

District II  
1301 W. Grand Ave., Artesia, NM 88210  
Phone: (505) 748-1283 Fax: (505) 748-9720

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

Form C-101  
Permit 45293

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

|                                                                                        |                                   |                              |
|----------------------------------------------------------------------------------------|-----------------------------------|------------------------------|
| 1 Operator Name and Address<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 |                                   | 2 OGRID Number<br>7377       |
|                                                                                        |                                   | 3 API Number<br>30-015-34482 |
| 4 Property Code<br>35318                                                               | 5 Property Name<br>BRAZOS B H FEE | 6 Well No<br>002H            |

7. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| P        | 11      | 16S      | 24E   | P       | 660       | S        | 660       | E        | EDDY   |

8. Pool Information

|                                  |       |
|----------------------------------|-------|
| COTTONWOOD CREEK, WC, WEST (GAS) | 75260 |
|----------------------------------|-------|

Additional Well Information

|                                                                                                                                                                                                                                                                                                                                                              |                            |                                                  |                           |                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|---------------------------|---------------------------------------------|
| 9. Work Type<br>New Well                                                                                                                                                                                                                                                                                                                                     | 10. Well Type<br>GAS       | 11. Cable/Rotary                                 | 12. Lease Type<br>Private | 13. Ground Level Elevation<br>3573          |
| 14. Multiple<br>N                                                                                                                                                                                                                                                                                                                                            | 15. Proposed Depth<br>5200 | 16. Formation<br>Wolfcamp                        | 17. Contractor            | 18. Spud Date                               |
| Depth to Ground water<br>100                                                                                                                                                                                                                                                                                                                                 |                            | Distance from nearest fresh water well<br>> 1000 |                           | Distance to nearest surface water<br>> 1000 |
| Pit. Liner Synthetic <input checked="" type="checkbox"/> 12 _____ mills thick Clay <input type="checkbox"/> Pit Volume: 10300 bbls Drilling Method:<br>Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/> |                            |                                                  |                           |                                             |

19. Proposed Casing and Cement Program

| Type | Hole Size | Casing Type | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 12.25     | 8.625       | 32               | 900           | 375             | 0             |
| Prod | 7.875     | 5.5         | 17               | 8367          | 750             | 0             |

Casing/Cement Program: Additional Comments

|  |
|--|
|  |
|--|

Proposed Blowout Prevention Program

| Type      | Working Pressure | Test Pressure | Manufacturer |
|-----------|------------------|---------------|--------------|
| DoubleRam | 3000             | 3000          |              |

I hereby certify that the information given above is true and complete to the best of my knowledge and belief  
I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐

Printed Name: Donny G. Glanton  
Title: Service Operations Representative  
Email Address: Donny.Glanton@eogresources.com  
Date: 3/19/07 Phone: 432-686-3642

OIL CONSERVATION DIVISION

Approved By: BRYAN G. ARRANT  
Title: DISTRICT II GEOLOGIST

Approved Date: MAR 19 2007 Expiration Date: MAR 19 2008

Conditions Attached

## DISTRICT I

**1625 N. French Dr., Hobbs, NM 88240**

**State of New Mexico**

Form C-102

**Energy, Minerals, and Natural Resources Department**

Revised August 15, 2000

## DISTRICT II

**DISTRICT II**  
1301 W. Grand Avenue, Artesia, NM 88210

**OIL CONSERVATION DIVISION**

**Submit to Appropriate District Office**

**State Lease - 4 copies**

Free Lease - 3 copies

### DISTRICT III

**1000 Rio Brazos Rd., Aztec, NM 87410**

**1220 South St. Francis Dr.**

**Santa Fe, New Mexico 87505**

### DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

**AMENDED REPORT**

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                       |                                      |                                               |
|-----------------------|--------------------------------------|-----------------------------------------------|
| API Number<br>30-015- | Pool Code<br>75260                   | Pool Name<br>Lottonwood Creek; WC, West (Gas) |
| Property Code         | Property Name<br>BRAZOS "B" 11 FEE   | Well Number<br>2H                             |
| OGRID No.<br>7377     | Operator Name<br>EOG RESOURCES, INC. | Elevation<br>3573'                            |

