

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

5. Lease Serial No.

~~NM066653~~ NM100584

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.

Bell Lake Unit No. 8

2. Name of Operator

EOG Resources, Inc.

9. API Well No.

30-025-35504

3a. Address

P.O. Box 2267, Midland, TX 79702

3b. Phone No. (include area code)

(915)686-3714

10. Field and Pool, or Exploratory

Bell lake, So. (Morrow)

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

1980' FNL & 660' FWL

Lot 2/E

11. Sec., T., R., M., or Blk. And Survey or Area

Sec 7, T24S, R34E

At proposed prod. Zone

Same as surface

14. Distance in miles and direction from nearest town or post office\*

22 mi. NW from Jal

12. County or Parish

Lea

13. State

NM

15. Distance from proposed\* location to nearest property or lease line, ft. 660'  
(Also to nearest drlg. Unit line, if any) same

16. No. of Acres in lease

480

17. Spacing Unit dedicated to this well

W/2 320

18. Distance from proposed location\* to nearest well, drilling, completed applied for, on this lease, ft. N/A

19. Proposed Depth

14,500'

20. BLM/BIA Bond No. on file

NM2308

21. Elevations (Show whether DF, KDB, RT, GL, etc)

GL3614

22. Approximate date work will start\*

3/1/2001

23. Estimated duration

30 days

24. Attachments

The following completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Date

Mike Francis

1/12/01

Title

Agent

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

OPER. OGRID NO. 7377

PROPERTY NO. 27855

POOL CODE 71960

EXP. DATE 4-9-01

API NO. 30-025-35504

my

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-025-35504		*Pool Code 71960	*Pool Name Bell Lake South, Morrow
*Property Code 27855	*Property Name BELL LAKE UNIT		*Well Number 8
*OGRID No. 7377	*Operator Name EOG RESOURCES INC.		*Elevation 3614

<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
E	7	24-S	34-E		1980	NORTH	660	WEST	LEA

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

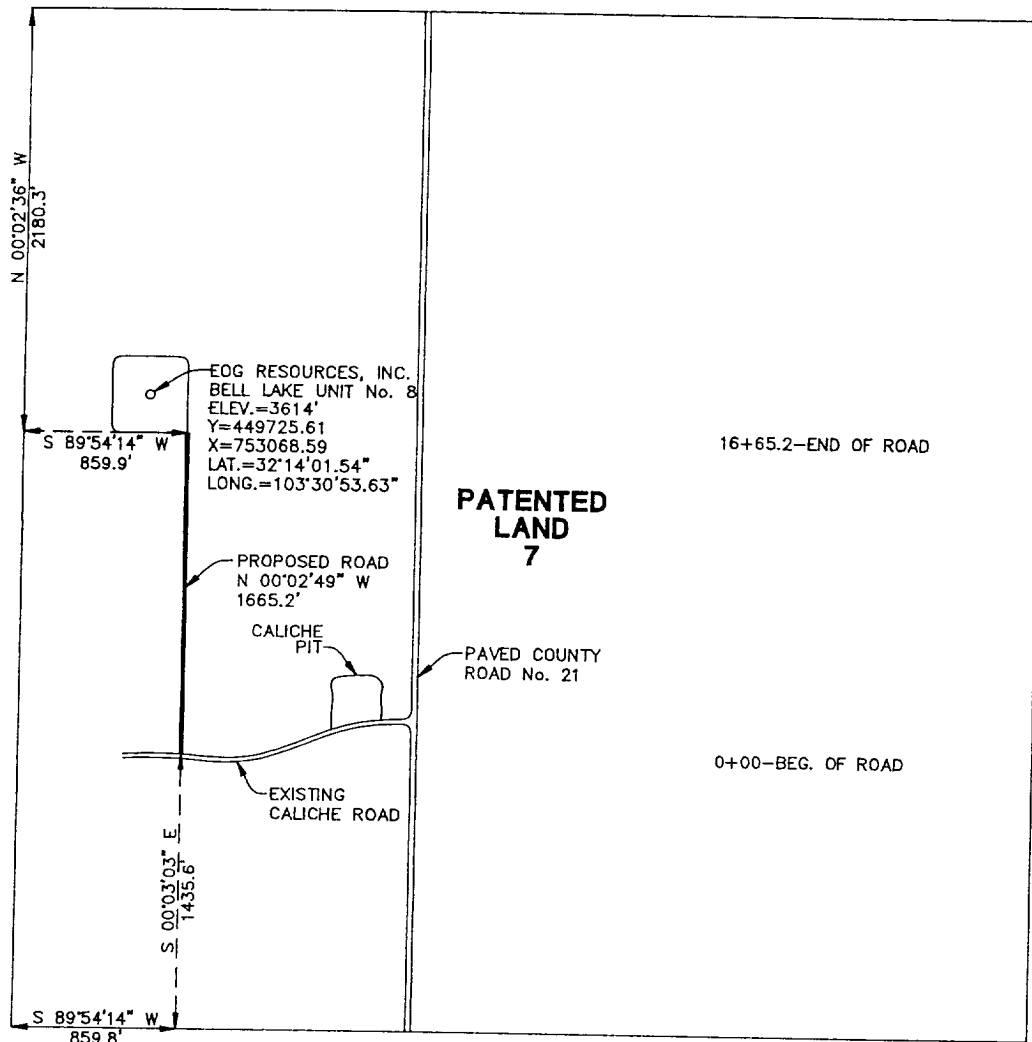
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

