

Form 3160-3  
(August 1999)

RECEIVED  
OCD - ARTESIA

N.M. Oil Cons. DIV-Dist. 2  
1301 W. Grand Avenue  
Artesia, NM 88210

clsp

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM9347B- 43478
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. 7377		7. If Unit or CA Agreement, Name and No. 29514
3a. Address P.O. Box 2267, Midland, TX 79702	3b. Phone No. (include area code) (915)686-3714	8. Lease Name and Well No. Chocolate Chip*19*Fed. Com. No.1
4. Location of Well (Report location clearly and in accordance with any State requirements.) UNIT M At surface 1262'fsl & 1113'fwh At proposed prod. Zone same UNDER Tuley Track, Morrow, North		9. API Well No. 30-015-32215
14. Distance in miles and direction from nearest town or post office*		10. Field and Pool, or Exploratory Sandybank Morrow
15. Distance from proposed* location to nearest property or lease line, ft. 1262' (Also to nearest drlg. Unit line, if any)		11. Sec., T., R., M., or Blk. And Survey or Area Sec.19 T-18-S; R-30-E
16. No. of Acres in lease 80		12. County or Parish Eddy Co
17. Spacing Unit dedicated to this well s/2 320		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed applied for, on this lease, ft. na		20. BLM/BIA Bond No. on file nm2308
21. Elevations (Show whether DF, KDB, RT, GL, etc) GL3472		23. Estimated duration 60 days
22. Approximate date work will start* 3/1/02		24. Attachments Section Controlled Water Right

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

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)
- Operator certification.
- 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 1/4/02
Title Agent		
Approved by (Signature) /s/ JOE G. LARA	Name (Printed/Typed) /s/ JOE G. LARA	Date FEB 21 2002
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)

APPROVAL FOR 1 YEAR

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

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

1 API Number		2 Pool Code		3 Pool Name Sand Tank Morrow		
4 Property Code		5 Property Name CHOCOLATE CHIP "19" FEDERAL COM			6 Well Number 1	
7 GRID No. 7377		8 Operator Name EOG RESOURCES INC.			9 Elevation 3472'	

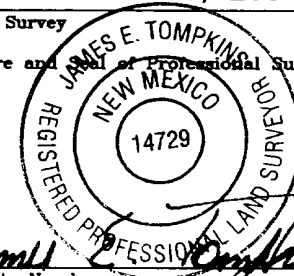
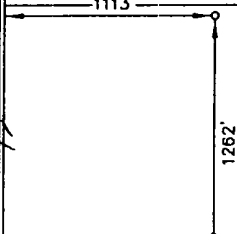
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	19	18	30		1262	SOUTH	1113'	WEST	EDDY

11 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
12 Dedicated Acres 320		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

16				17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  <u>Mike Francis</u> Signature <u>Mike Francis</u> Printed Name <u>Agent</u> Title <u>1/04/02</u> Date	
				18 SURVEYOR CERTIFICATION <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 best of my belief.</i>  DECEMBER 6, 2001 Date of Survey Signature and Seal of Professional Surveyor:  <u>James E. Tompkins</u> Certificate Number 14729	
					

## DRILLING PROGRAM

EOG RESOURCES, INC.  
Chocolate Chip "19" Federal Com No. 1  
1262'FSL&1113'FWL  
Section 19 T18S,R30E Eddy County NM

### 1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

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

Yates	1000'
Queen	1700'
Bone Springs	4200'
Wolfcamp	9100'
Strawn	10400'
Atoka	10700'
Morrow	11200'

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

Upper Permian Sands	Above 250'	Fresh Water
Strawn	10400'	Oil
Atoka	10700'	Gas
Morrow	11200'	Gas

### 4. CASING PROGRAM

Hole Size	Interval	OD Casing	Weight Grade Jt. Cond. Type
14 3/4"	0-450'	11 3/4"	42# H-40 ST&C
11"	0-3500'	8 5/8"	32# J-55 LT&C
7 7/8"	0-11200'	5 1/2"	17#S95/P110 LTC

#### 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.**  
**Chocolate Chip "19" Federal Com No. 1**  
**1262'FSL&1113'FWL**  
**Section 19 T18S,R30E Eddy 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>
0-450'	Fresh Water (Spud Mud)	8.5	40-45	N.C.
450''-3500'	Brine Water	10.0	30	N.C.
3500'- 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.
- (C) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 5000' to TD.