### Surface Location

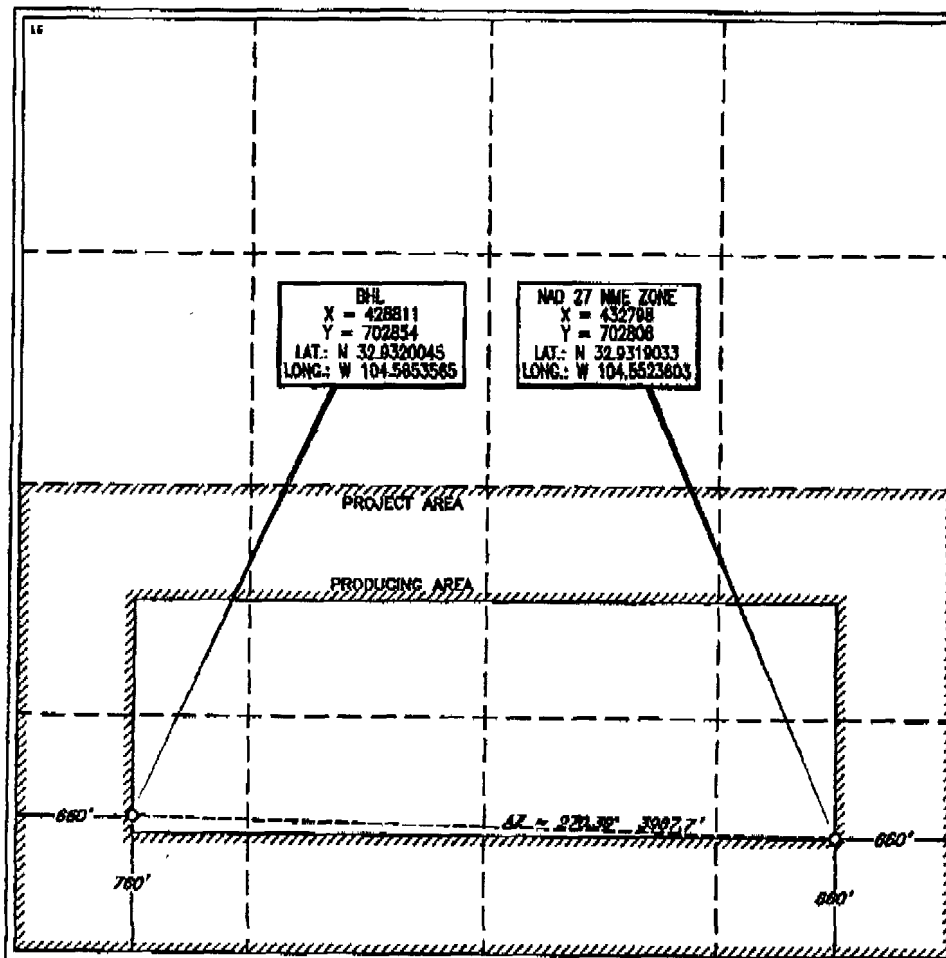
|               |         |          |                   |         |               |                  |               |                |        |
|---------------|---------|----------|-------------------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range             | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| P             | 11      | 16 SOUTH | 24 EAST, N.M.P.M. |         | 660'          | SOUTH            | 660'          | EAST           | EDDY   |

<sup>11</sup> **Bottom Hole Location If Different From Surface**

|                |           |                 |                          |         |               |                  |               |                |             |
|----------------|-----------|-----------------|--------------------------|---------|---------------|------------------|---------------|----------------|-------------|
| U), or lot no. | Section   | Township        | Range                    | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
| <b>M</b>       | <b>11</b> | <b>10 SOUTH</b> | <b>24 EAST, N.M.P.M.</b> |         | <b>760'</b>   | <b>SOUTH</b>     | <b>660'</b>   | <b>WEST</b>    | <b>EDDY</b> |

|                           |                    |                       |              |
|---------------------------|--------------------|-----------------------|--------------|
| 12 Dedicated Acres<br>320 | 13 Joint or Infill | 14 Consolidation Code | 15 Order No. |
|---------------------------|--------------------|-----------------------|--------------|

**NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**



### **<sup>17</sup> OPERATOR CERTIFICATION**

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

Done J. Thibault

**Abstract**

Donny G. Glanton

**United States**

Sr. Lease Operations Rep.

—

3/19/07

\_\_\_\_\_

### " SURVEYOR CERTIFICATION

I hereby certify that the above information shown on this plot was placed on the map of the area of the 1000 acre superlot, and that the same is true and correct to the best of my belief.

7820  
NOVEMBER 9, 2005

Date of Survey: \_\_\_\_\_

Signature and Seal of Professional Engineer

USED LAND SURVEY

District I

1625 N. French Dr., Hobbs, NM 88240

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

Form C-102  
Permit 45293**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                      |                                       |                                                  |
|----------------------|---------------------------------------|--------------------------------------------------|
| 1. API Number        | 2. Pool Code<br>75260                 | 3. Pool Name<br>COTTONWOOD CREEK; WC, WEST (GAS) |
| 4. Property Code     | 5. Property Name<br>BRAZOS B 11 FEE   | 6. Well No<br>002H                               |
| 7. OGRID No.<br>7377 | 8. Operator Name<br>EOG RESOURCES INC | 9. Elevation<br>3573                             |

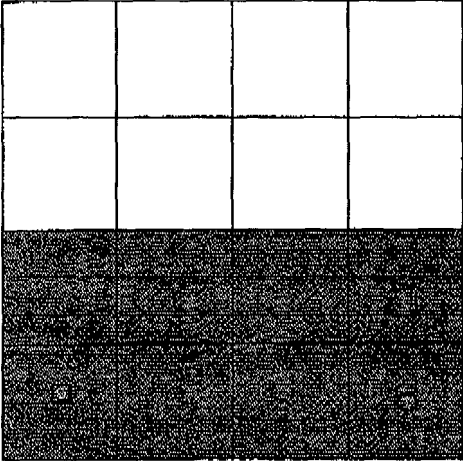
**10. Surface Location**

|               |               |                 |              |         |                  |               |                  |               |                |
|---------------|---------------|-----------------|--------------|---------|------------------|---------------|------------------|---------------|----------------|
| UL - Lot<br>P | Section<br>11 | Township<br>16S | Range<br>24E | Lot Idn | Feet From<br>660 | N/S Line<br>S | Feet From<br>660 | E/W Line<br>E | County<br>EDDY |
|---------------|---------------|-----------------|--------------|---------|------------------|---------------|------------------|---------------|----------------|

