

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Sante Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

HOBBS OCD

JUL 28 2014

RECEIVED

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|   |   |  |
|---|---|--|
| <sup>1</sup> API Number<br>30-025-41991 | <sup>2</sup> Pool Code<br>97900                   | <sup>3</sup> Pool Name<br>Red Hills; Upper Bone Spring Shale           |
| <sup>4</sup> Property Code<br>313517    | <sup>5</sup> Property Name<br>DIAMOND 5 FED COM   |  |
| <sup>7</sup> OGRID No.<br>7377          | <sup>8</sup> Operator Name<br>EOG RESOURCES, INC. | <sup>6</sup> Well Number<br>#7H<br><br><sup>9</sup> Elevation<br>3377' |

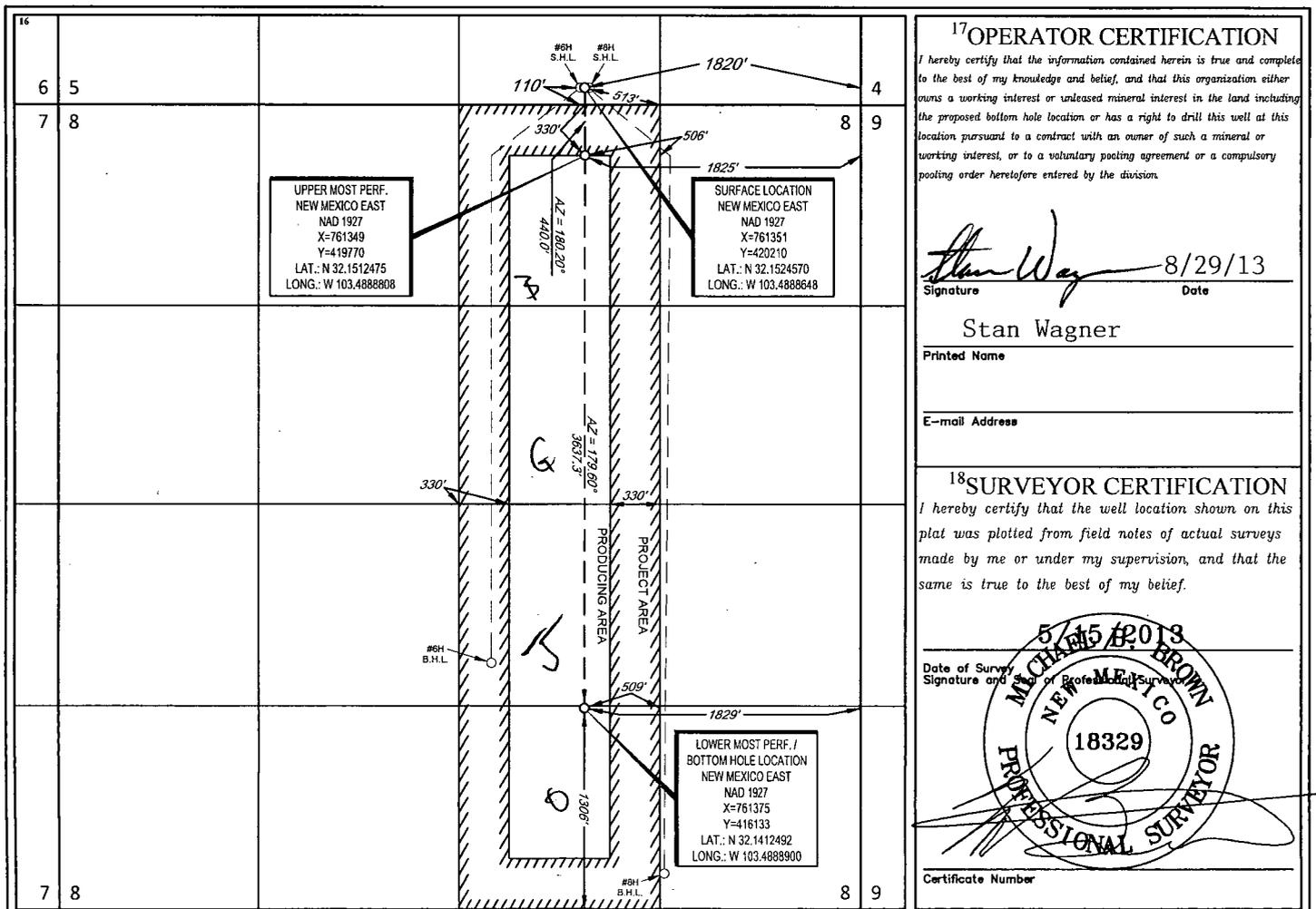
<sup>10</sup>Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 0             | 5       | 25-S     | 34-E  | -       | 110'          | SOUTH            | 1820'         | EAST           | LEA    |

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 0             | 8       | 25-S     | 34-E  | -       | 1306'         | SOUTH            | 1829'         | EAST           | LEA    |

|                                      |                               |                                  |                         |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>160 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> 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.



