



## **EOG Resources, Inc.**

Lea County  
Lomas Rojas "26" State Com  
#3H  
OH

Plan: Plan #1

## **Pathfinder X & Y Planning Report**

22 March, 2010

# **PATHFINDER**

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|                  |                            |                                     |                                              |
|------------------|----------------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>  | EOG Resources, Inc.        | <b>Local Co-ordinate Reference:</b> | Well #3H                                     |
| <b>Project:</b>  | Lea County                 | <b>TVD Reference:</b>               | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Site:</b>     | Lomas Rojas "26" State Com | <b>MD Reference:</b>                | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Well:</b>     | #3H                        | <b>North Reference:</b>             | Grid                                         |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Design:</b>   | Plan #1                    | <b>Database:</b>                    | Midland Database                             |

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

|                              |                            |                          |                   |
|------------------------------|----------------------------|--------------------------|-------------------|
| <b>Site</b>                  | Lomas Rojas "26" State Com |                          |                   |
| <b>Site Position:</b>        |                            | <b>Northing:</b>         | 403,802.800 ft    |
| <b>From:</b>                 | Map                        | <b>Easting:</b>          | 742,610.100 ft    |
| <b>Position Uncertainty:</b> | 0.00 ft                    | <b>Slot Radius:</b>      | "                 |
|                              |                            | <b>Latitude:</b>         | 32° 6' 27.886 N   |
|                              |                            | <b>Longitude:</b>        | 103° 32' 59.279 W |
|                              |                            | <b>Grid Convergence:</b> | 0.42 °            |

|                             |         |                            |                   |
|-----------------------------|---------|----------------------------|-------------------|
| <b>Well</b>                 | #3H     |                            |                   |
| <b>Well Position</b>        | +N/-S   | 0.00 ft                    | <b>Northing:</b>  |
|                             |         |                            | 399,198.900 ft    |
|                             | +E/-W   | 0.00 ft                    | <b>Easting:</b>   |
|                             |         |                            | 745,227.400 ft    |
| <b>Position Uncertainty</b> | 0.00 ft | <b>Wellhead Elevation:</b> | ft                |
|                             |         |                            |                   |
|                             |         | <b>Latitude:</b>           | 32° 5' 42.138 N   |
|                             |         | <b>Longitude:</b>          | 103° 32' 29.245 W |
|                             |         | <b>Ground Level:</b>       | 3,341.40 ft       |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OH         |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF200510 | 02/26/2010  | 7.71            | 60.12         | 48,703              |

|                   |                  |       |               |           |
|-------------------|------------------|-------|---------------|-----------|
| Design            | Plan #1          |       |               |           |
| Audit Notes:      |                  |       |               |           |
| Version:          | Phase:           | PLAN  | Tie On Depth: | 0.00      |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W         | Direction |
|                   | (ft)             | (ft)  | (ft)          | (°)       |
|                   | 0.00             | 0.00  | 0.00          | 179.57    |

|                            |           |                          |                  |                    |
|----------------------------|-----------|--------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | Date      | 03/22/2010               |                  |                    |
| <b>From</b>                | <b>To</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |
| (ft)                       | (ft)      |                          |                  |                    |
| 0.00                       | 13,882.31 | Plan #1 (OH)             | MWD              | MWD - Standard     |

|           |                            |                              |                                              |
|-----------|----------------------------|------------------------------|----------------------------------------------|
| Company:  | EOG Resources, Inc.        | Local Co-ordinate Reference: | Well #3H                                     |
| Project:  | Lea County                 | TVD Reference:               | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| Site:     | Lomas Rojas "26" State Com | MD Reference:                | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| Well:     | #3H                        | North Reference:             | Grid                                         |
| Wellbore: | OH                         | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Plan #1                    | Database:                    | Midland Database                             |

