

Submit 1 Copy To Appropriate District  
Office  
District I – (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II – (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III – (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV – (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                                                                                                                                                                                                                       |  |                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)         |  | WELL API NO.<br>30-025-46368                                                                        |
| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>                                                                                        |  | 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator<br>EOG RESOURCES                                                                                                                                                                                  |  | 6. State Oil & Gas Lease No.<br>319585                                                              |
| 3. Address of Operator<br>P O BOX 2267, MIDLAND TX 79702                                                                                                                                                              |  | 7. Lease Name or Unit Agreement Name<br>DATE 14 STATE COM                                           |
| 4. Well Location<br>Unit Letter <u>M</u> : <u>782</u> feet from the <u>SOUTH</u> line and <u>1019</u> feet from the <u>WEST</u> line<br>Section <u>14</u> Township <u>21S</u> Range <u>33E</u> NMPM County <u>LEA</u> |  | 8. Well Number<br>#506H                                                                             |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3811 GL                                                                                                                                                         |  | 9. OGRID Number<br>7377                                                                             |
|                                                                                                                                                                                                                       |  | 10. Pool name or Wildcat<br>5535 BERRY; BONE SPRING, NORTH                                          |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO:                        |                                                  | SUBSEQUENT REPORT OF:                            |                                          |
|------------------------------------------------|--------------------------------------------------|--------------------------------------------------|------------------------------------------|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/>        | REMEDIAL WORK <input type="checkbox"/>           | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/>   | CHANGE PLANS <input checked="" type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/>         |
| PULL OR ALTER CASING <input type="checkbox"/>  | MULTIPLE COMPL <input type="checkbox"/>          | CASING/CEMENT JOB <input type="checkbox"/>       |                                          |
| DOWNHOLE COMMINGLE <input type="checkbox"/>    |                                                  |                                                  |                                          |
| CLOSED-LOOP SYSTEM <input type="checkbox"/>    |                                                  |                                                  |                                          |
| OTHER: <input type="checkbox"/>                | APD CHANGES <input type="checkbox"/>             | OTHER: <input type="checkbox"/>                  |                                          |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:  
BHL change to T-21-S R-33-E Sec. 11 100' FNL 2130' FWL

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Emily Follis TITLE Sr. Regulatory Administrator DATE 09/30/19

Type or print name Emily Follis E-mail address: emily\_follis@eogresources.com PHONE: 432-848-9163

For State Use Only

APPROVED BY: [Signature] TITLE \_\_\_\_\_ DATE 10/11/2019

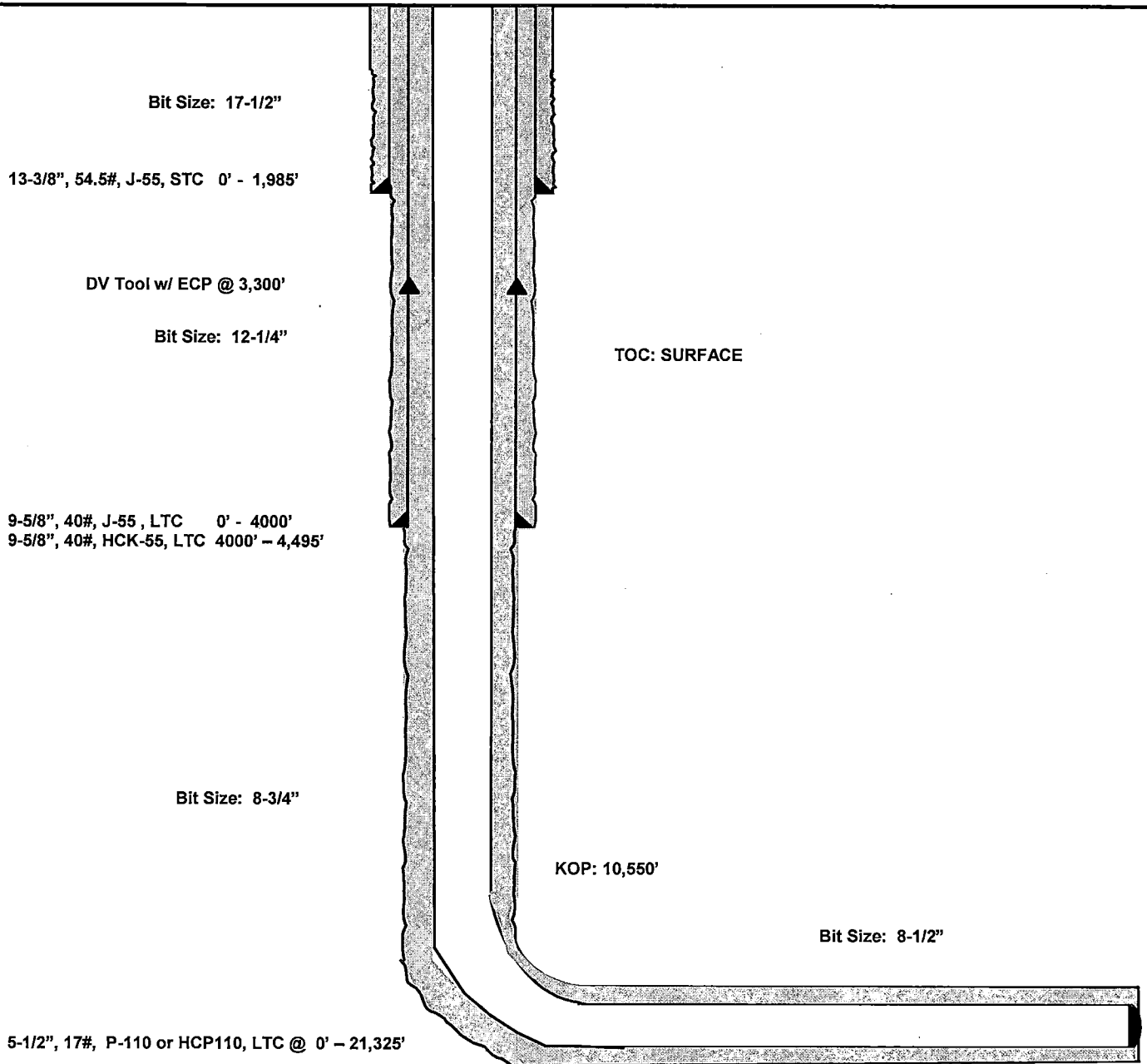
Conditions of Approval (if any):

Date 14 State Com #506H  
Lea County, New Mexico

782' FSL  
1,019' FWL  
Section 14  
T-21-S, R-33-E

Proposed Wellbore  
Revised 9/30/2019  
API: 30-025-46368

KB: 3,836'  
GL: 3,811'



Lateral: 21,325' MD, 10,930' TVD  
BH Location: 100' FNL & 2130' FWL  
Section 11  
T-21-S, R-33-E

**EOG RESOURCES, INC.**  
**DATE 14 STATE COM #506H**

**Revised Permit Information 9/30/2019:**

Well Name: Date 14 State Com #506H

Location:

SHL: 782' FSL & 1,019' FWL, Section 14, T-21-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 2130' FWL, Section 11, T-21-S, R-33-E, Lea Co., N.M.

