

Form 3160-3  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM 12412
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator EOG Resources, Inc.		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. Box 2267, Midland, TX 79702	3b. Phone No. (include area code) (915)686-3714	8. Lease Name and Well No. Lusk "23" Fed No. 1
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1651' FNL & 679' FWL (U/L E) At proposed prod. Zone <b>Capitan Controlled Water Basin</b>		9. API Well No. 30-025-35785
14. Distance in miles and direction from nearest town or post office*		10. Field and Pool, or Exploratory Lusk Morrow East (Gas)
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. Unit line, if any) 679 same	16. No. of Acres in lease 2,320	11. Sec., T., R., M., or Blk. And Survey or Area Sec. 23, T-19-S, R-32-E
17. Spacing Unit dedicated to this well W/2	18. Distance from proposed location* to nearest well, drilling, completed applied for, on this lease, ft. 2700	12. County or Parish Lea
19. Proposed Depth 13,700	20. BLM/BIA Bond No. on file NM 2308	13. State NM
21. Elevations (Show whether DF, KDB, RT, GL, etc) GL 3610	22. Approximate date work will start* 11/1/01	23. Estimated duration 40 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.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)     |
| 2. A Drilling Plan.  | 5. Operator certification.   |
| 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) | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Mike Francis</i>	Name (Printed/Typed) Mike Francis	Date 9/21/01
Title Agent		
Approved by (Signature) <i>/s/ LESLIE A. THEISS</i>	Name (Printed/Typed) /s/ LESLIE A. THEISS	Date DEC 12 2001
Title FIELD MANAGER		
Office CARLSBAD FIELD 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. 29116  
POOL CODE 80770  
EFF. DATE 12-14-01  
API NO. 30-025-35785

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

8  
KE

## OCD-HOBBS

Form 3160-5  
(August 1999)  
(1 original, 5 copies)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

FORM APPROVED  
OMB NO. 1004-0135

Expires: November 30, 2000

5	Lease Serial No. NM 12412
6	If Indian, Allottee or Tribe Name
7	If Unit or CA/Agreement, Name and/or No.
8	Well Name and No. Lusk "23" Fed No. 1
9	API Well No. 30-025-35785
10	Field and Pool, or Exploratory Lusk Morrow East (Gas)
11	County or Parish, State Lea County, NM

1. Type of well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator EOG Resources, Inc.	
3a. Address P.O. Box 2267, Midland, TX 79702	3b. Phone No. (include area code) (915)686-3714
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1651' FNL & 679' FWL (U/LE) Section 23, T-19-S, R-32-E	

INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Change Plans
	<input type="checkbox"/> Convert to Injection
	<input type="checkbox"/> Deepen
	<input type="checkbox"/> Fracture Treat
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Other Re-route Access Road

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zone. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

BLM Carlsbad has requested that EOG Resources, Inc. re-route access road for its Lusk "23" Fed No. 1 because of ecological concerns. Enclosed herewith are revised plats showing route of road as requested.

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Mike Francis

Signature

*Mike Francis*

Title

Date

10-22-01

FEDERAL OR STATE OFFICE USE

Approved by

/s/ LESLIE A. THEISS

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct thereon.

Title

FIELD MANAGER

Date

DEC 12 2001

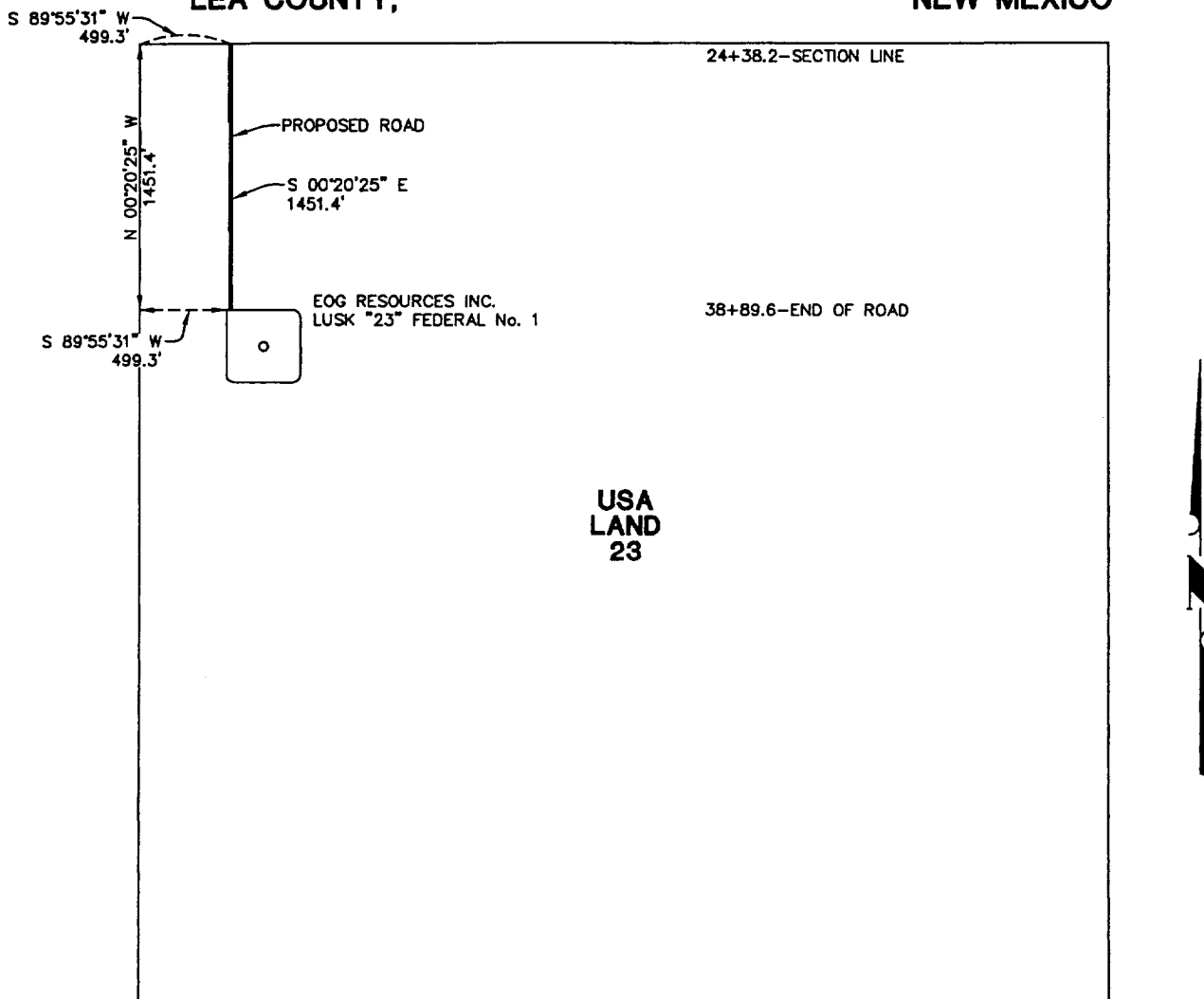
Office

CARLSBAD FIELD OFFICE

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.