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
| 0.00           | 0.00       | 0.00       | 0.00        | -3,360.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 100.00         | 0.00       | 0.00       | 100.00      | -3,260.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 200.00         | 0.00       | 0.00       | 200.00      | -3,160.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 300.00         | 0.00       | 0.00       | 300.00      | -3,060.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 400.00         | 0.00       | 0.00       | 400.00      | -2,960.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 500.00         | 0.00       | 0.00       | 500.00      | -2,860.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 600.00         | 0.00       | 0.00       | 600.00      | -2,760.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 700.00         | 0.00       | 0.00       | 700.00      | -2,660.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 800.00         | 0.00       | 0.00       | 800.00      | -2,560.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 900.00         | 0.00       | 0.00       | 900.00      | -2,460.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,000.00       | 0.00       | 0.00       | 1,000.00    | -2,360.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,100.00       | 0.00       | 0.00       | 1,100.00    | -2,260.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,200.00       | 0.00       | 0.00       | 1,200.00    | -2,160.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,300.00       | 0.00       | 0.00       | 1,300.00    | -2,060.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,400.00       | 0.00       | 0.00       | 1,400.00    | -1,960.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,500.00       | 0.00       | 0.00       | 1,500.00    | -1,860.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,600.00       | 0.00       | 0.00       | 1,600.00    | -1,760.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,700.00       | 0.00       | 0.00       | 1,700.00    | -1,660.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,800.00       | 0.00       | 0.00       | 1,800.00    | -1,560.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 1,900.00       | 0.00       | 0.00       | 1,900.00    | -1,460.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 2,000.00       | 0.00       | 0.00       | 2,000.00    | -1,360.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 2,100.00       | 0.00       | 0.00       | 2,100.00    | -1,260.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 2,200.00       | 0.00       | 0.00       | 2,200.00    | -1,160.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 2,300.00       | 0.00       | 0.00       | 2,300.00    | -1,060.40     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 2,400.00       | 0.00       | 0.00       | 2,400.00    | -960.40       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 2,500.00       | 0.00       | 0.00       | 2,500.00    | -860.40       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |
| 2,600.00       | 0.00       | 0.00       | 2,600.00    | -760.40       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |

|                  |                            |                                     |                                              |
|------------------|----------------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>  | EOG Resources, Inc.        | <b>Local Co-ordinate Reference:</b> | Well #3H                                     |
| <b>Project:</b>  | Lea County                 | <b>TVD Reference:</b>               | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Site:</b>     | Lomas Rojas "26" State Com | <b>MD Reference:</b>                | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Well:</b>     | #3H                        | <b>North Reference:</b>             | Grid                                         |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Design:</b>   | Plan #1                    | <b>Database:</b>                    | Midland Database                             |

| Planned Survey |            |            |             |              |             |             |                |                   |                  |                 |  |
|----------------|------------|------------|-------------|--------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 2,700.00       | 0.00       | 0.00       | 2,700.00    | -660.40      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 2,800.00       | 0.00       | 0.00       | 2,800.00    | -560.40      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 2,900.00       | 0.00       | 0.00       | 2,900.00    | -460.40      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,000.00       | 0.00       | 0.00       | 3,000.00    | -360.40      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,100.00       | 0.00       | 0.00       | 3,100.00    | -260.40      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,200.00       | 0.00       | 0.00       | 3,200.00    | -160.40      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,300.00       | 0.00       | 0.00       | 3,300.00    | -60.40       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,400.00       | 0.00       | 0.00       | 3,400.00    | 39.60        | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,500.00       | 0.00       | 0.00       | 3,500.00    | 139.60       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,600.00       | 0.00       | 0.00       | 3,600.00    | 239.60       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,700.00       | 0.00       | 0.00       | 3,700.00    | 339.60       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,800.00       | 0.00       | 0.00       | 3,800.00    | 439.60       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 3,900.00       | 0.00       | 0.00       | 3,900.00    | 539.60       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,000.00       | 0.00       | 0.00       | 4,000.00    | 639.60       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,100.00       | 0.00       | 0.00       | 4,100.00    | 739.60       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,200.00       | 0.00       | 0.00       | 4,200.00    | 839.60       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,300.00       | 0.00       | 0.00       | 4,300.00    | 939.60       | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,400.00       | 0.00       | 0.00       | 4,400.00    | 1,039.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,500.00       | 0.00       | 0.00       | 4,500.00    | 1,139.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,600.00       | 0.00       | 0.00       | 4,600.00    | 1,239.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,700.00       | 0.00       | 0.00       | 4,700.00    | 1,339.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,800.00       | 0.00       | 0.00       | 4,800.00    | 1,439.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 4,900.00       | 0.00       | 0.00       | 4,900.00    | 1,539.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 5,000.00       | 0.00       | 0.00       | 5,000.00    | 1,639.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 5,100.00       | 0.00       | 0.00       | 5,100.00    | 1,739.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 5,200.00       | 0.00       | 0.00       | 5,200.00    | 1,839.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 5,300.00       | 0.00       | 0.00       | 5,300.00    | 1,939.60     | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |

|                  |                            |                                     |                                              |
|------------------|----------------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>  | EOG Resources, Inc.        | <b>Local Co-ordinate Reference:</b> | Well #3H                                     |
| <b>Project:</b>  | Lea County                 | <b>TVD Reference:</b>               | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Site:</b>     | Lomas Rojas "26" State Com | <b>MD Reference:</b>                | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Well:</b>     | #3H                        | <b>North Reference:</b>             | Grid                                         |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Design:</b>   | Plan #1                    | <b>Database:</b>                    | Midland Database                             |

