



## COG OPERATING LLC

Eddy County, NM (NAN27 NME)

Polaris B Federal #29

Polaris B Federal #29

DH - Job #32D0111003

30-015-36665

Survey: MWD Survey

## SDI Standard Survey Report

03 February, 2011

This survey is correct to the best of my knowledge and is supported by actual field data.

Wharton

Notarized this date 3rd of February, 2011.

Carrie Reed

Notary Signature  
County of Midland  
State of Texas



Scientific Drilling  
Directional Drilling Operations

**Scientific Drilling International, Inc.**  
SDI Standard Survey Report

|                  |                             |                                     |                                            |
|------------------|-----------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | COG OPERATING LLC           | <b>Local Co-ordinate Reference:</b> | Site Polaris B Federal #29                 |
| <b>Project:</b>  | Eddy County, NM (NAN27 NME) | <b>TVD Reference:</b>               | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| <b>Site:</b>     | Polaris B Federal #29       | <b>MD Reference:</b>                | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| <b>Well:</b>     | Polaris B Federal #29       | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Actual                      | <b>Database:</b>                    | EDM-Regulatory                             |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, NM (NAN27 NME)          |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                       |          |                       |                 |                   |                   |
|-----------------------|----------|-----------------------|-----------------|-------------------|-------------------|
| Site                  |          | Polaris B Federal #29 |                 |                   |                   |
| Site Position:        |          | Northing:             | 670,597.30 usft | Latitude:         | 32° 50' 34.963 N  |
| From:                 | Map      | Easting:              | 609,939.20 usft | Longitude:        | 103° 58' 31.339 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:          | 13-3/16"        | Grid Convergence: | 0.19 °            |

|                      |                       |          |                     |                 |               |                   |
|----------------------|-----------------------|----------|---------------------|-----------------|---------------|-------------------|
| Well                 | Polaris B Federal #29 |          |                     |                 |               |                   |
| Well Position        | +N/-S                 | 0.0 usft | Northing:           | 670,597.30 usft | Latitude:     | 32° 50' 34.963 N  |
|                      | +E/-W                 | 0.0 usft | Easting:            | 609,939.20 usft | Longitude:    | 103° 58' 31.339 W |
| Position Uncertainty |                       | 0.0 usft | Wellhead Elevation: | usft            | Ground Level: | 3,682.0 usft      |

|                  |                   |                    |                    |                  |                       |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore</b>  | OH                |                    |                    |                  |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  |                   |                    | (°)                | (°)              | (nT)                  |
|                  | IGRF2010          | 1/4/2011           | 7.87               | 60.70            | 48,987                |

|                   |                            |                 |                 |                   |
|-------------------|----------------------------|-----------------|-----------------|-------------------|
| Design            | Actual                     |                 |                 |                   |
| Audit Notes:      |                            |                 |                 |                   |
| Version:          | 1.0                        | Phase:          | ACTUAL          | Tie On Depth: 0.0 |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°)  |
|                   | 0.0                        | 0.0             | 0.0             | 5.75              |

|                       |               |                          |                  |                                    |
|-----------------------|---------------|--------------------------|------------------|------------------------------------|
| <b>Survey Program</b> | Date 2/3/2011 |                          |                  |                                    |
| <b>From</b>           | <b>To</b>     | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b>                 |
| (usft)                | (usft)        |                          |                  |                                    |
| 100.0                 | 1,152.0       | Gyro Survey (OH)         | Keeper           | Standard Wireline Keeper ver 1.0.2 |
| 1,308.0               | 6,030.0       | MWD Survey (OH)          | MWD              | MWD - Standard                     |