RECEIVED  
2001 OCT 26 PM 1 07  
BUREAU OF LAND MGMT.  
CARLSBAD FIELD OFFICE

**SECTION 23, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.  
LEA COUNTY,  
NEW MEXICO**



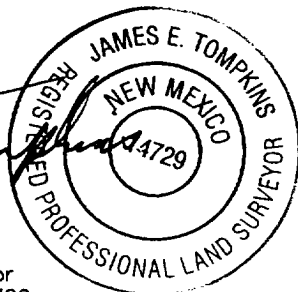
**CENTERLINE DESCRIPTION OF A PROPOSED ROAD:**

**BEGINNING** at a point in the north line of Section 23, T-19-S, R-32-E, N.M.P.M., Lea County, New Mexico, from which point the northwest corner of said Section 23 bears S 89° 55, 31" W, 499.3 feet;

**THENCE** S 00° 20' 25" E, with the centerline of proposed road, 1451.4 feet to a point in the northwest corner of a well pad for EOG Resources, Inc. LUSK "23" FEDERAL No. 1, for the end of this road, from which point the northwest corner of said Section 23 bears S 89° 55' 31" W, 499.3 feet and N 00° 20' 25" W, 1451.4 feet.

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



**PROPOSED ROAD TO SERVE  
LUSK "23" FEDERAL No. 1**

**EOG RESOURCES INC.**

1451.4 feet of proposed road in  
Section 23, T-19-S, R-32-E, N.M.P.M.,  
Lea County, New Mexico

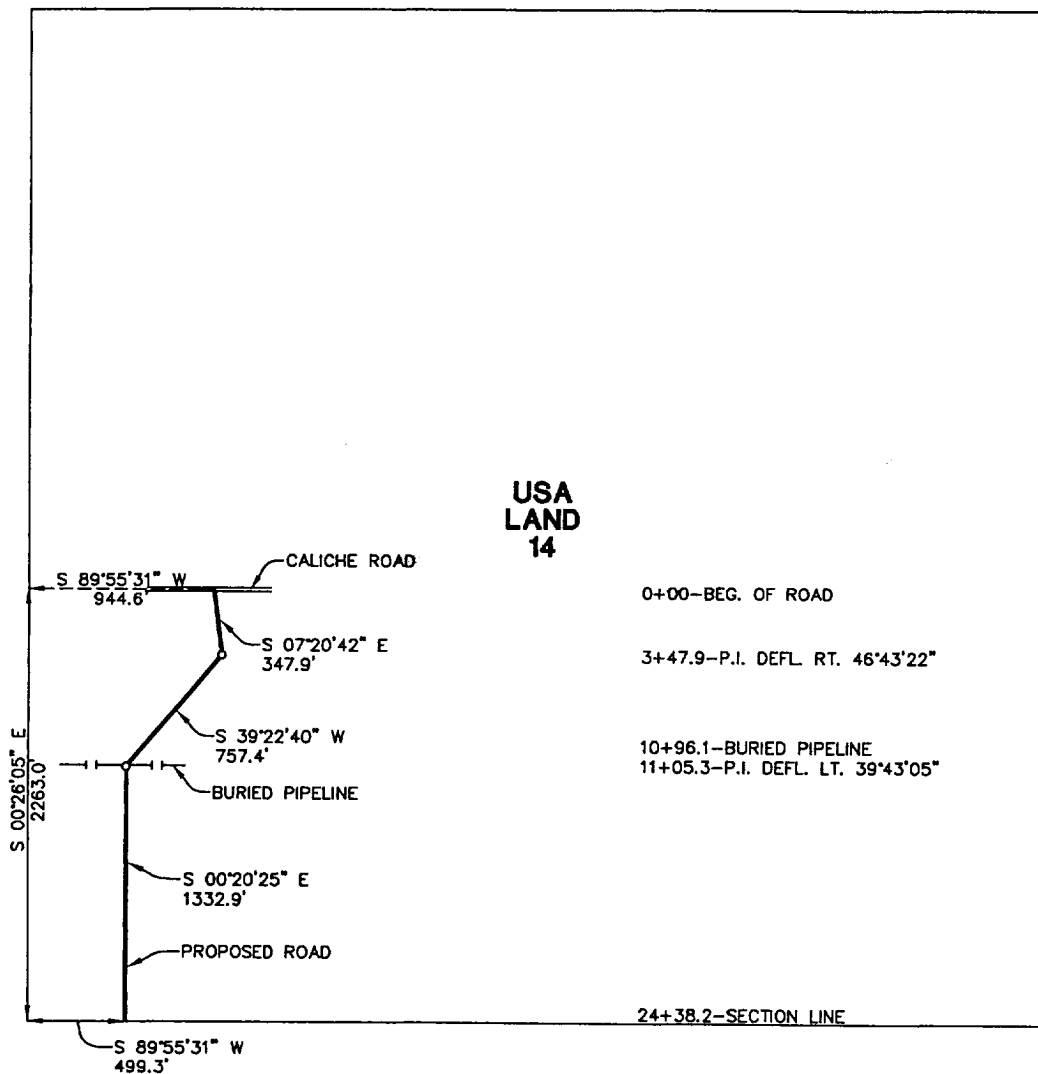
**WEST TEXAS CONSULTANTS, INC.**

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 10-11-01	Date: 10-12-01	Scale: 1" = 1000'
WTC No.: 46399	Drawn By: JWD	Sheet 2 of 2

