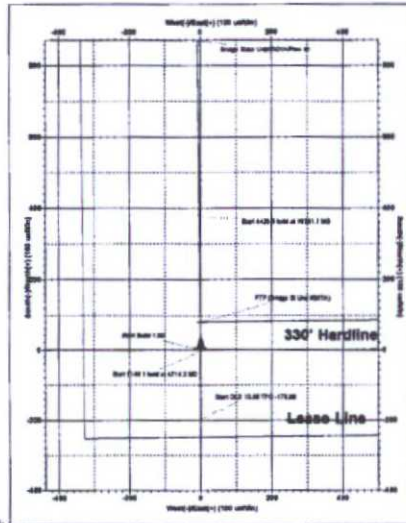
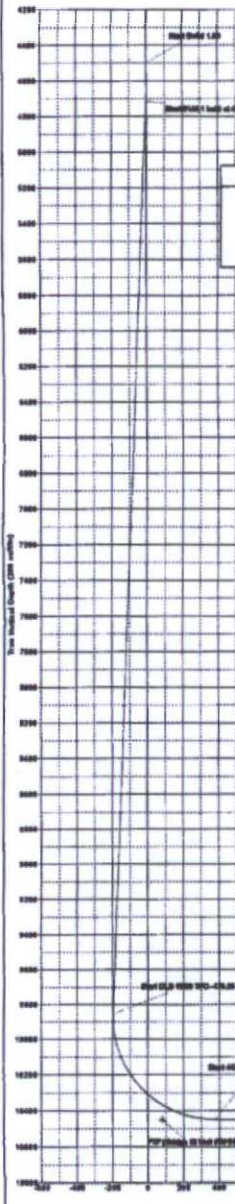
| Sec | WD      | Inc   | Azi    | TVD     | +N/-S  | +E/-W | Diag  | TPace   | Vsect  | Target | Annotation                  |
|-----|---------|-------|--------|---------|--------|-------|-------|---------|--------|--------|-----------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.00  | 0.00  | 0.0     |        |        |                             |
| 2   | 4908.0  | 0.00  | 0.00   | 4908.0  | 0.0    | 0.0   | 0.00  | 0.00    | 0.0    |        |                             |
| 3   | 4714.3  | 3.14  | 179.43 | 4714.1  | -4.0   | 0.0   | 1.00  | 179.43  | -4.0   |        |                             |
| 4   | 4986.3  | 3.14  | 179.43 | 4986.0  | -196.0 | 0.0   | 0.00  | 0.00    | -196.0 |        |                             |
| 5   | 10791.7 | 90.00 | 389.46 | 10481.0 | 379.3  | -4.0  | 10.00 | -179.98 | 379.3  |        |                             |
| 6   | 10356.7 | 90.00 | 389.46 | 10481.0 | 4801.0 | -48.0 | 0.00  | 0.00    | 4801.0 |        | PBLS (Bridge St Unit #501H) |

#### CASING DETAILS

No casing data is available

#### WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name                        | TVD     | +N/-S  | +E/-W | Northing  | Easting   |
|-----------------------------|---------|--------|-------|-----------|-----------|
| PBLS (Bridge St Unit #501H) | 10481.0 | 4801.0 | -48.0 | 504874.00 | 789197.00 |
| PTP (Bridge St Unit #501H)  | 10481.0 | 80.0   | 0.0   | 488993.00 | 789197.00 |
| LTP (Bridge St Unit #501H)  | 10481.0 | 4701.0 | -48.0 | 504874.00 | 789197.00 |



OCT 22 2015



## **EOG Resources - Midland**

**Lea County, NM (NAD 27 NME)**

**Bridge State Unit**

**#501H**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**08 October, 2015**



# EOG Resources, Inc.

## Planning Report

**Database:** EDM 5000.1 Single User Db  
**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 27 NME)  
**Site:** Bridge State Unit  
**Well:** #501H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #501H  
**TVD Reference:** Kb = 25' @ 3598.0usft  
**MD Reference:** Kb = 25' @ 3598.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM (NAD 27 NME)          |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |                   |                     |                 |                                     |
|------------------------------|-------------------|---------------------|-----------------|-------------------------------------|
| <b>Site</b>                  | Bridge State Unit |                     |                 |                                     |
| <b>Site Position:</b>        |                   | <b>Northing:</b>    | 499,773.00 usft | <b>Latitude:</b> 32° 22' 13.842 N   |
| <b>From:</b>                 | Map               | <b>Easting:</b>     | 789,197.00 usft | <b>Longitude:</b> 103° 23' 47.960 W |
| <b>Position Uncertainty:</b> | 0.0 usft          | <b>Slot Radius:</b> | 13-3/16"        | <b>Grid Convergence:</b> 0.50 °     |