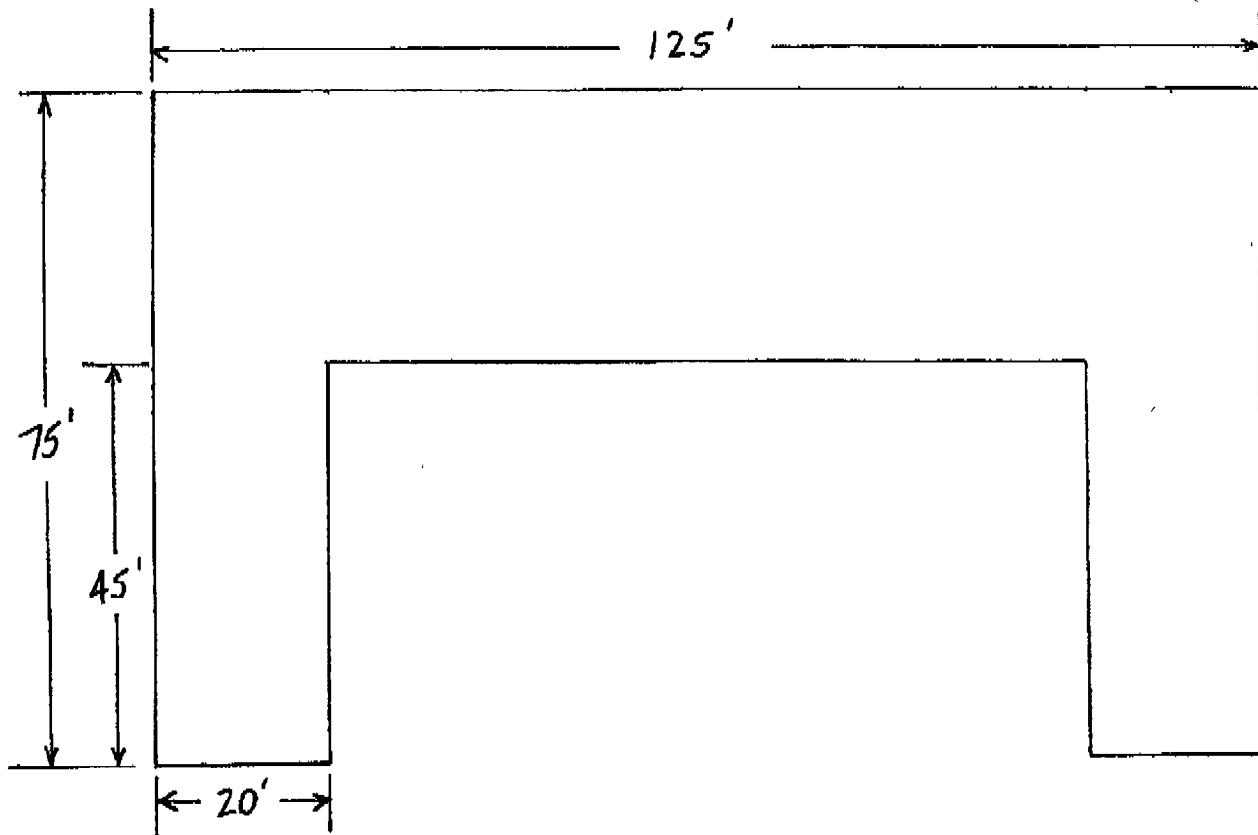
**11. Bottom Hole Location If Different From Surface**

|                               |               |                     |              |                        |                  |               |                  |               |                |
|-------------------------------|---------------|---------------------|--------------|------------------------|------------------|---------------|------------------|---------------|----------------|
| UL - Lot<br>M                 | Section<br>11 | Township<br>16S     | Range<br>24E | Lot Idn                | Feet From<br>760 | N/S Line<br>S | Feet From<br>660 | E/W Line<br>W | County<br>EDDY |
| 12. Dedicated Acres<br>320.00 |               | 13. Joint or Infill |              | 14. Consolidation Code |                  | 15. 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**

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>OPERATOR CERTIFICATION</b><br><i>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(s) 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.</i><br>E-Signed By: <i>Don J. Mabe</i><br>Title: <i>Sr. Lease Operations Representative</i><br>Date: <i>3/20/07</i> |
|                                                                                     | <b>SURVEYOR CERTIFICATION</b><br><i>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.</i><br>Surveyed By: <i>Lynn Bezner</i><br>Date of Survey: <i>11/9/2005</i><br>Certificate Number: <i>7920</i>                                                                                                                                                                                                                                                                                                    |

## NEW MEXICO SINGLE HORSESHOE RESERVE PIT DESIGN



Approximate Volume: 10,000 barrels

Scale: 1" = 20'

**Permit Information:**

Well Name: Brazos B 11 Fee #2H

Revised 3/15/07

**Location:**

SL 660' FSL & 660' FEL, Section 11, T-16-S, R-24-E, Eddy Co., N.M.  
 BHL 760' FSL & 660' FWL, Section 11, T-16-S, R-24-E, Eddy Co., N.M.

**Casing Program:**

| Casing     | Setting Depth | Hole Size | Casing Size | Casing Weight | Casing Grade | Desired TOC |
|------------|---------------|-----------|-------------|---------------|--------------|-------------|
| Surface    | 900'          | 12-1/4"   | 8-5/8"      | 32#           | J-55         | Surface     |
| Production | 8,367'        | 7-7/8"    | 5 1/2"      | 17#           | N-80         | Surface     |

**Cement Program:**

| Depth  | No. Sacks | Slurries:                                                                                         |
|--------|-----------|---------------------------------------------------------------------------------------------------|
| 900'   | 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                                       |
| 8,367' | 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 |

**Mud Program:**

| Depth           | Type              | Weight (ppg) | Viscosity | Water Loss |
|-----------------|-------------------|--------------|-----------|------------|
| 0 - 900'        | Fresh - Gel       | 8.6-8.8      | 28-34     | N/c        |
| 900' - 4,400'   | Cut Brine         | 8.8-9.2      | 28-34     | N/c        |
| 4,400' - 5,100' | Cut Brine         | 8.8-9.2      | 28-34     | 10-15      |
| 4,103' - 8,367' | Polymer (Lateral) | 9.0-9.4      | 40-45     | 10-25      |