**Casing Program:**

| Hole Size | Interval          | Csg OD  | Weight | Grade   | Conn | DF <sub>min</sub> Collapse | DF <sub>min</sub> Burst | DF <sub>min</sub> Tension |
|-----------|-------------------|---------|--------|---------|------|----------------------------|-------------------------|---------------------------|
| 17.5"     | 0' – 1,985'       | 13.375" | 54.5#  | J-55    | STC  | 1.125                      | 1.25                    | 1.60                      |
| 12.25"    | 0' – 4,000'       | 9.625"  | 40#    | J-55    | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 12.25"    | 4000' – 4,495'    | 9.625"  | 40#    | HCK-55  | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 8.75"     | 0' – 11,454'      | 5.5"    | 17#    | HCP-110 | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 8.5"      | 11,454' – 21,325' | 5.5"    | 17#    | HCP-110 | LTC  | 1.125                      | 1.25                    | 1.60                      |

**Cement Program:**

| Depth                                   | No. Sacks | Wt. ppg | Yld Ft <sup>3</sup> /ft | Slurry Description                                                                                                                           |
|-----------------------------------------|-----------|---------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1,985'                                  | 1,310     | 13.5    | 1.73                    | Lead: Class C + 4.0% Bentonite + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)                                             |
|                                         | 160       | 14.8    | 1.34                    | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate                                                               |
| 4,495'<br>DV Tool w/<br>ECP @<br>3,300' | 500       | 12.7    | 2.22                    | Stage 1 Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ 3,300')  |
|                                         | 200       | 14.8    | 1.32                    | Stage 1 Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free                                                                   |
|                                         | 500       | 12.7    | 2.22                    | Stage 2 Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface) |
|                                         | 200       | 14.8    | 1.32                    | Stage 2 Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free                                                                   |
| 21,325'                                 | 550       | 12.7    | 2.22                    | 1 <sup>st</sup> Stage (Lead): Class H + 5% Salt + 1% PreMag-M (TOC @ 7,100')                                                                 |
|                                         | 2,360     | 14.4    | 1.31                    | 1 <sup>st</sup> Stage (Tail): Class H + 5% Salt                                                                                              |
|                                         | 1,400     | 12.7    | 3.21                    | 2 <sup>nd</sup> Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ Surface)                               |

**Mud Program:**

| Depth                        | Type        | Weight (ppg) | Viscosity | Water Loss |
|------------------------------|-------------|--------------|-----------|------------|
| 0' – 1,985'                  | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 1,985' – 4,495'              | Brine       | 10.0-10.2    | 28-34     | N/c        |
| 4,495' – 10,550'             | Cut Brine   | 8.4-9.0      | 28-34     | N/c        |
| 10,550' – 21,325'<br>Lateral | Oil Base    | 9.0-9.5      | 40-42     | 8-10       |



## **EOG Resources - Midland**

**Lea County, NM (NAD 83 NME)**

**Date 14 State Com**

**#506H**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**27 September, 2019**

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #506H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3836.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3836.0usft |
| Site:     | Date 14 State Com           | North Reference:             | Grid                 |
| Well:     | #506H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #1                     |                              |                      |

|             |                             |               |                |
|-------------|-----------------------------|---------------|----------------|
| Project     | Lea County, NM (NAD 83 NME) |               |                |
| Map System: | US State Plane 1983         | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983   |               |                |
| Map Zone:   | New Mexico Eastern Zone     |               |                |

|                       |                   |                   |                   |
|-----------------------|-------------------|-------------------|-------------------|
| Site                  | Date 14 State Com |                   |                   |
| Site Position:        |                   | Northing:         | 536,428.00 usft   |
| From:                 | Map               | Easting:          | 786,265.00 usft   |
| Position Uncertainty: | 0.0 usft          | Slot Radius:      | 13-3/16 "         |
|                       |                   | Latitude:         | 32° 28' 19.914 N  |
|                       |                   | Longitude:        | 103° 32' 20.860 W |
|                       |                   | Grid Convergence: | 0.43 °            |

|                      |          |                     |                   |
|----------------------|----------|---------------------|-------------------|
| Well                 | #506H    |                     |                   |
| Well Position        | +N/-S    | 533.0 usft          | Northing:         |
|                      | +E/-W    | -2,885.0 usft       | Easting:          |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | Ground Level:     |
|                      |          |                     | 3,811.0 usft      |
|                      |          |                     | Latitude:         |
|                      |          |                     | 32° 28' 25.399 N  |
|                      |          |                     | Longitude:        |
|                      |          |                     | 103° 32' 54.489 W |

|           |            |             |                 |
|-----------|------------|-------------|-----------------|
| Wellbore  | OH         |             |                 |
| Magnetics | Model Name | Sample Date | Declination     |
|           |            |             | (°)             |
|           | IGRF2015   | 9/10/2019   | 6.72            |
|           |            |             | Dip Angle       |
|           |            |             | (°)             |
|           |            |             | 60.26           |
|           |            |             | Field Strength  |
|           |            |             | (nT)            |
|           |            |             | 47,855.43839486 |

|                   |                  |        |               |
|-------------------|------------------|--------|---------------|
| Design            | Plan #1          |        |               |
| Audit Notes:      |                  |        |               |
| Version:          | Phase:           | PLAN   | Tie On Depth: |
|                   |                  |        | 0.0           |
| Vertical Section: | Depth From (TVD) | +N/-S  | +E/-W         |
|                   | (usft)           | (usft) | (usft)        |
|                   | 0.0              | 0.0    | 0.0           |
|                   |                  |        | Direction     |
|                   |                  |        | (°)           |
|                   |                  |        | 6.08          |

