Maria, M. J. Rose Form 3160-3 FORM APPROVED (August 1999) OMB No. 1004-0136 Expires November 30, 2000 **UNITED STATES** 5. Lease Serial No. **DEPARTMENT OF THE INTERIOR** NM81663 8 (633 **BUREAU OF LAND MANGEMENT** 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. 8. Lease Name and Well No. Gas Well Other 1b. Type of Well: Single Zone Red Tank "23" Fed Com No. 1 Name of Operator API Well No. EOG Resources, Inc Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory P.O. Box 2267, Midland, TX 79702 (915)686-3714 Jed hank Bootleg Ridge (Morrow) & a.s. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T., R., M., or Blk. And Survey or Area At surface 1,980' FSL & 1,830' FEL (Unit Letter J) Sec. 23, T22S, R32E At proposed prod. Zone Same Distance in miles and direction from nearest town or post office\* 12. County or Parish 13. State NM Lea 15. Distance from proposed\* 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. 1830 640 S/2 320 (Also to nearest drlg. Unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. on file to nearest well, drilling, completed

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

1. Well plat certified by a registered surveyor.

applied for, on this lease, ft.

GL3722

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

- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest Sytem 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)

23. Estimated duration

30 days

RESCUE

- Operator certification.
- 6. Such other site specific information and/or plans as may be required by the

25. Signature Name (Printed/Typed) it Trans Date Mike Francis 10/3/00 Title Agent Name (Printed/Typed) S/LARRY D. BRAY Approved by (Signature)

15,400

24. Attachments

22. Approximate date work will start\*

12/1/2000

Assistant Field Manager, Title

ROSWELL FIELD OFFICE arate i the applicant holds legal or equitable title to those rightes in the subject lease which would entitle the applicant to conduct Application approval does not warrant or certify operations theron.

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 jurisidiction

(Instructions on reverse)

OPER OGRID NO. 737PROPERTY NO. 2689 POOL CODE 83730 EF. DATE 11-15-6 APINO.30-02.5

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

State of New Mexico Energy, Minerals & Natural Resources Departmen.

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

PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Ked Tank; Pool Bootleg Ridge (Morrow) 730 \*Property Name Well Number RED TANK "23" FEDERAL COM \*Operator Name \*Elevation 7377 EOG RESOURCES INC. 3722 Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line East/West line Feet from the County 23 22 32 1980 SOUTH 1830 **EAST** LEA Bottom Hole Location If Different From Surface UL or lot no. Section Lot Idn Township Range Feet from the North/South line Feet from the East/West line County Dedicated Acres Joint or Infill "Consolidation Code "Order No. 320 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 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. nep Tran Mike Francis Printed Name <u>Agent</u> Title 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat EOG RESOURCES, INC. RED TANK "23" FEDERAL COM No. 1 ELEV.=3722' was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and 1830 correct to best of my belief. Y=500968.32 X=713341.09 SEPTEM<u>BER</u> 28, 2000 LAT.=32°22'31.38" ES E. TOMPK LONG.=103'38'32.29" Date of Surve Signature Surveyor: POFESSIONAL Certificate Number 14729

EOG RESOURCES, INC.
RED TANK "23" FED COM NO. 1
1,980' FSL & 1,830' FEL
SEC. 23, T22S, R32E
LEA COUNTY, NM

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

Permian

# 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	900'
Delaware	4870'
Bone Spring	8480'
Wolfcamp	11925'
Strawn	13610'
Morrow "B-3" Ss	14550'
Morrow "C" Ss	14700'
Lower Morrow	15100'

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

Triassic Sands	Above 680'	Fresh Water
Delaware	4900'	Oil
Bone Spring	8850'	Oil
Morrow "B-3" Ss	14550'	Gas
Morrow "C" Ss	14700'	Gas

#### 4. CASING PROGRAM

Hole Size	Interval	OD Casing	Weight	Grade Jt	. Cond. Type
17-1/2"	0- <del>750</del> ° <b>975</b>	13 3/8"	48#	J	LT&C WITNESS
12-1/4"	0-4000'	9 5/8"	40#		LT&C
	4000-5100'	9-5/8"	40#	HCK	LT&C
8 3/4"	0-12200'	7"	26#	P/S	LT&C
6 1/8"	12000-15400'	5" liner	18#	P	FL45

## **Cementing Program:**

13 3/8" Surface Casing: Cement to 750' with 415 sx Prem Plus, 3%

Econolite (Extender), 2% Calcium Chloride, 0.25#/sx Flocele, 150 sx Prem Plus, 2% Calcium

Chloride

9 5/8" Intermediate: Cement to 5100' with 1100 sx Interfill C, .25#/sx

flocele, 250 sx Premium Plus, 2% Calcium Chloride

7" 2<sup>nd</sup> Intermediate: Cement to 12200 w/650 sx Premium, 3% Econolite.

