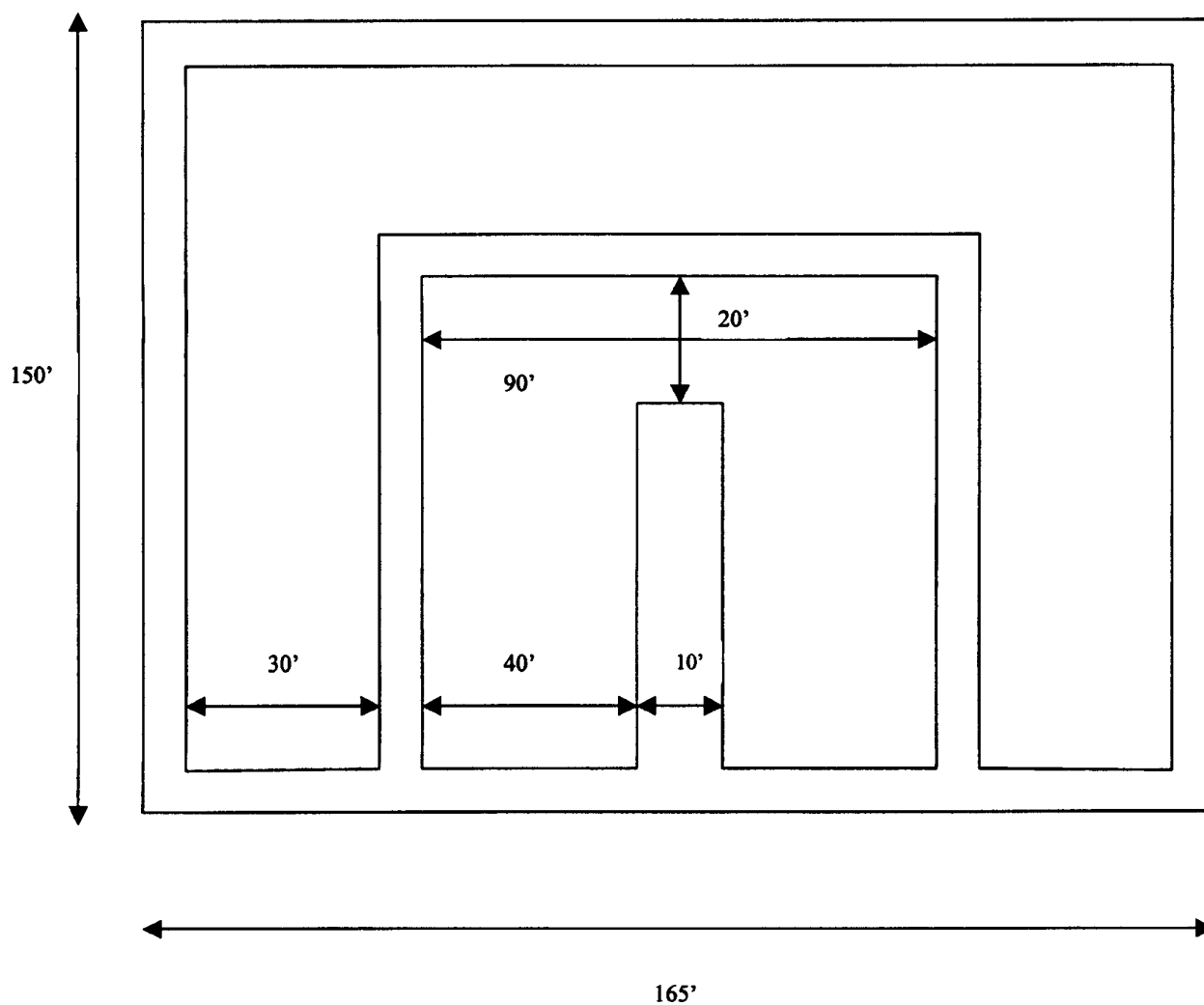


30-015-35506

## New Mexico Double Horseshoe Reserve Pit Design



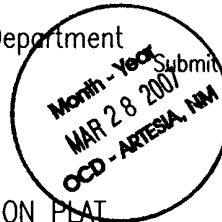
Approximate Inside Reserve Volume: 4500 bbls  
Approximate Outside Reserve Volume: 5800 bbls

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Revised October 2005  
Submit to Appropriate District Office  
State Lease  
Fee Lease-3 Copies

☐ AMENDED REPORT



WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                   |                                             |                                           |
|-----------------------------------|---------------------------------------------|-------------------------------------------|
| API Number<br><b>30-015-35506</b> | Pool Code<br><b>97489</b>                   | Pool Name<br><b>WILDCAT; WOLFCAMP GAS</b> |
| Property Code<br><b>36417</b>     | Property Name<br><b>ORINOCO "B" 8 FEE</b>   | Well Number<br><b>1H</b>                  |
| OGRID No.<br><b>7377</b>          | Operator Name<br><b>EOG RESOURCES, INC.</b> | Elevation<br><b>3346'</b>                 |