|                          |                |                       |                     |
|--------------------------|----------------|-----------------------|---------------------|
| Plan Survey Tool Program | Date 9/27/2019 |                       |                     |
| Depth From               | Depth To       | Survey (Wellbore)     | Tool Name           |
| (usft)                   | (usft)         |                       |                     |
| 1                        | 0.0            | 21,324.6 Plan #1 (OH) | MWD                 |
|                          |                |                       | OWSG MWD - Standard |
|                          |                |                       | Remarks             |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
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| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3836.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3836.0usft |
| Site:     | Date 14 State Com           | North Reference:             | Grid                 |
| Well:     | #506H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #1                     |                              |                      |

| Plan Sections               |                    |                |                             |                 |                 |                               |                              |                             |            |                      |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|----------------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | Target               |
| 0.0                         | 0.00               | 0.00           | 0.0                         | 0.0             | 0.0             | 0.00                          | 0.00                         | 0.00                        | 0.00       |                      |
| 2,025.0                     | 0.00               | 0.00           | 2,025.0                     | 0.0             | 0.0             | 0.00                          | 0.00                         | 0.00                        | 0.00       |                      |
| 2,575.0                     | 11.00              | 131.50         | 2,571.6                     | -34.9           | 39.4            | 2.00                          | 2.00                         | 0.00                        | 131.50     |                      |
| 3,928.2                     | 11.00              | 131.50         | 3,900.0                     | -206.0          | 232.8           | 0.00                          | 0.00                         | 0.00                        | 0.00       |                      |
| 4,061.7                     | 15.00              | 131.50         | 4,030.0                     | -225.9          | 255.3           | 3.00                          | 3.00                         | 0.00                        | 0.01       |                      |
| 6,702.3                     | 15.00              | 131.50         | 6,580.6                     | -678.9          | 767.2           | 0.00                          | 0.00                         | 0.00                        | 0.00       |                      |
| 7,202.4                     | 0.00               | 0.00           | 7,075.0                     | -722.0          | 816.0           | 3.00                          | -3.00                        | 0.00                        | 180.00     |                      |
| 10,550.4                    | 0.00               | 0.00           | 10,423.0                    | -722.0          | 816.0           | 0.00                          | 0.00                         | 0.00                        | 0.00       | KOP (Date 14 State C |
| 11,454.2                    | 90.38              | 21.60          | 10,995.9                    | -185.7          | 1,028.3         | 10.00                         | 10.00                        | 0.00                        | 21.60      |                      |
| 11,895.6                    | 90.38              | 359.53         | 10,993.0                    | 245.5           | 1,108.7         | 5.00                          | 0.00                         | -5.00                       | -89.92     |                      |
| 21,324.6                    | 90.38              | 359.53         | 10,930.0                    | 9,674.0         | 1,031.0         | 0.00                          | 0.00                         | 0.00                        | 0.00       | PBHL (Date 14 State  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
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| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3836.0usft |
| Site:     | Date 14 State Com           | North Reference:             | Grid                 |
| Well:     | #506H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #1                     |                              |                      |

| 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                  |
| 2,025.0               | 0.00            | 0.00        | 2,025.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 1.50            | 131.50      | 2,100.0               | -0.7         | 0.7          | -0.6                    | 2.00                    | 2.00                   | 0.00                  |
| 2,200.0               | 3.50            | 131.50      | 2,199.9               | -3.5         | 4.0          | -3.1                    | 2.00                    | 2.00                   | 0.00                  |
| 2,300.0               | 5.50            | 131.50      | 2,299.6               | -8.7         | 9.9          | -7.6                    | 2.00                    | 2.00                   | 0.00                  |
| 2,400.0               | 7.50            | 131.50      | 2,398.9               | -16.2        | 18.4         | -14.2                   | 2.00                    | 2.00                   | 0.00                  |
| 2,500.0               | 9.50            | 131.50      | 2,497.8               | -26.0        | 29.4         | -22.8                   | 2.00                    | 2.00                   | 0.00                  |
| 2,575.0               | 11.00           | 131.50      | 2,571.6               | -34.9        | 39.4         | -30.5                   | 2.00                    | 2.00                   | 0.00                  |
| 2,600.0               | 11.00           | 131.50      | 2,596.2               | -38.0        | 43.0         | -33.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 11.00           | 131.50      | 2,694.3               | -50.7        | 57.3         | -44.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 11.00           | 131.50      | 2,792.5               | -63.3        | 71.6         | -55.4                   | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 11.00           | 131.50      | 2,890.7               | -76.0        | 85.9         | -66.4                   | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 11.00           | 131.50      | 2,988.8               | -88.6        | 100.2        | -77.5                   | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 11.00           | 131.50      | 3,087.0               | -101.3       | 114.4        | -88.6                   | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 11.00           | 131.50      | 3,185.1               | -113.9       | 128.7        | -99.6                   | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 11.00           | 131.50      | 3,283.3               | -126.5       | 143.0        | -110.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 11.00           | 131.50      | 3,381.5               | -139.2       | 157.3        | -121.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 11.00           | 131.50      | 3,479.6               | -151.8       | 171.6        | -132.8                  | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 11.00           | 131.50      | 3,577.8               | -164.5       | 185.9        | -143.8                  | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 11.00           | 131.50      | 3,676.0               | -177.1       | 200.2        | -154.9                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 11.00           | 131.50      | 3,774.1               | -189.8       | 214.5        | -166.0                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 11.00           | 131.50      | 3,872.3               | -202.4       | 228.8        | -177.0                  | 0.00                    | 0.00                   | 0.00                  |
| 3,928.2               | 11.00           | 131.50      | 3,900.0               | -206.0       | 232.8        | -180.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 13.15           | 131.50      | 3,970.2               | -215.9       | 244.1        | -188.8                  | 3.00                    | 3.00                   | 0.00                  |
| 4,061.7               | 15.00           | 131.50      | 4,030.0               | -225.9       | 255.3        | -197.5                  | 3.00                    | 3.00                   | 0.00                  |
| 4,100.0               | 15.00           | 131.50      | 4,067.0               | -232.4       | 262.7        | -203.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 15.00           | 131.50      | 4,163.6               | -249.6       | 282.1        | -218.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 15.00           | 131.50      | 4,260.2               | -266.7       | 301.5        | -233.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 15.00           | 131.50      | 4,356.8               | -283.9       | 320.9        | -248.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 15.00           | 131.50      | 4,453.4               | -301.1       | 340.3        | -263.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 15.00           | 131.50      | 4,550.0               | -318.2       | 359.7        | -278.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 15.00           | 131.50      | 4,646.6               | -335.4       | 379.0        | -293.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 15.00           | 131.50      | 4,743.1               | -352.5       | 398.4        | -308.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 15.00           | 131.50      | 4,839.7               | -369.7       | 417.8        | -323.3                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #506H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3836.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3836.0usft |
| Site:     | Date 14 State Com           | North Reference:             | Grid                 |
| Well:     | #506H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #1                     |                              |                      |