5#/sx Salt, .25#/sx Flocele, .2% HR-5, 250 sx Prem 50/50 Poz, 2% Halliburton-Gel First 2%, 0.5%

Halad-322. This is designed to bring TOC to 5100'.

EOG RESOURCES, INC.
RED TANK "23" FED COM NO. 1
1,980' FSL & 1,830' FEL
SEC. 23, T22S, R32E
LEA COUNTY, NM

#### 4. CASING PROGRAM CONTINUED

5" Production Liner:

300 sx Premium 50/50 Poz, 0.3% Halad-344, 0.3%

Halad-322, 2#/sx Silicalite, .3% HR-5 This designed to bring TOC to 11800 +/-.

## 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 to 600 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/1000 psi and the annular to 3500/1000-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 (10,000 psi) from 12,200' to TD. Before drilling below 2<sup>nd</sup> Intermediate ram type BOP and accessory equipment will be tested to 10,000/1,000 psi and the annulus to 5000/1000. This equipment will be used from ±12,200' 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:

		WI VISCOSI	ty Waterl	OSS
<u>Depth</u>	Type	<u>(PPG)</u>	(sec)	<u>(cc)</u>
0-750'	Fresh Water (spud)	8.5	40-45	N.C.
750'-5200'	Brine Water	10.0	30	N.C.
5200'-12200'	Fresh Water	8.4	28	N.C.
12200'-15400'	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.

EOG RESOURCES, INC. RED TANK "23" FED COM NO. 1 1,980' FSL & 1,830' FEL SEC. 23, T22S, R32E LEA COUNTY, NM

## 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.

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

Electric logging will consist of GR-Dual Induction Focused and GR-Compensated Density-Neutron from 5,000' to 12,200' and 12,200' to TD with a GR-Compensated Neutron run from intermediate casing to surface and optional Sonic from TD to 2<sup>nd</sup> 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 9500 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 two months. 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.

EOG RESOURCES, INC. RED TANK "23" FED COM NO. 1 1,980' FSL & 1,830' FEL SEC. 23, T22S, R32E 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:

0' of new road is required

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

EOG RESOURCES, INC. RED TANK "23" FED COM NO. 1 1,980' FSL & 1,830' FEL SEC. 23, T22S, R32E 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.

EOG RESOURCES, INC.
RED TANK "23" FED COM NO. 1
1,980' FSL & 1,830' FEL
SEC. 23, T22S, R32E
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.

Jeff Gordon

Drilling Engineer

Date: 13・3・2 C

EOG RESOURCES, INC. RED TANK "23" FED COM NO. 1 1,980' FSL & 1,830' FEL SEC. 23, T22S, R32E 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 and 10,000 psi WP 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. Exhibit 1 and 10,000 psi WP minimum Exhibit 2
- 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. Upper and Lower Kelly cock, 10,000 psi WP.
- 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.