*Dedicated Acres 320	*Joint or Infill	*Consolidation Code	*Order No. R-11543
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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

<div><p>16</p><p>EOG RESOURCES, INC. BELL LAKE UNIT No. 8 ELEV.=3614' Y=449725.61 X=753068.59 LAT.=32°14'01.54" LONG.=103°30'53.63"</p></div>	<div><p><sup>17</sup> OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p><p><i>Mike Francis</i> Signature Mike Francis Printed Name Agent Title 1/12/01 Date</p></div>
	<div><p><sup>18</sup> SURVEYOR CERTIFICATION</p><p>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 best of my belief.</p><p>JANUARY 2, 2001 Date of Survey Signature and Seal of Professional Surveyor: <i>James E. Tompkins</i> Certificate Number 14729</p></div>

SECTION 7, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.  
LEA COUNTY  
NEW MEXICO



CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

BEGINNING at a point in an existing road, from which point the southwest corner of Section 7, T-24-S, R-34-E, N.M.P.M., Lea County, New Mexico, bears S 00° 03' 03" E, 1435.6 feet and S 89° 54' 14" W, 859.8 feet;

THENCE N 00° 02' 49" W, with the centerline of proposed road, 1665.2 feet to a point in the southeast corner of a well pad for EOG Resources, Inc. BELL LAKE UNIT No. 8, for the end of this road, from which point the northwest corner of said Section 7 bears S 89° 54' 14" W, 859.9 feet and N 00° 02' 36" W, 2180.3 feet.

Exhibit 3A

PROPOSED ROAD TO SERVE  
BELL LAKE UNIT No. 8

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of New Mexico.

*James E. Tompkins*  
JAMES E. TOMPKINS  
Registered Professional Surveyor  
New Mexico Certificate No. 14729

EOG RESOURCES INC.

1665.2 feet of proposed road in  
Section 7, T-24-S, R-34-E, N.M.P.M.,  
Lea County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 1-2-01

Date: 1-3-01

Scale: 1" = 1000'