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |  |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 5,400.00       | 0.00       | 0.00       | 5,400.00    | 2,039.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 5,500.00       | 0.00       | 0.00       | 5,500.00    | 2,139.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 5,600.00       | 0.00       | 0.00       | 5,600.00    | 2,239.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 5,700.00       | 0.00       | 0.00       | 5,700.00    | 2,339.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 5,800.00       | 0.00       | 0.00       | 5,800.00    | 2,439.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 5,900.00       | 0.00       | 0.00       | 5,900.00    | 2,539.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,000.00       | 0.00       | 0.00       | 6,000.00    | 2,639.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,100.00       | 0.00       | 0.00       | 6,100.00    | 2,739.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,200.00       | 0.00       | 0.00       | 6,200.00    | 2,839.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,300.00       | 0.00       | 0.00       | 6,300.00    | 2,939.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,400.00       | 0.00       | 0.00       | 6,400.00    | 3,039.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,500.00       | 0.00       | 0.00       | 6,500.00    | 3,139.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,600.00       | 0.00       | 0.00       | 6,600.00    | 3,239.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,700.00       | 0.00       | 0.00       | 6,700.00    | 3,339.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,800.00       | 0.00       | 0.00       | 6,800.00    | 3,439.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 6,900.00       | 0.00       | 0.00       | 6,900.00    | 3,539.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,000.00       | 0.00       | 0.00       | 7,000.00    | 3,639.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,100.00       | 0.00       | 0.00       | 7,100.00    | 3,739.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,200.00       | 0.00       | 0.00       | 7,200.00    | 3,839.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,300.00       | 0.00       | 0.00       | 7,300.00    | 3,939.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,400.00       | 0.00       | 0.00       | 7,400.00    | 4,039.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,500.00       | 0.00       | 0.00       | 7,500.00    | 4,139.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,600.00       | 0.00       | 0.00       | 7,600.00    | 4,239.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,700.00       | 0.00       | 0.00       | 7,700.00    | 4,339.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,800.00       | 0.00       | 0.00       | 7,800.00    | 4,439.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 7,900.00       | 0.00       | 0.00       | 7,900.00    | 4,539.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |
| 8,000.00       | 0.00       | 0.00       | 8,000.00    | 4,639.60      | 0.00        | 0.00        | 0.00           | 0.00              | 399,198.90       | 745,227.40      |  |

|                  |                              |                                     |                                              |
|------------------|------------------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>  | EOG Resources, Inc.          | <b>Local Co-ordinate Reference:</b> | Well #3H                                     |
| <b>Project:</b>  | Lea County                   | <b>TVD Reference:</b>               | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Site:</b>     | Lomas Rojas "26". State Com. | <b>MD Reference:</b>                | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Well:</b>     | #3H                          | <b>North Reference:</b>             | Grid                                         |
| <b>Wellbore:</b> | OH                           | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Design:</b>   | Plan #1                      | <b>Database:</b>                    | Midland Database                             |