# Red Tank "23" Fed Com No. 1

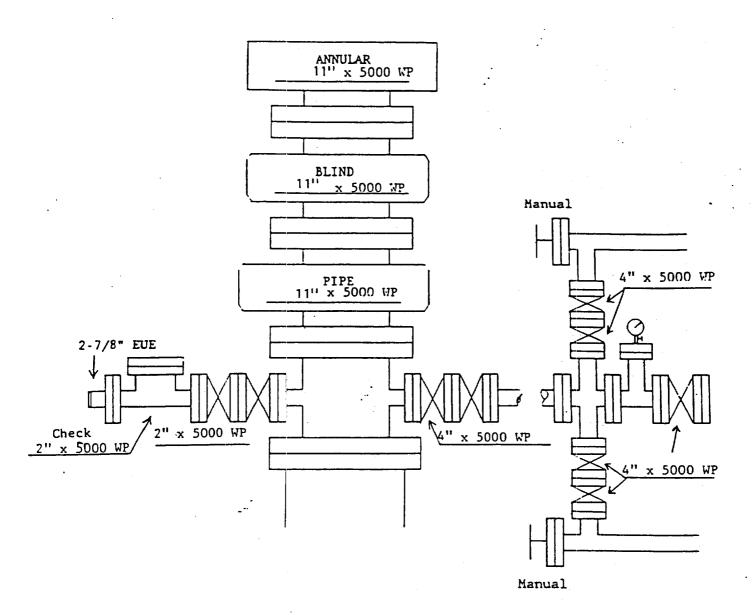


Exhibit 1

# Red Tank "23" Fed Com No. 1

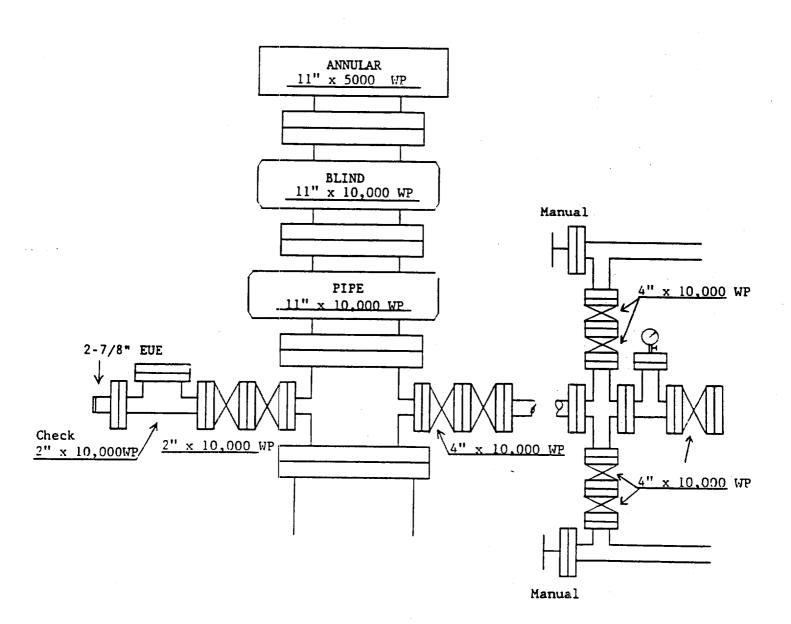


Exhibit 2

# LOCATION VERIFICATION MAP

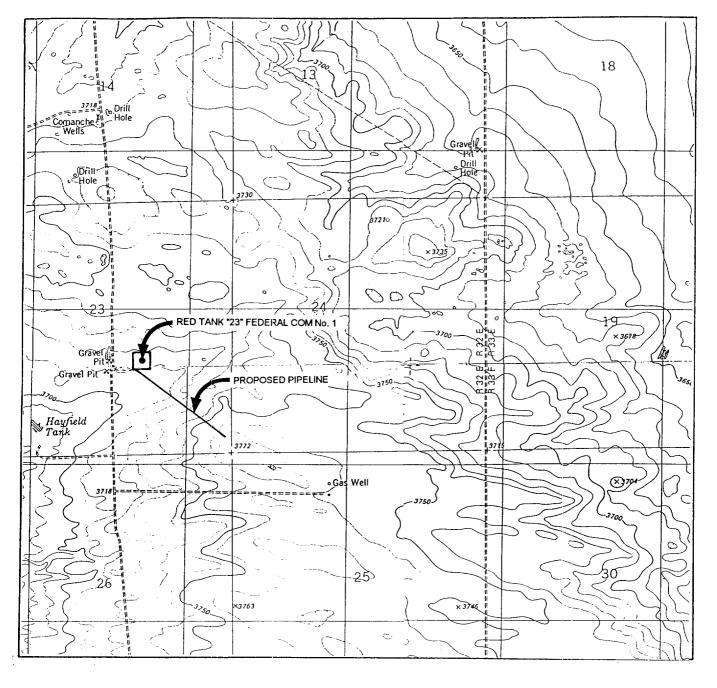


Exhibit 3

SCALE: 1" = 2000'

WTC 46028

SEC. 23 TWP. 22-S RGE. 32-E

SURVEY N.M.P.M

COUNTY LEA STATE NM

DESCRIPTION 1980' FSL & 1830' FEL

ELEVATION 3722'

OPERATOR EOG RESOURCES, INC.