Surface Location

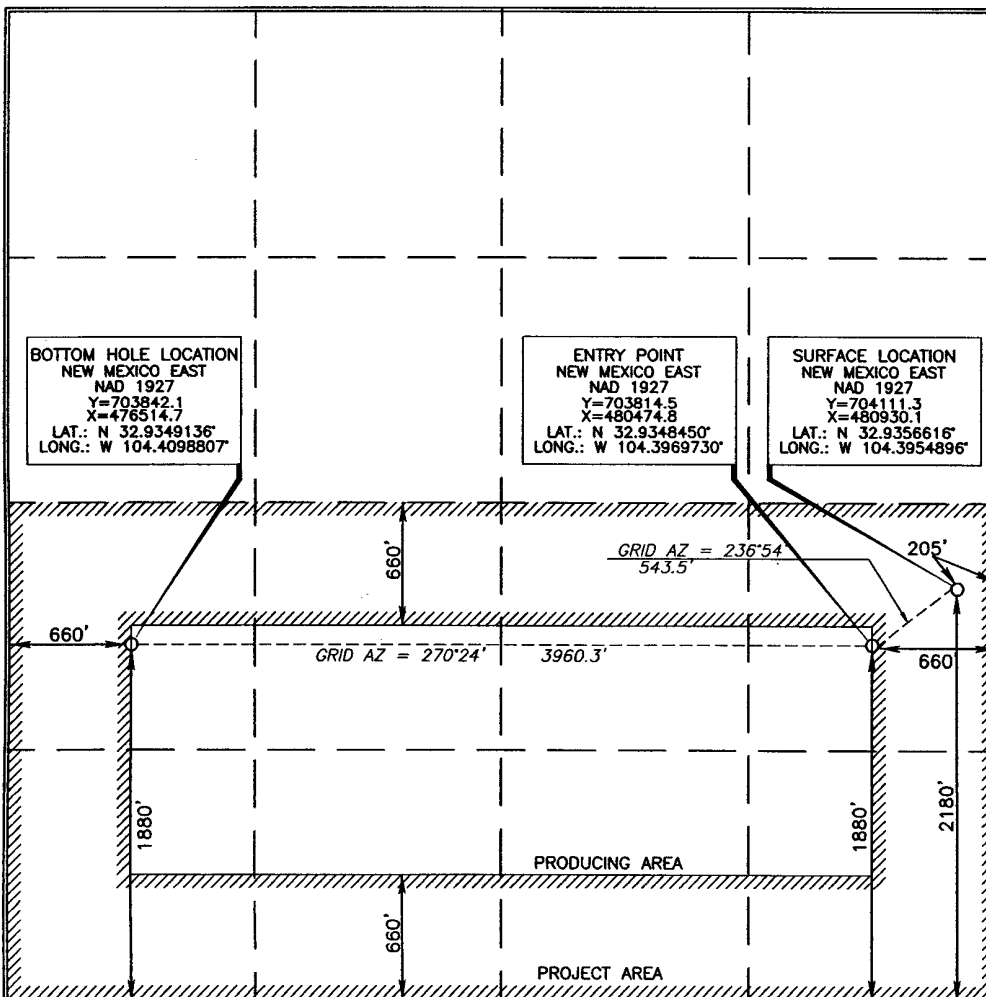
| UL or lot no. | Section  | Township        | Range                    | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|----------|-----------------|--------------------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>I</b>      | <b>8</b> | <b>16 SOUTH</b> | <b>26 EAST, N.M.P.M.</b> |         | <b>2180'</b>  | <b>SOUTH</b>     | <b>205'</b>   | <b>EAST</b>    | <b>EDDY</b> |

Bottom Hole Location If Different From Surface

| UL or lot no. | Section  | Township        | Range                    | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|----------|-----------------|--------------------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>L</b>      | <b>8</b> | <b>16 SOUTH</b> | <b>26 EAST, N.M.P.M.</b> |         | <b>1880'</b>  | <b>SOUTH</b>     | <b>660'</b>   | <b>WEST</b>    | <b>EDDY</b> |

|                               |                 |                    |           |
|-------------------------------|-----------------|--------------------|-----------|
| Dedicated Acres<br><b>320</b> | Joint or Infill | Consolidation Code | Order No. |
|-------------------------------|-----------------|--------------------|-----------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Donny G. Glanton* 3/26/07  
Signature Date

Donny G. Glanton  
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 12, 2006  
Date of Survey

Signature and Seal of  
Professional Surveyor

*Terry J. Auel* 2/20/07  
Certificate Number 15079

WO# 061212WL-d (JL)

**Permit Information:**

Well Name: Orinoco B 8 Fee #1H

**Location:**

SL 2180' FSL &amp; 205' FEL, Section 8, T-16-S, R-26-E, Eddy Co., N.M.