## EOG RESOURCES INC.

## Planning Report

|           |                     |                              |                                       |
|-----------|---------------------|------------------------------|---------------------------------------|
| Database: | EDM                 | Local Co-ordinate Reference: | Site Brazos B 11 Fee #2H              |
| Company:  | EOG - Midland (3)   | W/D Reference:               | WELL @ 3591.00ft (Original Well Elev) |
| Project:  | Thames              | MD Reference:                | WELL @ 3591.00ft (Original Well Elev) |
| Site:     | Brazos B 11 Fee #2H | North Reference:             | Grid                                  |
| Well:     | Brazos B 11 Fee #2H | Survey Calculation Method:   | Minimum Curvature                     |
| Wellbore: | Brazos B 11 Fee #2H |                              |                                       |
| Design:   | Original Plan       |                              |                                       |

|             |                                      |               |              |
|-------------|--------------------------------------|---------------|--------------|
| Project:    | Thames                               |               |              |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Ground Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |              |
| Map Zone:   | New Mexico East 3001                 |               |              |

|                       |                     |                   |                  |
|-----------------------|---------------------|-------------------|------------------|
| Site:                 | Brazos B 11 Fee #2H |                   |                  |
| Site Position:        |                     | Northing:         | 702,808.00ft     |
| From:                 | Map                 | Easting:          | 432,798.00ft     |
| Position Uncertainty: | 0.00ft              | Slot Radius:      | "                |
|                       |                     | Latitude:         | 32° 55' 54.850 N |
|                       |                     | Longitude:        | 104° 33' 8.502 W |
|                       |                     | Grid Convergence: | -0.12°           |

|                      |                     |                     |                  |
|----------------------|---------------------|---------------------|------------------|
| Well:                | Brazos B 11 Fee #2H |                     |                  |
| Well Position        | +N/-S               | 0.00ft              | Northing:        |
|                      | +E/-W               | 0.00ft              | Easting:         |
| Position Uncertainty | 0.00ft              | Wellhead Elevation: | ft               |
|                      |                     | Latitude:           | 32° 55' 54.850 N |
|                      |                     | Longitude:          | 104° 33' 8.502 W |
|                      |                     | Ground Level:       | 3,573.00ft       |

Wellbore: Brazos B 11 Fee #2H

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(mT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | IGRF2005   | 2/6/2006    | 8.70               | 60.78            | 49.478                 |

Design: Original Plan

## Audit Notes:

|          |        |           |               |      |
|----------|--------|-----------|---------------|------|
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.00 |
|----------|--------|-----------|---------------|------|

| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°) |
|-------------------|--------------------------|---------------|---------------|------------------|
|                   | 4,517.00                 | 0.00          | 0.00          | 270.66           |

## Plan Sections:

| Measured      | Inclination | Azimuth | Vertical      | +N/-S | +E/-W     | Dogleg            | Build             | Turn              | TFO    | Target              |
|---------------|-------------|---------|---------------|-------|-----------|-------------------|-------------------|-------------------|--------|---------------------|
| Depth<br>(ft) | (°)         | (°)     | Depth<br>(ft) | (ft)  | (ft)      | Rate<br>(°/100ft) | Rate<br>(°/100ft) | Rate<br>(°/100ft) | (°)    |                     |
| 0.00          | 0.00        | 0.00    | 0.00          | 0.00  | 0.00      | 0.00              | 0.00              | 0.00              | 0.00   |                     |
| 4,103.00      | 0.00        | 0.00    | 4,103.00      | 0.00  | 0.00      | 0.00              | 0.00              | 0.00              | 0.00   |                     |
| 4,860.12      | 90.00       | 270.66  | 4,585.00      | 5.55  | -481.97   | 11.89             | 11.89             | 0.00              | 270.66 |                     |
| 6,378.12      | 90.00       | 270.66  | 4,585.00      | 23.04 | -1,999.87 | 0.00              | 0.00              | 0.00              | 0.00   |                     |
| 6,444.56      | 91.99       | 270.66  | 4,583.84      | 23.80 | -2,066.29 | 3.00              | 3.00              | 0.00              | 0.06   |                     |
| 8,366.32      | 91.99       | 270.66  | 4,517.01      | 46.00 | -3,986.76 | 0.00              | 0.00              | 0.00              | 0.00   |                     |
| 8,366.57      | 92.00       | 270.66  | 4,517.00      | 46.00 | -3,987.00 | 3.00              | 2.87              | -0.86             | 0.00   | Brazos B 11 Fee #2H |

# EOG RESOURCES INC.

## Planning Report

|          |                     |
|----------|---------------------|
| Database | EDM                 |
| Company  | EOG - Midland (3)   |
| Project  | Thames              |
| Site     | Braros B 11 Fee #2H |
| Well     | Braros B 11 Fee #2H |
| Wellbore | Braros B 11 Fee #2H |
| Design   | Original Plan       |

| Measured | Depth | Inclination | Azimuth | Vertical | Depth | +N/S | +E/W | Vertical | Depth | Rate     | Rate     | Rate     | Rate     |
|----------|-------|-------------|---------|----------|-------|------|------|----------|-------|----------|----------|----------|----------|
| (ft)     | (ft)  | (°)         | (°)     | (ft)     | (ft)  | (ft) | (ft) | (ft)     | (ft)  | (/100ft) | (/100ft) | (/100ft) | (/100ft) |