LEASE RED TANK "23" FEDERAL COM No. 1

USGS TOPO MAP BOOTLEG RIDGE AND THE DIVIDE, NEW MEXICO.

CONTOUR INTERVAL 10'

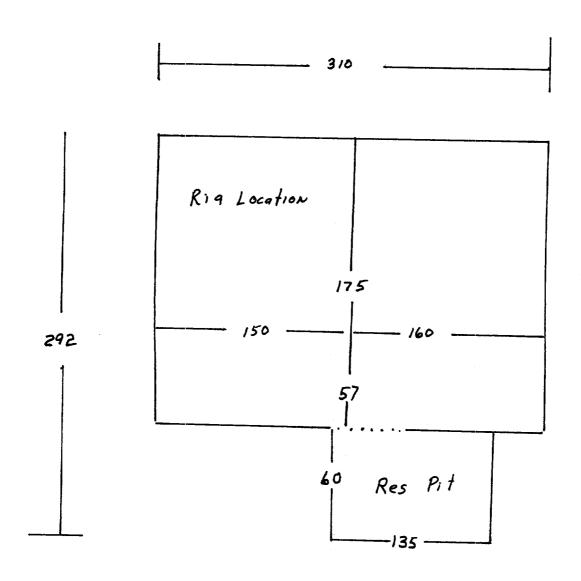
WEST TEXAS CONSULTANTS, INC.

**ENGINEERS-PLANNERS-SURVEYORS** 

MIDLAND, TEXAS

915-685-3800

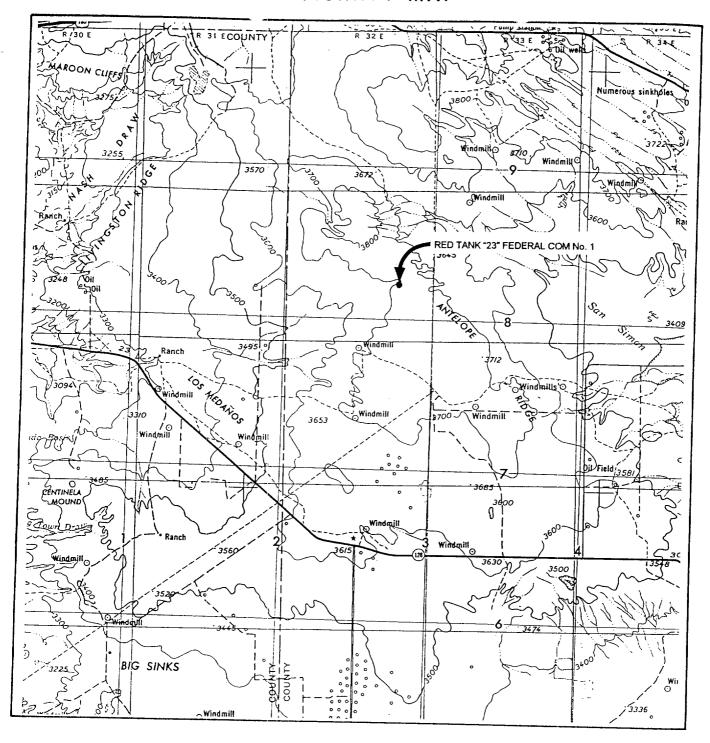
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# **Statement Accepting Responsibility For Operations**

Operator Name: Street or Box: City, State: Zip Code:	EOG Resources, Inc. P.O. Box 2267 Midland, TX 79702			
The undersigned acconcerning operations below:	epts all applicable terms, conditions, stipulations, and restrictions conducted on the leased land or portion thereof, as described			
Lease No.:	NM81663			
Legal Description of Land: Section 23, T22S, R32E, 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: Mehe Zane			
	Title: Agent			
	Date: 10/3/00			

# VICINITY MAP



SCALE: 1" = 4 MILES

WTC 46028

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

 SURVEY
 N.M.P.M.

 COUNTY
 LEA
 STATE
 NM

 DESCRIPTION
 1980' FSL & 1830' FEL

 ELEVATION
 3722'

 OPERATOR
 EOG RESOURCES, INC.

 LEASE
 RED TANK "23" FEDERAL COM No. 1

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800