BHL 1880' FSL &amp; 660' FWL, Section 8, T-16-S, R-26-E, Eddy Co., N.M.

**Casing Program:**

| Casing     | Setting Depth | Hole Size | Casing Size | Casing Weight | Casing Grade | Desired TOC |
|------------|---------------|-----------|-------------|---------------|--------------|-------------|
| Surface    | 1,000'        | 12-1/4"   | 8-5/8"      | 32#           | J-55         | Surface     |
| Production | 9,350'        | 7-7/8"    | 5 1/2"      | 17#           | N-80         | Surface     |

© 1125'

**Cement Program:**

| Depth  | No. Sacks | Slurries:                                                                                         |
|--------|-----------|---------------------------------------------------------------------------------------------------|
| 1,000' | 200       | Lead: Premium Plus + 2% CaCl <sub>2</sub> + 3% Econolite + 1/4 pps Flocele                        |
|        | 175       | Tail: Premium Plus + 2% CaCl <sub>2</sub> + 1/4 pps Flocele                                       |
| 9,350' | 400       | Lead: Interfill C + 1/4 pps Flocele                                                               |
|        | 350       | Tail: Premium Cement + 100% Acid Soluble Additive + 0.6% Halad®-344 + 0.8% Econolite + 0.2% HR-55 |
|        |           |                                                                                                   |

© 1125'

**Mud Program:**

| Depth           | Type              | Weight (ppg) | Viscosity | Water Loss |
|-----------------|-------------------|--------------|-----------|------------|
| 0 - 1,000'      | Fresh - Gel       | 8.6-8.8      | 28-34     | N/c        |
| 1,000' - 4,600' | Cut Brine         | 8.8-9.2      | 28-34     | N/c        |
| 4,600' - 5,400' | Cut Brine         | 8.8-9.2      | 28-34     | 10-15      |
| 4,490' - 9,350' | Polymer (Lateral) | 9.0-9.4      | 40-45     | 10-20      |



**EOG Resources, Inc.**  
P.O. Box 2267  
Midland, TX 79702  
(432) 686-3600

March 2, 2007

State of New Mexico Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H<sub>2</sub>S Contingency Plan for the Orinoco B 8 Fee #1H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H<sub>2</sub>S bearing formations during drilling operations.