## **DRILLING PROGRAM**

### **EOG RESOURCES, INC.**

**Chocolate Chip "19" Federal Com No. 1  
1262'FSL&1113'FWL  
Section 19 T18S,R30E Eddy County NM**

#### **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.**  
**Chocolate Chip "19" Federal Com No. 1**  
**1262'FSL&1113'FWL**  
**Section 19 T18S,R30E Eddy 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:**

4190.2' of new road is required. Exhibit 2a; 2b

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.

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

## **DRILLING PROGRAM**

### **EOG RESOURCES, INC.**

**Chocolate Chip "19" Federal Com No. 1**

**1262'FSL&1113'FWL**

**Section 19 T18S,R30E Eddy County NM**

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**

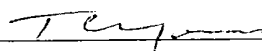

**EOG RESOURCES, INC.**  
**Chocolate Chip "19" Federal Com No. 1**  
**1262'FSL&1113'FWL**  
**Section 19 T18S,R30E Eddy County NM**

### **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: 1/03/02



## **DRILLING PROGRAM**

### **EOG RESOURCES, INC.**

**Chocolate Chip "19" Federal Com No. 1**

**1262'FSL&1113'FWL**

**Section 19 T18S,R30E Eddy 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.

Chocolate Chip "19" Fed Com No.1

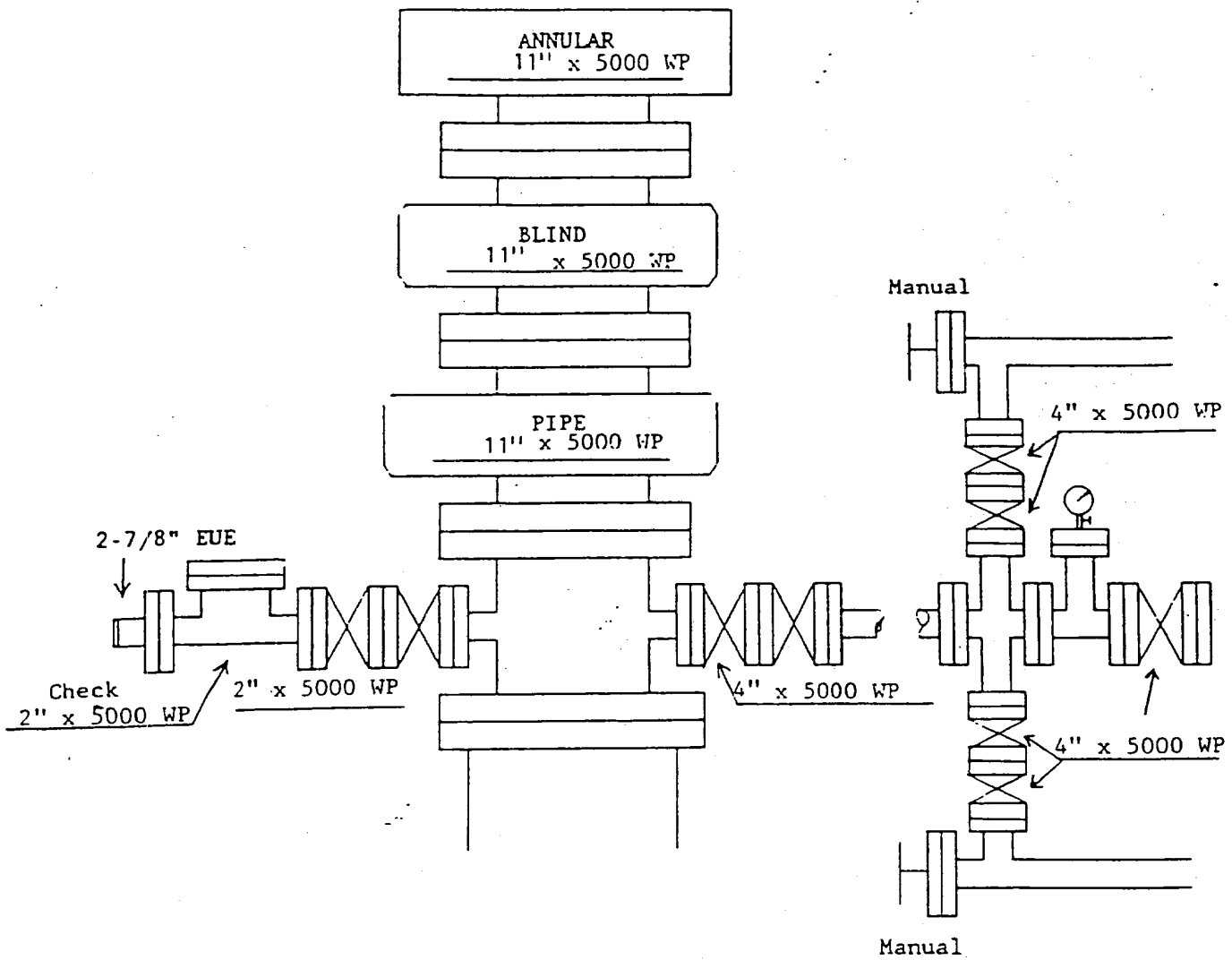
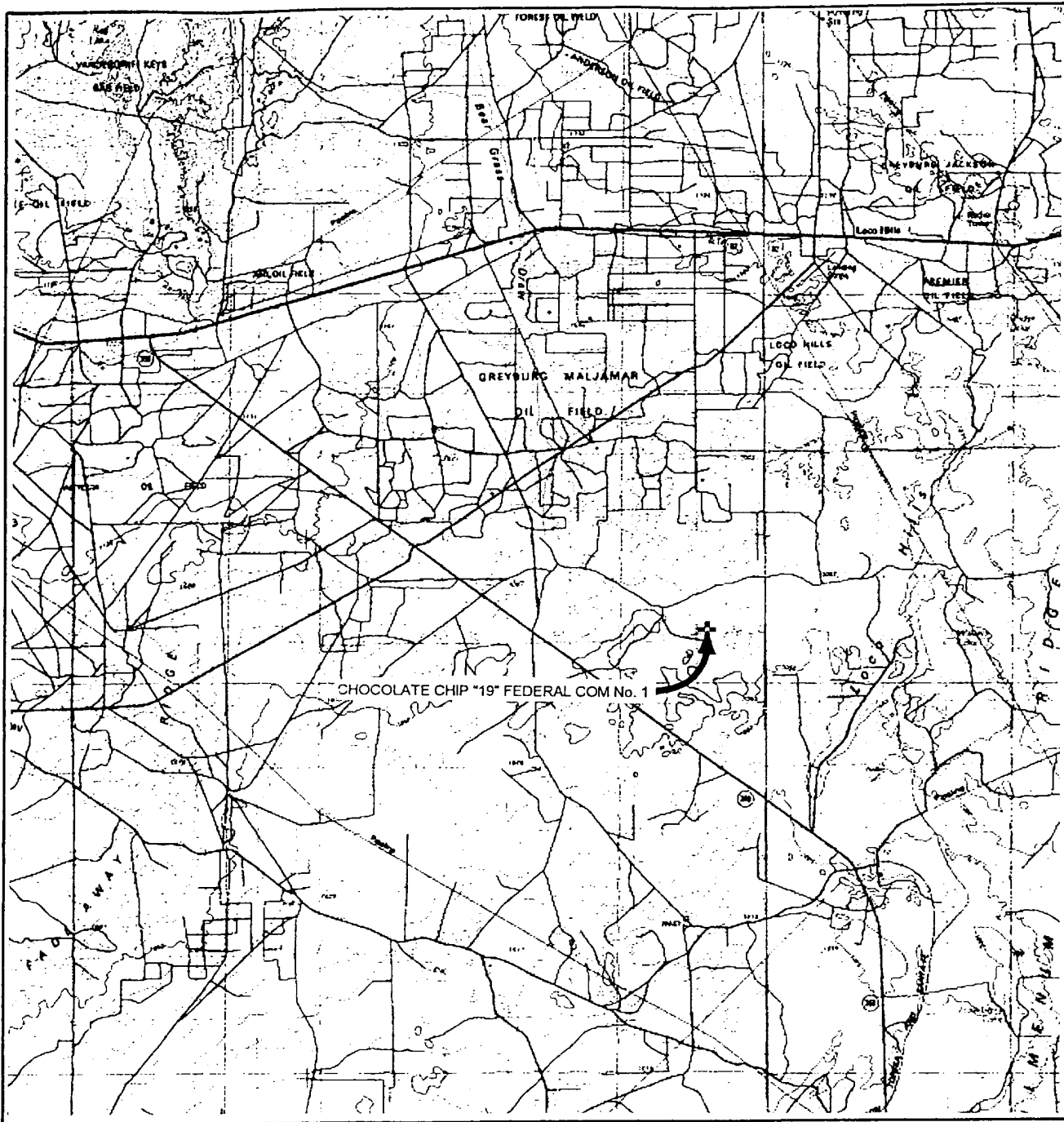