|                             |          |                            |                                  |                                     |
|-----------------------------|----------|----------------------------|----------------------------------|-------------------------------------|
| <b>Well</b>                 | #501H    |                            |                                  |                                     |
| <b>Well Position</b>        | +N/-S    | 0.0 usft                   | <b>Northing:</b> 499,773.00 usft | <b>Latitude:</b> 32° 22' 13.842 N   |
|                             | +E/-W    | 0.0 usft                   | <b>Easting:</b> 789,197.00 usft  | <b>Longitude:</b> 103° 23' 47.960 W |
| <b>Position Uncertainty</b> | 0.0 usft | <b>Wellhead Elevation:</b> | 0.0 usft                         | <b>Ground Level:</b> 3,573.0 usft   |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 10/8/2015          | 7.07                   | 60.25                | 48,217                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #1                        |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                 | 0.0                  | 359.45               |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | 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    |                       |
| 4,500.0               | 0.00            | 0.00        | 4,500.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                       |
| 4,714.2               | 2.14            | 179.43      | 4,714.1               | -4.0         | 0.0          | 1.00                    | 1.00                   | 0.00                  | 179.43  |                       |
| 9,860.3               | 2.14            | 179.43      | 9,856.6               | -196.3       | 2.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                       |
| 10,781.7              | 90.00           | 359.45      | 10,451.0              | 376.2        | -3.5         | 10.00                   | 9.54                   | -19.53                | -179.98 |                       |
| 15,206.7              | 90.00           | 359.45      | 10,451.0              | 4,801.0      | -46.0        | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL (Bridge St Unit) |



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## Planning Report

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Local Co-ordinate Reference: Well #501H  
 TVD Reference: Kb = 25' @ 3598.0usft  
 MD Reference: Kb = 25' @ 3598.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

### Planned Survey

| 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 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                  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0               | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0               | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0               | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0               | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0               | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0               | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0               | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 0.00            | 0.00        | 2,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 0.00            | 0.00        | 2,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 0.00            | 0.00        | 2,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 0.00            | 0.00        | 2,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 0.00            | 0.00        | 2,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 0.00            | 0.00        | 2,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 0.00            | 0.00        | 2,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 0.00            | 0.00        | 2,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 0.00            | 0.00        | 2,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 0.00            | 0.00        | 3,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 0.00            | 0.00        | 3,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 0.00            | 0.00        | 3,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 0.00            | 0.00        | 3,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 0.00            | 0.00        | 3,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 0.00            | 0.00        | 3,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 0.00            | 0.00        | 3,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 0.00            | 0.00        | 3,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 0.00            | 0.00        | 3,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 0.00            | 0.00        | 3,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 0.00            | 0.00        | 4,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 0.00            | 0.00        | 4,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 0.00            | 0.00        | 4,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 0.00            | 0.00        | 4,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 0.00            | 0.00        | 4,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 0.00            | 0.00        | 4,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 1.00            | 179.43      | 4,600.0               | -0.9         | 0.0          | -0.9                    | 1.00                    | 1.00                   | 0.00                  |
| 4,700.0               | 2.00            | 179.43      | 4,700.0               | -3.5         | 0.0          | -3.5                    | 1.00                    | 1.00                   | 0.00                  |
| 4,714.2               | 2.14            | 179.43      | 4,714.1               | -4.0         | 0.0          | -4.0                    | 1.00                    | 1.00                   | 0.00                  |
| 4,800.0               | 2.14            | 179.43      | 4,799.9               | -7.2         | 0.1          | -7.2                    | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 2.14            | 179.43      | 4,899.8               | -10.9        | 0.1          | -10.9                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 2.14            | 179.43      | 4,999.8               | -14.7        | 0.1          | -14.7                   | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 2.14            | 179.43      | 5,099.7               | -18.4        | 0.2          | -18.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 2.14            | 179.43      | 5,199.6               | -22.2        | 0.2          | -22.2                   | 0.00                    | 0.00                   | 0.00                  |



# EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 27 NME)  
 Site: Bridge State Unit  
 Well: #501H  
 Wellbore: OH  
 Design: Plan #1