Sincerely,



Jason LaGrega  
Drilling Engineer

# Pathfinder Energy Planning Report

|                                                          |                    |                               |                  |                                                                   |                    |                         |                           |                           |                          |                     |
|----------------------------------------------------------|--------------------|-------------------------------|------------------|-------------------------------------------------------------------|--------------------|-------------------------|---------------------------|---------------------------|--------------------------|---------------------|
| <b>Company:</b> EOG Resources                            |                    |                               |                  | <b>Date:</b> 3/3/2007                                             |                    | <b>Time:</b> 21:02:39   |                           | <b>Page:</b> 1            |                          |                     |
| <b>Field:</b> Orinoco B 8 Fee #1H                        |                    |                               |                  | <b>Co-ordinate(NE) Reference:</b> Orinoco B 8 Fee #1H, Grid North |                    |                         |                           |                           |                          |                     |
| <b>Site:</b> Orinoco B 8 Fee #1H                         |                    |                               |                  | <b>Vertical (TVD) Reference:</b> SITE 0.0                         |                    |                         |                           |                           |                          |                     |
| <b>Well:</b> Orinoco B 8 Fee #1H                         |                    |                               |                  | <b>Section (VS) Reference:</b> Well (0.00N,0.00E,266.51Azi)       |                    |                         |                           |                           |                          |                     |
| <b>Wellpath:</b> OH                                      |                    |                               |                  | <b>Plan:</b> Plan #1 3-3-07                                       |                    |                         |                           |                           |                          |                     |
| <b>Field:</b> Orinoco B 8 Fee #1H                        |                    |                               |                  |                                                                   |                    |                         |                           |                           |                          |                     |
| <b>Map System:</b> US State Plane Coordinate System 1927 |                    |                               |                  | <b>Map Zone:</b> New Mexico, Eastern Zone                         |                    |                         |                           |                           |                          |                     |
| <b>Geo Datum:</b> NAD27 (Clarke 1866)                    |                    |                               |                  | <b>Coordinate System:</b> Site Centre                             |                    |                         |                           |                           |                          |                     |
| <b>Sys Datum:</b> Mean Sea Level                         |                    |                               |                  | <b>Geomagnetic Model:</b> igrf2005                                |                    |                         |                           |                           |                          |                     |
| <b>Site:</b> Orinoco B 8 Fee #1H                         |                    |                               |                  |                                                                   |                    |                         |                           |                           |                          |                     |
| <b>Site Position:</b>                                    |                    | <b>Northing:</b> 704111.30 ft |                  | <b>Latitude:</b> 32 56 8.382 N                                    |                    |                         |                           |                           |                          |                     |
| <b>From:</b> Map                                         |                    | <b>Easting:</b> 480930.10 ft  |                  | <b>Longitude:</b> 104 23 43.763 W                                 |                    |                         |                           |                           |                          |                     |
| <b>Position Uncertainty:</b> 0.00 ft                     |                    |                               |                  | <b>North Reference:</b> Grid                                      |                    |                         |                           |                           |                          |                     |
| <b>Ground Level:</b> 3346.00 ft                          |                    |                               |                  | <b>Grid Convergence:</b> -0.03 deg                                |                    |                         |                           |                           |                          |                     |
| <b>Well:</b> Orinoco B 8 Fee #1H                         |                    |                               |                  |                                                                   |                    |                         |                           |                           |                          |                     |
|                                                          |                    |                               |                  | <b>Slot Name:</b>                                                 |                    |                         |                           |                           |                          |                     |
| <b>Well Position:</b> +N/-S 0.00 ft                      |                    | <b>Northing:</b> 704111.30 ft |                  | <b>Latitude:</b> 32 56 8.382 N                                    |                    |                         |                           |                           |                          |                     |
| +E/-W 0.00 ft                                            |                    | <b>Easting:</b> 480930.10 ft  |                  | <b>Longitude:</b> 104 23 43.763 W                                 |                    |                         |                           |                           |                          |                     |
| <b>Position Uncertainty:</b> 0.00 ft                     |                    |                               |                  |                                                                   |                    |                         |                           |                           |                          |                     |
| <b>Wellpath:</b> OH                                      |                    |                               |                  |                                                                   |                    |                         |                           |                           |                          |                     |
| <b>Current Datum:</b> SITE                               |                    | <b>Height</b> 0.00 ft         |                  | <b>Drilled From:</b> Surface                                      |                    |                         |                           |                           |                          |                     |
| <b>Magnetic Data:</b> 3/3/2007                           |                    |                               |                  | <b>Tie-on Depth:</b> 0.00 ft                                      |                    |                         |                           |                           |                          |                     |
| <b>Field Strength:</b> 49425 nT                          |                    |                               |                  | <b>Above System Datum:</b> Mean Sea Level                         |                    |                         |                           |                           |                          |                     |