WTC No.: 46061

Drawn By: JWD

Sheet 1 of 1

# LOCATION VERIFICATION MAP

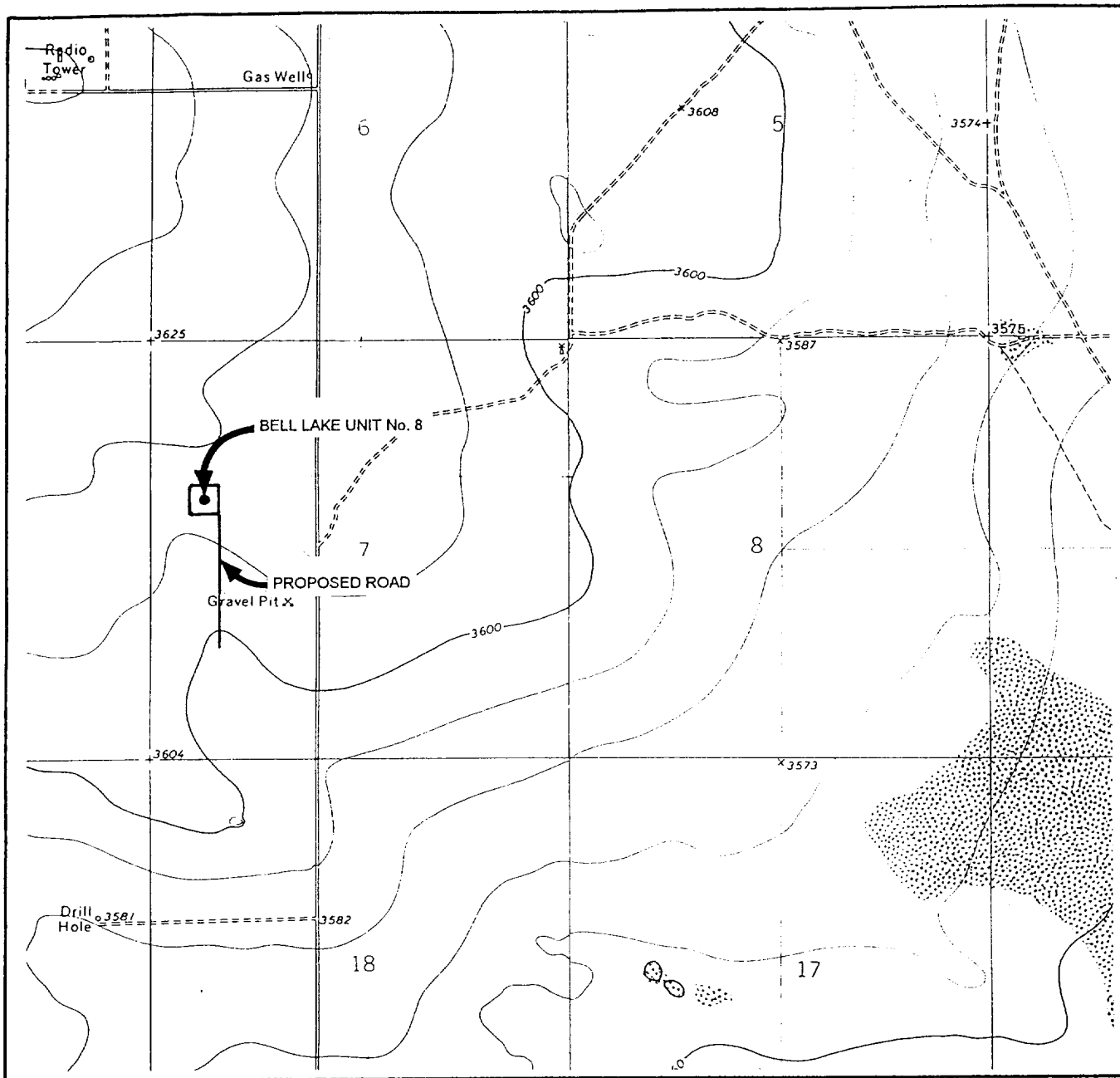


Exhibit 3

SCALE: 1" = 2000'  
WTC 46061

SEC. 7 TWP. 24-S RGE. 34-E

SURVEY N.M.P.M

COUNTY LEA STATE NM

DESCRIPTION 1980' FNL & 660' FWL

ELEVATION 3614'

OPERATOR EOG RESOURCES, INC.

LEASE BELL LAKE UNIT No. 8

USGS TOPO MAP BELL LAKE & WOODLEY FLATS,  
NEW MEXICO.

CONTOUR INTERVAL 10'

**WEST TEXAS CONSULTANTS, INC.**

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

## DRILLING PROGRAM

EOG RESOURCES, INC.  
BELL LAKE UNIT NO. 8  
1,980' FNL & 660' FWL  
SEC. 7, T24S, R34E  
LEA COUNTY, NM

### 1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

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

Rustler	1270'
Delaware	5180'
Bone Spring LS	8925'
3 <sup>rd</sup> Bone Spring Sd	11550'
Strawn	12350'
Atoka Rect	13120'
Morrow C Ss	14100'
Morrow D Ss	14350'

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

Upper Permian Sands	100'	Fresh Water
Upper Penn		Gas

### 4. CASING PROGRAM

<u>Hole Size</u>	<u>Interval</u>	<u>OD Casing</u>	<u>Weight Grade It.</u>	<u>Cond. Type</u>
17 1/2"	0-800'	13 3/8"	42# J-55	LT&C
12 1/4"	0-4000'	9 5/8"	40# J-55	LT&C
	4000-5200'	9-5/8"	40# HCK	LT&C
8 3/4"	0-12500'	7"	26# P110	LT&C
6 1/8"	0-14500'	3 1/2"	9.3# P110 Hydril	CS

#### Cementing Program:

13 3/8" Surface Casing:	Cement to surface with 415 sx Prem Plus, 3% Econolite, 25 Calcium Chloride, 0.25#/sx Flocele, 150 sx Prem Plus, 2% Calcium Chloride
9 5/8" 1 <sup>st</sup> Intermediate:	Cement to surface with 1100 sx Interfill C, .25#/sx flocele, 250 sx Premium Plus, 2% Calcium Chloride
7" 2 <sup>nd</sup> Intermediate:	Cement w/930 sx Premium, 3% Econolite, 5#/sx Salt (3%), 0.2% HR5, .25#/sk Flocele, 250 sx Prem 50/50 Poz mix 'A', 2% Halliburton-Gel First 2%, 0.5% Halad-322. This is designed to bring TOC to 4500'.
3 1/2" Casing:	135 sx Prem, 0.3% Halad-344, 0.3% Halad-413, 0.3% Super CBL, 0.2% SCR-100 This designed to bring TOC to 12300 +/-.

## **DRILLING PROGRAM**

**EOG RESOURCES, INC.  
BELL LAKE UNIT NO. 8  
1,980' FNL & 660' FWL  
SEC. 7, T24S, R34E  
LEA COUNTY, NM**

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

(SEE EXHIBIT #1 and #2)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All BOP's and accessory equipment will be tested to 600 psi before drilling out of surface casing. Before drilling out of 1st intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/1000 psi and the annular to 3500/5000-psig pressure. The blowout preventer equipment (BOP) shown in Exhibit 2 will consist of a double ram-type (10,000 psi) preventer and an annular preventer (5,000 psi). Before drilling below 2<sup>nd</sup> Intermediate ram type BOP and accessory equipment will be installed and tested to 10,000/1,000 psi and the annulus to 3500/1000. This equipment will be used from  $\pm 12,500'$  to TD.

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.

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

The well will be drilled to TD with a combination of brine, cut brine, and polymer/KCL mud system. The applicable depths and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	<u>Wt (PPG)</u>	<u>Viscosity (sec)</u>	<u>Waterloss (cc)</u>
0-1270'	Fresh Water (spud mud)	8.5	40-45	N.C.
1270'-5200'	Brine Water	10.0	30	N.C.
5200'-12500'	Fresh Water	8.4	28	N.C.
12500'-14520'	Brine & Polymer xcd	10-14.0	28/45	0/<1 CC

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

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

(A) A kelly cock will be kept in the frill 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.

## **DRILLING PROGRAM**

**EOG RESOURCES, INC.  
BELL LAKE UNIT NO. 8  
1,980' FNL & 660' FWL  
SEC. 7, T24S, R34E  
LEA COUNTY, NM**

(C) A mud logging unit complete with H<sub>2</sub>S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 5000' to TD.