|          |       |        |          |          |          |        |       |       |       |       |       |      |      |
|----------|-------|--------|----------|----------|----------|--------|-------|-------|-------|-------|-------|------|------|
| 0.00     | 0.00  | 0.00   | 0.00     | 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   | 0.00     | 0.00     | 100.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 200.00   | 0.00  | 0.00   | 0.00     | 0.00     | 200.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 300.00   | 0.00  | 0.00   | 0.00     | 0.00     | 300.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 400.00   | 0.00  | 0.00   | 0.00     | 0.00     | 400.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 500.00   | 0.00  | 0.00   | 0.00     | 0.00     | 500.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 600.00   | 0.00  | 0.00   | 0.00     | 0.00     | 600.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 700.00   | 0.00  | 0.00   | 0.00     | 0.00     | 700.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 800.00   | 0.00  | 0.00   | 0.00     | 0.00     | 800.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 900.00   | 0.00  | 0.00   | 0.00     | 0.00     | 900.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,000.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,000.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,100.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,100.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,200.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,200.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,300.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,300.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,400.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,400.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,500.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,500.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,600.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,600.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,700.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,700.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,800.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,800.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 1,900.00 | 0.00  | 0.00   | 0.00     | 0.00     | 1,900.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,000.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,000.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,100.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,100.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,200.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,200.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,300.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,300.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,400.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,400.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,500.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,500.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,600.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,600.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,700.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,700.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,800.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,800.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 2,900.00 | 0.00  | 0.00   | 0.00     | 0.00     | 2,900.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,000.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,000.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,100.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,100.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,200.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,200.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,300.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,300.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,400.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,400.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,500.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,500.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,600.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,600.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,700.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,700.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,800.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,800.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 3,900.00 | 0.00  | 0.00   | 0.00     | 0.00     | 3,900.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 4,000.00 | 0.00  | 0.00   | 0.00     | 0.00     | 4,000.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 4,100.00 | 0.00  | 0.00   | 0.00     | 0.00     | 4,100.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 4,200.00 | 0.00  | 0.00   | 0.00     | 0.00     | 4,200.00 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 |
| 4,285.04 | 21.64 | 11.53  | 270.66   | 4,280.74 | 0.39     | 0.11   | -9.73 | 33.97 | 11.89 | 11.89 | 11.89 | 0.00 | 0.00 |
| X1       |       |        |          |          |          |        |       |       |       |       |       |      |      |
| 4,300.00 | 23.42 | 270.66 | 4,294.56 | 0.46     | -39.70   | 39.70  | 11.89 | 11.89 | 11.89 | 11.89 | 11.89 | 0.00 | 0.00 |
| 4,400.00 | 35.30 | 270.66 | 4,381.56 | 1.02     | -88.64   | 88.64  | 11.89 | 11.89 | 11.89 | 11.89 | 11.89 | 0.00 | 0.00 |
| 4,500.00 | 47.19 | 270.66 | 4,456.61 | 1.78     | -154.45  | 154.45 | 11.89 | 11.89 | 11.89 | 11.89 | 11.89 | 0.00 | 0.00 |
| 4,600.00 | 59.08 | 270.66 | 4,516.50 | 2.70     | -234.30  | 234.32 | 11.89 | 11.89 | 11.89 | 11.89 | 11.89 | 0.00 | 0.00 |
| 4,700.00 | 70.97 | 270.66 | 4,558.65 | 3.74     | -324.78  | 324.81 | 11.89 | 11.89 | 11.89 | 11.89 | 11.89 | 0.00 | 0.00 |
| 4,800.00 | 82.85 | 270.66 | 4,581.25 | 4.86     | -422.00  | 422.03 | 11.89 | 11.89 | 11.89 | 11.89 | 11.89 | 0.00 | 0.00 |
| 4,860.12 | 90.00 | 270.66 | 4,585.00 | 5.55     | -481.97  | 482.00 | 11.89 | 11.89 | 11.89 | 11.89 | 11.89 | 0.00 | 0.00 |

## EOG RESOURCES INC.

## Planning Report

Database: EDM  
 Company: EOG - Midland (3)  
 Project: Thames  
 Site: Brazos B 11 Fee #2H  
 Well: Brazos B 11 Fee #2H  
 Wellbore: Brazos B 11 Fee #2H  
 Design: Original Plan

Local Co-ordinate Reference  
 TVD Reference  
 MD Reference  
 North Reference  
 Survey Calculation Method

Site Brazos B 11 Fee #2H  
 WELL @ 3591.00ft (Original Well Elev)  
 WELL @ 3591.00ft (Original Well Elev)  
 Grid  
 Minimum Curvature

## Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | N/S (ft) | E/W (ft)  | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|----------|-----------|-----------------------|-----------------------|----------------------|---------------------|
| 4,900.00            | 90.00           | 270.66      | 4,585.00            | 6.01     | -521.84   | 521.88                | 0.00                  | 0.00                 | 0.00                |
| 5,000.00            | 90.00           | 270.66      | 4,585.00            | 7.16     | -621.83   | 621.88                | 0.00                  | 0.00                 | 0.00                |
| 5,100.00            | 90.00           | 270.66      | 4,585.00            | 8.32     | -721.83   | 721.88                | 0.00                  | 0.00                 | 0.00                |
| 5,200.00            | 90.00           | 270.66      | 4,585.00            | 9.47     | -821.82   | 821.88                | 0.00                  | 0.00                 | 0.00                |
| 5,300.00            | 90.00           | 270.66      | 4,585.00            | 10.62    | -921.82   | 921.88                | 0.00                  | 0.00                 | 0.00                |
| 5,400.00            | 90.00           | 270.66      | 4,585.00            | 11.77    | -1,021.81 | 1,021.88              | 0.00                  | 0.00                 | 0.00                |
| 5,500.00            | 90.00           | 270.66      | 4,585.00            | 12.92    | -1,121.80 | 1,121.88              | 0.00                  | 0.00                 | 0.00                |
| 5,600.00            | 90.00           | 270.66      | 4,585.00            | 14.07    | -1,221.80 | 1,221.88              | 0.00                  | 0.00                 | 0.00                |
| 5,700.00            | 90.00           | 270.66      | 4,585.00            | 15.23    | -1,321.79 | 1,321.88              | 0.00                  | 0.00                 | 0.00                |
| 5,800.00            | 90.00           | 270.66      | 4,585.00            | 16.38    | -1,421.78 | 1,421.88              | 0.00                  | 0.00                 | 0.00                |
| 5,900.00            | 90.00           | 270.66      | 4,585.00            | 17.53    | -1,521.78 | 1,521.88              | 0.00                  | 0.00                 | 0.00                |
| 6,000.00            | 90.00           | 270.66      | 4,585.00            | 18.68    | -1,621.77 | 1,621.88              | 0.00                  | 0.00                 | 0.00                |
| 6,100.00            | 90.00           | 270.66      | 4,585.00            | 19.83    | -1,721.76 | 1,721.88              | 0.00                  | 0.00                 | 0.00                |
| 6,200.00            | 90.00           | 270.66      | 4,585.00            | 20.99    | -1,821.76 | 1,821.88              | 0.00                  | 0.00                 | 0.00                |
| 6,300.00            | 90.00           | 270.66      | 4,585.00            | 22.14    | -1,921.75 | 1,921.88              | 0.00                  | 0.00                 | 0.00                |
| 6,378.12            | 90.00           | 270.66      | 4,585.00            | 23.04    | -1,999.87 | 2,000.00              | 0.00                  | 0.00                 | 0.00                |
| 6,400.00            | 90.66           | 270.66      | 4,584.87            | 23.29    | -2,021.74 | 2,021.88              | 3.00                  | 3.00                 | 0.00                |
| 6,444.56            | 91.99           | 270.66      | 4,583.84            | 23.80    | -2,066.29 | 2,066.42              | 3.00                  | 3.00                 | 0.00                |
| 6,500.00            | 91.99           | 270.66      | 4,581.92            | 24.44    | -2,121.69 | 2,121.83              | 0.00                  | 0.00                 | 0.00                |
| 6,600.00            | 91.99           | 270.66      | 4,578.44            | 25.60    | -2,221.62 | 2,221.77              | 0.00                  | 0.00                 | 0.00                |
| 6,700.00            | 91.99           | 270.66      | 4,574.96            | 26.75    | -2,321.55 | 2,321.71              | 0.00                  | 0.00                 | 0.00                |
| 6,800.00            | 91.99           | 270.66      | 4,571.48            | 27.91    | -2,421.49 | 2,421.65              | 0.00                  | 0.00                 | 0.00                |
| 6,900.00            | 91.99           | 270.66      | 4,568.01            | 29.06    | -2,521.42 | 2,521.59              | 0.00                  | 0.00                 | 0.00                |
| 7,000.00            | 91.99           | 270.66      | 4,564.53            | 30.22    | -2,621.35 | 2,621.53              | 0.00                  | 0.00                 | 0.00                |
| 7,100.00            | 91.99           | 270.66      | 4,561.05            | 31.37    | -2,721.29 | 2,721.47              | 0.00                  | 0.00                 | 0.00                |
| 7,200.00            | 91.99           | 270.66      | 4,557.57            | 32.53    | -2,821.22 | 2,821.41              | 0.00                  | 0.00                 | 0.00                |
| 7,300.00            | 91.99           | 270.66      | 4,554.09            | 33.68    | -2,921.15 | 2,921.35              | 0.00                  | 0.00                 | 0.00                |
| 7,400.00            | 91.99           | 270.66      | 4,550.62            | 34.84    | -3,021.08 | 3,021.28              | 0.00                  | 0.00                 | 0.00                |
| 7,500.00            | 91.99           | 270.66      | 4,547.14            | 35.99    | -3,121.02 | 3,121.22              | 0.00                  | 0.00                 | 0.00                |
| 7,600.00            | 91.99           | 270.66      | 4,543.66            | 37.15    | -3,220.95 | 3,221.16              | 0.00                  | 0.00                 | 0.00                |
| 7,700.00            | 91.99           | 270.66      | 4,540.18            | 38.30    | -3,320.88 | 3,321.10              | 0.00                  | 0.00                 | 0.00                |
| 7,800.00            | 91.99           | 270.66      | 4,536.70            | 39.46    | -3,420.82 | 3,421.04              | 0.00                  | 0.00                 | 0.00                |
| 7,900.00            | 91.99           | 270.66      | 4,533.23            | 40.61    | -3,520.75 | 3,520.98              | 0.00                  | 0.00                 | 0.00                |
| 8,000.00            | 91.99           | 270.66      | 4,529.75            | 41.77    | -3,620.68 | 3,620.92              | 0.00                  | 0.00                 | 0.00                |
| 8,100.00            | 91.99           | 270.66      | 4,526.27            | 42.92    | -3,720.61 | 3,720.86              | 0.00                  | 0.00                 | 0.00                |
| 8,200.00            | 91.99           | 270.66      | 4,522.79            | 44.08    | -3,820.55 | 3,820.80              | 0.00                  | 0.00                 | 0.00                |
| 8,300.00            | 91.99           | 270.66      | 4,519.32            | 45.23    | -3,920.48 | 3,920.74              | 0.00                  | 0.00                 | 0.00                |
| 8,366.32            | 91.99           | 270.66      | 4,517.01            | 46.00    | -3,986.76 | 3,987.02              | 0.00                  | 0.00                 | 0.00                |
| 8,366.57            | 92.00           | 270.66      | 4,517.00            | 46.00    | -3,987.00 | 3,987.27              | 3.00                  | 2.87                 | -0.86               |