<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, 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.

*Stan Wagner* 8/29/13  
Signature Date

Stan Wagner  
Printed Name

E-mail Address

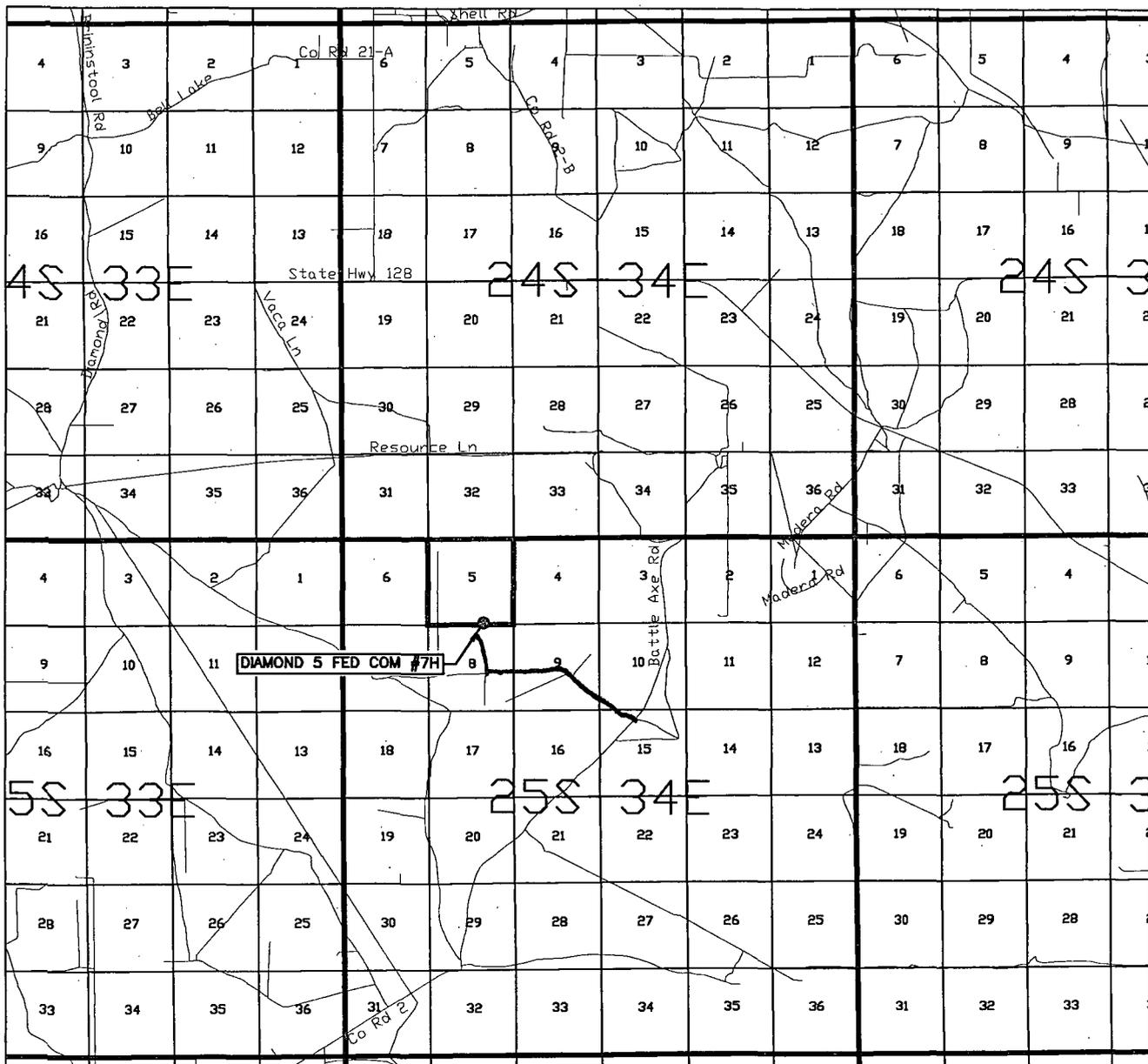
<sup>18</sup>SURVEYOR CERTIFICATION

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 to the best of my belief.

5/15/2013  
Date of Survey  
Signature and Seal of Professional Surveyor  
**MECHANICAL BROWN**  
NEW MEXICO  
18329  
PROFESSIONAL SURVEYOR  
Certificate Number

JUL 29 2014

**EXHIBIT 2  
VICINITY MAP**



LEASE NAME & WELL NO.: DIAMOND 5 FED COM #7H

SECTION 5 TWP 25-S RGE 34-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 110' FSL & 1820' FEL

DISTANCE & DIRECTION FROM INT. OF NM-18 N & NM-128,  
GO WEST ON NM-128 W ±14.1 MILES, THENCE SOUTHWEST  
(LEFT) ON CR. 2/BATTLE AXE RD. ±5.7 MILES, THENCE  
NORTHWEST (RIGHT) ON LEASE RD. ±2.0 MILES, THENCE NORTH  
(RIGHT) ON LEASE RD. ±0.3 MILES TO A POINT ±969 FEET  
SOUTH OF THE LOCATION.