**Planned Survey**

| MD<br>(ft)             | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec.<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
|------------------------|------------|------------|-------------|---------------|-------------|-------------|-----------------|-------------------|------------------|-----------------|
| 8,100.00               | 0.00       | 0.00       | 8,100.00    | 4,739.60      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 8,200.00               | 0.00       | 0.00       | 8,200.00    | 4,839.60      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 8,300.00               | 0.00       | 0.00       | 8,300.00    | 4,939.60      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 8,400.00               | 0.00       | 0.00       | 8,400.00    | 5,039.60      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 8,500.00               | 0.00       | 0.00       | 8,500.00    | 5,139.60      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 8,600.00               | 0.00       | 0.00       | 8,600.00    | 5,239.60      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 8,700.00               | 0.00       | 0.00       | 8,700.00    | 5,339.60      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 8,800.00               | 0.00       | 0.00       | 8,800.00    | 5,439.60      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 8,900.00               | 0.00       | 0.00       | 8,900.00    | 5,539.60      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 8,987.61               | 0.00       | 0.00       | 8,987.61    | 5,627.21      | 0.00        | 0.00        | 0.00            | 0.00              | 399,198.90       | 745,227.40      |
| 9,000.00               | 1.49       | 179.57     | 9,000.00    | 5,639.60      | -0.16       | 0.00        | 0.16            | 12.00             | 399,198.74       | 745,227.40      |
| 9,025.00               | 4.49       | 179.57     | 9,024.96    | 5,664.56      | -1.46       | 0.01        | 1.46            | 12.00             | 399,197.44       | 745,227.41      |
| 9,050.00               | 7.49       | 179.57     | 9,049.82    | 5,689.42      | -4.07       | 0.03        | 4.07            | 12.00             | 399,194.83       | 745,227.43      |
| <b>Lomas26#3H_PBHL</b> |            |            |             |               |             |             |                 |                   |                  |                 |
| 9,075.00               | 10.49      | 179.57     | 9,074.51    | 5,714.11      | -7.97       | 0.06        | 7.98            | 12.00             | 399,190.93       | 745,227.46      |
| 9,100.00               | 13.49      | 179.57     | 9,098.96    | 5,738.56      | -13.17      | 0.10        | 13.17           | 12.00             | 399,185.73       | 745,227.50      |
| 9,125.00               | 16.49      | 179.57     | 9,123.11    | 5,762.71      | -19.63      | 0.15        | 19.63           | 12.00             | 399,179.27       | 745,227.55      |
| 9,150.00               | 19.49      | 179.57     | 9,146.89    | 5,786.49      | -27.35      | 0.21        | 27.35           | 12.00             | 399,171.55       | 745,227.61      |
| 9,175.00               | 22.49      | 179.57     | 9,170.23    | 5,809.83      | -36.30      | 0.27        | 36.30           | 12.00             | 399,162.60       | 745,227.67      |
| 9,200.00               | 25.49      | 179.57     | 9,193.06    | 5,832.66      | -46.46      | 0.35        | 46.46           | 12.00             | 399,152.44       | 745,227.75      |
| 9,225.00               | 28.49      | 179.57     | 9,215.34    | 5,854.94      | -57.81      | 0.43        | 57.81           | 12.00             | 399,141.09       | 745,227.83      |
| 9,250.00               | 31.49      | 179.57     | 9,236.99    | 5,876.59      | -70.30      | 0.53        | 70.30           | 12.00             | 399,128.60       | 745,227.93      |
| 9,275.00               | 34.49      | 179.57     | 9,257.96    | 5,897.56      | -83.91      | 0.63        | 83.91           | 12.00             | 399,114.99       | 745,228.03      |
| 9,300.00               | 37.49      | 179.57     | 9,278.18    | 5,917.78      | -98.60      | 0.74        | 98.60           | 12.00             | 399,100.30       | 745,228.14      |
| 9,325.00               | 40.49      | 179.57     | 9,297.61    | 5,937.21      | -114.32     | 0.86        | 114.33          | 12.00             | 399,084.58       | 745,228.26      |
| 9,350.00               | 43.49      | 179.57     | 9,316.20    | 5,955.80      | -131.04     | 0.98        | 131.05          | 12.00             | 399,067.86       | 745,228.38      |
| 9,375.00               | 46.49      | 179.57     | 9,333.88    | 5,973.48      | -148.72     | 1.12        | 148.72          | 12.00             | 399,050.18       | 745,228.52      |

|                  |                            |                                     |                                              |
|------------------|----------------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>  | EOG Resources, Inc.        | <b>Local Co-ordinate Reference:</b> | Well #3H                                     |
| <b>Project:</b>  | Lea County                 | <b>TVD Reference:</b>               | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Site:</b>     | Lomas Rojas "26" State Com | <b>MD Reference:</b>                | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| <b>Well:</b>     | #3H                        | <b>North Reference:</b>             | Grid                                         |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Design:</b>   | Plan #1                    | <b>Database:</b>                    | Midland Database                             |