SECTION 14, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO



CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

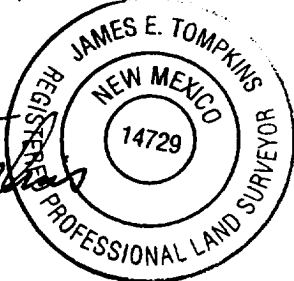
BEGINNING at a point in an existing caliche road, from which point the southwest corner of Section 14, T-19-S, R-32-E, N.M.P.M., Lea County, New Mexico, bears S 89° 55' 31" W, 944.6 feet and S 00° 26' 05" E, 2263.0 feet;

THENCE with the centerline of proposed road as follows: S 07° 20' 42" E, 347.9 feet; S 39° 22' 40" W, 757.4 feet; and S 00° 20' 25" E, 1332.9 feet to a point in the south line of said Section 14, from which point the southwest corner of said Section 14 bears S 89° 55' 31" W, 499.3 feet.

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



PROPOSED ROAD TO SERVE  
LUSK "23" FEDERAL No. 1

**EOG RESOURCES INC.**

2438.2 feet of proposed road in  
Section 14, T-19-S, R-32-E, N.M.P.M.,  
Lea County, New Mexico

**WEST TEXAS CONSULTANTS, INC.**

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 10-11-01

Date: 10-12-01

Scale: 1" = 1000'

WTC No.: 46399

Drawn By: JWD

Sheet 1 of 2

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 30-025-35785	'Pool Code 80770	'Pool Name Lusk Morrow East (gas)
'Property Code 29116	'Property Name LUSK "23" FEDERAL	'Well Number 1
'GRID No. 7377	'Operator Name EOG RESOURCES INC.	'Elevation 3610

<sup>10</sup> Surface Location

UL or lot no. E	Section 23	Township 19-S	Range 32-E	Lot Idn	Feet from the 1651	North/South line NORTH	Feet from the 679	East/West line WEST	County LEA
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<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
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"Dedicated Acres 320	"Joint or Infill	"Consolidation Code	"Order No.
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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

16 1651' 679' EOG RESOURCES INC. LUSK "23" FEDERAL No. 1 ELEV.=3610' Y=600137.93 X=681762.10 LAT.=32°38'54.57" LONG.=103°44'34.10"	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Mike Francis Printed Name Agent Title 9-21-01 Date
18 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 best of my belief.  SEPTEMBER 12, 2001 Date of Survey Signature and Seal of Professional Surveyor: James E. Tompkins REGISTERED PROFESSIONAL SURVEYOR NEW MEXICO 14729 Certificate Number 14729	

## DRILLING PROGRAM

EOG RESOURCES, INC.  
LUSK "23" FEDERAL NO. 1  
1651' FNL & 679' FWL  
SEC. 23, T-19-S, R-32-E  
LEA COUNTY, NM

### 1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

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

Yates	2950'
Delaware	4925'
Bone Springs	7750'
Wolfcamp	10900'
Strawn	12150'
Atoka Shale	12600'
Morrow Clastics	13100'
Lower Morrow	13575'
Mississippian	13675'

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

Upper Permian Sands	Above 250'	Fresh Water
Delaware	4925'	Oil
Bone Spring	8500'	Oil
Wolfcamp	10900'	Oil
Strawn	12150'	Oil
Morrow	13200'	Gas

### 4. CASING PROGRAM

<u>Hole Size</u>	<u>Interval</u>	<u>OD Casing</u>	<u>Weight Grade Jt. Cond. Type</u>
14 3/4"	0-400'	11 3/4"	42# H-40 ST&C
11"	0-4000'	8 5/8"	32# J-55 LT&C
11"	5500'	8 5/8"	32# HCK LT&C
7 7/8"	0-13700'	5 1/2"	17# S95/P110 L&TC

#### Cementing Program:

11 3/4" Surface Casing:	Cement to surface with 200 sx Prem Plus, 3% Econolite, 25 Calcium Chloride, 0.25#/sx Flocele, 150 sx Prem Plus, 2% Calcium Chloride
8 5/8" Intermediate:	Cement to surface with 800 sx Interfill C, .25#/sx flocele, 250 sx Premium Plus, 2% Calcium Chloride
5 1/2" Production:	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'.

## **DRILLING PROGRAM**

**EOG RESOURCES, INC.  
LUSK "23" FEDERAL NO. 1  
1651' FNL & 679' FWL  
SEC. 23, T-19-S, R-32-E  
LEA COUNTY, NM**

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

(SEE EXHIBIT #1)

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 in accordance with Onshore Oil & Gas order No. 2. EOG request authorization to use a 2M system, providing for an annular preventer to be used prior to drilling the surface casing shoe 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-psi pressure.

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>
0-1300'	Fresh Water (Spud Mud)	8.5	40-45	N.C.
1300'-5500'	Brine Water	10.0	30	N.C.
5500'- TD	Cut Brine + Polymer/KCL	8.8 – 9.2	32	10

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 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.

## **DRILLING PROGRAM**

**EOG RESOURCES, INC.  
LUSK "23" FEDERAL NO. 1  
1651' FNL & 679' FWL  
SEC. 23, T-19-S, R-32-E  
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:**

Electric logging 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.

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 5000 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.  
LUSK "23" FEDERAL NO. 1  
1651' FNL & 679' FWL  
SEC. 23, T-19-S, R-32-E  
LEA COUNTY, NM**

## **SURFACE USE AND OPERATIONS PLAN**

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

Access to location will be made as shown on Exhibit #2

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:**

4,787.3' of new road is required. Exhibit #2A1, 2(A)2.

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 #3 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 and brine water for drilling will come from commercial sources and transported to the well site over the roads as shown on Exhibit #2.

## **DRILLING PROGRAM**

**EOG RESOURCES, INC.  
LUSK "23" FEDERAL NO. 1  
1651' FNL & 679' FWL  
SEC. 23, T-19-S, R-32-E  
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 #4 shows the relative location and dimensions of the well pad.

**DRILLING PROGRAM**

**EOG RESOURCES, INC.  
LUSK "23" FEDERAL NO. 1  
1651' FNL & 679' FWL  
SEC. 23, T-19-S, R-32-E  
LEA COUNTY, NM**

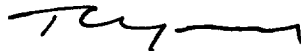
**OTHER INFORMATION:**

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.