Brazos B 11 Fee #2H - X2



## EOG RESOURCES INC.

## Planning Report

|           |                     |                             |                                       |
|-----------|---------------------|-----------------------------|---------------------------------------|
| Database: | EDM                 | Local Coordinate Reference: | Site Brazos B 11 Fee #2H              |
| Company:  | EOG - Midland (3)   | TVD Reference:              | WELL @ 3591.00ft (Original Well Elev) |
| Project:  | Thames              | MD Reference:               | WELL @ 3591.00ft (Original Well Elev) |
| Site:     | Brazos B 11 Fee #2H | North Reference:            | Grid                                  |
| Well:     | Brazos B 11 Fee #2H | Survey Calculation Method:  | Minimum Curvature                     |
| Wellbore: | Brazos B 11 Fee #2H |                             |                                       |
| Design:   | Original Plan       |                             |                                       |

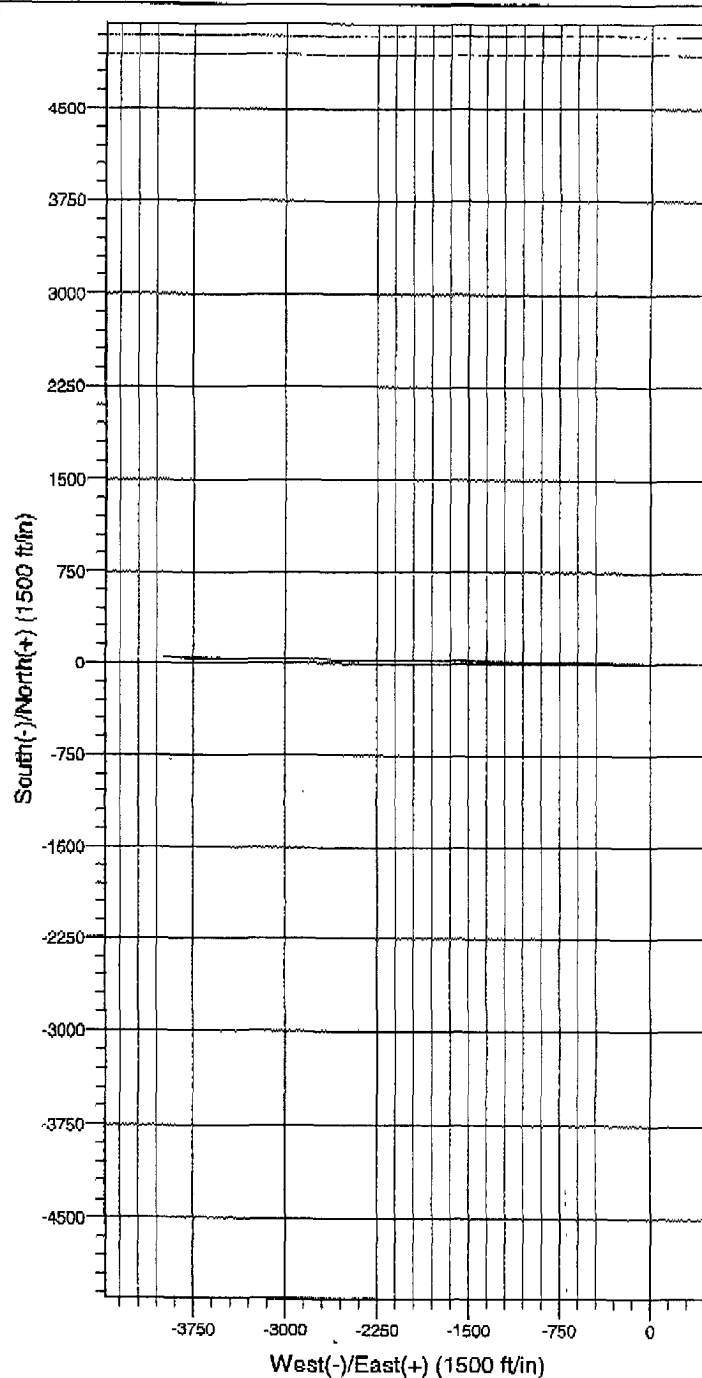
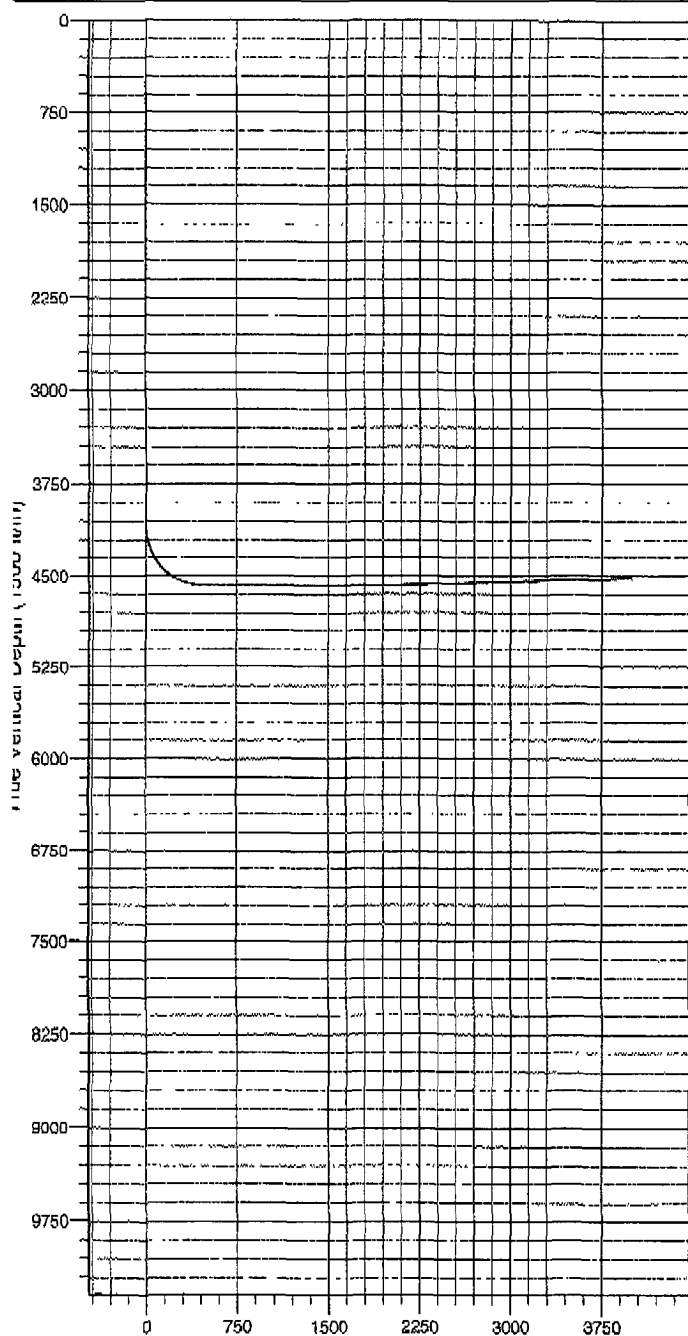
| Targets                                                                       |                 |           |         |          |         |           |            |            |                                    |
|-------------------------------------------------------------------------------|-----------------|-----------|---------|----------|---------|-----------|------------|------------|------------------------------------|
| Target Name                                                                   | hit/miss target | Dip Angle | Dip Dir | TVD      | N-S     | E-W       | Northing   | Easting    |                                    |
| - Shape                                                                       |                 | (°)       | (°)     | (ft)     | (ft)    | (ft)      | (ft)       | (ft)       | Latitude Longitude                 |
| Brazos B 11 Fee #2H                                                           |                 | 0.00      | 0.00    | 4,517.00 | 46.00   | -3,987.00 | 702,854.00 | 428,811.00 | 32° 55' 55.221 N 104° 33' 55.283 W |
| - plan hits target                                                            |                 |           |         |          |         |           |            |            |                                    |
| - Point                                                                       |                 |           |         |          |         |           |            |            |                                    |
| X2                                                                            |                 | 0.00      | 0.00    | 4,500.00 | -724.00 | -4,651.00 | 702,084.00 | 428,147.00 | 32° 55' 47.587 N 104° 34' 3.054 W  |
| - plan misses by 1016.90ft at 8366.57ft MD (4517.00 TVD, 46.00 N, -3987.00 E) |                 |           |         |          |         |           |            |            |                                    |
| - Point                                                                       |                 |           |         |          |         |           |            |            |                                    |
| X1                                                                            |                 | 0.00      | 0.00    | 4,500.00 | -493.00 | 657.00    | 702,315.00 | 433,455.00 | 32° 55' 49.985 N 104° 33' 0.781 W  |
| - plan misses by 876.89ft at 4285.04ft MD (4280.74 TVD, 0.39 N, -33.97 E)     |                 |           |         |          |         |           |            |            |                                    |
| - Point                                                                       |                 |           |         |          |         |           |            |            |                                    |