| 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) |
| 5,000.0               | 15.00           | 131.50      | 4,936.3               | -386.8       | 437.2        | -338.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 15.00           | 131.50      | 5,032.9               | -404.0       | 456.6        | -353.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 15.00           | 131.50      | 5,129.5               | -421.1       | 476.0        | -368.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0               | 15.00           | 131.50      | 5,226.1               | -438.3       | 495.4        | -383.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 15.00           | 131.50      | 5,322.7               | -455.4       | 514.8        | -398.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 15.00           | 131.50      | 5,419.3               | -472.6       | 534.1        | -413.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 15.00           | 131.50      | 5,515.9               | -489.8       | 553.5        | -428.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 15.00           | 131.50      | 5,612.5               | -506.9       | 572.9        | -443.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 15.00           | 131.50      | 5,709.1               | -524.1       | 592.3        | -458.4                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 15.00           | 131.50      | 5,805.6               | -541.2       | 611.7        | -473.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 15.00           | 131.50      | 5,902.2               | -558.4       | 631.1        | -488.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 15.00           | 131.50      | 5,998.8               | -575.5       | 650.5        | -503.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 15.00           | 131.50      | 6,095.4               | -592.7       | 669.9        | -518.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 15.00           | 131.50      | 6,192.0               | -609.8       | 689.2        | -533.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 15.00           | 131.50      | 6,288.6               | -627.0       | 708.6        | -548.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 15.00           | 131.50      | 6,385.2               | -644.2       | 728.0        | -563.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 15.00           | 131.50      | 6,481.8               | -661.3       | 747.4        | -578.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,702.3               | 15.00           | 131.50      | 6,580.6               | -678.9       | 767.2        | -593.7                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 12.07           | 131.50      | 6,675.6               | -694.0       | 784.4        | -607.0                  | 3.00                    | -3.00                  | 0.00                  |
| 6,900.0               | 9.07            | 131.50      | 6,773.9               | -706.2       | 798.1        | -617.6                  | 3.00                    | -3.00                  | 0.00                  |
| 7,000.0               | 6.07            | 131.50      | 6,873.0               | -714.9       | 808.0        | -625.3                  | 3.00                    | -3.00                  | 0.00                  |
| 7,100.0               | 3.07            | 131.50      | 6,972.7               | -720.2       | 813.9        | -629.9                  | 3.00                    | -3.00                  | 0.00                  |
| 7,202.4               | 0.00            | 0.00        | 7,075.0               | -722.0       | 816.0        | -631.5                  | 3.00                    | -3.00                  | 0.00                  |
| 7,300.0               | 0.00            | 0.00        | 7,172.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 0.00            | 0.00        | 7,272.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 0.00            | 0.00        | 7,372.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 0.00            | 0.00        | 7,472.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 0.00            | 0.00        | 7,572.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 0.00            | 0.00        | 7,672.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 0.00            | 0.00        | 7,772.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 0.00            | 0.00        | 7,872.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 0.00            | 0.00        | 7,972.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 0.00            | 0.00        | 8,072.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 0.00            | 0.00        | 8,172.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 0.00            | 0.00        | 8,272.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 0.00            | 0.00        | 8,372.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 0.00            | 0.00        | 8,472.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 0.00            | 0.00        | 8,572.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 0.00            | 0.00        | 8,672.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 0.00            | 0.00        | 8,772.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 0.00            | 0.00        | 8,872.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 0.00            | 0.00        | 8,972.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 0.00            | 0.00        | 9,072.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 0.00            | 0.00        | 9,172.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 0.00            | 0.00        | 9,272.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 0.00            | 0.00        | 9,372.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 0.00            | 0.00        | 9,472.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 0.00            | 0.00        | 9,572.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 0.00            | 0.00        | 9,672.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 0.00            | 0.00        | 9,772.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 0.00            | 0.00        | 9,872.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 0.00            | 0.00        | 9,972.6               | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 0.00            | 0.00        | 10,072.6              | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 0.00            | 0.00        | 10,172.6              | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #506H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3836.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3836.0usft |
| Site:     | Date 14 State Com           | North Reference:             | Grid                 |
| Well:     | #506H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #1                     |                              |                      |