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ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET.



SCALE: 1" = 10000'  
 0' 10000' 20000'

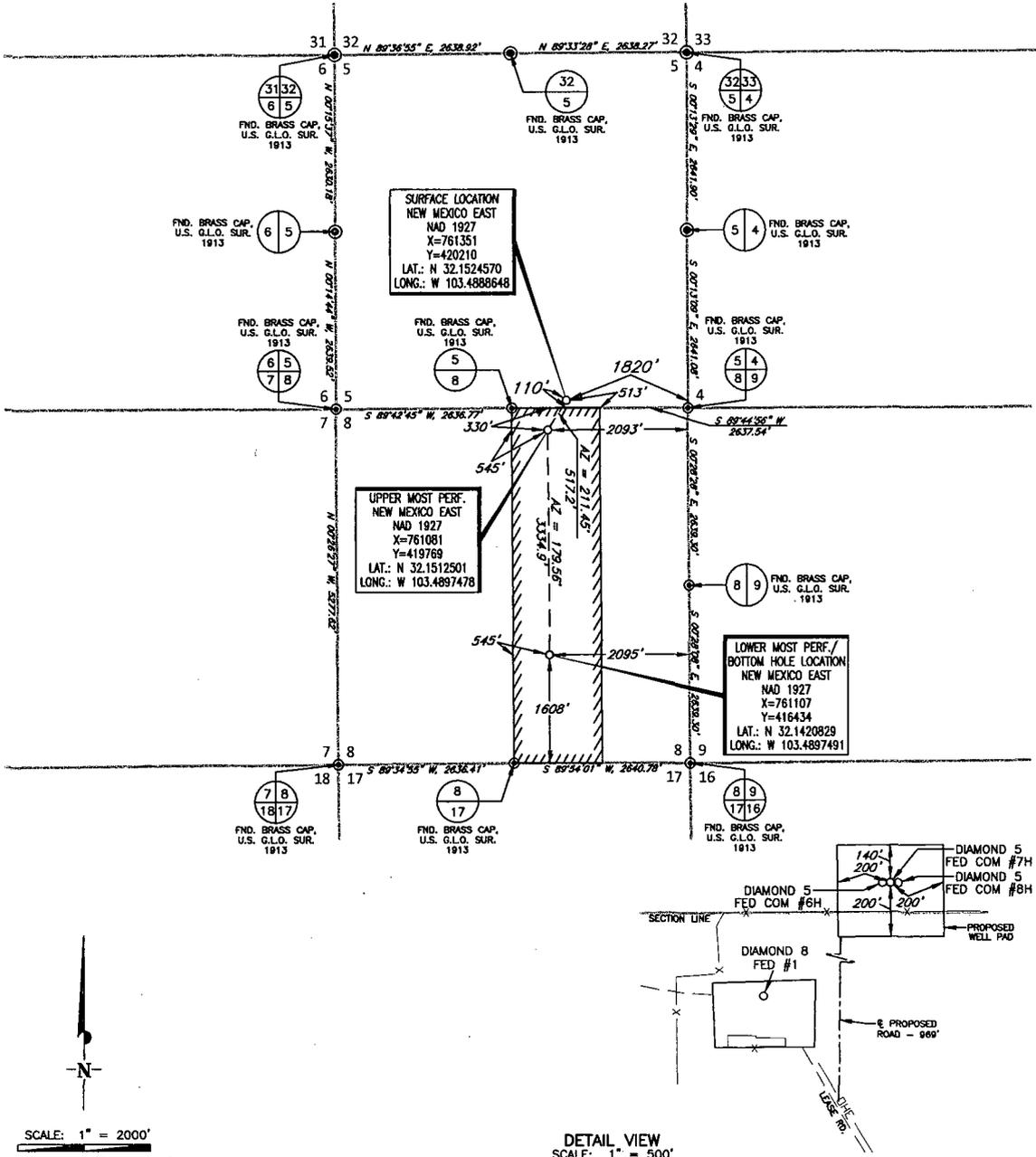
**TOPOGRAPHIC**

SURVEYING • MAPPING • GIS • GPS  
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
 TELEPHONE: (432) 682-1653 • FAX (432) 682-1743  
 1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548  
 2225 PERRYTON PARKWAY • PAMPA, TEXAS 79065  
 TELEPHONE: (806) 665-7218 • FAX (806) 665-7210  
 WWW.TOPOGRAPHIC.COM

# EXHIBIT 2A

## eog resources, inc.

SECTION 5, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO



SCALE: 1" = 2000'  
0' 1000' 2000'

DETAIL VIEW  
SCALE: 1" = 500'