|                       |                    |                |                      |                    |                  |                        |                         |     |
|-----------------------|--------------------|----------------|----------------------|--------------------|------------------|------------------------|-------------------------|-----|
| <b>Survey</b>         |                    |                |                      |                    |                  |                        |                         |     |
| <b>Measured Depth</b> | <b>Inclination</b> | <b>Azimuth</b> | <b>True Vertical</b> | <b>North/South</b> | <b>East/West</b> | <b>Closure Azimuth</b> | <b>Closure Distance</b> |     |
| (usft)                | (°)                | (°)            | Depth                | (usft)             | (usft)           | (°)                    | (usft)                  |     |
| 0.0                   | 0.00               | 0.00           | 0.0                  | 0.0                | 0.0              | 0.00                   | 0.0                     | 0.0 |
| 100.0                 | 0.47               | 168.60         | 100.0                | -0.4               | 0.1              | 168.60                 | 0.4                     |     |
| 200.0                 | 0.28               | 98.56          | 200.0                | -0.8               | 0.4              | 154.34                 | 0.9                     |     |
| 300.0                 | 0.19               | 128.33         | 300.0                | -1.0               | 0.8              | 141.64                 | 1.2                     |     |
| 400.0                 | 0.51               | 160.57         | 400.0                | -1.5               | 1.1              | 144.96                 | 1.8                     |     |
| 500.0                 | 0.82               | 173.53         | 500.0                | -2.6               | 1.3              | 154.03                 | 2.9                     |     |
| 600.0                 | 0.94               | 171.54         | 600.0                | -4.2               | 1.5              | 160.35                 | 4.4                     |     |
| 700.0                 | 0.91               | 149.35         | 700.0                | -5.6               | 2.0              | 160.42                 | 6.0                     |     |
| 800.0                 | 0.90               | 133.93         | 800.0                | -6.9               | 3.0              | 156.58                 | 7.5                     |     |
| 900.0                 | 1.21               | 113.05         | 899.9                | -7.8               | 4.5              | 150.04                 | 9.0                     |     |
| 1,000.0               | 1.77               | 99.80          | 999.9                | -8.5               | 7.0              | 140.53                 | 11.0                    |     |

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SDI Standard Survey Report

|                  |                             |                                     |                                            |
|------------------|-----------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | COG OPERATING LLC           | <b>Local Co-ordinate Reference:</b> | Site Polaris B Federal #29                 |
| <b>Project:</b>  | Eddy County, NM (NAN27 NME) | <b>TVD Reference:</b>               | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| <b>Site:</b>     | Polaris B Federal #29       | <b>MD Reference:</b>                | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| <b>Well:</b>     | Polaris B Federal #29       | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Actual                      | <b>Database:</b>                    | EDM-Regulatory                             |

| Survey                   |                    |                |                        |                       |                     |                        |                            |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
| 1,100.0                  | 1.48               | 102.62         | 1,099.9                | -9.1                  | 9.8                 | 132.77                 | 13.3                       |
| 1,152.0                  | 1.55               | 102.91         | 1,151.8                | -9.4                  | 11.1                | 130.06                 | 14.5                       |



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SDI Standard Survey Report



|           |                             |                              |                                            |
|-----------|-----------------------------|------------------------------|--------------------------------------------|
| Company:  | COG OPERATING LLC           | Local Co-ordinate Reference: | Site Polaris B Federal #29                 |
| Project:  | Eddy County, NM (NAN27 NME) | TVD Reference:               | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| Site:     | Polaris B Federal #29       | MD Reference:                | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| Well:     | Polaris B Federal #29       | North Reference:             | Grid                                       |
| Wellbore: | DH - Job #32D0111003        | Survey Calculation Method:   | Minimum Curvature                          |
| Design:   | Actual                      | Database:                    | EDM-Regulatory                             |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Eddy County, NM (NAN27 NME)          |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                       |                       |                                                       |                                                            |
|-----------------------|-----------------------|-------------------------------------------------------|------------------------------------------------------------|
| Site                  | Polaris B Federal #29 |                                                       |                                                            |
| Site Position:        | From: Map             | Northing: 670,597.30 usft<br>Easting: 609,939.20 usft | Latitude: 32° 50' 34.963 N<br>Longitude: 103° 58' 31.339 W |
| Position Uncertainty: | 0.0 usft              | Slot Radius: 13-3/16"                                 | Grid Convergence: 0.19 °                                   |