Local Co-ordinate Reference: Well #501H  
 TVD Reference: Kb = 25' @ 3598.0usft  
 MD Reference: Kb = 25' @ 3598.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

### Planned Survey

| 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,300.0               | 2.14            | 179.43      | 5,299.5               | -25.9        | 0.3          | -25.9                   | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 2.14            | 179.43      | 5,399.5               | -29.6        | 0.3          | -29.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 2.14            | 179.43      | 5,499.4               | -33.4        | 0.3          | -33.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 2.14            | 179.43      | 5,599.3               | -37.1        | 0.4          | -37.1                   | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 2.14            | 179.43      | 5,699.3               | -40.8        | 0.4          | -40.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 2.14            | 179.43      | 5,799.2               | -44.6        | 0.4          | -44.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 2.14            | 179.43      | 5,899.1               | -48.3        | 0.5          | -48.3                   | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 2.14            | 179.43      | 5,999.1               | -52.1        | 0.5          | -52.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 2.14            | 179.43      | 6,099.0               | -55.8        | 0.6          | -55.8                   | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 2.14            | 179.43      | 6,198.9               | -59.5        | 0.6          | -59.5                   | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 2.14            | 179.43      | 6,298.8               | -63.3        | 0.6          | -63.3                   | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 2.14            | 179.43      | 6,398.8               | -67.0        | 0.7          | -67.0                   | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 2.14            | 179.43      | 6,498.7               | -70.7        | 0.7          | -70.7                   | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 2.14            | 179.43      | 6,598.6               | -74.5        | 0.7          | -74.5                   | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 2.14            | 179.43      | 6,698.6               | -78.2        | 0.8          | -78.2                   | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 2.14            | 179.43      | 6,798.5               | -82.0        | 0.8          | -82.0                   | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 2.14            | 179.43      | 6,898.4               | -85.7        | 0.9          | -85.7                   | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 2.14            | 179.43      | 6,998.4               | -89.4        | 0.9          | -89.4                   | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 2.14            | 179.43      | 7,098.3               | -93.2        | 0.9          | -93.2                   | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 2.14            | 179.43      | 7,198.2               | -96.9        | 1.0          | -96.9                   | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 2.14            | 179.43      | 7,298.1               | -100.6       | 1.0          | -100.6                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 2.14            | 179.43      | 7,398.1               | -104.4       | 1.0          | -104.4                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 2.14            | 179.43      | 7,498.0               | -108.1       | 1.1          | -108.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 2.14            | 179.43      | 7,597.9               | -111.9       | 1.1          | -111.9                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 2.14            | 179.43      | 7,697.9               | -115.6       | 1.2          | -115.6                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 2.14            | 179.43      | 7,797.8               | -119.3       | 1.2          | -119.3                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 2.14            | 179.43      | 7,897.7               | -123.1       | 1.2          | -123.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 2.14            | 179.43      | 7,997.7               | -126.8       | 1.3          | -126.8                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 2.14            | 179.43      | 8,097.6               | -130.5       | 1.3          | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 2.14            | 179.43      | 8,197.5               | -134.3       | 1.3          | -134.3                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 2.14            | 179.43      | 8,297.4               | -138.0       | 1.4          | -138.0                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 2.14            | 179.43      | 8,397.4               | -141.8       | 1.4          | -141.8                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 2.14            | 179.43      | 8,497.3               | -145.5       | 1.5          | -145.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 2.14            | 179.43      | 8,597.2               | -149.2       | 1.5          | -149.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 2.14            | 179.43      | 8,697.2               | -153.0       | 1.5          | -153.0                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 2.14            | 179.43      | 8,797.1               | -156.7       | 1.6          | -156.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 2.14            | 179.43      | 8,897.0               | -160.4       | 1.6          | -160.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 2.14            | 179.43      | 8,997.0               | -164.2       | 1.6          | -164.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 2.14            | 179.43      | 9,096.9               | -167.9       | 1.7          | -167.9                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 2.14            | 179.43      | 9,196.8               | -171.7       | 1.7          | -171.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 2.14            | 179.43      | 9,296.7               | -175.4       | 1.8          | -175.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 2.14            | 179.43      | 9,396.7               | -179.1       | 1.8          | -179.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 2.14            | 179.43      | 9,496.6               | -182.9       | 1.8          | -182.9                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 2.14            | 179.43      | 9,596.5               | -186.6       | 1.9          | -186.6                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 2.14            | 179.43      | 9,696.5               | -190.3       | 1.9          | -190.3                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 2.14            | 179.43      | 9,796.4               | -194.1       | 1.9          | -194.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,860.3               | 2.14            | 179.43      | 9,856.6               | -198.3       | 2.0          | -198.3                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 1.83            | 359.48      | 9,896.3               | -198.4       | 2.0          | -198.4                  | 10.00                   | -0.78                  | -452.97               |
| 9,950.0               | 6.83            | 359.46      | 9,946.2               | -192.7       | 1.9          | -192.7                  | 10.00                   | 10.00                  | -0.04                 |
| 10,000.0              | 11.83           | 359.45      | 9,995.5               | -184.6       | 1.9          | -184.6                  | 10.00                   | 10.00                  | -0.01                 |
| 10,050.0              | 16.83           | 359.45      | 10,043.9              | -172.2       | 1.7          | -172.2                  | 10.00                   | 10.00                  | 0.00                  |
| 10,100.0              | 21.83           | 359.45      | 10,091.1              | -155.6       | 1.6          | -155.6                  | 10.00                   | 10.00                  | 0.00                  |
| 10,150.0              | 26.83           | 359.45      | 10,136.7              | -135.0       | 1.4          | -135.1                  | 10.00                   | 10.00                  | 0.00                  |
| 10,200.0              | 31.83           | 359.45      | 10,180.2              | -110.6       | 1.1          | -110.6                  | 10.00                   | 10.00                  | 0.00                  |



# EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 27 NME)  
 Site: Bridge State Unit  
 Well: #501H  
 Wellbore: OH  
 Design: Plan #1

Local Co-ordinate Reference: Well #501H  
 TVD Reference: Kb = 25' @ 3598.0usft  
 MD Reference: Kb = 25' @ 3598.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

### Planned Survey

| 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) |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,250.0                   | 36.83           | 359.45      | 10,221.5              | -82.4        | 0.9          | -82.4                   | 10.00                   | 10.00                  | 0.00                  |
| 10,300.0                   | 41.83           | 359.45      | 10,280.2              | -50.7        | 0.6          | -50.7                   | 10.00                   | 10.00                  | 0.00                  |
| 10,350.0                   | 46.83           | 359.45      | 10,295.9              | -15.8        | 0.2          | -15.8                   | 10.00                   | 10.00                  | 0.00                  |
| 10,400.0                   | 51.83           | 359.45      | 10,328.5              | 22.1         | -0.1         | 22.1                    | 10.00                   | 10.00                  | 0.00                  |
| 10,450.0                   | 56.83           | 359.45      | 10,357.6              | 62.7         | -0.5         | 62.7                    | 10.00                   | 10.00                  | 0.00                  |
| 10,500.0                   | 61.83           | 359.45      | 10,383.1              | 105.7        | -0.9         | 105.7                   | 10.00                   | 10.00                  | 0.00                  |
| 10,506.2                   | 62.45           | 359.45      | 10,386.0              | 111.2        | -1.0         | 111.2                   | 10.00                   | 10.00                  | 0.00                  |
| FTP (Bridge St Unit #501H) |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,550.0                   | 66.83           | 359.45      | 10,404.8              | 150.8        | -1.4         | 150.8                   | 10.00                   | 10.00                  | 0.00                  |
| 10,600.0                   | 71.83           | 359.45      | 10,422.4              | 197.5        | -1.8         | 197.6                   | 10.00                   | 10.00                  | 0.00                  |
| 10,650.0                   | 76.83           | 359.45      | 10,435.9              | 245.7        | -2.3         | 245.7                   | 10.00                   | 10.00                  | 0.00                  |
| 10,700.0                   | 81.83           | 359.45      | 10,445.2              | 294.8        | -2.7         | 294.8                   | 10.00                   | 10.00                  | 0.00                  |
| 10,750.0                   | 86.83           | 359.45      | 10,450.1              | 344.5        | -3.2         | 344.5                   | 10.00                   | 10.00                  | 0.00                  |
| 10,781.7                   | 90.00           | 359.45      | 10,451.0              | 376.2        | -3.5         | 376.2                   | 10.00                   | 10.00                  | 0.00                  |
| 10,800.0                   | 90.00           | 359.45      | 10,451.0              | 394.5        | -3.7         | 394.5                   | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                   | 90.00           | 359.45      | 10,451.0              | 494.5        | -4.7         | 494.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                   | 90.00           | 359.45      | 10,451.0              | 594.5        | -5.6         | 594.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                   | 90.00           | 359.45      | 10,451.0              | 694.5        | -6.6         | 694.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                   | 90.00           | 359.45      | 10,451.0              | 794.5        | -7.5         | 794.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                   | 90.00           | 359.45      | 10,451.0              | 894.5        | -8.5         | 894.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                   | 90.00           | 359.45      | 10,451.0              | 994.5        | -9.5         | 994.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                   | 90.00           | 359.45      | 10,451.0              | 1,094.5      | -10.4        | 1,094.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                   | 90.00           | 359.45      | 10,451.0              | 1,194.5      | -11.4        | 1,194.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                   | 90.00           | 359.45      | 10,451.0              | 1,294.5      | -12.3        | 1,294.