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

1<sup>st</sup> Log run @ +/- 12,800' will consist of GR-Dual Induction Focused and GR-Compensated Density-Neutron from TD to intermediate casing with a GR-Compensated Neutron run from intermediate casing to surface and optional Sonic from TD to Intermediate casing.

2<sup>nd</sup> log run @ +/-14,300' will consist of GR-Compensated Density-Neutron caliper from TD to bottom of 2<sup>nd</sup> Intermediate .

Possible sidewall cores based on shows.

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

The estimated bottom hole temperature (BHT) at TD is 175 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9000 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 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

## **DRILLING PROGRAM**

**EOG RESOURCES, INC.  
BELL LAKE UNIT NO. 8  
1,980' FNL & 660' FWL  
SEC. 7, T24S, R34E  
LEA COUNTY, NM**

### **SURFACE USE AND OPERATIONS PLAN**

#### **1. EXISTING ROADS:**

Access to location will be made as shown on Exhibit #3

Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

#### **2. PROPOSED ACCESS ROAD:**

1465' of new road is required. Exhibit #3A

No turnouts necessary.

No culverts, cattleguards, gates, low-water crossings are necessary.

Surfacing material consists of native caliche to be obtained from the nearest BLM-approved caliche pit. Any additional materials required will be purchased from the dirt contractor.

#### **3. LOCATION OF EXISTING WELLS:**

Exhibit #4 shows all existing wells within a one-mile radius of this well.

#### **4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:**

There are no existing production facilities. If production is encountered, a temporary facility will be established on the drill pad, and if warranted, a production facility would be built at a later date in the immediate area of the drill pad location. If the well is productive, the flowline would also be located on the drill-pad site and no additional disturbance will occur.

#### **5. LOCATION AND TYPE OF WATER SUPPLY:**

Fresh water for drilling will come from water well C-2373 in section 13,25S,33E, in addition brine water will be purchased from commercial sources and transported to the well site over the roads as shown on Exhibit #3.



## **DRILLING PROGRAM**

**EOG RESOURCES, INC.  
BELL LAKE UNIT NO. 8  
1,980' FNL & 660' FWL  
SEC. 7, T24S, R34E  
LEA COUNTY, NM**

### **6. PLANS FOR RESTORATION OF THE SURFACE:**

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Location will be cleaned of all trash and junk to leave the well in an aesthetically pleasing condition as possible.

Any unguarded pits containing fluid will be fenced until they are dry and back filled.

After abandonment of the well, surface restoration will be in accordance with current federal laws and regulations. Location will be cleaned, and The wellpad removed to promote vegetation and disposal of human waste will be complied with. Trash, waste paper, garbage and junk will be hauled to an approved disposal site in an enclosed trash trailer.

All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

### **ANCILLARY FACILITIES:**

No airstrip, campsite, or other facilities will be built.

### **WELL SITE LAYOUT:**

Exhibit #5 shows the relative location and dimensions of the well pad.

**DRILLING PROGRAM**

**EOG RESOURCES, INC.  
BELL LAKE UNIT NO. 8  
1,980' FNL & 660' FWL  
SEC. 7, T24S, R34E  
LEA COUNTY, NM**

**OTHER INFORMATION:**

The area around the well site is grassland and the topsoil is duned and sandy. The vegetation is native scrub grasses with abundant oakbrush, sagebrush, yucca, and prickly pear.

**CERTIFICATION:**

I HEREBY CERTIFY that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

W. Dewey Smeltzer  
Division Drilling Manager



Date: 1-12-00

**DRILLING PROGRAM**

**EOG RESOURCES, INC.  
BELL LAKE UNIT NO. 8  
1,980' FNL & 660' FWL  
SEC. 7, T24S, R34E  
LEA COUNTY, NM**

**ATTACHMENT TO EXHIBIT #1 & 2**

1. Wear ring to be properly installed in head.
2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1 and 10,000 psi W.P. minimum, Exhibit #2.
3. All fittings to be flanged
4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
5. All choke and fill lines to be securely anchored especially ends of choke lines.
6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
7. Kelly cock on kelly.
8. Extension wrenches and hand wheels to be properly installed.
9. Blow out preventer control to be located as close to driller's position as feasible.
10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

**Statement Accepting Responsibility For Operations**

**Operator Name:** EOG Resources, Inc.  
**Street or Box:** P.O. Box 2267  
**City, State:** Midland, TX  
**Zip Code:** 79702

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

**Lease No.:** NM1066653

**Legal Description of Land:** Section 7, T24S, R34E  
Lea Co., NM

**Formation(s) (if applicable):**

**Bond Coverage:** (*State if individually bonded or another's bond*) Individually

**BLM Bond File No.:** NM2308

**Authorized Signature:**

  
Mike Francis

**Title:** Agent

**Date:** 1/12/01

EOG Resources, Inc.