Exhibit 1

# VICINITY MAP



SCALE: 1" = 3 MILES

Exhibit 2

WTC 46436

SEC. 19 TWP. 18-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 1262' FSL & 1113' FWL

ELEVATION 3472'

OPERATOR EOG RESOURCES, INC.

LEASE CHOCOLATE CHIP '19' FEDERAL COM No. 1

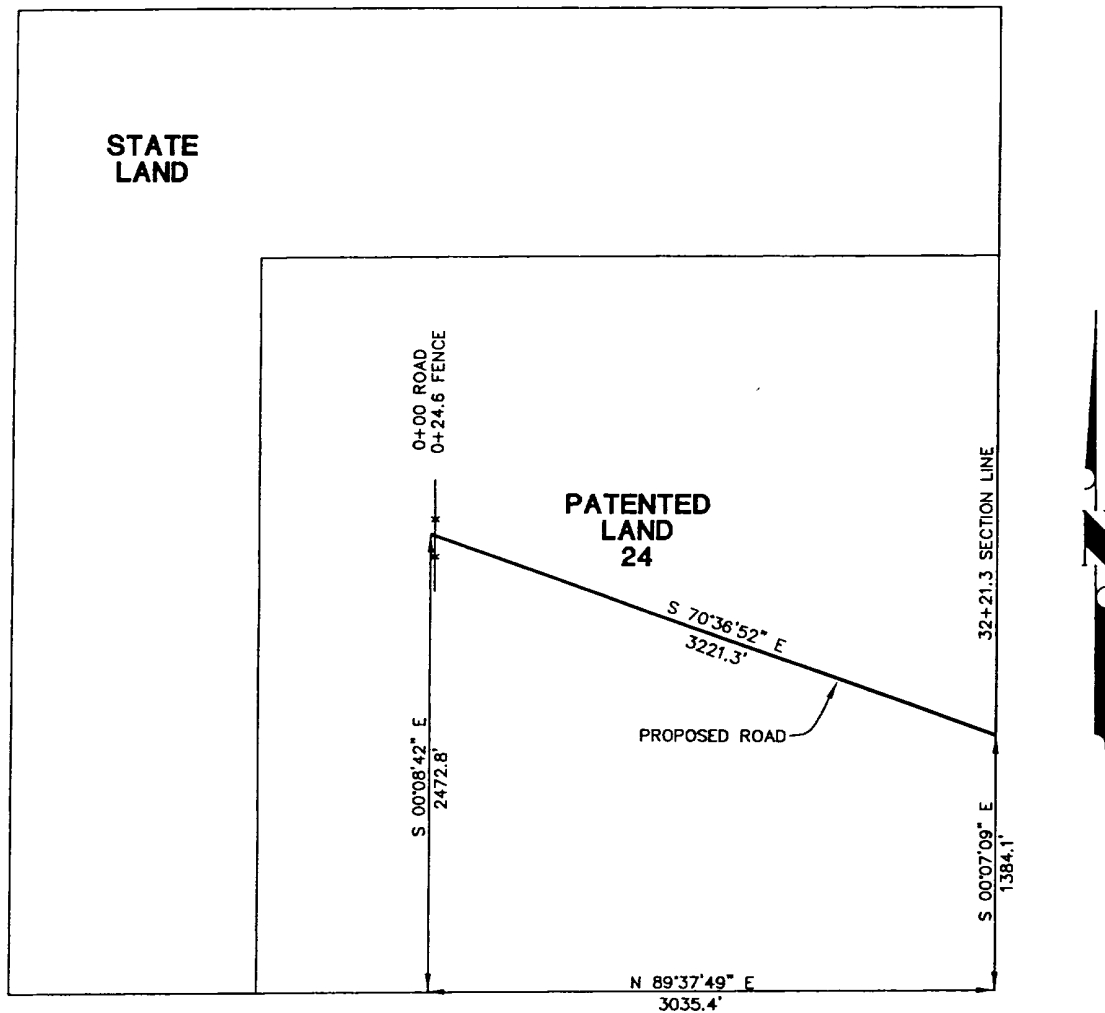
**WEST TEXAS CONSULTANTS, INC.**

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

SECTION 24, TOWNSHIP 18 SOUTH, RANGE 29 EAST, N.M.P.M.  
EDDY NEW MEXICO



CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

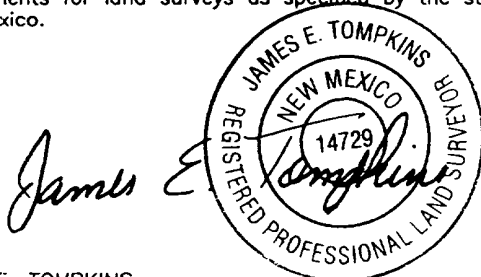
BEGINNING at a point in an existing road, from which point the southeast corner of Section 24, T-18-S,R-29-E, N.M.P.M., Eddy County, New Mexico, bears S 00° 08' 42" E, 2472.8 feet and N 89° 37' 49" E, 3035.4 feet;

THENCE S 70° 36' 52" E, with the centerline of proposed road, 3221.3 feet to a point in the east line of said Section 24, for the end of this road, from which point the southeast corner of said Section 24 bears S 00° 07' 09" E, 1384.1 feet.

Exhibit 2a

PROPOSED ROAD TO SERVE  
CHOCOLATE CHIP "19" FEDERAL COM No. 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  
Registered Professional Surveyor  
New Mexico Certificate No. 14729

EOG RESOURCES INC.

3221.3 feet of proposed road in  
Section 24, T-18-S, R-29-E, N.M.P.M.,  
Eddy County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 12-05-01