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |  |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 9,400.00       | 49.49      | 179.57     | 9,350.61    | 5,990.21      | -167.29     | 1.26        | 167.29         | 12.00             | 399,031.61       | 745,228.66      |  |
| 9,425.00       | 52.49      | 179.57     | 9,366.34    | 6,005.94      | -186.71     | 1.40        | 186.72         | 12.00             | 399,012.19       | 745,228.80      |  |
| 9,450.00       | 55.49      | 179.57     | 9,381.04    | 6,020.64      | -206.93     | 1.55        | 206.94         | 12.00             | 398,991.97       | 745,228.95      |  |
| 9,475.00       | 58.49      | 179.57     | 9,394.66    | 6,034.26      | -227.89     | 1.71        | 227.90         | 12.00             | 398,971.01       | 745,229.11      |  |
| 9,500.00       | 61.49      | 179.57     | 9,407.16    | 6,046.76      | -249.53     | 1.87        | 249.54         | 12.00             | 398,949.37       | 745,229.27      |  |
| 9,525.00       | 64.49      | 179.57     | 9,418.52    | 6,058.12      | -271.80     | 2.04        | 271.81         | 12.00             | 398,927.10       | 745,229.44      |  |
| 9,550.00       | 67.49      | 179.57     | 9,428.69    | 6,068.29      | -294.64     | 2.21        | 294.65         | 12.00             | 398,904.26       | 745,229.61      |  |
| 9,575.00       | 70.49      | 179.57     | 9,437.65    | 6,077.25      | -317.97     | 2.39        | 317.98         | 12.00             | 398,880.93       | 745,229.79      |  |
| 9,600.00       | 73.49      | 179.57     | 9,445.38    | 6,084.98      | -341.74     | 2.57        | 341.75         | 12.00             | 398,857.16       | 745,229.97      |  |
| 9,625.00       | 76.49      | 179.57     | 9,451.86    | 6,091.46      | -365.89     | 2.75        | 365.90         | 12.00             | 398,833.01       | 745,230.15      |  |
| 9,650.00       | 79.49      | 179.57     | 9,457.06    | 6,096.66      | -390.33     | 2.93        | 390.35         | 12.00             | 398,808.57       | 745,230.33      |  |
| 9,675.00       | 82.49      | 179.57     | 9,460.98    | 6,100.58      | -415.02     | 3.12        | 415.03         | 12.00             | 398,783.88       | 745,230.52      |  |
| 9,700.00       | 85.49      | 179.57     | 9,463.59    | 6,103.19      | -439.88     | 3.30        | 439.89         | 12.00             | 398,759.02       | 745,230.70      |  |
| 9,725.00       | 88.49      | 179.57     | 9,464.91    | 6,104.51      | -464.84     | 3.49        | 464.86         | 12.00             | 398,734.06       | 745,230.89      |  |
| 9,729.28       | 89.00      | 179.57     | 9,465.00    | 6,104.60      | -469.12     | 3.52        | 469.13         | 12.00             | 398,729.78       | 745,230.92      |  |
| 9,800.00       | 89.00      | 179.57     | 9,466.24    | 6,105.84      | -539.83     | 4.05        | 539.84         | 0.00              | 398,659.07       | 745,231.45      |  |
| 9,900.00       | 89.00      | 179.57     | 9,467.98    | 6,107.58      | -639.81     | 4.80        | 639.83         | 0.00              | 398,559.09       | 745,232.20      |  |
| 10,000.00      | 89.00      | 179.57     | 9,469.73    | 6,109.33      | -739.79     | 5.55        | 739.81         | 0.00              | 398,459.11       | 745,232.95      |  |
| 10,100.00      | 89.00      | 179.57     | 9,471.47    | 6,111.07      | -839.78     | 6.31        | 839.80         | 0.00              | 398,359.12       | 745,233.71      |  |
| 10,200.00      | 89.00      | 179.57     | 9,473.22    | 6,112.82      | -939.76     | 7.06        | 939.78         | 0.00              | 398,259.14       | 745,234.46      |  |
| 10,300.00      | 89.00      | 179.57     | 9,474.96    | 6,114.56      | -1,039.74   | 7.81        | 1,039.77       | 0.00              | 398,159.16       | 745,235.21      |  |
| 10,400.00      | 89.00      | 179.57     | 9,476.71    | 6,116.31      | -1,139.72   | 8.56        | 1,139.75       | 0.00              | 398,059.18       | 745,235.96      |  |
| 10,500.00      | 89.00      | 179.57     | 9,478.45    | 6,118.05      | -1,239.70   | 9.31        | 1,239.74       | 0.00              | 397,959.20       | 745,236.71      |  |
| 10,600.00      | 89.00      | 179.57     | 9,480.20    | 6,119.80      | -1,339.68   | 10.06       | 1,339.72       | 0.00              | 397,859.22       | 745,237.46      |  |
| 10,700.00      | 89.00      | 179.57     | 9,481.94    | 6,121.54      | -1,439.67   | 10.81       | 1,439.71       | 0.00              | 397,759.23       | 745,238.21      |  |
| 10,800.00      | 89.00      | 179.57     | 9,483.69    | 6,123.29      | -1,539.65   | 11.56       | 1,539.69       | 0.00              | 397,659.25       | 745,238.96      |  |
| 10,900.00      | 89.00      | 179.57     | 9,485.43    | 6,125.03      | -1,639.63   | 12.31       | 1,639.68       | 0.00              | 397,559.27       | 745,239.71      |  |

|           |                             |                              |                                              |
|-----------|-----------------------------|------------------------------|----------------------------------------------|
| Company:  | EOG Resources, Inc.         | Local Co-ordinate Reference: | Well #3H                                     |
| Project:  | Lea County                  | TVD Reference:               | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| Site:     | Lomas Rojas "26" State Corn | MD Reference:                | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| Well:     | #3H                         | North Reference:             | Grid                                         |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Plan #1                     | Database:                    | Midland Database                             |