| 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) |
| 10,400.0              | 0.00            | 0.00        | 10,272.6              | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 0.00            | 0.00        | 10,372.6              | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,550.4              | 0.00            | 0.00        | 10,423.0              | -722.0       | 816.0        | -631.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0              | 4.96            | 21.60       | 10,472.5              | -720.0       | 816.8        | -629.4                  | 10.00                   | 10.00                  | 0.00                  |
| 10,650.0              | 9.96            | 21.60       | 10,522.1              | -714.0       | 819.2        | -623.1                  | 10.00                   | 10.00                  | 0.00                  |
| 10,700.0              | 14.96           | 21.60       | 10,570.9              | -703.9       | 823.1        | -612.8                  | 10.00                   | 10.00                  | 0.00                  |
| 10,750.0              | 19.96           | 21.60       | 10,618.6              | -690.0       | 828.7        | -598.3                  | 10.00                   | 10.00                  | 0.00                  |
| 10,800.0              | 24.96           | 21.60       | 10,664.8              | -672.2       | 835.7        | -579.9                  | 10.00                   | 10.00                  | 0.00                  |
| 10,850.0              | 29.96           | 21.60       | 10,709.1              | -650.8       | 844.2        | -557.7                  | 10.00                   | 10.00                  | 0.00                  |
| 10,900.0              | 34.96           | 21.60       | 10,751.3              | -625.9       | 854.1        | -531.8                  | 10.00                   | 10.00                  | 0.00                  |
| 10,950.0              | 39.96           | 21.60       | 10,791.0              | -597.6       | 865.3        | -502.5                  | 10.00                   | 10.00                  | 0.00                  |
| 11,000.0              | 44.96           | 21.60       | 10,827.9              | -566.2       | 877.7        | -470.0                  | 10.00                   | 10.00                  | 0.00                  |
| 11,050.0              | 49.96           | 21.60       | 10,861.7              | -532.0       | 891.2        | -434.5                  | 10.00                   | 10.00                  | 0.00                  |
| 11,100.0              | 54.96           | 21.60       | 10,892.1              | -495.1       | 905.8        | -396.4                  | 10.00                   | 10.00                  | 0.00                  |
| 11,150.0              | 59.96           | 21.60       | 10,919.0              | -456.0       | 921.3        | -355.8                  | 10.00                   | 10.00                  | 0.00                  |
| 11,200.0              | 64.96           | 21.60       | 10,942.1              | -414.7       | 937.6        | -313.1                  | 10.00                   | 10.00                  | 0.00                  |
| 11,250.0              | 69.96           | 21.60       | 10,961.3              | -371.8       | 954.6        | -268.6                  | 10.00                   | 10.00                  | 0.00                  |
| 11,285.4              | 73.50           | 21.60       | 10,972.4              | -340.6       | 967.0        | -236.2                  | 10.00                   | 10.00                  | 0.00                  |
| 70 Degs in the curve  |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,300.0              | 74.96           | 21.60       | 10,976.3              | -327.5       | 972.2        | -222.6                  | 10.00                   | 10.00                  | 0.00                  |
| 11,350.0              | 79.96           | 21.60       | 10,987.2              | -282.1       | 990.2        | -175.6                  | 10.00                   | 10.00                  | 0.00                  |
| 11,400.0              | 84.96           | 21.60       | 10,993.7              | -236.1       | 1,008.4      | -127.9                  | 10.00                   | 10.00                  | 0.00                  |
| 11,454.2              | 90.38           | 21.60       | 10,995.9              | -185.7       | 1,028.3      | -75.7                   | 10.00                   | 10.00                  | 0.00                  |
| 11,500.0              | 90.38           | 19.31       | 10,995.6              | -142.8       | 1,044.3      | -31.4                   | 5.00                    | 0.01                   | -5.00                 |
| 11,600.0              | 90.39           | 14.31       | 10,995.0              | -47.1        | 1,073.2      | 66.9                    | 5.00                    | 0.00                   | -5.00                 |
| 11,700.0              | 90.39           | 9.31        | 10,994.3              | 50.7         | 1,093.7      | 166.3                   | 5.00                    | 0.00                   | -5.00                 |
| 11,800.0              | 90.39           | 4.31        | 10,993.6              | 150.0        | 1,105.5      | 266.3                   | 5.00                    | 0.00                   | -5.00                 |
| 11,895.6              | 90.38           | 359.53      | 10,993.0              | 245.5        | 1,108.7      | 361.6                   | 5.00                    | 0.00                   | -5.00                 |
| 11,900.0              | 90.38           | 359.53      | 10,992.9              | 249.9        | 1,108.7      | 366.0                   | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0              | 90.38           | 359.53      | 10,992.3              | 349.9        | 1,107.9      | 465.3                   | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0              | 90.38           | 359.53      | 10,991.6              | 449.9        | 1,107.1      | 564.7                   | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0              | 90.38           | 359.53      | 10,990.9              | 549.9        | 1,106.2      | 664.0                   | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0              | 90.38           | 359.53      | 10,990.3              | 649.9        | 1,105.4      | 763.3                   | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0              | 90.38           | 359.53      | 10,989.6              | 749.9        | 1,104.6      | 862.7                   | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0              | 90.38           | 359.53      | 10,988.9              | 849.9        | 1,103.8      | 962.0                   | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0              | 90.38           | 359.53      | 10,988.3              | 949.8        | 1,102.9      | 1,061.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0              | 90.38           | 359.53      | 10,987.6              | 1,049.8      | 1,102.1      | 1,160.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0              | 90.38           | 359.53      | 10,986.9              | 1,149.8      | 1,101.3      | 1,260.1                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0              | 90.38           | 359.53      | 10,986.3              | 1,249.8      | 1,100.5      | 1,359.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0              | 90.38           | 359.53      | 10,985.6              | 1,349.8      | 1,099.6      | 1,458.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0              | 90.38           | 359.53      | 10,984.9              | 1,449.8      | 1,098.8      | 1,558.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0              | 90.38           | 359.53      | 10,984.3              | 1,549.8      | 1,098.0      | 1,657.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 90.38           | 359.53      | 10,983.6              | 1,649.8      | 1,097.2      | 1,756.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.38           | 359.53      | 10,982.9              | 1,749.8      | 1,096.3      | 1,856.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.38           | 359.53      | 10,982.3              | 1,849.8      | 1,095.5      | 1,955.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.38           | 359.53      | 10,981.6              | 1,949.8      | 1,094.7      | 2,054.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.38           | 359.53      | 10,980.9              | 2,049.8      | 1,093.9      | 2,154.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.38           | 359.53      | 10,980.3              | 2,149.8      | 1,093.0      | 2,253.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.38           | 359.53      | 10,979.6              | 2,249.8      | 1,092.2      | 2,352.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.38           | 359.53      | 10,978.9              | 2,349.8      | 1,091.4      | 2,452.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.38           | 359.53      | 10,978.2              | 2,449.8      | 1,090.6      | 2,551.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.38           | 359.53      | 10,977.6              | 2,549.8      | 1,089.7      | 2,650.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.38           | 359.53      | 10,976.9              | 2,649.8      | 1,088.9      | 2,750.2                 | 0.00                    | 0.00                   | 0.00                  |