| <b>Vertical Section: Depth From (TVD)</b>                |                    |                               |                  | <b>Declination:</b> 8.52 deg                                      |                    |                         |                           |                           |                          |                     |
| ft                                                       |                    | +N/-S ft                      |                  | <b>Mag Dip Angle:</b> 60.81 deg                                   |                    |                         |                           |                           |                          |                     |
|                                                          |                    |                               |                  | <b>+E/-W</b>                                                      |                    | <b>Direction</b>        |                           |                           |                          |                     |
|                                                          |                    |                               |                  | ft                                                                |                    | deg                     |                           |                           |                          |                     |
| 5090.00                                                  |                    | 0.00                          |                  | 0.00                                                              |                    | 266.51                  |                           |                           |                          |                     |
| <b>Plan:</b> Plan #1 3-3-07                              |                    |                               |                  |                                                                   |                    |                         |                           |                           |                          |                     |
|                                                          |                    |                               |                  | <b>Date Composed:</b> 3/3/2007                                    |                    |                         |                           |                           |                          |                     |
| <b>Principal:</b> No                                     |                    |                               |                  | <b>Version:</b> 1                                                 |                    |                         |                           |                           |                          |                     |
|                                                          |                    |                               |                  | <b>Tied-to:</b> From Surface                                      |                    |                         |                           |                           |                          |                     |
| <b>Plan Section Information</b>                          |                    |                               |                  |                                                                   |                    |                         |                           |                           |                          |                     |
| <b>MD</b><br>ft                                          | <b>Incl</b><br>deg | <b>Azim</b><br>deg            | <b>TVD</b><br>ft | <b>+N/-S</b><br>ft                                                | <b>+E/-W</b><br>ft | <b>DLS</b><br>deg/100ft | <b>Build</b><br>deg/100ft | <b>Turn</b><br>deg/100ft  | <b>TFO</b><br>deg        | <b>Target</b>       |
| 0.00                                                     | 0.00               | 0.00                          | 0.00             | 0.00                                                              | 0.00               | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 4490.00                                                  | 0.00               | 0.00                          | 4490.00          | 0.00                                                              | 0.00               | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 5418.66                                                  | 80.00              | 245.00                        | 5145.00          | -232.28                                                           | -498.12            | 8.61                    | 8.61                      | 0.00                      | 245.00                   |                     |
| 5757.62                                                  | 90.00              | 270.54                        | 5175.00          | -302.55                                                           | -825.07            | 8.06                    | 2.95                      | 7.53                      | 70.03                    |                     |
| 6878.62                                                  | 90.01              | 270.54                        | 5174.90          | -291.99                                                           | -1946.02           | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 6944.81                                                  | 92.00              | 270.53                        | 5173.74          | -291.37                                                           | -2012.19           | 3.00                    | 3.00                      | -0.02                     | -0.33                    |                     |
| 9349.43                                                  | 92.00              | 270.53                        | 5090.01          | -269.20                                                           | -4415.25           | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 9349.58                                                  | 92.00              | 270.53                        | 5090.00          | -269.20                                                           | -4415.40           | 3.00                    | 2.84                      | 0.97                      | 18.89                    | PBHL                |
| <b>Survey</b>                                            |                    |                               |                  |                                                                   |                    |                         |                           |                           |                          |                     |
| <b>MD</b><br>ft                                          | <b>Incl</b><br>deg | <b>Azim</b><br>deg            | <b>TVD</b><br>ft | <b>+N/-S</b><br>ft                                                | <b>+E/-W</b><br>ft | <b>VS</b><br>ft         | <b>DLS</b><br>deg/100ft   | <b>Build</b><br>deg/100ft | <b>Turn</b><br>deg/100ft | <b>Tool/Comment</b> |
| 0.00                                                     | 0.00               | 0.00                          | 0.00             | 0.00                                                              | 0.00               | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 100.00                                                   | 0.00               | 0.00                          | 100.00           | 0.00                                                              | 0.00               | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 200.00                                                   | 0.00               | 0.00                          | 200.00           | 0.00                                                              | 0.00               | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 300.00                                                   | 0.00               | 0.00                          | 300.00           | 0.00                                                              | 0.00               | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 400.00                                                   | 0.00               | 0.00                          | 400.00           | 0.00                                                              | 0.00               | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 500.00                                                   | 0.00               | 0.00                          | 500.00           | 0.00                                                              | 0.00               | 0.00                    | 0.00                      | 0.00                      | 0.00                     |                     |
| 600.00                                                   | 0.00               | 0.00                          | 600.00           | 0.00                                                              | 0.00               | 0.00                    | 0.00                      |                           |                          |                     |