LEASE NAME & WELL NO.: DIAMOND 5 FED COM #7H

SECTION 5 TWP 25-S RGE 34-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

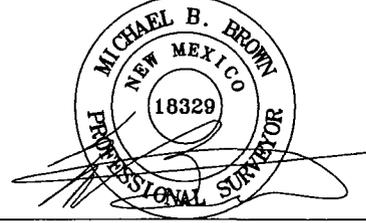
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ORIGINAL DOCUMENT SIZE: 8.5" X 14"



Michael Blake Brown, P.S. No. 18329  
MAY 29, 2013

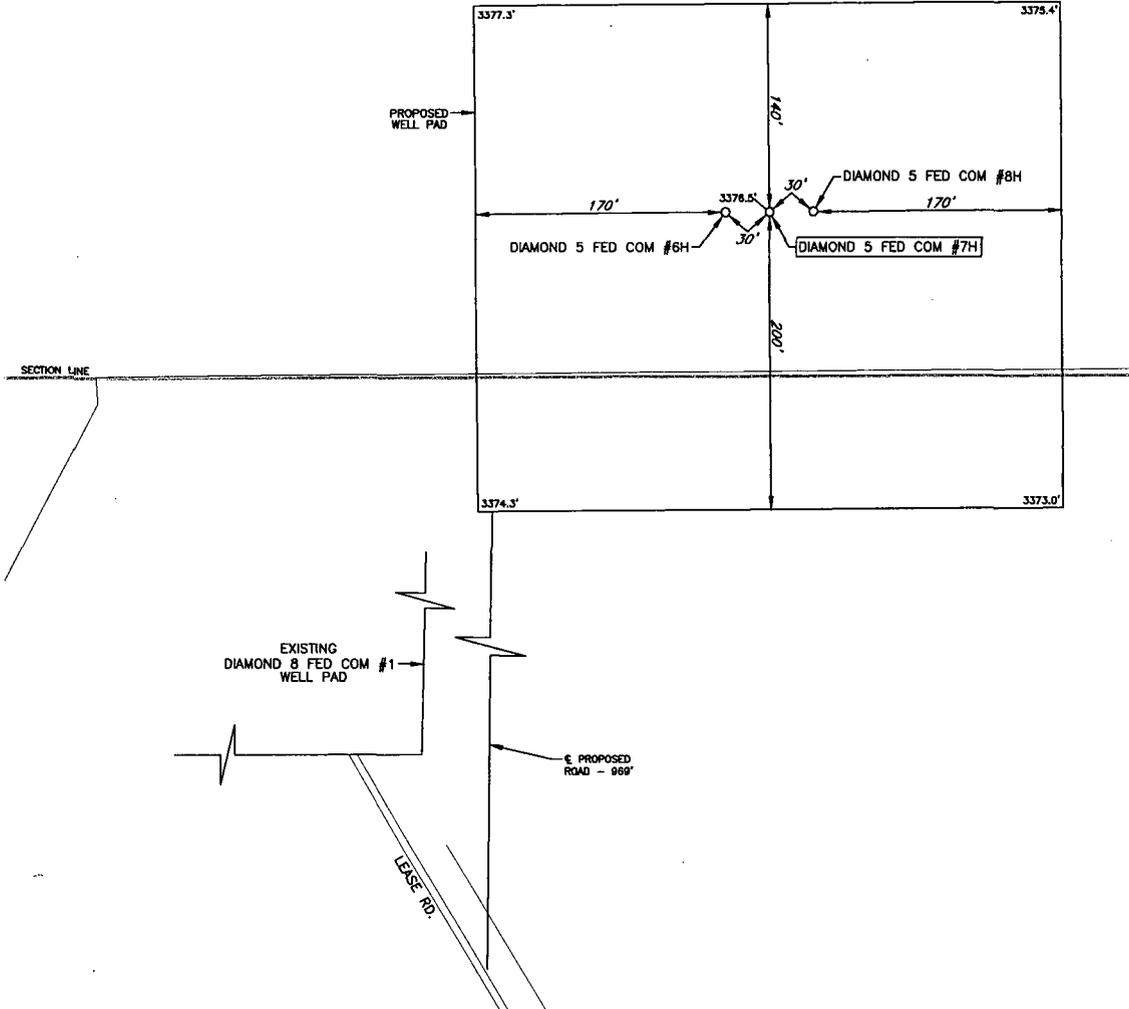
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# **eog resources, inc.**

EXHIBIT 2B

SECTION 5, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'



LEASE NAME & WELL NO.: DIAMOND 5 FED COM #7H  
 #7H LATITUDE N 32.1524570 #7H LONGITUDE W 103.4888648

**LEGEND**

- ROAD WAY
- SECTION LINE
- PROPOSED ROAD
- FENCE LINE



SCALE: 1" = 100'  
 0'      50'      100'