Tom Young  
Division Drilling Manager



Date: 6/21/01

**DRILLING PROGRAM**

**EOG RESOURCES, INC.  
LUSK "23" FEDERAL NO. 1  
1651' FNL & 679' FWL  
SEC. 23, T-19-S, R-32-E  
LEA COUNTY, NM**

**ATTACHMENT TO EXHIBIT #1**

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.
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.

EOG Resources, Inc.

Lusk "23" Fed No. 1

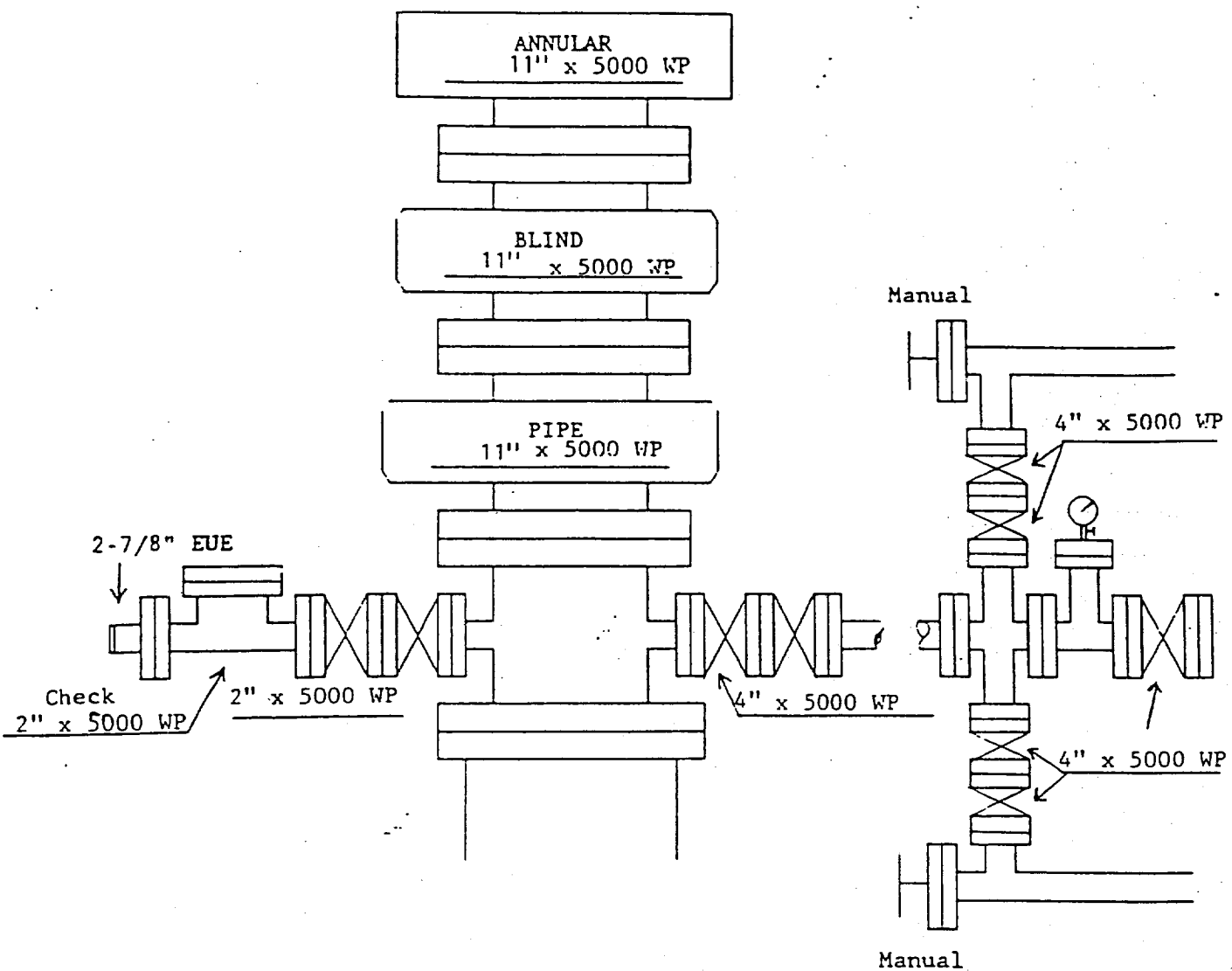
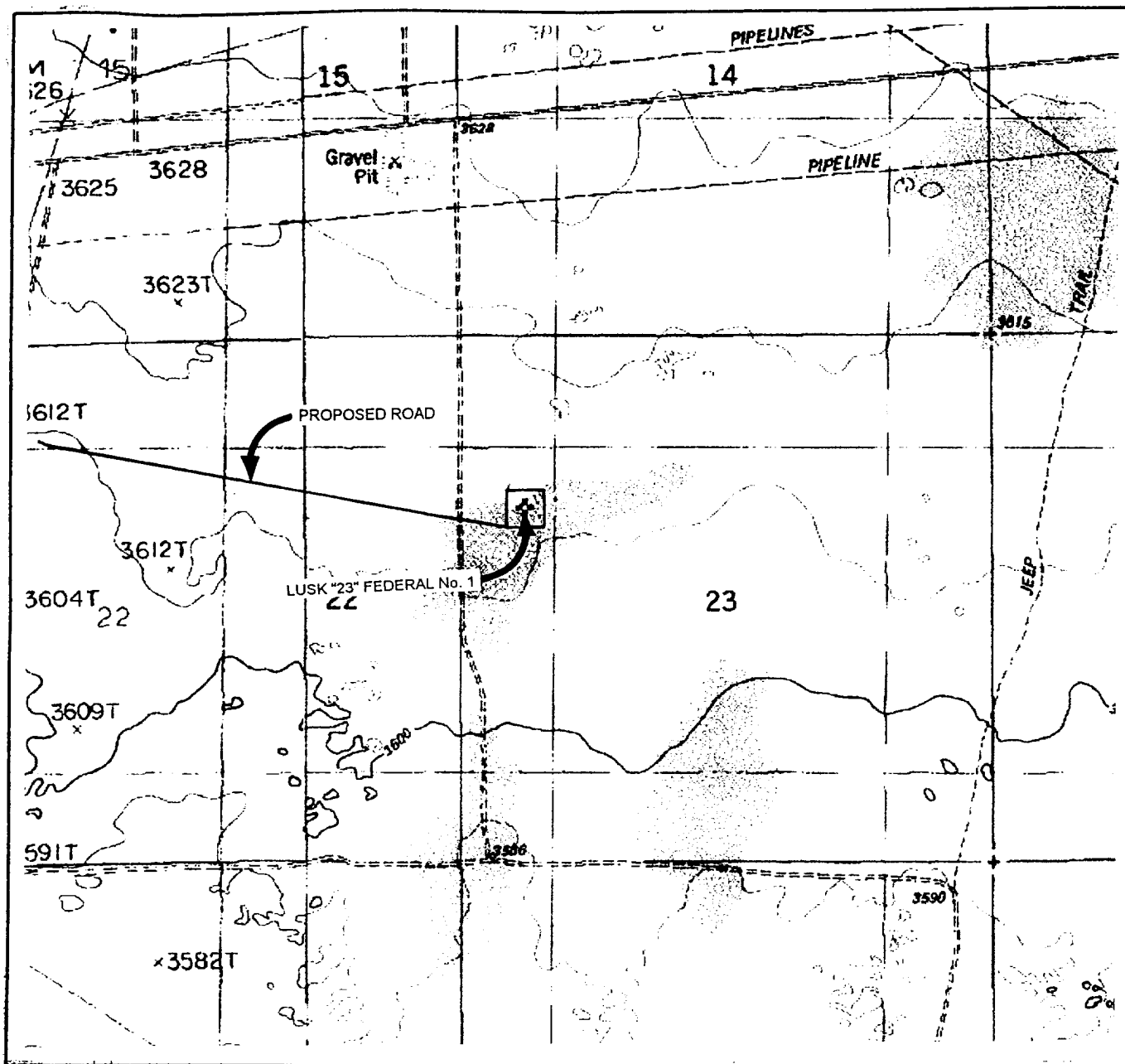