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #506H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3836.0usft |
| Project:  | Lea County, NM (NAD 83-NME) | MD Reference:                | KB = 25 @ 3836.0usft |
| Site:     | Date 14 State Com           | North Reference:             | Grid                 |
| Well:     | #506H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #1                     |                              |                      |

| 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) |
| 14,400.0              | 90.38           | 359.53      | 10,976.2              | 2,749.7      | 1,088.1      | 2,849.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.38           | 359.53      | 10,975.6              | 2,849.7      | 1,087.3      | 2,948.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.38           | 359.53      | 10,974.9              | 2,949.7      | 1,086.4      | 3,048.3                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.38           | 359.53      | 10,974.2              | 3,049.7      | 1,085.6      | 3,147.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.38           | 359.53      | 10,973.6              | 3,149.7      | 1,084.8      | 3,246.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.38           | 359.53      | 10,972.9              | 3,249.7      | 1,084.0      | 3,346.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.38           | 359.53      | 10,972.2              | 3,349.7      | 1,083.1      | 3,445.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.38           | 359.53      | 10,971.6              | 3,449.7      | 1,082.3      | 3,545.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.38           | 359.53      | 10,970.9              | 3,549.7      | 1,081.5      | 3,644.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.38           | 359.53      | 10,970.2              | 3,649.7      | 1,080.7      | 3,743.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.38           | 359.53      | 10,969.6              | 3,749.7      | 1,079.9      | 3,843.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.38           | 359.53      | 10,968.9              | 3,849.7      | 1,079.0      | 3,942.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.38           | 359.53      | 10,968.2              | 3,949.7      | 1,078.2      | 4,041.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.38           | 359.53      | 10,967.6              | 4,049.7      | 1,077.4      | 4,141.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.38           | 359.53      | 10,966.9              | 4,149.7      | 1,076.6      | 4,240.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.38           | 359.53      | 10,966.2              | 4,249.7      | 1,075.7      | 4,339.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.38           | 359.53      | 10,965.6              | 4,349.7      | 1,074.9      | 4,439.1                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.38           | 359.53      | 10,964.9              | 4,449.7      | 1,074.1      | 4,538.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.38           | 359.53      | 10,964.2              | 4,549.6      | 1,073.3      | 4,637.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.38           | 359.53      | 10,963.6              | 4,649.6      | 1,072.4      | 4,737.1                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.38           | 359.53      | 10,962.9              | 4,749.6      | 1,071.6      | 4,836.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.38           | 359.53      | 10,962.2              | 4,849.6      | 1,070.8      | 4,935.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.38           | 359.53      | 10,961.6              | 4,949.6      | 1,070.0      | 5,035.1                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.38           | 359.53      | 10,960.9              | 5,049.6      | 1,069.1      | 5,134.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.38           | 359.53      | 10,960.2              | 5,149.6      | 1,068.3      | 5,233.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.38           | 359.53      | 10,959.5              | 5,249.6      | 1,067.5      | 5,333.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.38           | 359.53      | 10,958.9              | 5,349.6      | 1,066.7      | 5,432.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.38           | 359.53      | 10,958.2              | 5,449.6      | 1,065.8      | 5,531.9                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.38           | 359.53      | 10,957.5              | 5,549.6      | 1,065.0      | 5,631.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.38           | 359.53      | 10,956.9              | 5,649.6      | 1,064.2      | 5,730.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.38           | 359.53      | 10,956.2              | 5,749.6      | 1,063.4      | 5,829.9                 | 0.00                    | 0.00                   | 0.00                  |
| 17,500.0              | 90.38           | 359.53      | 10,955.5              | 5,849.6      | 1,062.5      | 5,929.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,600.0              | 90.38           | 359.53      | 10,954.9              | 5,949.6      | 1,061.7      | 6,028.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,700.0              | 90.38           | 359.53      | 10,954.2              | 6,049.6      | 1,060.9      | 6,127.9                 | 0.00                    | 0.00                   | 0.00                  |
| 17,800.0              | 90.38           | 359.53      | 10,953.5              | 6,149.6      | 1,060.1      | 6,227.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,900.0              | 90.38           | 359.53      | 10,952.9              | 6,249.6      | 1,059.2      | 6,326.6                 | 0.00                    | 0.00                   | 0.00                  |
| 18,000.0              | 90.38           | 359.53      | 10,952.2              | 6,349.5      | 1,058.4      | 6,426.0                 | 0.00                    | 0.00                   | 0.00                  |
| 18,100.0              | 90.38           | 359.53      | 10,951.5              | 6,449.5      | 1,057.6      | 6,525.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,200.0              | 90.38           | 359.53      | 10,950.9              | 6,549.5      | 1,056.8      | 6,624.6                 | 0.00                    | 0.00                   | 0.00                  |
| 18,300.0              | 90.38           | 359.53      | 10,950.2              | 6,649.5      | 1,055.9      | 6,724.0                 | 0.00                    | 0.00                   | 0.00                  |
| 18,400.0              | 90.38           | 359.53      | 10,949.5              | 6,749.5      | 1,055.1      | 6,823.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,500.0              | 90.38           | 359.53      | 10,948.9              | 6,849.5      | 1,054.3      | 6,922.7                 | 0.00                    | 0.00                   | 0.00                  |
| 18,600.0              | 90.38           | 359.53      | 10,948.2              | 6,949.5      | 1,053.5      | 7,022.0                 | 0.00                    | 0.00                   | 0.00                  |
| 18,700.0              | 90.38           | 359.53      | 10,947.5              | 7,049.5      | 1,052.6      | 7,121.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,800.0              | 90.38           | 359.53      | 10,946.9              | 7,149.5      | 1,051.8      | 7,220.7                 | 0.00                    | 0.00                   | 0.00                  |
| 18,900.0              | 90.38           | 359.53      | 10,946.2              | 7,249.5      | 1,051.0      | 7,320.0                 | 0.00                    | 0.00                   | 0.00                  |
| 19,000.0              | 90.38           | 359.53      | 10,945.5              | 7,349.5      | 1,050.2      | 7,419.4                 | 0.00                    | 0.00                   | 0.00                  |
| 19,100.0              | 90.38           | 359.53      | 10,944.9              | 7,449.5      | 1,049.3      | 7,518.7                 | 0.00                    | 0.00                   | 0.00                  |
| 19,200.0              | 90.38           | 359.53      | 10,944.2              | 7,549.5      | 1,048.5      | 7,618.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,300.0              | 90.38           | 359.53      | 10,943.5              | 7,649.5      | 1,047.7      | 7,717.4                 | 0.00                    | 0.00                   | 0.00                  |
| 19,400.0              | 90.38           | 359.53      | 10,942.9              | 7,749.5      | 1,046.9      | 7,816.8                 | 0.00                    | 0.00                   | 0.00                  |
| 19,500.0              | 90.38           | 359.53      | 10,942.2              | 7,849.5      | 1,046.0      | 7,916.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,600.0              | 90.38           | 359.53      | 10,941.5              | 7,949.5      | 1,045.2      | 8,015.5                 | 0.00                    | 0.00                   | 0.00                  |
| 19,700.0              | 90.38           | 359.53      | 10,940.8              | 8,049.4      | 1,044.4      | 8,114.8                 | 0.00                    | 0.00                   | 0.00                  |