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                   | 90.00           | 359.45      | 10,451.0              | 1,394.5      | -13.3        | 1,394.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                   | 90.00           | 359.45      | 10,451.0              | 1,494.5      | -14.3        | 1,494.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                   | 90.00           | 359.45      | 10,451.0              | 1,594.5      | -15.2        | 1,594.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                   | 90.00           | 359.45      | 10,451.0              | 1,694.5      | -16.2        | 1,694.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                   | 90.00           | 359.45      | 10,451.0              | 1,794.4      | -17.1        | 1,794.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                   | 90.00           | 359.45      | 10,451.0              | 1,894.4      | -18.1        | 1,894.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                   | 90.00           | 359.45      | 10,451.0              | 1,994.4      | -19.1        | 1,994.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                   | 90.00           | 359.45      | 10,451.0              | 2,094.4      | -20.0        | 2,094.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                   | 90.00           | 359.45      | 10,451.0              | 2,194.4      | -21.0        | 2,194.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                   | 90.00           | 359.45      | 10,451.0              | 2,294.4      | -21.9        | 2,294.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                   | 90.00           | 359.45      | 10,451.0              | 2,394.4      | -22.9        | 2,394.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                   | 90.00           | 359.45      | 10,451.0              | 2,494.4      | -23.9        | 2,494.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                   | 90.00           | 359.45      | 10,451.0              | 2,594.4      | -24.8        | 2,594.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                   | 90.00           | 359.45      | 10,451.0              | 2,694.4      | -25.8        | 2,694.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                   | 90.00           | 359.45      | 10,451.0              | 2,794.4      | -26.7        | 2,794.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                   | 90.00           | 359.45      | 10,451.0              | 2,894.4      | -27.7        | 2,894.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                   | 90.00           | 359.45      | 10,451.0              | 2,994.4      | -28.7        | 2,994.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                   | 90.00           | 359.45      | 10,451.0              | 3,094.4      | -29.6        | 3,094.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                   | 90.00           | 359.45      | 10,451.0              | 3,194.4      | -30.6        | 3,194.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                   | 90.00           | 359.45      | 10,451.0              | 3,294.4      | -31.5        | 3,294.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                   | 90.00           | 359.45      | 10,451.0              | 3,394.4      | -32.5        | 3,394.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0                   | 90.00           | 359.45      | 10,451.0              | 3,494.4      | -33.5        | 3,494.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0                   | 90.00           | 359.45      | 10,451.0              | 3,594.4      | -34.4        | 3,594.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0                   | 90.00           | 359.45      | 10,451.0              | 3,694.4      | -35.4        | 3,694.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0                   | 90.00           | 359.45      | 10,451.0              | 3,794.4      | -36.3        | 3,794.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0                   | 90.00           | 359.45      | 10,451.0              | 3,894.3      | -37.3        | 3,894.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0                   | 90.00           | 359.45      | 10,451.0              | 3,994.3      | -38.3        | 3,994.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0                   | 90.00           | 359.45      | 10,451.0              | 4,094.3      | -39.2        | 4,094.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0                   | 90.00           | 359.45      | 10,451.0              | 4,194.3      | -40.2        | 4,194.5                 | 0.00                    | 0.00                   | 0.00                  |