|                      |                                  |                                                       |                                                            |
|----------------------|----------------------------------|-------------------------------------------------------|------------------------------------------------------------|
| Well                 | Polaris B Federal #29            |                                                       |                                                            |
| Well Position        | +N/-S 0.0 usft<br>+E/-W 0.0 usft | Northing: 670,597.30 usft<br>Easting: 609,939.20 usft | Latitude: 32° 50' 34.963 N<br>Longitude: 103° 58' 31.339 W |
| Position Uncertainty | 0.0 usft                         | Wellhead Elevation: usft                              | Ground Level: 3,682.0 usft                                 |

|           |                      |             |                 |               |                     |
|-----------|----------------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | DH - Job #32D0111003 |             |                 |               |                     |
| Magnetics | Model Name           | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2010             | 1/4/2011    | 7.87            | 60.70         | 48,987              |

|                   |                         |              |              |                   |
|-------------------|-------------------------|--------------|--------------|-------------------|
| Design            | Actual                  |              |              |                   |
| Audit Notes:      |                         |              |              |                   |
| Version:          | 1.0                     | Phase:       | ACTUAL       | Tie On Depth: 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°)     |
|                   | 0.0                     | 0.0          | 0.0          | 5.75              |

|                |               |                                    |           |                                    |
|----------------|---------------|------------------------------------|-----------|------------------------------------|
| Survey Program | Date 2/3/2011 |                                    |           |                                    |
| From (usft)    | To (usft)     | Survey (Wellbore)                  | Tool Name | Description                        |
| 100.0          | 1,152.0       | Gyro Survey (DH - Job #32D0111003) | Keeper    | Standard Wireline Keeper ver 1.0.2 |
| 1,308.0        | 5,896.0       | MWD Survey (DH - Job #32D0111003)  | MWD       | MWD - Standard                     |

|                       |                 |             |                     |                    |                  |                     |                         |  |
|-----------------------|-----------------|-------------|---------------------|--------------------|------------------|---------------------|-------------------------|--|
| Survey                |                 |             |                     |                    |                  |                     |                         |  |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | True Vertical Depth | North/South (usft) | East/West (usft) | Closure Azimuth (°) | Closure Distance (usft) |  |
| 1,152.0               | 1.55            | 102.91      | 1,151.8             | -9.4               | 11.1             | 130.06              | 14.5                    |  |
| 1,308.0               | 1.18            | 119.70      | 1,307.8             | -10.6              | 14.6             | 126.08              | 18.0                    |  |
| 1,404.0               | 1.14            | 121.50      | 1,403.8             | -11.6              | 16.3             | 125.55              | 20.0                    |  |
| 1,468.0               | 1.13            | 80.96       | 1,467.8             | -11.9              | 17.4             | 124.22              | 21.1                    |  |
| 1,532.0               | 2.25            | 35.23       | 1,531.7             | -10.7              | 18.8             | 119.74              | 21.6                    |  |
| 1,595.0               | 3.67            | 14.22       | 1,594.7             | -7.8               | 20.0             | 111.23              | 21.4                    |  |
| 1,659.0               | 4.55            | 3.87        | 1,658.5             | -3.2               | 20.7             | 98.92               | 20.9                    |  |
| 1,723.0               | 5.76            | 6.99        | 1,722.2             | 2.5                | 21.2             | 83.34               | 21.4                    |  |
| 1,789.0               | 7.03            | 10.14       | 1,787.8             | 9.7                | 22.3             | 66.43               | 24.4                    |  |
| 1,850.0               | 7.92            | 10.88       | 1,848.3             | 17.5               | 23.8             | 53.58               | 29.6                    |  |
| 1,914.0               | 8.69            | 5.41        | 1,911.6             | 26.7               | 25.1             | 43.21               | 36.6                    |  |