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #506H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3836.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3836.0usft |
| Site:     | Date 14 State Com           | North Reference:             | Grid                 |
| Well:     | #506H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #1                     |                              |                      |

| 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) |
| 19,800.0              | 90.38           | 359.53      | 10,940.2              | 8,149.4      | 1,043.6      | 8,214.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,900.0              | 90.38           | 359.53      | 10,939.5              | 8,249.4      | 1,042.7      | 8,313.5                 | 0.00                    | 0.00                   | 0.00                  |
| 20,000.0              | 90.38           | 359.53      | 10,938.8              | 8,349.4      | 1,041.9      | 8,412.8                 | 0.00                    | 0.00                   | 0.00                  |
| 20,100.0              | 90.38           | 359.53      | 10,938.2              | 8,449.4      | 1,041.1      | 8,512.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,200.0              | 90.38           | 359.53      | 10,937.5              | 8,549.4      | 1,040.3      | 8,611.5                 | 0.00                    | 0.00                   | 0.00                  |
| 20,300.0              | 90.38           | 359.53      | 10,936.8              | 8,649.4      | 1,039.4      | 8,710.9                 | 0.00                    | 0.00                   | 0.00                  |
| 20,400.0              | 90.38           | 359.53      | 10,936.2              | 8,749.4      | 1,038.6      | 8,810.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,500.0              | 90.38           | 359.53      | 10,935.5              | 8,849.4      | 1,037.8      | 8,909.6                 | 0.00                    | 0.00                   | 0.00                  |
| 20,600.0              | 90.38           | 359.53      | 10,934.8              | 8,949.4      | 1,037.0      | 9,008.9                 | 0.00                    | 0.00                   | 0.00                  |
| 20,700.0              | 90.38           | 359.53      | 10,934.2              | 9,049.4      | 1,036.2      | 9,108.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,800.0              | 90.38           | 359.53      | 10,933.5              | 9,149.4      | 1,035.3      | 9,207.6                 | 0.00                    | 0.00                   | 0.00                  |
| 20,900.0              | 90.38           | 359.53      | 10,932.8              | 9,249.4      | 1,034.5      | 9,306.9                 | 0.00                    | 0.00                   | 0.00                  |
| 21,000.0              | 90.38           | 359.53      | 10,932.2              | 9,349.4      | 1,033.7      | 9,406.3                 | 0.00                    | 0.00                   | 0.00                  |
| 21,100.0              | 90.38           | 359.53      | 10,931.5              | 9,449.4      | 1,032.9      | 9,505.6                 | 0.00                    | 0.00                   | 0.00                  |
| 21,200.0              | 90.38           | 359.53      | 10,930.8              | 9,549.4      | 1,032.0      | 9,605.0                 | 0.00                    | 0.00                   | 0.00                  |
| 21,300.0              | 90.38           | 359.53      | 10,930.2              | 9,649.4      | 1,031.2      | 9,704.3                 | 0.00                    | 0.00                   | 0.00                  |
| 21,324.6              | 90.38           | 359.53      | 10,930.0              | 9,674.0      | 1,031.0      | 9,728.8                 | 0.00                    | 0.00                   | 0.00                  |

| Design Targets                                                                                                                    |               |              |            |              |              |                 |                |                  |                   |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| Target Name                                                                                                                       | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
| - hit/miss target                                                                                                                 |               |              |            |              |              |                 |                |                  |                   |
| - Shape                                                                                                                           |               |              |            |              |              |                 |                |                  |                   |
| KOP (Date 14 State Con<br>- plan hits target center<br>- Point                                                                    | 0.00          | 0.00         | 10,423.0   | -722.0       | 816.0        | 536,239.00      | 784,196.00     | 32° 28' 18.195 N | 103° 32' 45.027 W |
| PBHL (Date 14 State Co<br>- plan hits target center<br>- Rectangle (sides W60.0 H0.0 D10,346.0)                                   | 89.62         | 359.53       | 10,930.0   | 9,674.0      | 1,031.0      | 546,635.00      | 784,411.00     | 32° 30' 1.045 N  | 103° 32' 41.620 W |
| FTP (Date 14 State Corr<br>- plan misses target center by 293.5usft at 11094.3usft MD (10888.8 TVD, -499.5 N, 904.1 E)<br>- Point | 0.00          | 0.00         | 10,996.0   | -672.0       | 1,116.0      | 536,289.00      | 784,496.00     | 32° 28' 18.668 N | 103° 32' 41.521 W |

| Plan Annotations      |                       |                   |              |                      |
|-----------------------|-----------------------|-------------------|--------------|----------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment              |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                      |
| 11,285.4              |                       |                   |              | 70 Degr in the curve |



Lea County, NM (NAD 83 NME)

Date 14 State Com #506H

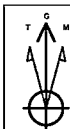
Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

WELL DETAILS: #506H

KB = 25 @ 3836.0usft  
North 536951.00 Easting 783360.00 32° 28' 25.359 N 103° 32' 54.459 W



Azimuths to Grid North  
True North: -0.42°  
Magnetic North: 6.30°  
Magnetic Field  
Strength: 47855.4nT  
Dip Angle: 60.26°  
Date: 9/10/2019  
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.30°  
To convert a Magnetic Direction to a True Direction, Add 6.72° East  
To convert a True Direction to a Grid Direction, Subtract 0.42°