Exhibit 1

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'  
WTC 46380

SEC. 23 TWP. 19-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 1651' FNL & 679' FWL

ELEVATION 3610'

OPERATOR EOG RESOURCES, INC.

LEASE LUSK #23 FEDERAL No. 1

USGS TOPO MAP LAGUNA GATUNA NW, NEW MEXICO.

Exhibit 2  
CONTOUR INTERVAL 10'

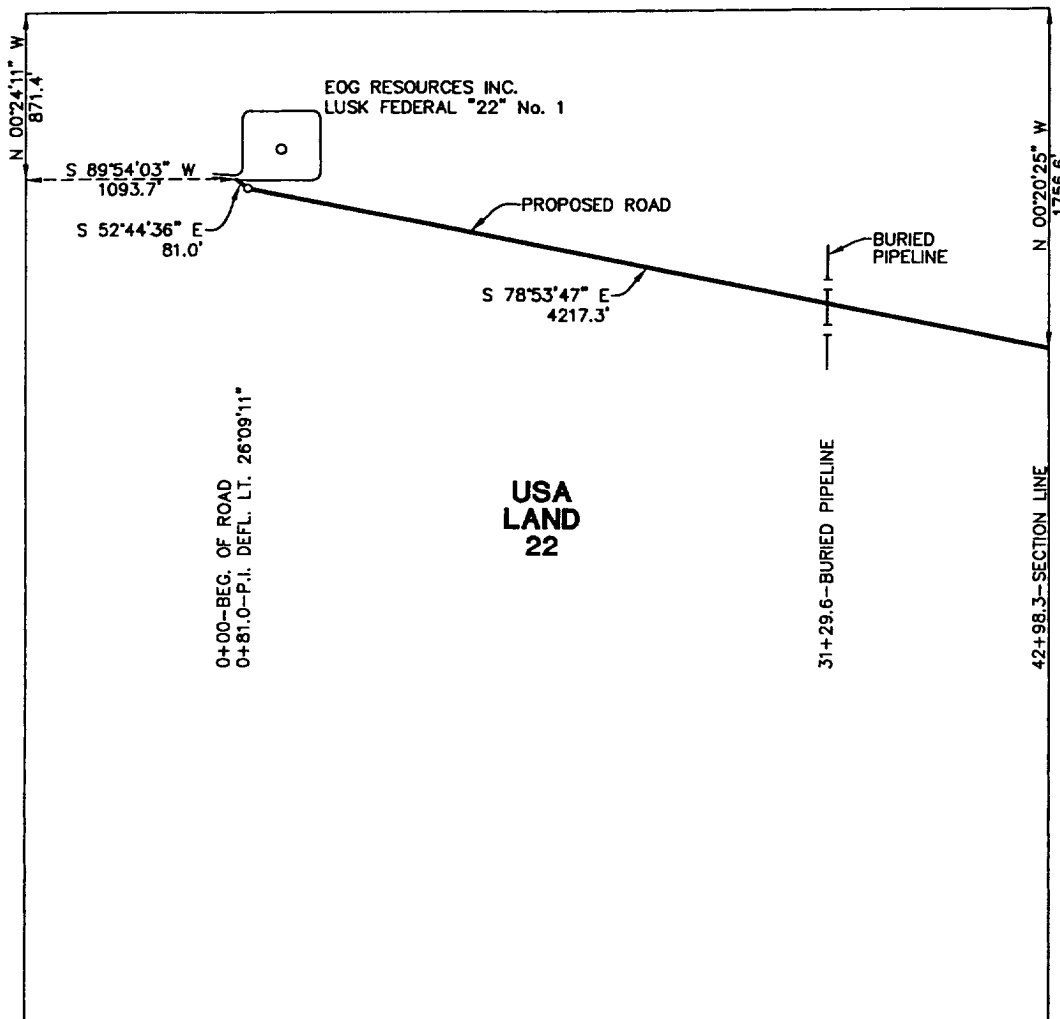
**WEST TEXAS CONSULTANTS, INC.**

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

**SECTION 22, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.  
LEA COUNTY,  
NEW MEXICO**



**CENTERLINE DESCRIPTION OF A PROPOSED ROAD:**

**BEGINNING** at a point in the southwest corner of a well pad for EOG Resources, Inc. LUSK FEDERAL "22" No. 1, from which point the northwest corner of Section 22, T-19-S, R-32-E, N.M.P.M., Lea County, New Mexico, bears S 89° 54' 03" W, 1093.7 feet and N 00° 24' 11" W, 871.4 feet;

**THENCE** S 52° 44' 36" E, with the centerline of proposed road, 81.0 feet to a point for a bend in this road;

**THENCE** S 78° 53' 47" E, with the centerline of proposed road, 4217.3 feet to a point in the east line of said Section 22, for the end of this road, from which point the northeast corner of said Section 22 bears N 00° 20' 25" W, 1756.6 feet.