# Pathfinder Energy

## Planning Report

|                                                                                                                                                                   |                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Company:</b> EOG Resources<br><b>Field:</b> Orinoco B 8 Fee #1H<br><b>Site:</b> Orinoco B 8 Fee #1H<br><b>Well:</b> Orinoco B 8 Fee #1H<br><b>Wellpath:</b> OH | <b>Date:</b> 3/3/2007 <b>Time:</b> 21:02:39 <b>Page:</b> 2<br><b>Co-ordinate(NE) Reference:</b> Orinoco B 8 Fee #1H, Grid North<br><b>Vertical (TVD) Reference:</b> SITE 0.0<br><b>Section (VS) Reference:</b> Well (0.00N,0.00E,266.51Azi)<br><b>Plan:</b> Plan #1 3-3-07 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | Tool/Comment             |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|--------------------------|
| 1400.00  | 0.00        | 0.00        | 1400.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 1500.00  | 0.00        | 0.00        | 1500.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 1600.00  | 0.00        | 0.00        | 1600.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 1700.00  | 0.00        | 0.00        | 1700.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 1800.00  | 0.00        | 0.00        | 1800.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 1900.00  | 0.00        | 0.00        | 1900.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2000.00  | 0.00        | 0.00        | 2000.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2100.00  | 0.00        | 0.00        | 2100.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2200.00  | 0.00        | 0.00        | 2200.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2300.00  | 0.00        | 0.00        | 2300.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2400.00  | 0.00        | 0.00        | 2400.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2500.00  | 0.00        | 0.00        | 2500.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2600.00  | 0.00        | 0.00        | 2600.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2700.00  | 0.00        | 0.00        | 2700.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2800.00  | 0.00        | 0.00        | 2800.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 2900.00  | 0.00        | 0.00        | 2900.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3000.00  | 0.00        | 0.00        | 3000.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3100.00  | 0.00        | 0.00        | 3100.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3200.00  | 0.00        | 0.00        | 3200.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3300.00  | 0.00        | 0.00        | 3300.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3400.00  | 0.00        | 0.00        | 3400.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3500.00  | 0.00        | 0.00        | 3500.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3600.00  | 0.00        | 0.00        | 3600.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3700.00  | 0.00        | 0.00        | 3700.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3800.00  | 0.00        | 0.00        | 3800.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 3900.00  | 0.00        | 0.00        | 3900.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 4000.00  | 0.00        | 0.00        | 4000.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 4100.00  | 0.00        | 0.00        | 4100.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 4200.00  | 0.00        | 0.00        | 4200.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 4300.00  | 0.00        | 0.00        | 4300.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 4400.00  | 0.00        | 0.00        | 4400.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              |                          |
| 4490.00  | 0.00        | 0.00        | 4490.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | KOP @ 4490' MD/TVD       |
| 4500.00  | 0.86        | 245.00      | 4500.00   | -0.03       | -0.07       | 0.07     | 8.61             | 8.61               | 0.00              |                          |
| 4600.00  | 9.48        | 245.00      | 4599.50   | -3.84       | -8.23       | 8.44     | 8.61             | 8.61               | 0.00              |                          |
| 4700.00  | 18.09       | 245.00      | 4696.53   | -13.89      | -29.80      | 30.59    | 8.61             | 8.61               | 0.00              |                          |
| 4800.00  | 26.71       | 245.00      | 4788.90   | -29.98      | -64.30      | 66.00    | 8.61             | 8.61               | 0.00              |                          |
| 4900.00  | 35.32       | 245.00      | 4874.52   | -51.74      | -110.95     | 113.89   | 8.61             | 8.61               | 0.00              |                          |
| 5000.00  | 43.93       | 245.00      | 4951.47   | -78.67      | -168.70     | 173.17   | 8.61             | 8.61               | 0.00              |                          |
| 5100.00  | 52.55       | 245.00      | 5018.01   | -110.16     | -236.24     | 242.51   | 8.61             | 8.61               | 0.00              |                          |
| 5200.00  | 61.16       | 245.00      | 5072.63   | -145.51     | -312.06     | 320.33   | 8.61             | 8.61               | 0.00              |                          |
| 5300.00  | 69.78       | 245.00      | 5114.11   | -183.93     | -394.43     | 404.89   | 8.61             | 8.61               | 0.00              |                          |
| 5400.00  | 78.39       | 245.00      | 5141.50   | -224.53     | -481.50     | 494.28   | 8.61             | 8.61               | 0.00              |                          |
| 5418.66  | 80.00       | 245.00      | 5145.00   | -232.28     | -498.12     | 511.33   | 8.61             | 8.61               | 0.00              |                          |
| 5500.00  | 82.29       | 251.21      | 5157.53   | -262.21     | -572.65     | 587.55   | 8.06             | 2.82               | 7.64              |                          |
| 5600.00  | 85.23       | 258.76      | 5168.42   | -287.93     | -668.59     | 684.87   | 8.06             | 2.94               | 7.55              |                          |
| 5700.00  | 88.24       | 266.24      | 5174.12   | -300.93     | -767.49     | 784.38   | 8.06             | 3.02               | 7.48              |                          |
| 5757.62  | 90.00       | 270.54      | 5175.00   | -302.55     | -825.07     | 841.95   | 8.06             | 3.05               | 7.46              | EOC @ 5757' MD, 5175 TVD |
| 5800.00  | 90.00       | 270.54      | 5175.00   | -302.15     | -867.44     | 884.22   | 0.00             | 0.00               | 0.00              |                          |
| 5900.00  | 90.00       | 270.54      | 5175.00   | -301.21     | -967.44     | 983.98   | 0.00             | 0.00               | 0.00              |                          |
| 6000.00  | 90.00       | 270.54      | 5175.00   | -300.27     | -1067.44    | 1083.73  | 0.00             | 0.00               | 0.00              |                          |
| 6100.00  | 90.00       | 270.54      | 5174.99   | -299.32     | -1167.43    | 1183.48  | 0.00             | 0.00               | 0.00              |                          |
| 6200.00  | 90.00       | 270.54      | 5174.98   | -298.38     | -1267.43    | 1283.24  | 0.00             | 0.00               | 0.00              |                          |
| 6300.00  | 90.00       | 270.54      | 5174.98   | -297.44     | -1367.42    | 1382.99  | 0.00             | 0.00               | 0.00              |                          |

# Pathfinder Energy

## Planning Report

**Company:** EOG Resources  
**Field:** Orinoco B 8 Fee #1H  
**Site:** Orinoco B 8 Fee #1H  
**Well:** Orinoco B 8 Fee #1H  
**Wellpath:** OH

**Date:** 3/3/2007 **Time:** 21:02:39 **Page:** 3  
**Co-ordinate(NE) Reference:** Orinoco B 8 Fee #1H, Grid North  
**Vertical (TVD) Reference:** SITE 0.0  
**Section (VS) Reference:** Well (0.00N,0.00E,266.51Azi)  
**Plan:** Plan #1 3-3-07