Bell Lake Unit NO. 8

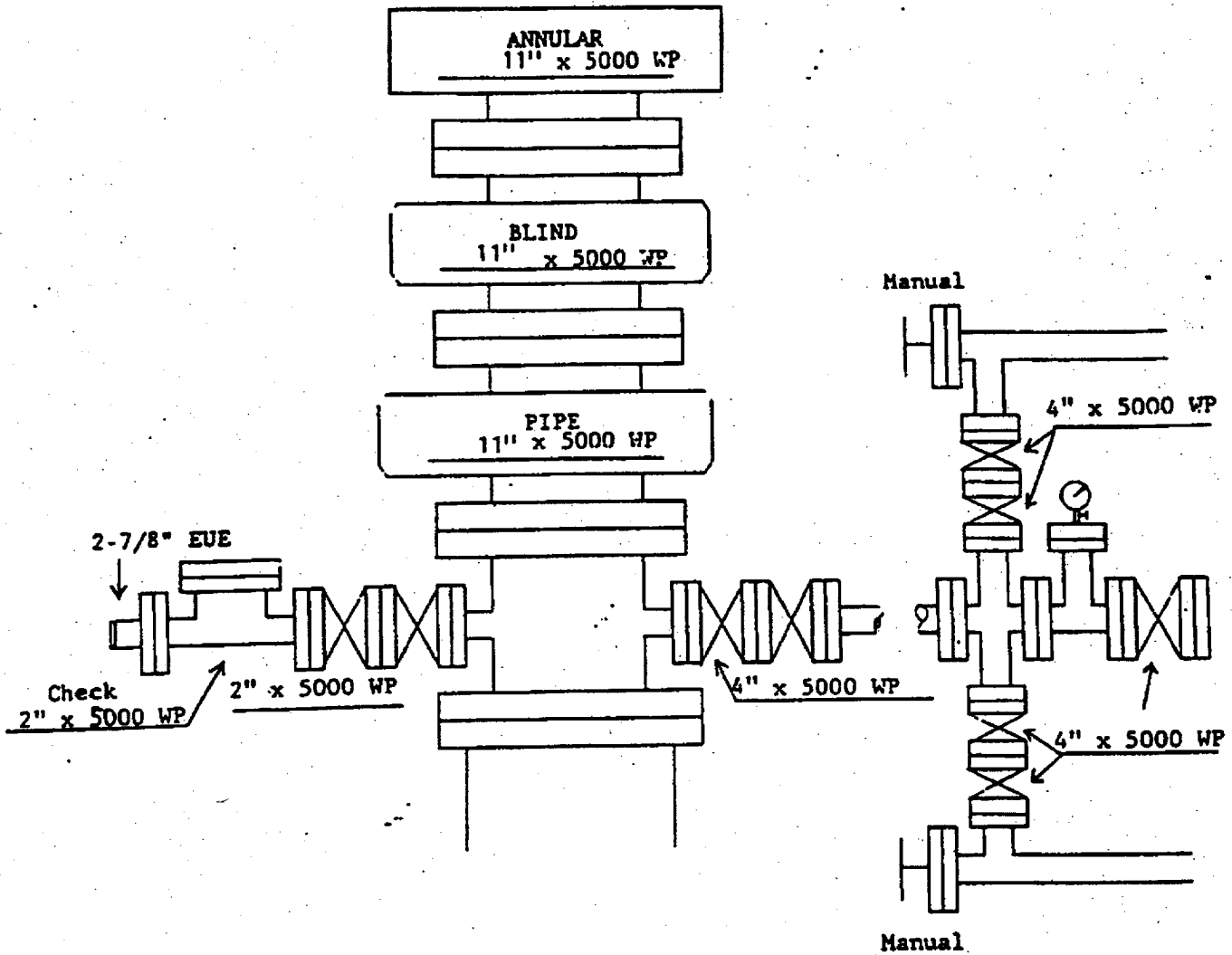


Exhibit 1

EOG Resources, Inc.

