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

Form 3160-3 (August 1999)	finds manage and a second		OMB N	APPROVED o. 1004-0136 vember 30, 2000
UNITED STATES			5. Lease Serial No.	
DEPARTMENT OF THE IN	TERIOR		NMNM 021096	
BUREAU OF LAND MANG	SEMENT		6. If Indian, Allottee or	Tribe Name
APPLICATION FOR PERMIT TO D	PRILL OR REENTER			
1a. Type of Work: X DRILL	ENTER		7. If Unit or CA Agreem	nent, Name and No.
1b. Type of Well: X Oil Well Gas Well Other	Single Zone Multip	le Zone	8. Lease Name and We Sand 12 Federal No.1	ell No.
2. Name of Operator  EOG Resources, Inc.			9. API Well No. 30-0/5-33	3488
3a. Address	3b. Phone No. (include area d	ode)	10. Field and Pool, or E	
P.O. Box 2267, Midland, TX 79702	(432))686-3714	,	Shugart West Bone Sprin	
4. Location of Well (Report location clearly and in accordance	.1	")	11. Sec., T., R., M., or B	
At surface 1700' FNL&330'FEL (U/LH) S  At proposed prod. Zone same as surface	ECRETARY'S PO	<b>SASH</b>	Sec 12 T-18-S;R-30-E	
14. Distance in miles and direction from nearest town or post	office*	· · · · · · · · · · · · · · · · · · ·	12. County or Parish	13. State
14. Distance in finites and direction from fleatest town or posi-	· Omoc		Eddy Co.	NM
15. Distance from proposed* 330 location to nearest property or lease line, ft. (Also to nearest drlg. Unit line, if any) 330	16. No. of Acres in lease 760	17. Spacin 40ac.SE/4N	g Unit dedicated to this w E/4	vell 28 29 30 37
to nearest well, drilling, completed	19. Proposed Depth 8500		A Bond No. on file	3 NAV 2004
applied for, on this lease, ft.  21. Elevations (Show whether DF, KDB, RT, GL, etc)	22. Approximate date work wil	NM 2308	23. Estimated duration	RECEIVED
GL 3551	6/1/2004	- start	20 days	OCD - ARTESIA
	24. Attachments			188
<ol> <li>The following completed in accordance with the requirements of Or</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Sytem)</li> <li>SUPO shall be filed with the appropriate Forest Service Office)</li> </ol>	4. Bond to cover Item 20 above 5. Operator certifications in the second	the operation lication. e specific info	ed to this form: s unless covered by an existence rmation and/or plans as ma	
25. Signature	Name (Printed/Typed)		Date	
- MARILANCES	Mike Francis	·	5/3/200	4
Title				
Agent	N (D.) (T			
Approved by (Signature)  151 KON DUNZON	Name (Printed/Typed)	DUN	Date 6/	122/04
STATE DIRECTOR	Office NM S	TATÉ O	FFICE	
Application approval does not warrant or certify the applicant holds legal or ecoperations theron.	t quitable title to those rightes in the subj		שיי יאיי	_
Conditions of approval, if any, are attached				<u>' '                                  </u>
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crim States any false, fictitious or fraudulent statements or representations as to ar		y to make to an	y department or agency of the t	United
*(Instructions on reverse)	factor and activity to		,	

Capitan Controlled Water Basin

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

#### State of New Mexico

Form C-102

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

Energy, Minerals, and Natural Resources Department

Revised August 15, 2000 Submit to Appropriate District Office

State Lease - 4 copies

OIL CONSERVATION DIVISION

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 1220 South St. Francis Dr.

Fee Lease - 3 copies

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, New Mexico 87505

AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name	
		Shugart West Bone Spring	
<sup>4</sup> Property Code		5 Property Name	<sup>6</sup> Well Number
	SAND	"12" FEDERAL	1
<sup>7</sup> OGRID №.		8 Operator Name	5 Elevation
7-7-377	EOG 1	RESOURCES, INC.	3551'

<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	1
H.	12	18 SOUTH	30 EAST, N.M.P.M.		1700'	NORTH	330'	EAST	EDDY	l

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

			Dottom Hole De	Cution t	i Dilici che i	I OIII DUI IUCC			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acre	[13]	oint or Infill	14 Consolidation Code	15 Order N	<u> </u>	<u> </u>			1
	`   <i>"</i>	omr or min	Consolidation Code	Order IV	v.				
40									

#### NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD LINIT HAS REEN APPROVED BY THE DIVISION

		IIIS DI V	
16			<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.
	NAD 27 NM E ZONE X = 627847	330'	Printed Name Mike Francis Title Agent Date 5/3/2004  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 the best of my belief.  APRIL 20, 2004  Date of Survey  Signature and Seal of Professional Surveyor
	         		Certificite Number V. L. BEZNER R.P.S. #7920  JOB #94548 / 97NW / E.U.O.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