Date: 12-06-01

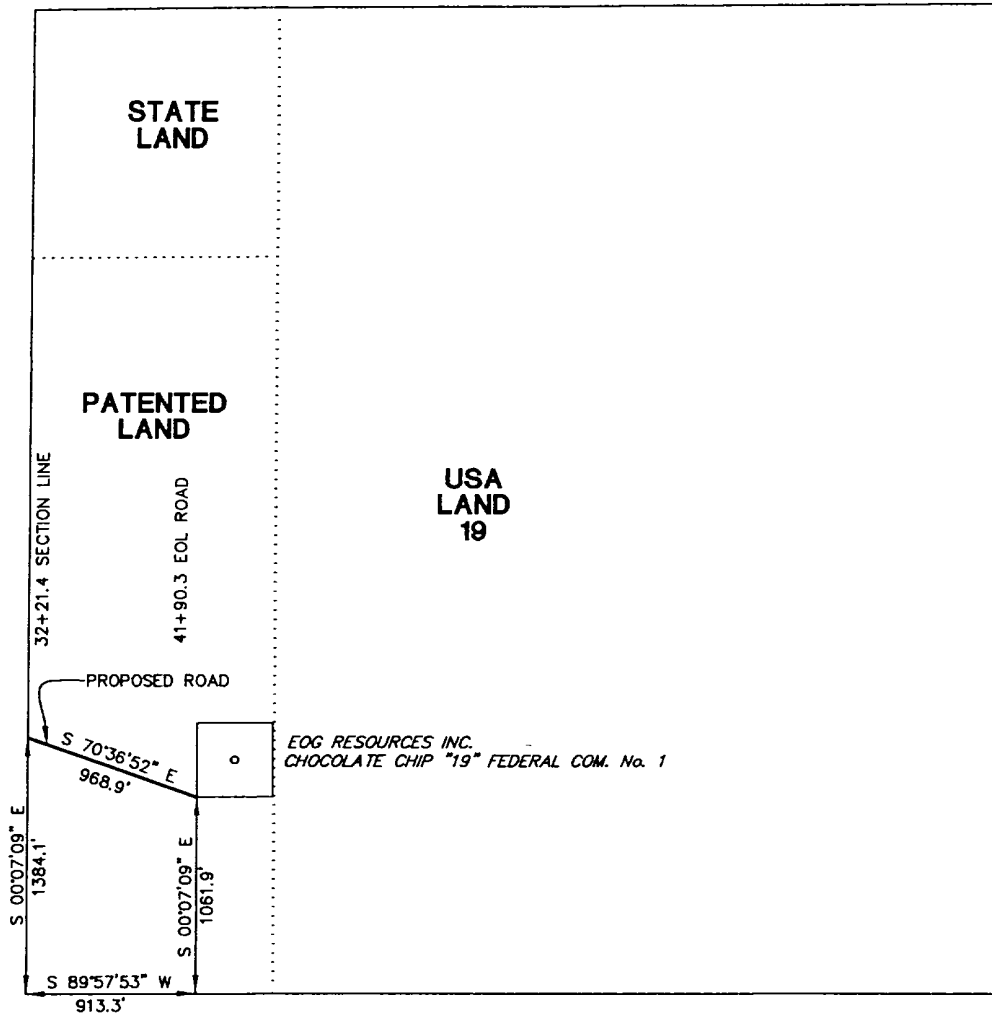
Scale: 1"=1000'

WTC No.: 46436

Drawn By: JRSII

Sheet 1 of 2

SECTION 19, TOWNSHIP 18 SOUTH, RANGE 30 EAST, N.M.P.M.  
EDDY NEW MEXICO



CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

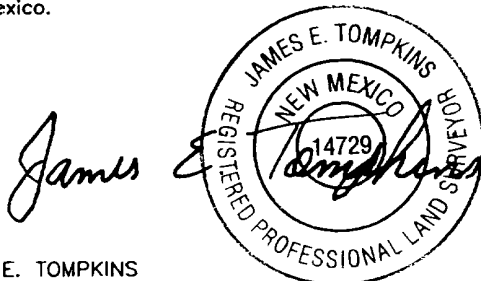
BEGINNING at a point in the west line of Section 19, T-18-S, R-30-E, N.M.P.M., Eddy County, New Mexico, from which point the southwest corner of said Section 19 bears S 00° 07' 09" E, 1384.1 feet;

THENCE S 70° 36' 52" E, with the centerline of proposed road, 968.9 feet to a point in the southwest corner of a well pad for EOG Resources, Inc. CHOCOLATE CHIP "19" FEDERAL COM No. 1, for the end of this road, from which point the southwest corner of said Section 19 bears S 00° 07' 09" E, 1061.9 feet and S 89° 57' 53" W, 913.3 feet.