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|           |                             |                              |                                            |
|-----------|-----------------------------|------------------------------|--------------------------------------------|
| Company:  | COG OPERATING LLC           | Local Co-ordinate Reference: | Site Polaris B Federal #29                 |
| Project:  | Eddy County, NM (NAN27 NME) | TVD Reference:               | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| Site:     | Polaris B Federal #29       | MD Reference:                | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| Well:     | Polaris B Federal #29       | North Reference:             | Grid                                       |
| Wellbore: | DH - Job #32D0111003        | Survey Calculation Method:   | Minimum Curvature                          |
| Design:   | Actual                      | Database:                    | EDM-Regulatory                             |

Survey

| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| 2,010.0                  | 10.09              | 2.37           | 2,006.3                | 42.3                  | 26.1                | 31.67                  | 49.7                       |
| 2,105.0                  | 9.27               | 0.56           | 2,100.0                | 58.3                  | 26.5                | 24.47                  | 64.0                       |
| 2,200.0                  | 8.78               | 358.90         | 2,193.8                | 73.2                  | 26.5                | 19.88                  | 77.8                       |
| 2,296.0                  | 9.03               | 6.21           | 2,288.7                | 88.0                  | 27.1                | 17.14                  | 92.1                       |
| 2,392.0                  | 8.10               | 4.45           | 2,383.6                | 102.2                 | 28.5                | 15.56                  | 106.1                      |
| 2,487.0                  | 7.74               | 5.78           | 2,477.7                | 115.3                 | 29.6                | 14.42                  | 119.0                      |
| 2,582.0                  | 7.42               | 4.24           | 2,571.9                | 127.7                 | 30.7                | 13.53                  | 131.4                      |
| 2,678.0                  | 7.78               | 0.80           | 2,667.0                | 140.4                 | 31.3                | 12.56                  | 143.9                      |
| 2,774.0                  | 7.57               | 0.21           | 2,762.1                | 153.2                 | 31.4                | 11.58                  | 156.4                      |
| 2,869.0                  | 7.24               | 357.70         | 2,856.4                | 165.5                 | 31.2                | 10.67                  | 168.4                      |
| 2,965.0                  | 8.15               | 4.28           | 2,951.5                | 178.3                 | 31.4                | 10.00                  | 181.1                      |
| 3,061.0                  | 7.86               | 0.74           | 3,046.6                | 191.7                 | 32.0                | 9.49                   | 194.3                      |
| 3,156.0                  | 9.46               | 5.97           | 3,140.5                | 205.9                 | 32.9                | 9.09                   | 208.5                      |
| 3,252.0                  | 9.41               | 3.69           | 3,235.2                | 221.6                 | 34.3                | 8.79                   | 224.2                      |
| 3,347.0                  | 9.00               | 2.22           | 3,329.0                | 236.8                 | 35.0                | 8.42                   | 239.4                      |
| 3,411.0                  | 9.07               | 3.81           | 3,392.2                | 246.8                 | 35.6                | 8.20                   | 249.4                      |
| 3,507.0                  | 9.06               | 4.14           | 3,487.0                | 261.9                 | 36.6                | 7.96                   | 264.5                      |
| 3,601.0                  | 9.10               | 5.02           | 3,579.8                | 276.7                 | 37.8                | 7.78                   | 279.3                      |