Bell Lake Unit No. 8

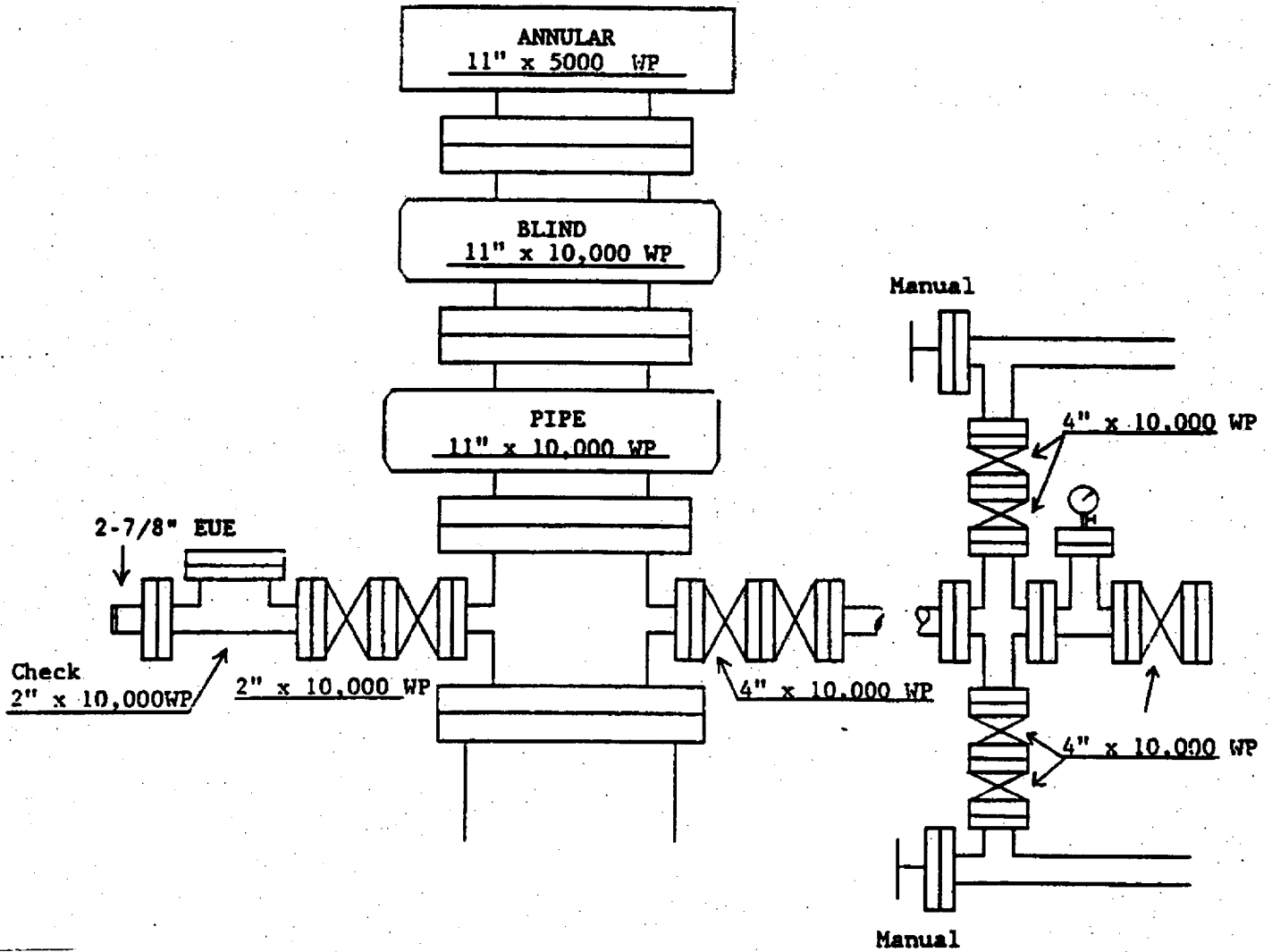
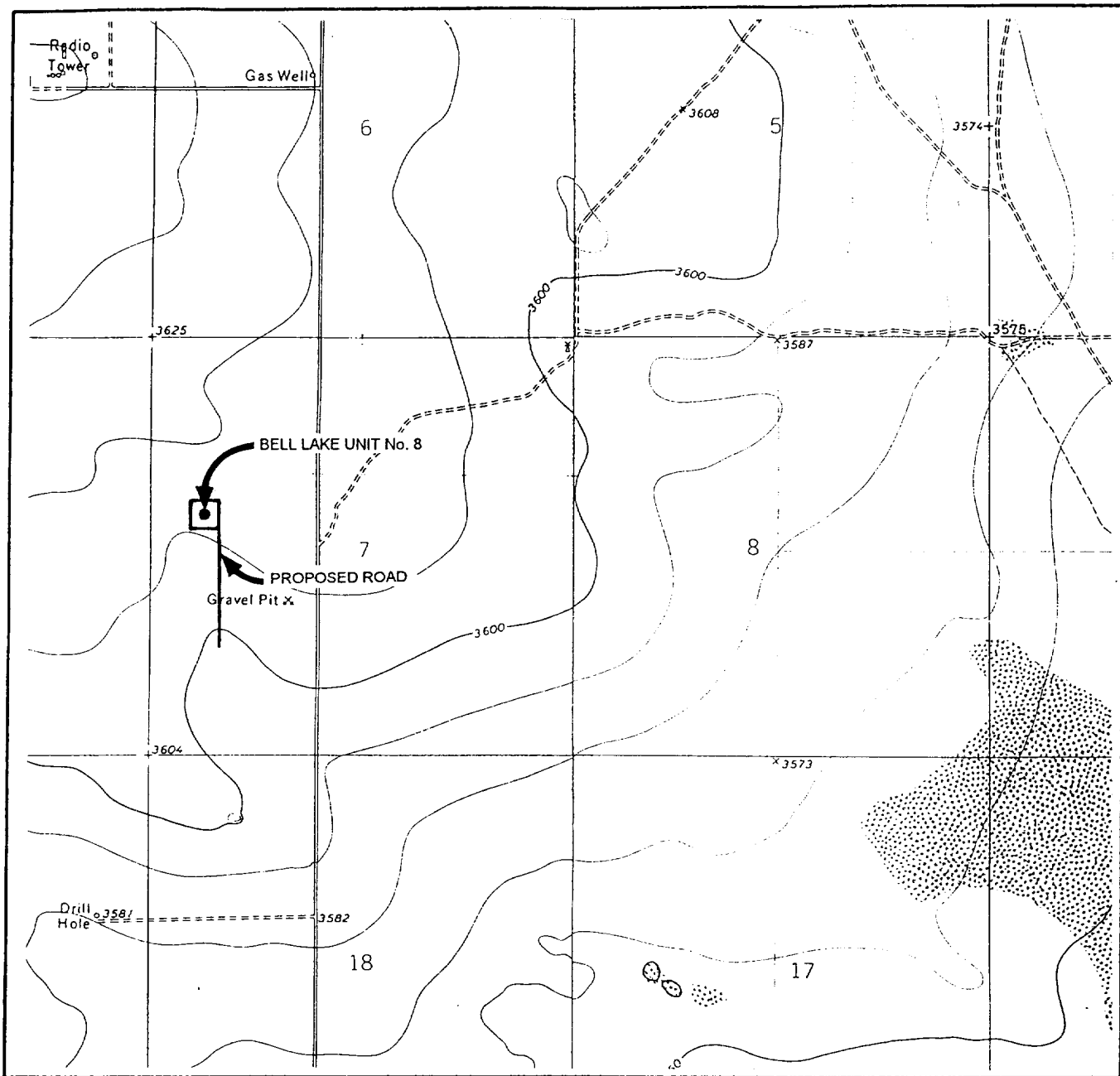