## TOPOGRAPHIC

SURVEYING • MAPPING • GIS • GPS  
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
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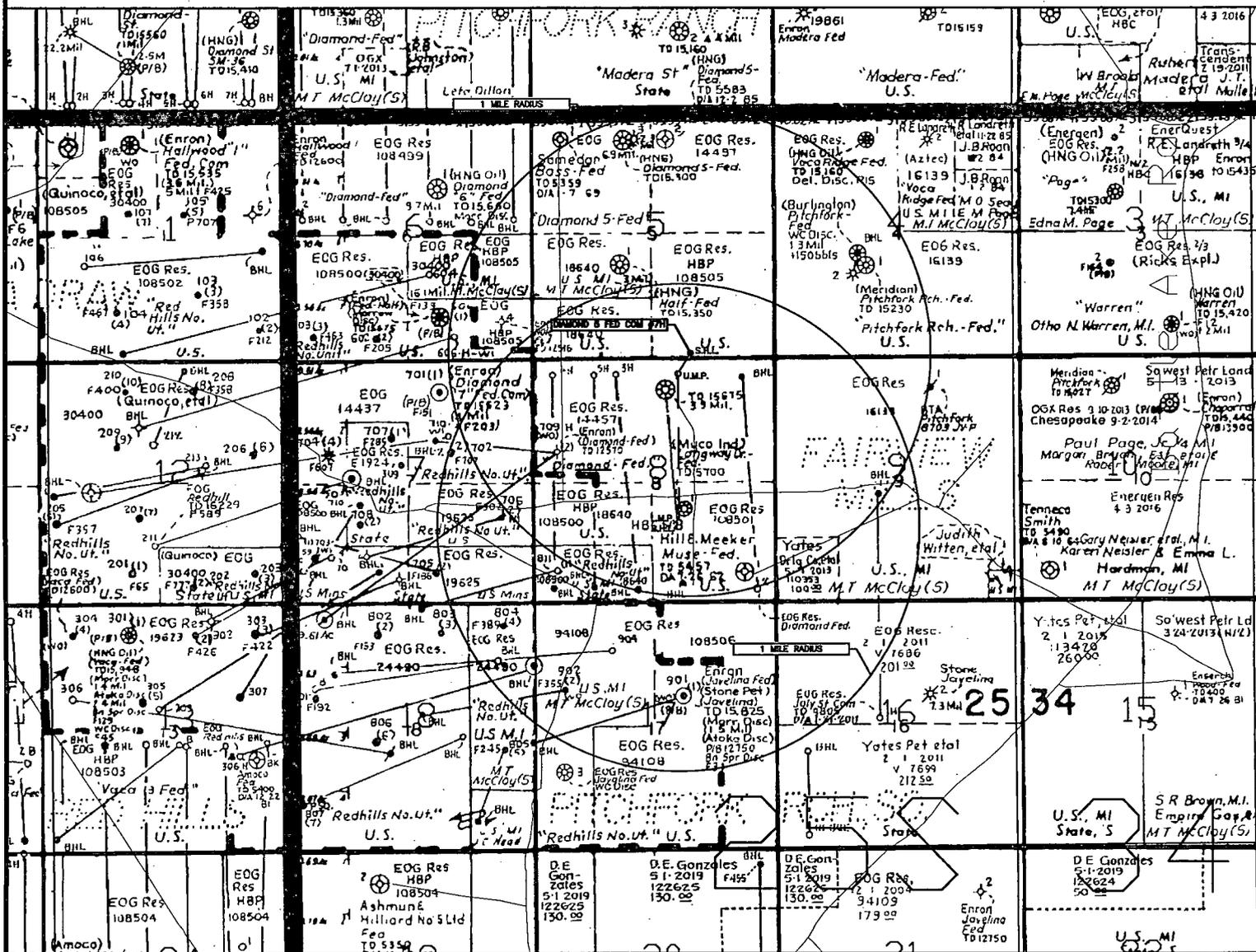
ORIGINAL DOCUMENT SIZE: 8.5" X 14"



EXHIBIT 3

EOG resources, inc.

SECTION 5, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M. LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: DIAMOND 5 FED COM #7H  
#1 LATITUDE N 32.1524570 #1 LONGITUDE W 103.4888648