| 3,697.0                  | 8.90               | 7.19           | 3,674.6                | 291.6                 | 39.4                | 7.69                   | 294.3                      |
| 3,792.0                  | 8.95               | 6.75           | 3,768.4                | 306.2                 | 41.2                | 7.66                   | 309.0                      |
| 3,888.0                  | 8.61               | 9.08           | 3,863.3                | 320.8                 | 43.2                | 7.67                   | 323.7                      |
| 3,984.0                  | 7.25               | 4.50           | 3,958.4                | 333.9                 | 44.8                | 7.64                   | 336.9                      |
| 4,081.0                  | 6.68               | 0.30           | 4,054.7                | 345.6                 | 45.3                | 7.47                   | 348.6                      |
| 4,176.0                  | 5.79               | 354.19         | 4,149.1                | 355.9                 | 44.9                | 7.18                   | 358.7                      |
| 4,272.0                  | 4.79               | 353.70         | 4,244.7                | 364.7                 | 43.9                | 6.87                   | 367.4                      |
| 4,367.0                  | 4.89               | 354.00         | 4,339.4                | 372.7                 | 43.1                | 6.59                   | 375.2                      |
| 4,463.0                  | 4.18               | 359.80         | 4,435.1                | 380.3                 | 42.6                | 6.40                   | 382.7                      |
| 4,558.0                  | 4.19               | 358.20         | 4,529.8                | 387.2                 | 42.5                | 6.27                   | 389.5                      |
| 4,654.0                  | 3.90               | 6.78           | 4,625.6                | 393.9                 | 42.8                | 6.20                   | 396.3                      |
| 4,749.0                  | 3.92               | 0.10           | 4,720.4                | 400.4                 | 43.2                | 6.15                   | 402.7                      |
| 4,844.0                  | 3.93               | 357.80         | 4,815.1                | 406.9                 | 43.1                | 6.04                   | 409.2                      |
| 4,940.0                  | 3.21               | 5.79           | 4,911.0                | 412.9                 | 43.2                | 5.97                   | 415.1                      |
| 5,036.0                  | 3.54               | 8.74           | 5,006.8                | 418.5                 | 43.9                | 5.99                   | 420.8                      |
| 5,131.0                  | 3.33               | 7.33           | 5,101.6                | 424.1                 | 44.7                | 6.02                   | 426.5                      |
| 5,227.0                  | 3.38               | 5.32           | 5,197.5                | 429.7                 | 45.3                | 6.02                   | 432.1                      |
| 5,322.0                  | 3.29               | 1.19           | 5,292.3                | 435.2                 | 45.7                | 5.99                   | 437.6                      |
| 5,418.0                  | 3.38               | 359.02         | 5,388.1                | 440.8                 | 45.7                | 5.91                   | 443.1                      |
| 5,514.0                  | 3.40               | 356.90         | 5,484.0                | 446.5                 | 45.5                | 5.81                   | 448.8                      |
| 5,609.0                  | 3.08               | 5.74           | 5,578.8                | 451.8                 | 45.6                | 5.76                   | 454.1                      |
| 5,705.0                  | 3.13               | 1.86           | 5,674.7                | 457.0                 | 45.9                | 5.74                   | 459.3                      |
| 5,800.0                  | 3.01               | 1.09           | 5,769.5                | 462.1                 | 46.0                | 5.69                   | 464.4                      |
| 5,896.0                  | 2.64               | 7.05           | 5,865.4                | 466.8                 | 46.4                | 5.67                   | 469.1                      |