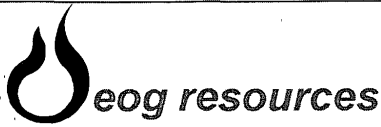
| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
| 11,000.00      | 89.00      | 179.57     | 9,487.18    | 6,126.78      | -1,739.61   | 13.06       | 1,739.66       | 0.00              | 397,459.29       | 745,240.46      |
| 11,100.00      | 89.00      | 179.57     | 9,488.92    | 6,128.52      | -1,839.59   | 13.81       | 1,839.65       | 0.00              | 397,359.31       | 745,241.21      |
| 11,200.00      | 89.00      | 179.57     | 9,490.67    | 6,130.27      | -1,939.58   | 14.56       | 1,939.63       | 0.00              | 397,259.32       | 745,241.96      |
| 11,300.00      | 89.00      | 179.57     | 9,492.42    | 6,132.02      | -2,039.56   | 15.31       | 2,039.62       | 0.00              | 397,159.34       | 745,242.71      |
| 11,400.00      | 89.00      | 179.57     | 9,494.16    | 6,133.76      | -2,139.54   | 16.06       | 2,139.60       | 0.00              | 397,059.36       | 745,243.46      |
| 11,500.00      | 89.00      | 179.57     | 9,495.91    | 6,135.51      | -2,239.52   | 16.82       | 2,239.59       | 0.00              | 396,959.38       | 745,244.22      |
| 11,600.00      | 89.00      | 179.57     | 9,497.65    | 6,137.25      | -2,339.50   | 17.57       | 2,339.57       | 0.00              | 396,859.40       | 745,244.97      |
| 11,700.00      | 89.00      | 179.57     | 9,499.40    | 6,139.00      | -2,439.49   | 18.32       | 2,439.56       | 0.00              | 396,759.41       | 745,245.72      |
| 11,800.00      | 89.00      | 179.57     | 9,501.14    | 6,140.74      | -2,539.47   | 19.07       | 2,539.54       | 0.00              | 396,659.43       | 745,246.47      |
| 11,900.00      | 89.00      | 179.57     | 9,502.89    | 6,142.49      | -2,639.45   | 19.82       | 2,639.52       | 0.00              | 396,559.45       | 745,247.22      |
| 12,000.00      | 89.00      | 179.57     | 9,504.63    | 6,144.23      | -2,739.43   | 20.57       | 2,739.51       | 0.00              | 396,459.47       | 745,247.97      |
| 12,100.00      | 89.00      | 179.57     | 9,506.38    | 6,145.98      | -2,839.41   | 21.32       | 2,839.49       | 0.00              | 396,359.49       | 745,248.72      |
| 12,200.00      | 89.00      | 179.57     | 9,508.12    | 6,147.72      | -2,939.40   | 22.07       | 2,939.48       | 0.00              | 396,259.50       | 745,249.47      |
| 12,300.00      | 89.00      | 179.57     | 9,509.87    | 6,149.47      | -3,039.38   | 22.82       | 3,039.46       | 0.00              | 396,159.52       | 745,250.22      |
| 12,400.00      | 89.00      | 179.57     | 9,511.61    | 6,151.21      | -3,139.36   | 23.57       | 3,139.45       | 0.00              | 396,059.54       | 745,250.97      |
| 12,500.00      | 89.00      | 179.57     | 9,513.36    | 6,152.96      | -3,239.34   | 24.32       | 3,239.43       | 0.00              | 395,959.56       | 745,251.72      |
| 12,600.00      | 89.00      | 179.57     | 9,515.10    | 6,154.70      | -3,339.32   | 25.07       | 3,339.42       | 0.00              | 395,859.58       | 745,252.47      |
| 12,700.00      | 89.00      | 179.57     | 9,516.85    | 6,156.45      | -3,439.31   | 25.82       | 3,439.40       | 0.00              | 395,759.59       | 745,253.22      |
| 12,800.00      | 89.00      | 179.57     | 9,518.59    | 6,158.19      | -3,539.29   | 26.57       | 3,539.39       | 0.00              | 395,659.61       | 745,253.97      |
| 12,900.00      | 89.00      | 179.57     | 9,520.34    | 6,159.94      | -3,639.27   | 27.33       | 3,639.37       | 0.00              | 395,559.63       | 745,254.73      |
| 13,000.00      | 89.00      | 179.57     | 9,522.08    | 6,161.68      | -3,739.25   | 28.08       | 3,739.36       | 0.00              | 395,459.65       | 745,255.48      |
| 13,100.00      | 89.00      | 179.57     | 9,523.83    | 6,163.43      | -3,839.23   | 28.83       | 3,839.34       | 0.00              | 395,359.67       | 745,256.23      |
| 13,200.00      | 89.00      | 179.57     | 9,525.57    | 6,165.17      | -3,939.22   | 29.58       | 3,939.33       | 0.00              | 395,259.68       | 745,256.98      |
| 13,300.00      | 89.00      | 179.57     | 9,527.32    | 6,166.92      | -4,039.20   | 30.33       | 4,039.31       | 0.00              | 395,159.70       | 745,257.73      |
| 13,400.00      | 89.00      | 179.57     | 9,529.07    | 6,168.67      | -4,139.18   | 31.08       | 4,139.30       | 0.00              | 395,059.72       | 745,258.48      |
| 13,500.00      | 89.00      | 179.57     | 9,530.81    | 6,170.41      | -4,239.16   | 31.83       | 4,239.28       | 0.00              | 394,959.74       | 745,259.23      |
| 13,600.00      | 89.00      | 179.57     | 9,532.56    | 6,172.16      | -4,339.14   | 32.58       | 4,339.27       | 0.00              | 394,859.76       | 745,259.98      |