# EOG Resources, Inc.

## Planning Report

**Database:** EDM 5000.1 Single User Db  
**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 27 NME)  
**Site:** Bridge State Unit  
**Well:** #501H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #501H  
**TVD Reference:** Kb = 25' @ 3598.0usft  
**MD Reference:** Kb = 25' @ 3598.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

| 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) |
|-----------------------------|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 14,700.0                    | 90.00           | 359.45      | 10,451.0              | 4,294.3     | -41.1       | 4,294.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0                    | 90.00           | 359.45      | 10,451.0              | 4,394.3     | -42.1       | 4,394.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0                    | 90.00           | 359.45      | 10,451.0              | 4,494.3     | -43.1       | 4,494.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0                    | 90.00           | 359.45      | 10,451.0              | 4,594.3     | -44.0       | 4,594.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0                    | 90.00           | 359.45      | 10,451.0              | 4,694.3     | -45.0       | 4,694.5                 | 0.00                    | 0.00                   | 0.00                  |
| LTP (Bridge St Unit #501H)  |                 |             |                       |             |             |                         |                         |                        |                       |
| 15,206.7                    | 90.00           | 359.45      | 10,451.0              | 4,801.0     | -46.0       | 4,801.2                 | 0.00                    | 0.00                   | 0.00                  |
| PBHL (Bridge St Unit #501H) |                 |             |                       |             |             |                         |                         |                        |                       |

### Design Targets

| Target Name<br>- hit/miss target<br>- Shape                                                                                      | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N-S (usft) | +E-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
|----------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|-------------|-------------|-----------------|----------------|------------------|-------------------|
| PBHL (Bridge St Unit #5<br>- plan hits target center<br>- Point                                                                  | 0.00          | 0.00         | 10,451.0   | 4,801.0     | -46.0       | 504,574.00      | 789,151.00     | 32° 23' 1.351 N  | 103° 23' 48.006 W |
| FTP (Bridge St Unit #50<br>- plan misses target center by 72.1usft at 10506.2usft MD (10386.0 TVD, 111.2 N, -1.0 E)<br>- Point   | 0.00          | 0.00         | 10,451.0   | 80.0        | 0.0         | 499,853.00      | 789,197.00     | 32° 22' 14.634 N | 103° 23' 47.952 W |
| LTP (Bridge St Unit #501<br>- plan misses target center by 6.7usft at 15100.0usft MD (10451.0 TVD, 4694.3 N, -45.0 E)<br>- Point | 0.00          | 0.00         | 10,451.0   | 4,701.0     | -45.0       | 504,474.00      | 789,152.00     | 32° 23' 0.362 N  | 103° 23' 48.005 W |

**EOG RESOURCES, INC.**  
**BRIDGE STATE UNIT #501H**

**Hydrogen Sulfide Plan Summary**

- A. All personnel shall receive proper H<sub>2</sub>S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

- Well control equipment
  - a. Flare line 150' from wellhead to be ignited by flare gun.
  - b. Choke manifold with a remotely operated choke.
  - c. Mud/gas separator
- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs — 4 packs shall be stored on the rig floor th sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H<sub>2</sub>S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
  - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  - c. Two wind socks will be placed in strategic locations, visible from all angles.

**EOG RESOURCES, INC.**  
**BRIDGE STATE UNIT #501H**

- **Mud program:**  
The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H<sub>2</sub>S bearing zones.
- **Metallurgy:**  
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H<sub>2</sub>S service.
- **Communication:**  
Communication will be via cell phones and land lines where available.

**EOG RESOURCES, INC.  
BRIDGE STATE UNIT #501H**

**Emergency Assistance Telephone List**

**PUBLIC SAFETY:** **911 or**

Lea County Sheriff's Department (575) 396-3611

Rod Coffman

**Fire Department:**

Carlsbad (575) 885-3125

Artesia (575) 746-5050

**Hospitals:**

Carlsbad (575) 887-4121

Artesia (575) 748-3333

Hobbs (575) 392-1979

Dept. of Public Safety/Carlsbad (575) 748-9718

Highway Department (575) 885-3281

New Mexico Oil Conservation (575) 476-3440

U.S. Dept. of Labor (575) 887-1174

**EOG Resources, Inc.**

EOG / Midland Office (432) 686-3600

**Company Drilling Consultants:**

Jett Dueitt Cell (432) 230-4840

Blake Burney

**Drilling Engineer**

Robert Brosig Office (432) 686-3737

Cell (432) 770-0705

**Drilling Manager**

Heath Work Office (432) 686-3716

Cell (903) 780-1179

**Drilling Superintendent**

Jason Richey Office (432) 686-3665

Cell (817) 879-6521

**H&P Drilling**

H&P Drilling Office (432) 563-5757

H&P 415 Drilling Rig Rig (432) 230-4840

**Tool Pusher:**

Johnathan Craig Cell (817) 760-6374

Brad Garrett

**Safety**

Reggie Phillips (HSE Manager) Office (432) 686-3747

Cell (432) 250-7507