## WELL DETAILS: Brazos B 11 Fee #2H

| +N/-S | +E/-W | Northing  | Ground Level: 3573.00 | Easting   | Latitude         | Longitude        | Slot |
|-------|-------|-----------|-----------------------|-----------|------------------|------------------|------|
| 0.00  | 0.00  | 702808.00 |                       | 432798.00 | 32° 55' 54.850 N | 104° 33' 8.502 W |      |

## SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S | +E/-W    | DLeg  | TFac   | Target  | Sec |
|-----|---------|-------|--------|---------|-------|----------|-------|--------|---------|-----|
| 1   | 0.00    | 0.00  | 0.00   | 0.00    | 0.00  | 0.00     | 0.00  | 0.00   | 0.00    |     |
| 2   | 4103.00 | 0.00  | 0.00   | 4103.00 | 0.00  | 0.00     | 0.00  | 0.00   | 0.00    |     |
| 3   | 4860.12 | 90.00 | 270.66 | 4585.00 | 5.55  | -481.97  | 11.89 | 270.66 | 482.00  |     |
| 4   | 6378.12 | 90.00 | 270.66 | 4585.00 | 23.04 | -1999.87 | 0.00  | 0.00   | 2000.00 |     |
| 5   | 6444.56 | 91.99 | 270.66 | 4583.84 | 23.80 | -2066.29 | 3.00  | 0.06   | 2066.42 |     |
| 6   | 8366.32 | 91.99 | 270.66 | 4517.01 | 46.00 | -3986.76 | 0.00  | 0.00   | 3987.02 |     |
| 7   | 8366.57 | 92.00 | 270.66 | 4517.00 | 46.00 | -3987.00 | 0.00  | 0.00   | 3987.27 |     |



# Permit Conditions of Approval

Operator: EOG RESOURCES INC , 7377

Well: BRAZOS A 11 FEE #001H

API: 30-015-34481

| OCD Reviewer | Condition                                                                                                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BArrant      | Will require a directional survey with the C-104                                                                                                                                        |
| BArrant      | Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19 15 2 50, and the Pit and Below-Grade Tank Guidelines                                   |
| BArrant      | As noted, operator to drill surface hole with 'fresh water' mud.                                                                                                                        |
| BArrant      | Providing operator drills another well in the same proration unit & intends to drill & produce from the same formation, an approval for an administrative SD from Santa Fe is required. |
| BArrant      | Please notify OCD time of spud & time to witness the cementing to surface the 'water protection' string of casing.                                                                      |
|              |                                                                                                                                                                                         |