LEGEND

- == ROAD WAY
- SECTION LINE
- EXISTING PIPELINE
- FENCE LINE

SCALE: NTS

TOPOGRAPHIC

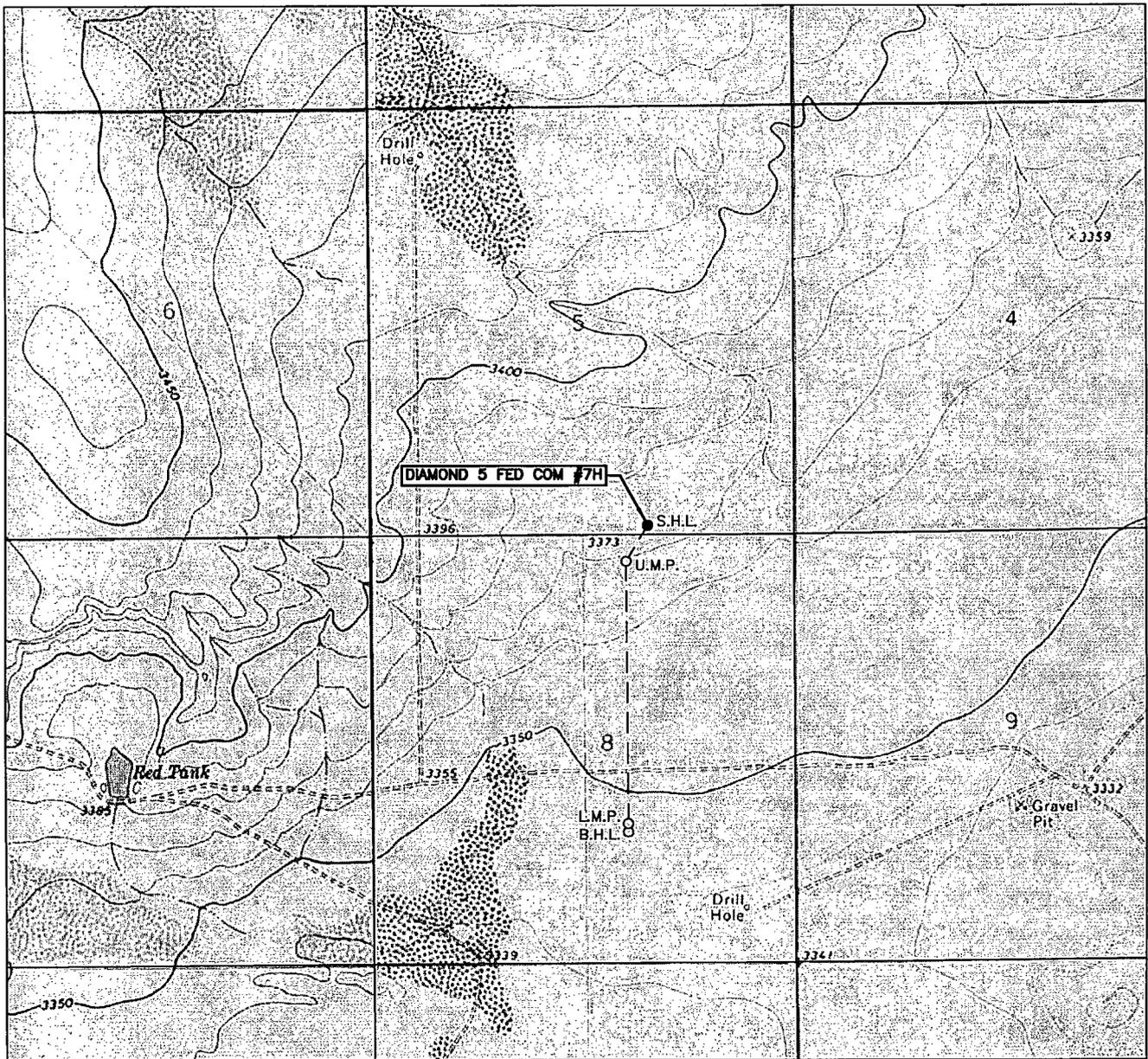
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# LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: DIAMOND 5 FED COM #7H

SECTION 5 TWP 25-S RGE 34-E SURVEY N.M.P.M.  
 COUNTY LEA STATE NM ELEVATION 3377'  
 DESCRIPTION 110' FSL & 1820' FEL

LATITUDE N 32.1524570 LONGITUDE W 103.4888648



SCALE: 1" = 2000'  
 0' 1000' 2000'