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | Tool/Comment              |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|---------------------------|
| 6400.00  | 90.01       | 270.54      | 5174.97   | -296.50     | -1467.42    | 1482.74  | 0.00             | 0.00               | 0.00              |                           |
| 6500.00  | 90.01       | 270.54      | 5174.96   | -295.55     | -1567.41    | 1582.49  | 0.00             | 0.00               | 0.00              |                           |
| 6600.00  | 90.01       | 270.54      | 5174.94   | -294.61     | -1667.41    | 1682.25  | 0.00             | 0.00               | 0.00              |                           |
| 6700.00  | 90.01       | 270.54      | 5174.93   | -293.67     | -1767.40    | 1782.00  | 0.00             | 0.00               | 0.00              |                           |
| 6800.00  | 90.01       | 270.54      | 5174.92   | -292.73     | -1867.40    | 1881.75  | 0.00             | 0.00               | 0.00              |                           |
| 6878.62  | 90.01       | 270.54      | 5174.90   | -291.99     | -1946.02    | 1960.18  | 0.00             | 0.00               | 0.00              | End Hold @ 6878' MD, Beg  |
| 6900.00  | 90.65       | 270.54      | 5174.78   | -291.78     | -1967.40    | 1981.51  | 3.00             | 3.00               | -0.02             |                           |
| 6944.81  | 92.00       | 270.53      | 5173.74   | -291.37     | -2012.19    | 2026.20  | 3.00             | 3.00               | -0.02             | End Build @ 6944' MD, 92° |
| 7000.00  | 92.00       | 270.53      | 5171.82   | -290.86     | -2067.34    | 2081.21  | 0.00             | 0.00               | 0.00              |                           |
| 7100.00  | 92.00       | 270.53      | 5168.34   | -289.94     | -2167.28    | 2180.91  | 0.00             | 0.00               | 0.00              |                           |
| 7200.00  | 92.00       | 270.53      | 5164.86   | -289.02     | -2267.21    | 2280.60  | 0.00             | 0.00               | 0.00              |                           |
| 7300.00  | 92.00       | 270.53      | 5161.37   | -288.09     | -2367.15    | 2380.29  | 0.00             | 0.00               | 0.00              |                           |
| 7400.00  | 92.00       | 270.53      | 5157.89   | -287.17     | -2467.08    | 2479.99  | 0.00             | 0.00               | 0.00              |                           |
| 7500.00  | 92.00       | 270.53      | 5154.41   | -286.25     | -2567.02    | 2579.68  | 0.00             | 0.00               | 0.00              |                           |
| 7600.00  | 92.00       | 270.53      | 5150.93   | -285.33     | -2666.96    | 2679.38  | 0.00             | 0.00               | 0.00              |                           |
| 7700.00  | 92.00       | 270.53      | 5147.45   | -284.41     | -2766.89    | 2779.07  | 0.00             | 0.00               | 0.00              |                           |
| 7800.00  | 92.00       | 270.53      | 5143.96   | -283.49     | -2866.83    | 2878.76  | 0.00             | 0.00               | 0.00              |                           |
| 7900.00  | 92.00       | 270.53      | 5140.48   | -282.56     | -2966.76    | 2978.46  | 0.00             | 0.00               | 0.00              |                           |
| 8000.00  | 92.00       | 270.53      | 5137.00   | -281.64     | -3066.70    | 3078.15  | 0.00             | 0.00               | 0.00              |                           |
| 8100.00  | 92.00       | 270.53      | 5133.52   | -280.72     | -3166.63    | 3177.84  | 0.00             | 0.00               | 0.00              |                           |
| 8200.00  | 92.00       | 270.53      | 5130.03   | -279.80     | -3266.57    | 3277.54  | 0.00             | 0.00               | 0.00              |                           |
| 8300.00  | 92.00       | 270.53      | 5126.55   | -278.88     | -3366.50    | 3377.23  | 0.00             | 0.00               | 0.00              |                           |
| 8400.00  | 92.00       | 270.53      | 5123.07   | -277.95     | -3466.44    | 3476.93  | 0.00             | 0.00               | 0.00              |                           |
| 8500.00  | 92.00       | 270.53      | 5119.59   | -277.03     | -3566.37    | 3576.62  | 0.00             | 0.00               | 0.00              |                           |
| 8600.00  | 92.00       | 270.53      | 5116.10   | -276.11     | -3666.31    | 3676.31  | 0.00             | 0.00               | 0.00              |                           |
| 8700.00  | 92.00       | 270.53      | 5112.62   | -275.19     | -3766.24    | 3776.01  | 0.00             | 0.00               | 0.00              |                           |
| 8800.00  | 92.00       | 270.53      | 5109.14   | -274.27     | -3866.18    | 3875.70  | 0.00             | 0.00               | 0.00              |                           |
| 8900.00  | 92.00       | 270.53      | 5105.66   | -273.34     | -3966.11    | 3975.39  | 0.00             | 0.00               | 0.00              |                           |
| 9000.00  | 92.00       | 270.53      | 5102.17   | -272.42     | -4066.05    | 4075.09  | 0.00             | 0.00               | 0.00              |                           |
| 9100.00  | 92.00       | 270.53      | 5098.69   | -271.50     | -4165.98    | 4174.78  | 0.00             | 0.00               | 0.00              |                           |
| 9200.00  | 92.00       | 270.53      | 5095.21   | -270.58     | -4265.92    | 4274.48  | 0.00             | 0.00               | 0.00              |                           |
| 9300.00  | 92.00       | 270.53      | 5091.73   | -269.66     | -4365.85    | 4374.17  | 0.00             | 0.00               | 0.00              |                           |
| 9349.58  | 92.00       | 270.53      | 5090.00   | -269.20     | -4415.40    | 4423.60  | 0.01             | 0.01               | 0.00              | PBHL                      |