Exhibit 2b

PROPOSED ROAD TO SERVE  
CHOCOLATE CHIP "19" FEDERAL COM No. 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  
Registered Professional Surveyor  
New Mexico Certificate No. 14729

EOG RESOURCES INC.

968.9 feet of proposed road in  
Section 19, T-18-S, R-30-E, N.M.P.M.,  
Eddy County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 12-06-01

Date: 12-06-01

Scale: 1"=1000'

WTC No.: 46436

Drawn By: JRSII

Sheet 2 of 2

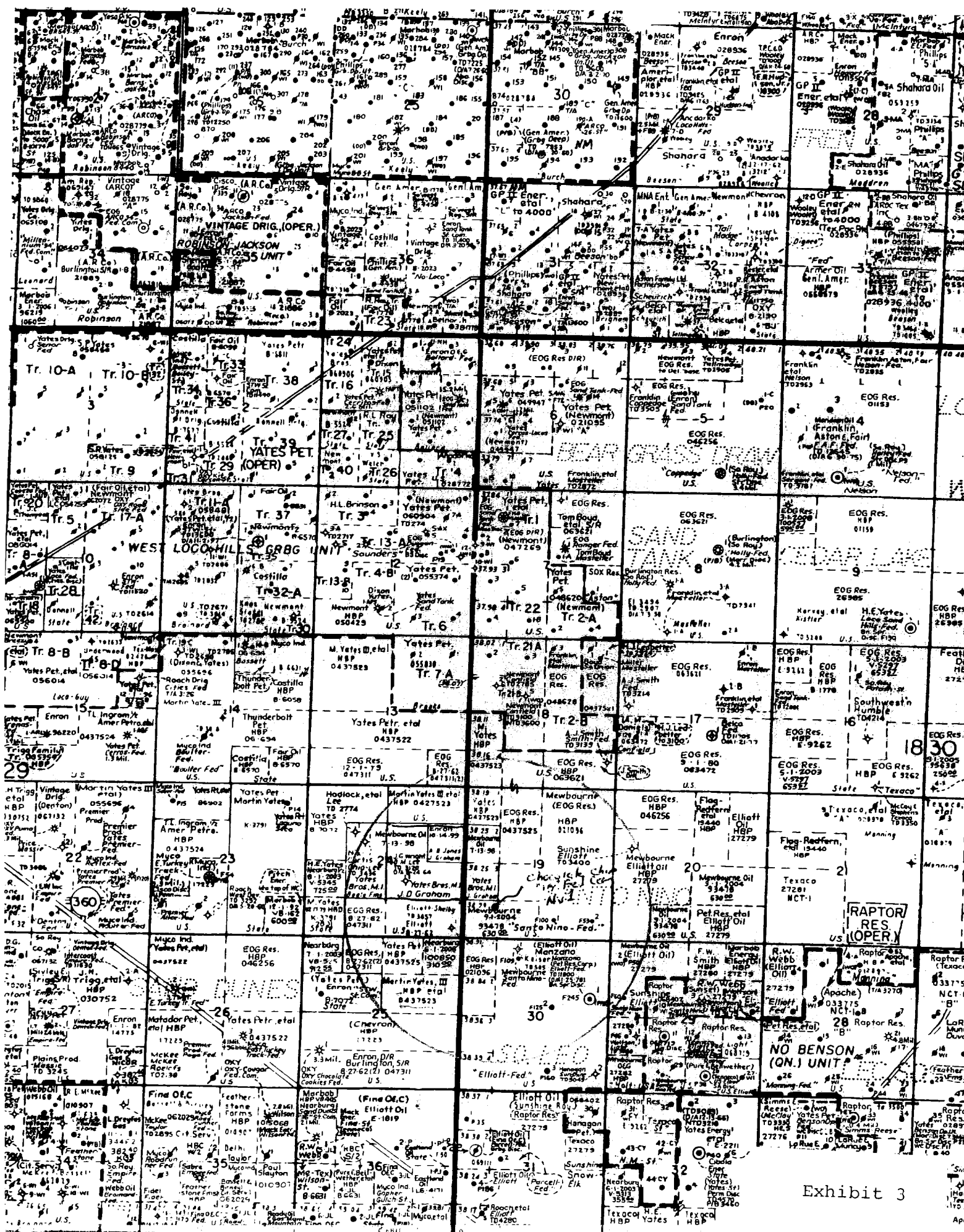
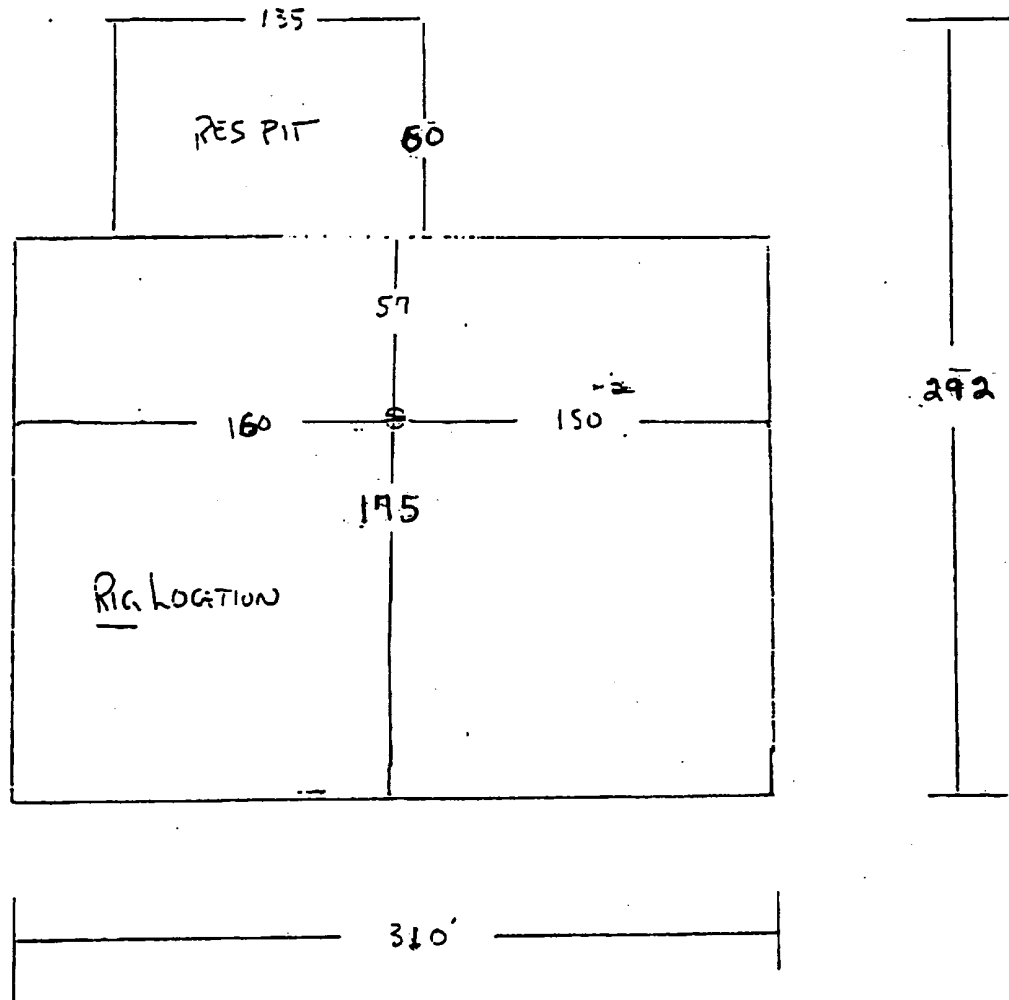


Exhibit 4



**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:

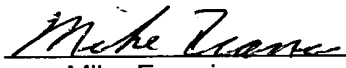
**Lease No.:** NMNM 9347 B

**Legal Description of Land:** S/2 SW/4 Sec. 19 T-18-S; R-30-E, NMPM  
EddyCo., 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

**Title:** Agent

**Date** 1/04/02\_