## TOPOGRAPHIC

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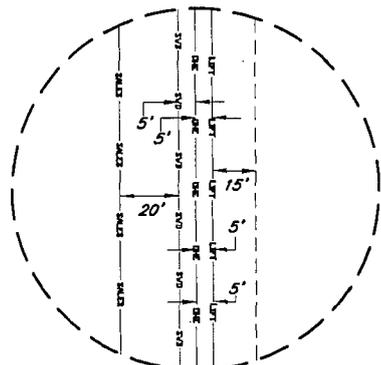
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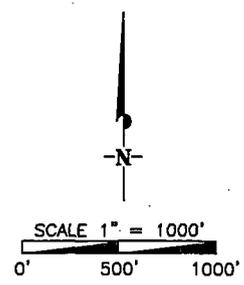
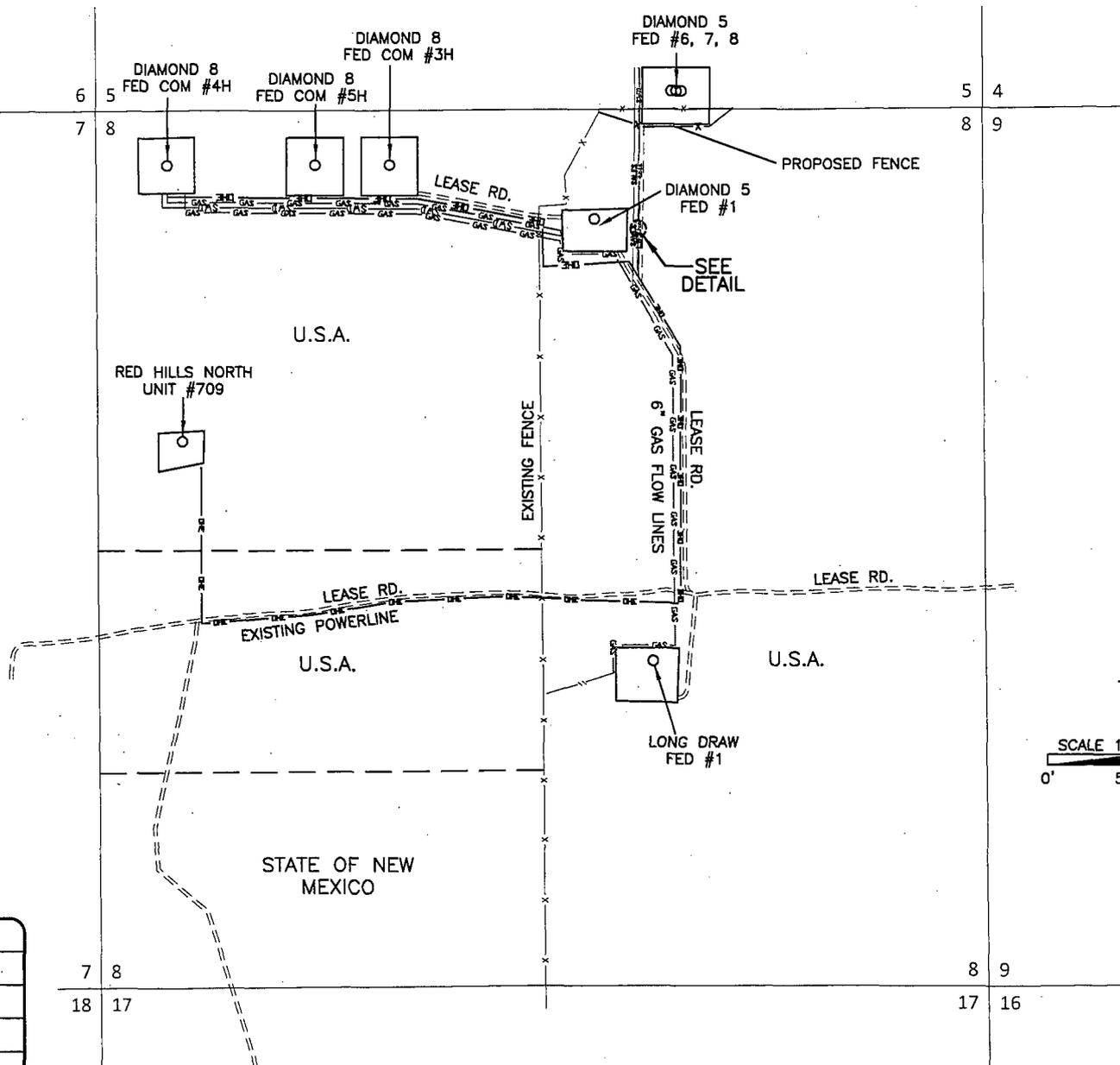
**EXHIBIT 5**  
eog resources, inc.

# DIAMOND 5 LEASE INFRASTRUCTURE MAP



DETAIL VIEW  
NOT TO SCALE

- PROPOSED ROAD  
-TOTAL FOOTAGE 989 FT
- SALES ----- 1-8" GAS SALES LINE LP BURIED  
-TOTAL FOOTAGE 1308 FT  
-(WORKING PRESSURE 75-125 PSI)
- LIFT ----- 1-4" POLY GAS LIFT LINE  
-TOTAL FOOTAGE 1252 FT  
-(WORKING PRESSURE 75-125 PSI)
- DE ----- ELECTRIC LINE  
-TOTAL FOOTAGE 1252 FT
- SWD ----- 1-4" POLY SWD LINE  
-TOTAL FOOTAGE 1252 FT  
-(WORKING PRESSURE 75-125 PSI)
- X ----- PROPOSED FENCE  
-TOTAL FOOTAGE 847 FT  
(795 FT EXISTING FENCE TO BE REMOVED)



|   |           |  |
|---|-----------|--|
| <b>DIAMOND 5 LEASE<br/>INFRASTRUCTURE<br/>MAP</b> | REVISION: |  |
|   |           |  |
| DATE: MAY 29, 2013                                |           |  |
| FILE: SK_DIAMOND5_LEASE_INFRASTRUCTURE_MAP        |           |  |
| DRAWN BY: E.O.                                    |           |  |
| SHEET : 1 OF 1                                    |           |  |