### Targets

| Name | Description<br>Dip. Dir. | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | <---- Latitude ----><---- Longitude ----> |    |         |                 |
|------|--------------------------|-----------|-------------|-------------|-----------------------|----------------------|-------------------------------------------|----|---------|-----------------|
| PBHL |                          | 5090.00   | -269.20     | -4415.40    | 703842.10             | 476514.70            | 32                                        | 56 | 5.689 N | 104 24 35.570 W |

### Annotation

| MD<br>ft | TVD<br>ft |                                     |
|----------|-----------|-------------------------------------|
| 4490.00  | 4490.00   | KOP @ 4490' MD/TVD                  |
| 5757.62  | 5175.00   | EOC @ 5757' MD, 5175 TVD Begin Hold |
| 6878.62  | 5174.90   | End Hold @ 6878' MD, Begin Build    |
| 6944.81  | 5173.74   | End Build @ 6944' MD, 92° INC       |



## COMPANY DETAILS

EOG Resources  
4000 N. Big Spring, Ste. 500  
Midland, TX 79705

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

**PATHFINDER**

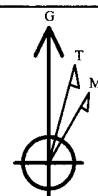
**Field: Orinoco B 8 Fee #1H**  
**Site: Orinoco B 8 Fee #1H**  
**Well: Orinoco B 8 Fee #1H**  
**Wellpath: OH**  
**Plan: Plan #1 3-3-07**

## WELL DETAILS

| Name                | +N/-S | +E/-W | Northing  | Easting   | Latitude      | Longitude      | Slot |
|---------------------|-------|-------|-----------|-----------|---------------|----------------|------|
| Orinoco B 8 Fee #1H | 0.00  | 0.00  | 704111.30 | 480930.10 | 32°56'08.382N | 104°23'43.763W | N/A  |

## 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   | 4490.00 | 0.00  | 0.00   | 4490.00 | 0.00    | 0.00     | 0.00 | 0.00   | 0.00    |        |
| 3   | 5418.66 | 80.00 | 245.00 | 5145.00 | -232.28 | -498.12  | 8.61 | 245.00 | 511.33  |        |
| 4   | 5757.62 | 90.00 | 270.54 | 5175.00 | -302.55 | -825.07  | 8.06 | 70.03  | 841.95  |        |
| 5   | 6878.62 | 90.01 | 270.54 | 5174.90 | -291.99 | -1946.02 | 0.00 | 0.00   | 1960.18 |        |
| 6   | 6944.81 | 92.00 | 270.53 | 5173.74 | -291.37 | -2012.19 | 3.00 | -0.33  | 2026.20 |        |
| 7   | 9349.43 | 92.00 | 270.53 | 5090.01 | -269.20 | -4415.25 | 0.00 | 0.00   | 4423.45 |        |
| 8   | 9349.58 | 92.00 | 270.53 | 5090.00 | -269.20 | -4415.40 | 3.00 | 18.89  | 4423.60 | PBHL   |



Azimuths to Grid North  
True North: 0.03°  
Magnetic North: 8.55°

Magnetic Field  
Strength: 49425nT  
Dip Angle: 60.81°  
Date: 3/3/2007  
Model: igrf2005

## SITE DETAILS

Orinoco B 8 Fee #1H

Site Centre Northing: 704111.30  
Easting: 480930.10

Ground Level: 3346.00  
Positional Uncertainty: 0.00  
Convergence: -0.03

## FIELD DETAILS

Orinoco B 8 Fee #1H

Geodetic System: US State Plane Coordinate System 1927  
Ellipsoid: NAD27 (Clarke 1866)  
Zone: New Mexico, Eastern Zone  
Magnetic Model: igrf2005

System Datum: Mean Sea Level  
Local North: Grid North

## ANNOTATIONS

| No. | TVD     | MD      | Annotation                           |
|-----|---------|---------|--------------------------------------|
| 1   | 4490.00 | 4490.00 | KOP @ 4490' MD/TVD                   |
| 2   | 5175.00 | 5757.62 | EOC @ 5757' MD, 5175' TVD Begin Hold |
| 3   | 5174.90 | 6878.62 | End Hold @ 6878' MD, Begin Build     |
| 4   | 5173.74 | 6944.81 | End Build @ 6944' MD, 92° INC        |