#### SECTION DETAILS

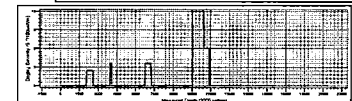
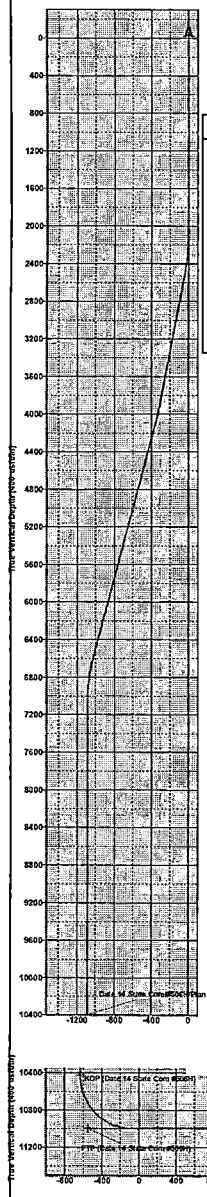
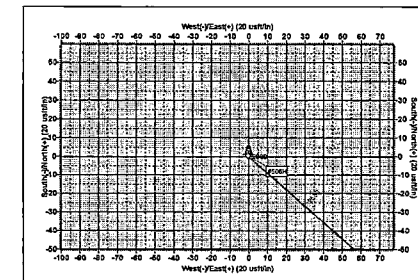
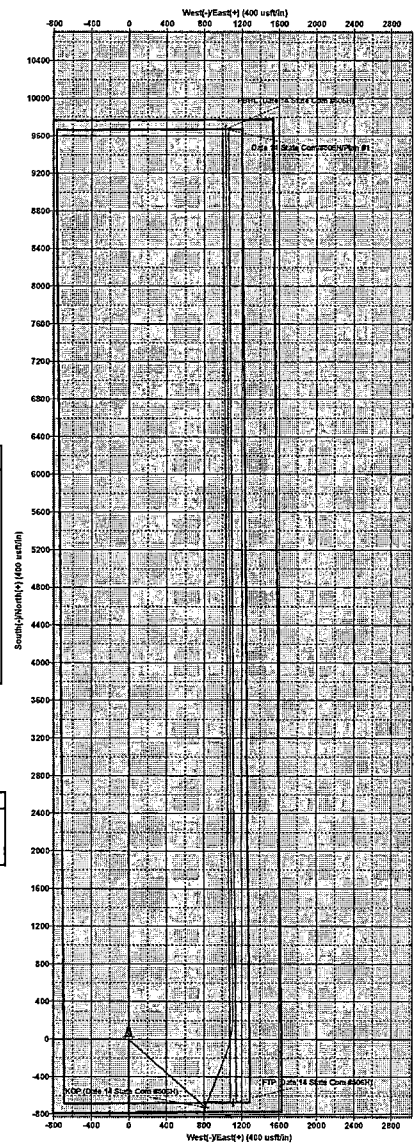
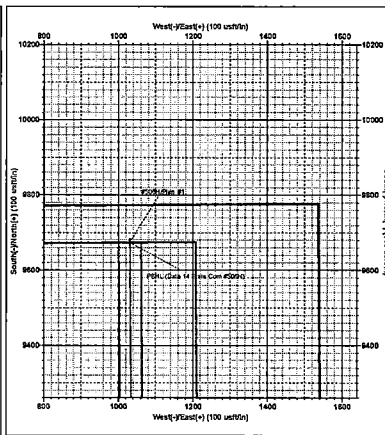
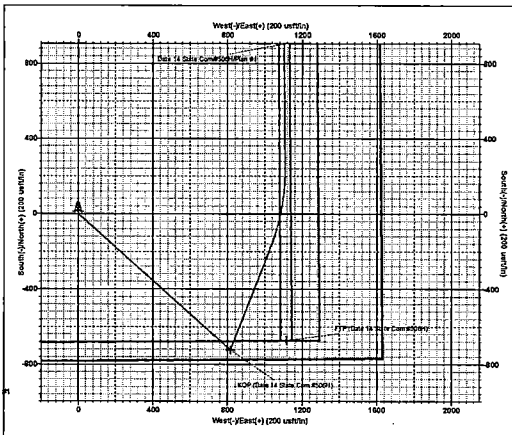
| Sec | MD      | Inc   | Azi    | TVD     | +N-S   | +E-W   | Dleg  | TFace  | VSect  |
|-----|---------|-------|--------|---------|--------|--------|-------|--------|--------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |
| 2   | 2025.0  | 0.00  | 0.00   | 2025.0  | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |
| 3   | 2575.0  | 11.00 | 131.50 | 2571.6  | -34.9  | 39.4   | 2.00  | 131.50 | -30.5  |
| 4   | 3928.2  | 11.00 | 131.50 | 3900.0  | -206.0 | 232.8  | 0.00  | 0.00   | -180.1 |
| 5   | 4061.7  | 15.00 | 131.50 | 4030.0  | -225.9 | 255.3  | 3.00  | 0.01   | -197.5 |
| 6   | 6702.3  | 15.00 | 131.50 | 6580.6  | -678.9 | 767.2  | 0.00  | 0.00   | -593.7 |
| 7   | 7202.4  | 0.00  | 0.00   | 7075.0  | -722.0 | 816.0  | 3.00  | 180.00 | -631.5 |
| 8   | 10550.4 | 0.00  | 0.00   | 10423.0 | -722.0 | 816.0  | 0.00  | 0.00   | -631.5 |
| 9   | 11454.2 | 90.38 | 21.60  | 10995.9 | -185.7 | 1028.3 | 10.00 | 21.60  | -75.7  |
| 10  | 11895.6 | 90.38 | 359.53 | 10993.0 | 245.5  | 1108.7 | 5.00  | -89.92 | 361.6  |
| 11  | 21324.6 | 90.38 | 359.53 | 10930.0 | 9574.0 | 1031.0 | 0.00  | 0.00   | 9728.8 |

#### CASING DETAILS

No casing data is available

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

| Name                          | TVD     | +N-S   | +E-W   | North     | East      |
|-------------------------------|---------|--------|--------|-----------|-----------|
| KOP (Date 14 State Com #506H) | 10423.0 | -722.0 | 816.0  | 638235.00 | 784196.00 |
| PHL (Date 14 State Com #506H) | 10930.0 | 9574.0 | 1031.0 | 646326.00 | 784411.00 |
| FTP (Date 14 State Com #506H) | 10998.0 | -672.0 | 1116.0 | 636289.00 | 784456.00 |



Lea County, NM (NAD 83 NME)  
Date 14 State Com #506H  
Plan #1  
10/22/2019 10:27:18 AM  
JPH/ML