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**  
Registered Professional Surveyor  
New Mexico Certificate No. 14729

**Exhibit 2(a) 1  
PROPOSED ROAD TO SERVE  
LUSK "23" FEDERAL No. 1**

**EOG RESOURCES INC.**

4298.3 feet of proposed road in  
Section 22, T-19-S, R-32-E, N.M.P.M.,  
Lea County, New Mexico

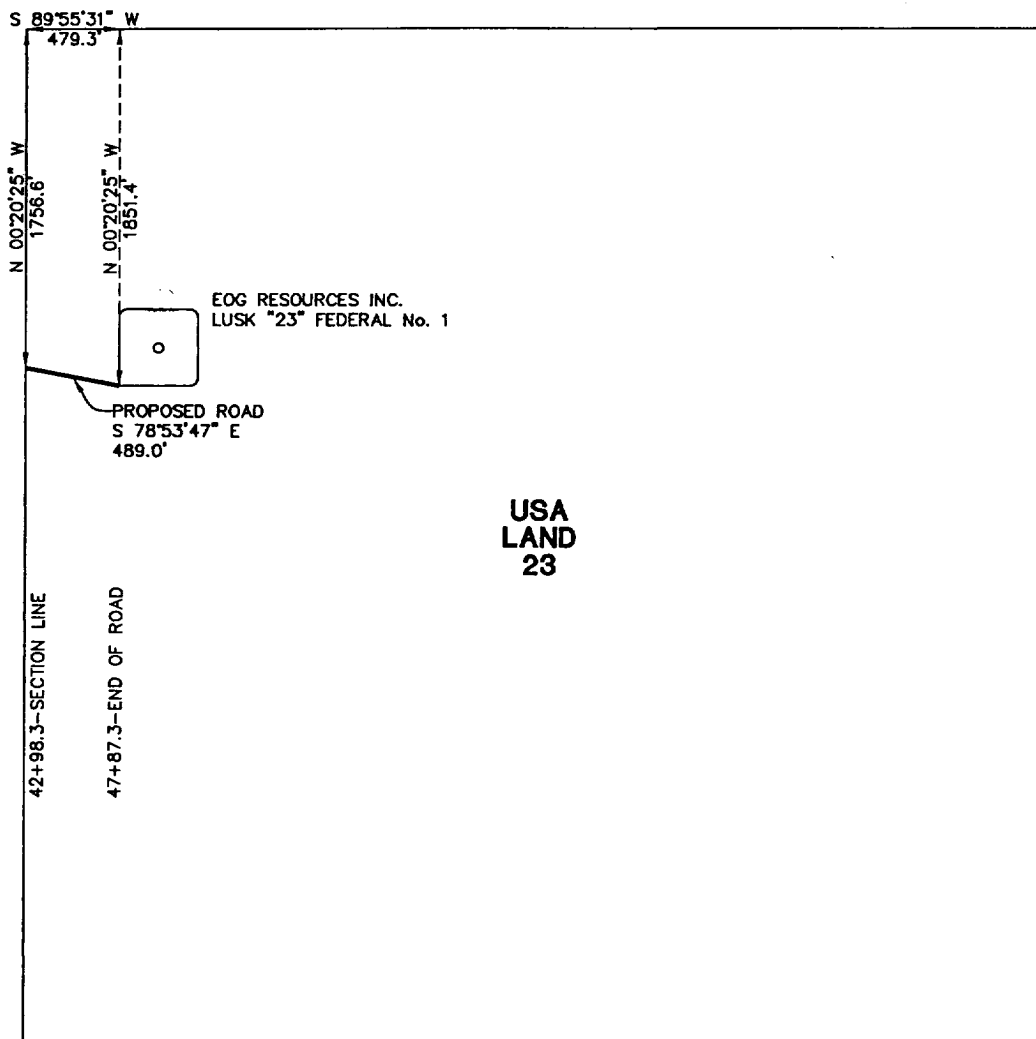
**WEST TEXAS CONSULTANTS, INC.**

**ENGINEERS-PLANNERS-SURVEYORS**

**MIDLAND, TEXAS**

Survey Date: 9-12-01	Date: 9-13-01	Scale: 1" = 1000'
WTC No.: 46380	Drawn By: JWD	Sheet 1 of 2

**SECTION 23, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.  
LEA COUNTY,  
NEW MEXICO**

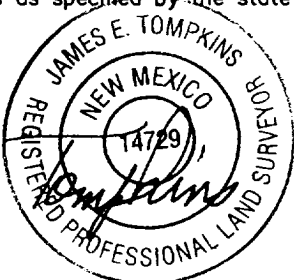


**CENTERLINE DESCRIPTION OF A PROPOSED ROAD:**

BEGINNING at a point in the west line of Section 23, T-19-S, R-32-E, N.M.P.M., Lea County, New Mexico, from which point the northwest corner of said Section 23 bears N 00° 20' 25" W, 1756.6 feet;

THENCE S 78° 53' 47" E, with the centerline of proposed road, 489.0 feet to a point in the southwest corner of a well pad for EOG Resources, Inc. LUSK "23" FEDERAL No. 1, for the end of this road, from which point the northwest corner of said Section 23 bears N 00° 20' 25" W, 1851.4 feet and S 89° 55' 31" W, 479.3 feet.