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SDI Standard Survey Report



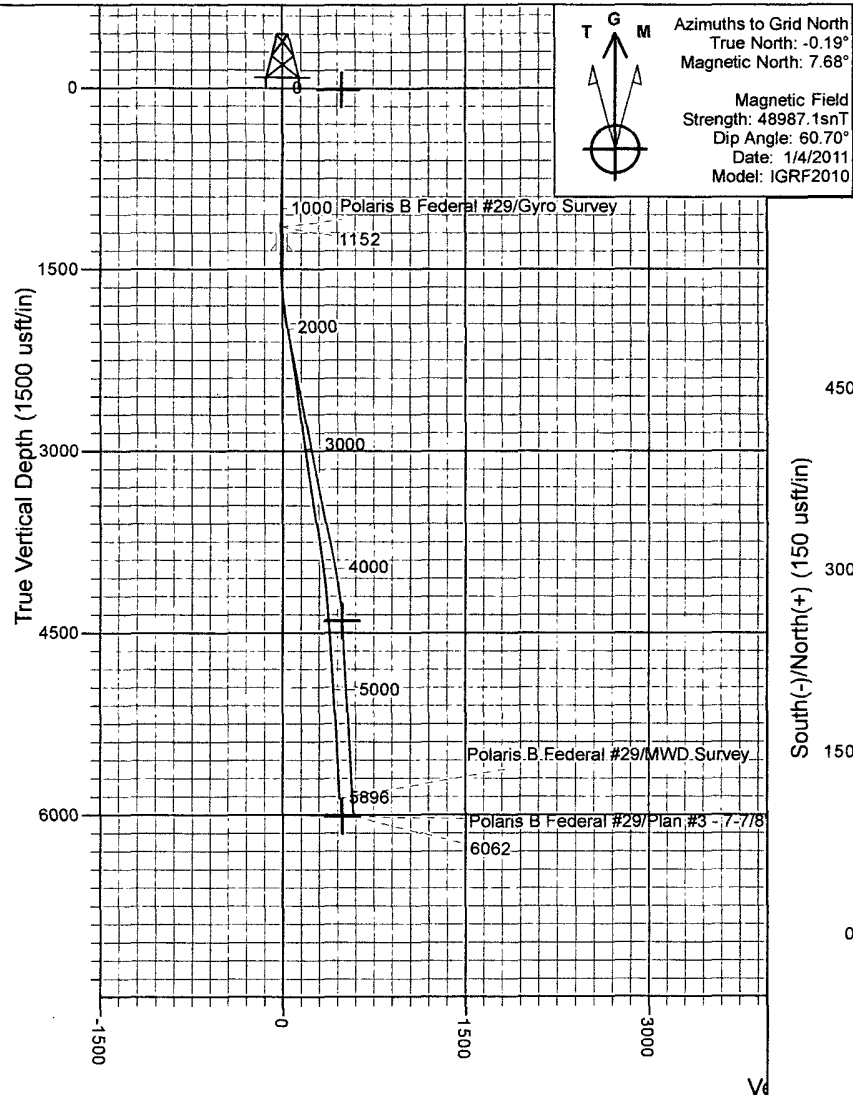
|           |                             |                              |                                            |
|-----------|-----------------------------|------------------------------|--------------------------------------------|
| Company:  | COG OPERATING LLC           | Local Co-ordinate Reference: | Site Polaris B Federal #29                 |
| Project:  | Eddy County, NM (NAN27 NME) | TVD Reference:               | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| Site:     | Polaris B Federal #29       | MD Reference:                | KB Elev (12') @ 3694.0usft (Silver Oak #5) |
| Well:     | Polaris B Federal #29       | North Reference:             | Grid                                       |
| Wellbore: | DH - Job #32D0111003        | Survey Calculation Method:   | Minimum Curvature                          |
| Design:   | Actual                      | Database:                    | EDM-Regulatory                             |

| Survey Annotations          |                             |                   |                 |                   |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment           |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                   |
| 1,152.0                     | 1,151.8                     | -9.4              | 11.1            | Gyro Tie-in       |
| 5,896.0                     | 5,865.4                     | 466.8             | 46.4            | Last MWD Survey   |
| 6,030.0                     | 5,999.3                     | 472.9             | 47.1            | Projection to Bit |