**EOG RESOURCES, INC.**  
**DIAMOND 5 FED COM #7H**

**1. GEOLOGIC NAME OF SURFACE FORMATION:**

Permian

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

|                  |        |
|------------------|--------|
| Rustler          | 1,090' |
| Top of Salt      | 1,490' |
| Base of Salt     | 5,067' |
| Anhydrite        | 5,067' |
| Lamar            | 5,295' |
| Bell Canyon      | 5,321' |
| Cherry Canyon    | 6,270' |
| Brushy Canyon    | 7,830' |
| Bone Spring Lime | 9,273' |
| TD               | 9,512' |

**3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:**

|                     |         |             |
|---------------------|---------|-------------|
| Upper Permian Sands | 0- 400' | Fresh Water |
| Cherry Canyon       | 6,270'  | Oil         |
| Brushy Canyon       | 7,830'  | Oil         |
| Bone Spring Lime    | 9,273'  | Oil         |

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13.375" casing at ~~1,150'~~ <sup>1,200'</sup> and circulating cement back to surface.

**4. CASING PROGRAM - NEW**

*See COF*

| Hole Size | Interval                                | Csg ' OD | Weight | Grade          | Conn | DF <sub>min</sub> Collapse | DF <sub>min</sub> Burst | DF <sub>min</sub> Tension |
|-----------|---|----------|--------|----------------|------|----------------------------|-------------------------|---------------------------|
| 17.5"     | 0 - <del>1,150'</del> <sup>1,200'</sup> | 13.375"  | 54.5#  | J55            | STC  | 1.125                      | 1.25                    | 1.60                      |
| 12.25"    | 0-4,000'                                | 9.625"   | 40#    | J55            | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 12.25"    | 4,000'-5,150'                           | 9.625"   | 40#    | HCK55          | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 8.75"     | 0'-13,322'                              | 5.500"   | 17#    | P110 or HCP110 | LTC  | 1.125                      | 1.25                    | 1.60                      |

**EOG RESOURCES, INC.  
DIAMOND 5 FED COM #7H**

**Cementing Program:**

| Depth   | No. Sacks | Wt. lb/gal | Yld Ft <sup>3</sup> /ft | Slurry Description  |
|---------|-----------|------------|-------------------------|---|
| 1,150'  | 500       | 13.5       | 1.73                    | Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ surface)   |
|         | 250       | 14.8       | 1.34                    | Tail: Class C + 0.005 pps Static Free + 1% CaCl <sub>2</sub> + 0.25 pps CelloFlake + 0.005 gps FP-6L  |
| 5,150'  | 850       | 12.7       | 2.22                    | Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ surface)  |
|         | 200       | 14.8       | 1.32                    | Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free  |
| 13,322' | 300       | 10.8       | 3.68                    | Lead: 60:40:0 Class 'C' + 15.00 lb/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free (TOC @ 4650') |
|         | 325       | 11.9       | 2.38                    | Middle: 50:50:10 Class 'H' + 0.80% FL-52 + 0.45% ASA-301 + 0.40% SMS + 2.00% Salt + 3.00 lb/sx LCM-1 + 0.20% R-21 + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free                      |
|         | 1050      | 14.2       | 1.28                    | Tail: 50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt + 0.10% R-3 + 0.005 lb/sk Static Free  |

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

*See COA*

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

3000 psi BOPE is adequate for this application. Due to the 3000 psi BOPE requirement no FIT tests are planned.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 2000/ 250 psig and the annular preventer to 2000/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

**EOG RESOURCES, INC.**  
**DIAMOND 5 FED COM #7H**

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000/ 250 psig and the annular preventer to 3000/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

**6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:**

The applicable depths and properties of the drilling fluid systems are as follows. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| Depth            | Type            | Weight (ppg) | Viscosity | Water Loss |
|------------------|-----------------|--------------|-----------|------------|
| 0 - 1,150'       | Fresh Water Gel | 8.6-8.8      | 28-34     | N/c        |
| 1,150' - 5,150'  | Saturated Brine | 10.0-10.2    | 28-34     | N/c        |
| 5,150' - 8,972'  | Cut Brine Water | 8.5-9.3      | 28-34     | N/c        |
| 8,972' - 13,322' | Cut Brine Water | 9.0-9.5      | 28-34     | N/c        |
| Lateral          |                 |              |           |            |

See  
COA

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

**7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:**

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

See  
COA

(C) H<sub>2</sub>S monitoring and detection equipment will be utilized from surface casing point to TD.

**8. LOGGING, TESTING AND CORING PROGRAM:**

Open-hole logs are not planned for this well.

GR-CCL Will be run in cased hole during completions phase of operations, from kick off point to intermediate casing point.

**EOG RESOURCES, INC.  
DIAMOND 5 FED COM #7H**

**9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND  
POTENTIAL HAZARDS:**

*See  
COA* The estimated bottom-hole temperature (BHT) at TD is 155 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4127 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

**10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:**

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.