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 2 (A) 2  
PROPOSED ROAD TO SERVE  
LUSK "23" FEDERAL No. 1

**EOG RESOURCES INC.**

489.0 feet of proposed road in  
Section 23, T-19-S, R-32-E, N.M.P.M.,  
Lea County, New Mexico

**WEST TEXAS CONSULTANTS, INC.**

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 9-12-01	Date: 9-13-01	Scale: 1" = 1000'
WTC No.: 46380	Drawn By: JWD	Sheet 2 of 2



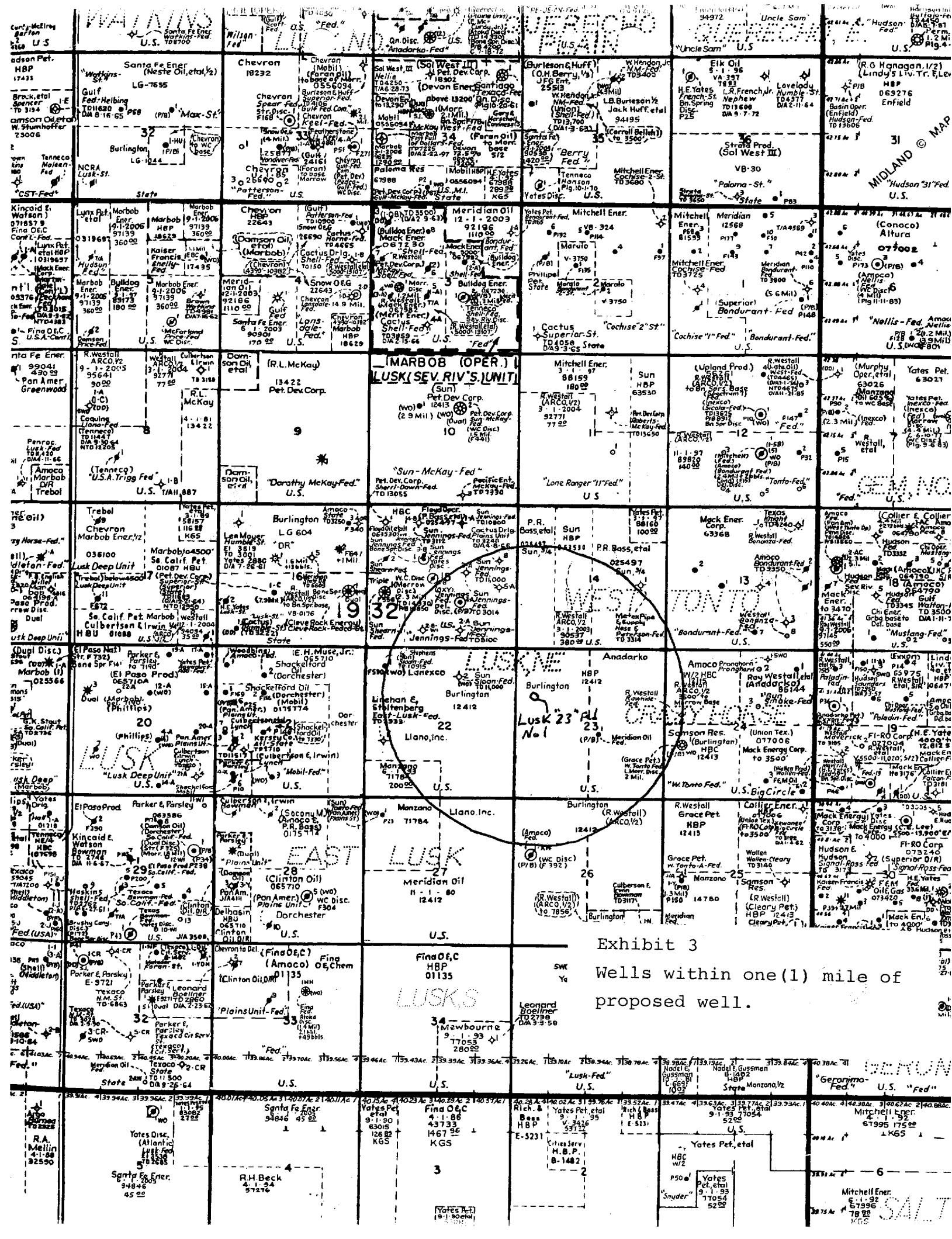
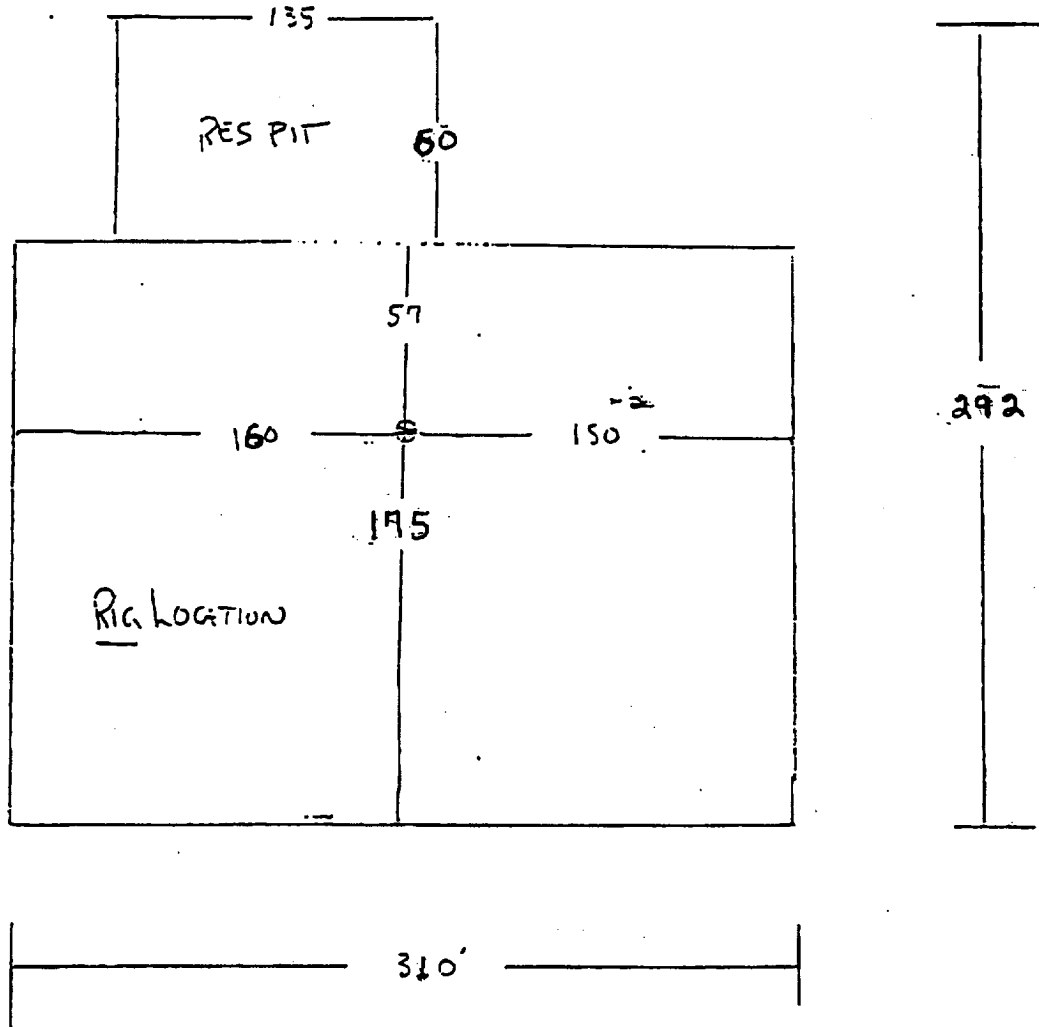