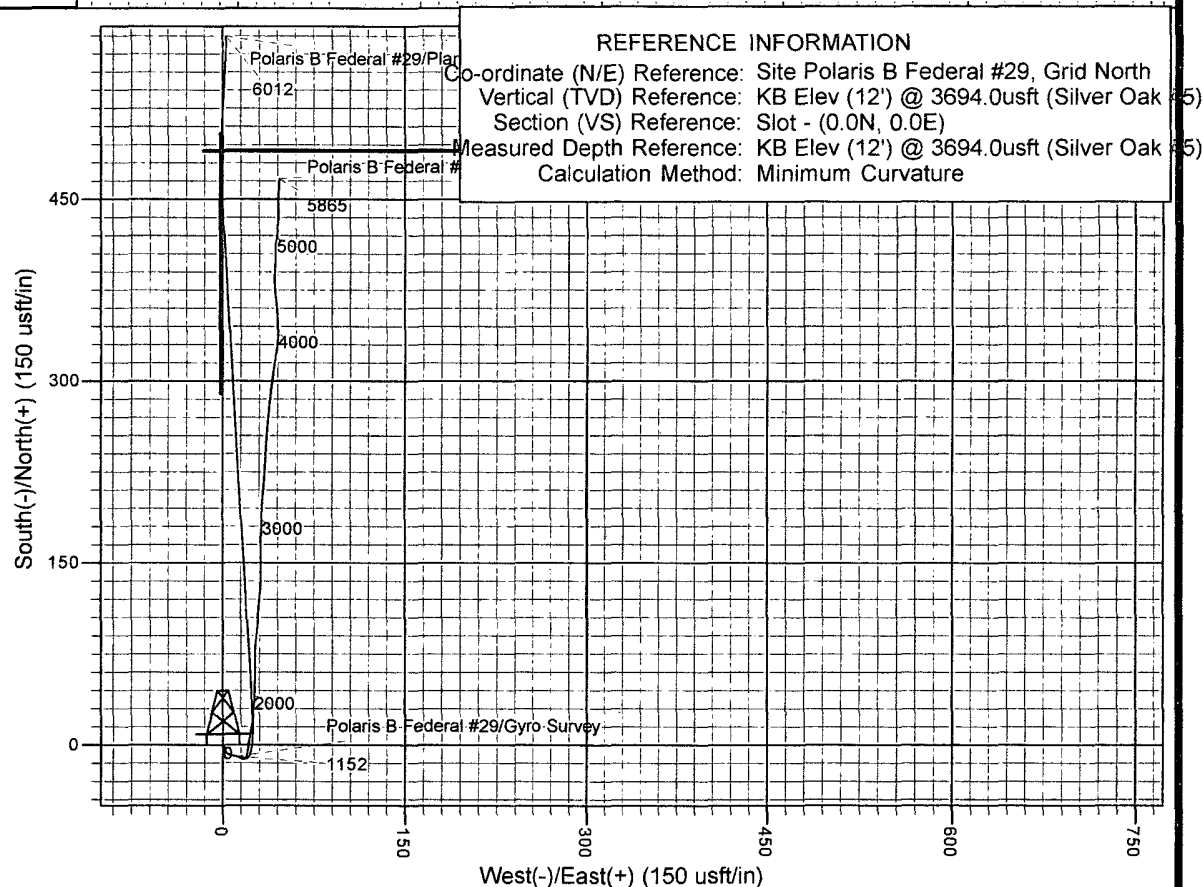
|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|



Project: Eddy County, NM (NAN27 NME)  
 Site: Polaris B Federal #29  
 Well: Polaris B Federal #29  
 Wellbore: DH - Job #32D0111003  
 Design: Plan #3 - 7-7/8" Hole



WELL DETAILS: Polaris B Federal #29  
 KB Elev (12') @ 3694.0usft (Silver Oak #5)  
 Ground Level: 3682.0  
 Easting: 609939.20  
 Latitude: 32° 50' 34.963 N  
 Longitude: 103° 58' 31.339 W  
 Slot



# REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Site Polaris B Federal #29, Grid North  
 Vertical (TVD) Reference: KB Elev (12') @ 3694.0usft (Silver Oak #5)  
 Section (VS) Reference: Slot - (0.0N, 0.0E)  
 Measured Depth Reference: KB Elev (12') @ 3694.0usft (Silver Oak #5)  
 Calculation Method: Minimum Curvature

COMPANY DETAILS: COG OPERATING LLC  
 223032

Calculation Method: Minimum Curvature  
 Error System: ISCWSA  
 Scan Method: Closest Approach 3D  
 Error Surface: Elliptical Conic  
 Warning Method: Error Ratio

PROJECT DETAILS: Eddy County, NM (NAN27 NME)  
 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

SITE DETAILS: Polaris B Federal #29  
 Site Centre Latitude: 32° 50' 34.963 N  
 Longitude: 103° 58' 31.339 W  
 Positional Uncertainty: 0.0  
 Convergence: 0.19  
 Local North: Grid