Exhibit 2

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'  
WTC 46061

SEC. 7 TWP. 24-S RGE. 34-E

SURVEY N.M.P.M

COUNTY LEA STATE NM

DESCRIPTION 2180' FNL & 660' FWL

ELEVATION 3614'

OPERATOR EOG RESOURCES, INC.

LEASE BELL LAKE UNIT No. 8

USGS TOPO MAP BELL LAKE & WOODLEY FLATS,  
NEW MEXICO.

Exhibit 3

CONTOUR INTERVAL 10'

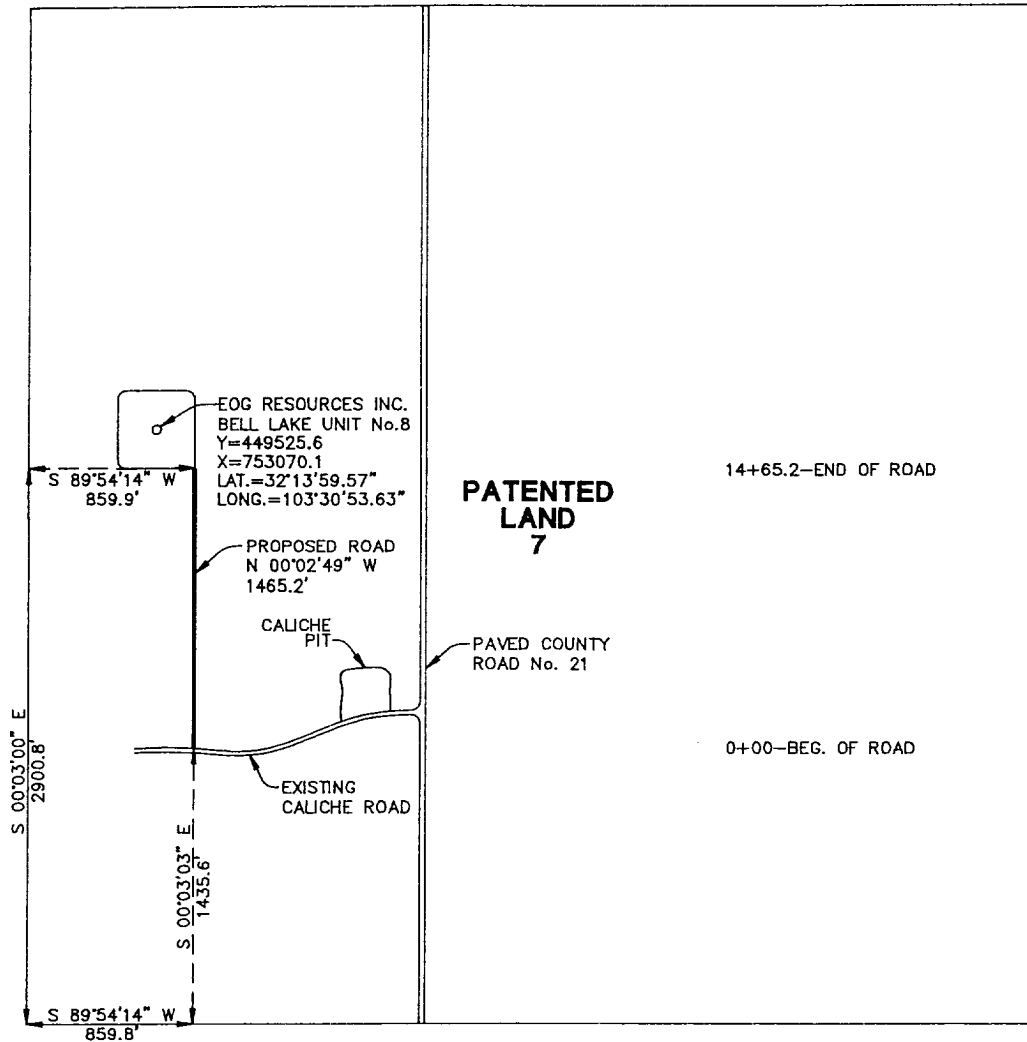
**WEST TEXAS CONSULTANTS, INC.**

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

SECTION 7, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.  
LEA COUNTY  
NEW MEXICO



CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

BEGINNING at a point in an existing road, from which point the southwest corner of Section 7, T-24-S, R-34-E, N.M.P.M., Lea County, New Mexico, bears S 00° 03' 03" E, 1435.6 feet and S 89° 54' 14" W, 859.8 feet;

THENCE N 00° 02' 49" W, with the centerline of proposed road, 1465.2 feet to a point in the southeast corner of a well pad for EOG Resources, Inc. BELL LAKE UNIT No. 8, for the end of this road, from which point the southwest corner of said Section 7 bears S 89° 54' 14" W, 859.9 feet and S 00° 03' 00" E, 2900.8 feet.