|           |                            |                              |                                              |
|-----------|----------------------------|------------------------------|----------------------------------------------|
| Company:  | EOG Resources, Inc.        | Local Co-ordinate Reference: | Well #3H                                     |
| Project:  | Lea County                 | TVD Reference:               | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| Site:     | Lomas Rojas "26" State Com | MD Reference:                | RKBtoGL-19' @ 3360.40ft (Original Well Elev) |
| Well:     | #3H                        | North Reference:             | Grid:                                        |
| Wellbore: | OH                         | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Plan #1                    | Database:                    | Midland Database                             |

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
| 13,700.00      | 89.00      | 179.57     | 9,534.30    | 6,173.90      | -4,439.13   | 33.33       | 4,439.25       | 0.00              | 394,759.77       | 745,260.73      |
| 13,800.00      | 89.00      | 179.57     | 9,536.05    | 6,175.65      | -4,539.11   | 34.08       | 4,539.24       | 0.00              | 394,659.79       | 745,261.48      |
| 13,882.31      | 89.00      | 179.57     | 9,537.48    | 6,177.08      | -4,621.40   | 34.70       | 4,621.53       | 0.00              | 394,577.50       | 745,262.10      |

| Targets                                                                                 |                 |                  |                 |             |               |               |                  |                 |  |
|-----------------------------------------------------------------------------------------|-----------------|------------------|-----------------|-------------|---------------|---------------|------------------|-----------------|--|
| Target Name                                                                             | hit/miss target | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| Lomas26#3H_PBHL                                                                         |                 | 0.00             | 0.00            | 9,537.48    | 4,621.40      | -34.70        | 403,820.300      | 745,192.700     |  |
| - plan misses target center by 4651.24ft at 9050.00ft MD (9049.82 TVD, -4.07 N, 0.03 E) |                 |                  |                 |             |               |               |                  |                 |  |
| - Point                                                                                 |                 |                  |                 |             |               |               |                  |                 |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Project: Lea County  
Site: Lomas Rojas "26" State Com  
Well: #3H  
Wellbore: OH  
Plan: Plan #1 (#3H/OH)



Azimuths to Grid North  
True North: -0.42°  
Magnetic North: 7.29°  
Magnetic Field  
Strength: 48702.7snT  
Dip Angle: 60.12°  
Date: 02/26/2010  
Model: IGRF200510

# PATHFINDER

#### WELL DETAILS #3H

Ground Elevation 3341.40  
RKB Elevation RKB to GL-19' @ 3360.40ft (Original Well Elev)  
Rig Name Original Well Elev

|  | +N/-S | +E/-W | Northing   | Eastings   | Latitude        | Longitude         | Slot |
|--|-------|-------|------------|------------|-----------------|-------------------|------|
|  | 0.00  | 0.00  | 399198.903 | 745227.400 | 32° 5' 42.138 N | 103° 32' 29.245 W |      |

#### SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD     | +N/-S   | +E/-W  | DLeg  | TFace  | VSec    | Target          |
|-----|----------|-------|--------|---------|---------|--------|-------|--------|---------|-----------------|
| 1   | 0.00     | 0.00  | 0.00   | 0.00    | 0.00    | 0.00   | 0.00  | 0.00   | 0.00    |                 |
| 2   | 8987.51  | 0.00  | 0.00   | 8987.51 | 0.00    | 0.00   | 0.00  | 0.00   | 0.00    |                 |
| 3   | 9729.28  | 89.00 | 359.57 | 9465.00 | 469.12  | -3.52  | 12.00 | 359.57 | 469.13  | Lomas26#3H_PBHL |
| 4   | 13882.31 | 89.00 | 359.57 | 9537.48 | 4621.40 | -34.70 | 0.00  | 0.00   | 4621.53 | Lomas26#3H_PBHL |

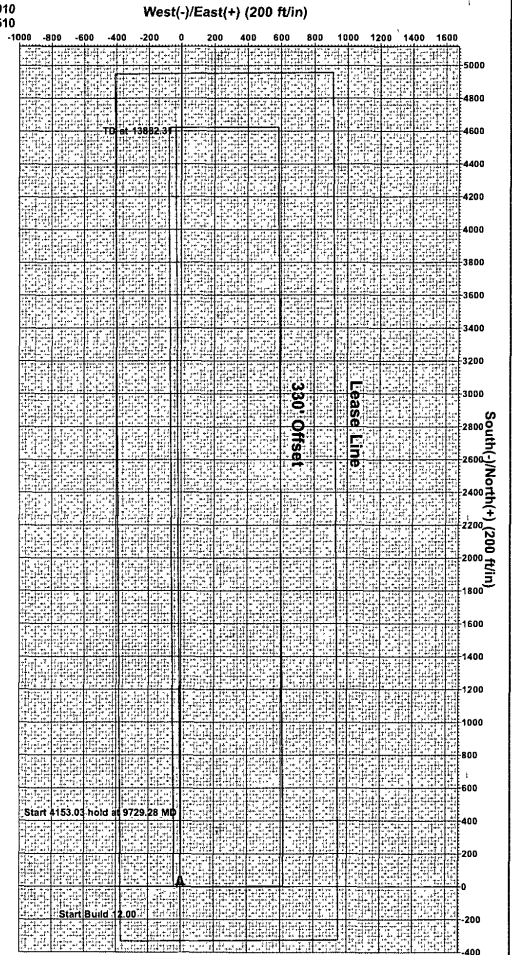
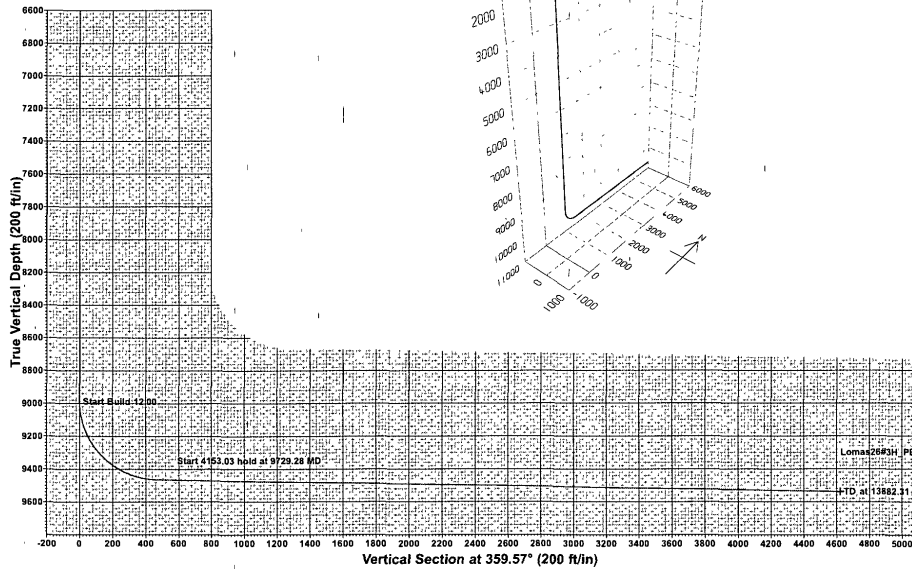
#### WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name            | TVD     | +N/-S   | +E/-W  | Northing   | Eastings   | Shape |
|-----------------|---------|---------|--------|------------|------------|-------|
| Lomas26#3H_PBHL | 9537.48 | 4621.40 | -34.70 | 403820.300 | 745192.700 | Point |

PROJECT DETAILS: Lea County  
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level  
Local North: Grid

#### LEGEND

- Plan #1



Plan Plan #1 (#3H/OH)  
Created By: Nate Bingham Date: 13.53, March 22 2010  
Checked: \_\_\_\_\_ Date: \_\_\_\_\_