Exhibit 4

Lusk "23" Federal No.1

*AN*



### 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.:** NM12412

**Legal Description of Land:** Section 23, T-19-S, R-32-E, NMPM  
Lea Co., NM

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

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

**BLM Bond File No.:** NM2308 with endorsement to State of NM

**Authorized Signature:** Mike Francis  
Mike Francis

**Title:** Agent

**Date:** 9/21/01

# LOCATION VERIFICATION MAP

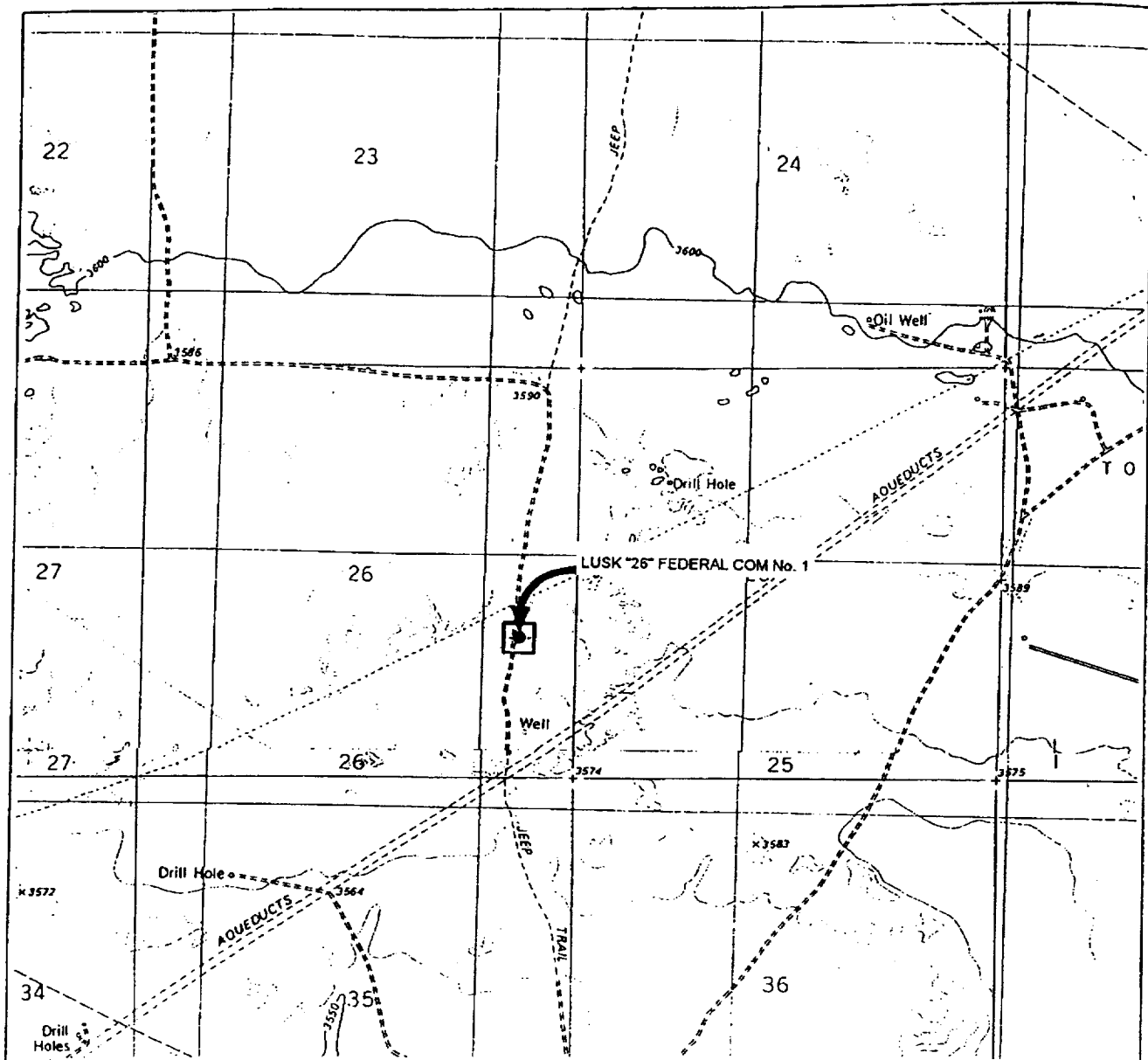


Exhibit 2

SCALE: 1" = 2000'  
WTC 46196

SEC. 26 TWP. 19-S RGE. 32-E

SURVEY N.M.P.M

COUNTY LEA STATE NM

DESCRIPTION 1832' FSL & 660' FEL

ELEVATION 3575'

OPERATOR EOG RESOURCES, INC.

LEASE LUSK 26 FEDERAL COM No. 1

USGS TOPO MAP LAGUNA GATUNA AND LAGUNA GATUNA, NW, NEW MEXICO.

CONTOUR INTERVAL 10'

**WEST TEXAS CONSULTANTS, INC.**

**ENGINEERS-PLANNERS-SURVEYORS**

**MIDLAND, TEXAS**

**915-685-3800**

128792001