Exhibit 3A

PROPOSED ROAD TO SERVE  
BELL LAKE UNIT No. 8

EOG RESOURCES INC.

1465.2 feet of proposed road in  
Section 7, T-24-S, R-34-E, N.M.P.M.,  
Lea County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS—PLANNERS—SURVEYORS

MIDLAND, TEXAS

Survey Date: 1-2-01

Date: 1-3-01

Scale: 1" = 1000'

WTC No.: 46061

Drawn By: JWD

Sheet 1 of 1

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of New Mexico.

*James E. Tompkins*  
JAMES E. TOMPKINS  
Registered Professional Surveyor  
New Mexico Certificate No. 14729



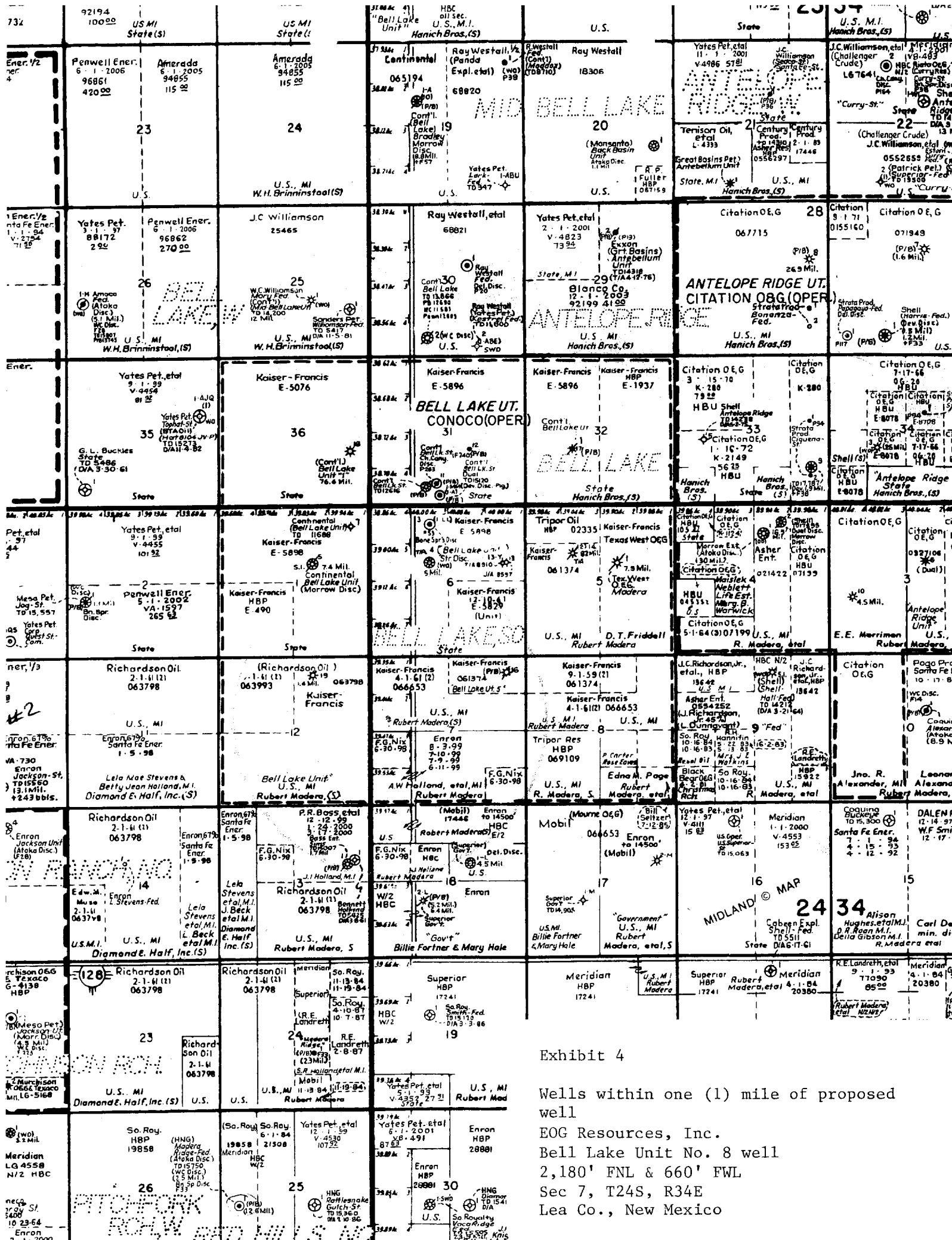


Exhibit 4

Wells within one (1) mile of proposed well  
EOG Resources, Inc.  
Bell Lake Unit No. 8 well  
2,180' FNL & 660' FWL  
Sec 7, T24S, R34E  
Lea Co., New Mexico

Exhibit 5

Bell Lake Unit No. 8

NORTH