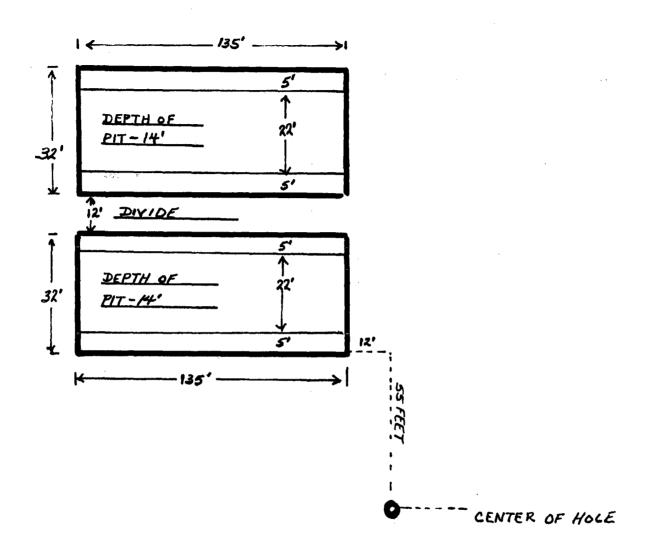
For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144 March 12, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes \(\sigma\) No \(\overline{\o

Type of action: Registration of a pit	or below-grade tank 🛛 Closure of a pit or below-	grade tank 🔲	
		mi	ke francise resources.com
	Telephone: 432 686-3714	e-mail address:	
Address: P.O. Box 2267 Midland Texas	79702	100 200	•
Facility of well name:API#:API#:	U/L or Qu/Qu11Sec_1 21		* · · · ·
County: Eddy Latitude Longitude	NAD: 1927 🗌 1983 🔲 Surface	Owner Federal   Stat	e 🗌 Private 🔲 Indian 🔲
		<u> </u>	
<u>Pit</u>	Below-grade tank		
Type: Drilling 🗖 Production 🗌 Disposal 🔲	Volume:bbl Type of fluid:		<del>_</del> .
Workover    Emergency	Construction material:		
Lined 🔀 Unlined 🔲	Double-walled, with leak detection? Yes If	not, explain why not.	
Liner type: Synthetic Marchaess 12 mil Clay Volume		· · · · · · · · · · · · · · · · · · ·	
bbl			
<del></del>	Less than 50 feet	(20 points)	
Depth to ground water (vertical distance from bottom of pit to seasonal high	50 feet or more, but less than 100 feet	(10 points)	
water elevation of ground water.)	100 feet or more	( 0 points)	
	, , , , , , , , , , , , , , , , , , ,	( o pointo)	·
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)	•
water source, or less than 1000 feet from all other water sources.)	No	( 0 points)	
			RECEIVED
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)	
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)	JUN 0 2 2004
in garden denotes, and per climer and opinional waste denoted.	1000 feet or more	( 0 points)	BEB-ARTESIA
		<del></del>	
	Ranking Score (Total Points)		
Test to the state of the state			<del></del>
If this is a pit closure: (1) attach a diagram of the facility showing the pit's		•	
onsite offsite If offsite, name of facility			
date. (4) Groundwater encountered: No 🗌 Yes 🔲 If yes, show depth below	w ground surfaceft. and attach sam	ple results. (5) Attach s	oil sample results and a
diagram of sample locations and excavations.			
I hereby certify that the information above is true and complete to the best of i	my knowledge and belief. I further certify that th	e above-described nit	or below-grade tank has
been/will be constructed or closed according to NMOCD guidelines Z, a			
Date: <u>6/01/2004</u>	en 17.		
Printed Name/Title Nike Francis Agent	Signature Mike Man	<u> </u>	
Your certification and NMOCD approval of this application/closure does not r			
otherwise endanger public health or the environment. Nor does it relieve the or regulations.	operator of its responsibility for compliance with an	y other federal, state, or	local laws and/or
Approval:	·		
Date: 6/2/04	( A 10 11		
Printed Name/Title Mike Brackese Compliand Hicer	Signature W. Smile		ļ
<i>l</i> - <i>/</i>			



## EOG RESOURCES, INC. Sand "12" Federal No.1

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

Permian

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

Rustler	500'
San Andres	3400'
!st Bone Spring	7600'
2 <sup>nd</sup> Bone Spring	8150
TD	8500

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

Above 250'	Fresh Water
3000'	Oil
7600	Oil
8150	Oil
	3000' 7600

### **CASING PROGRAM**

Hole Size	<u>Interval</u>	OD Casing	Weight Grade Jt. Cond. Type
14 3/4	0-500'	11 3/4"	42# H-40 ST&C
11"	0-2500'	8 5/8"	32# J-55 LT&C
7 7/8'	0-8,500'	5 1/2'	17# N80/S95 LT&C

### Cementing Program:

	11 3/4"	Surface Casing:	Cement to surface with 100 sx Prem Plus, 3%
--	---------	-----------------	---

Econolite, 2% Calcium Chloride, 0.25#/sx Flocele,

215 sx Prem Plus, 2% Calcium Chloride

8 5/8" Intermediate: Cement to surface with 500 sx Interfill C, .25#/sx

flocele, 230 sx Premium Plus, 2% Calcium Chloride

5 ½" Production: Cement w/930 sx Premium, 3% Econolite, 5#/sx

Salt (3%), 0.2% HR5, .25#/sk Flocele, 485sx 50/50 Poz with retarders.. This is designed to bring TOC

to 2000'.

### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

## EOG RESOURCES, INC. Sand "12" Federal No.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-psig 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:

		Wt Viscosit	ty Waterle	OSS
<u>Depth</u>	<u>Type</u>	(PPG)	(sec)	(cc)
0-500'	Fresh Water	8.5	40-45	N.C.
500'-2500'	Brine Water	10.0	30	N.C.
2500'- TD	Cut Brine + Polymer/KCI	2.8 - 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.

## EOG RESOURCES, INC. Sand "12" Federal No.1

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.

## EOG RESOURCES, INC. Sand "12" Federal No.1

#### 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:

1327' of new road is required. Exhibit #2a.

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:

## EOG RESOURCES, INC. Sand "12" Federal No.1

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 well pad 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.

## EOG RESOURCES, INC. Sand "12" Federal No.1

#### 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.

Craig Young
Drilling Engineer

Date 5/3/2004

## EOG RESOURCES, INC. Sand "12" Federal No.1

#### **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.

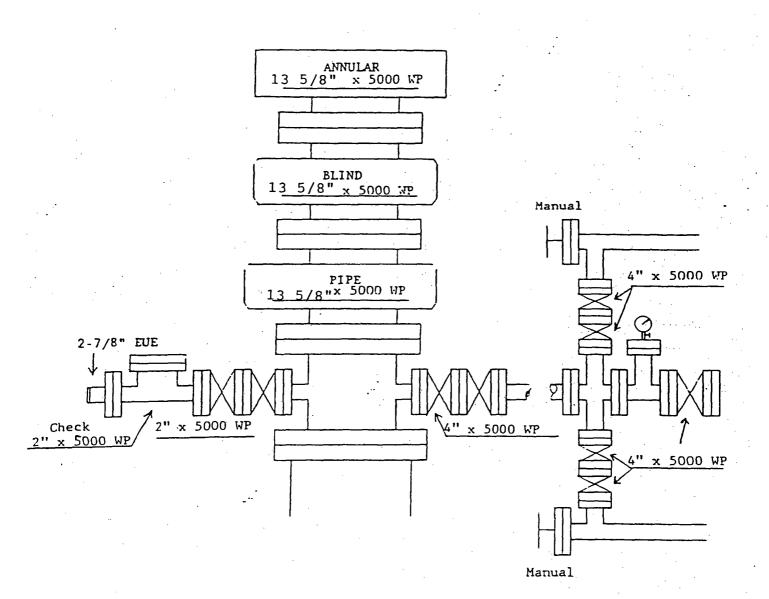
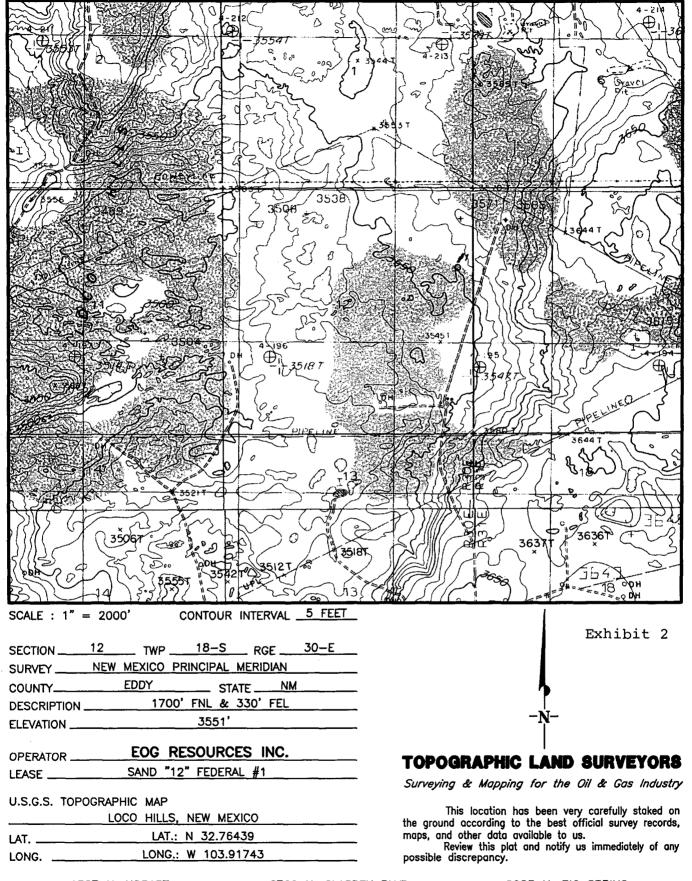
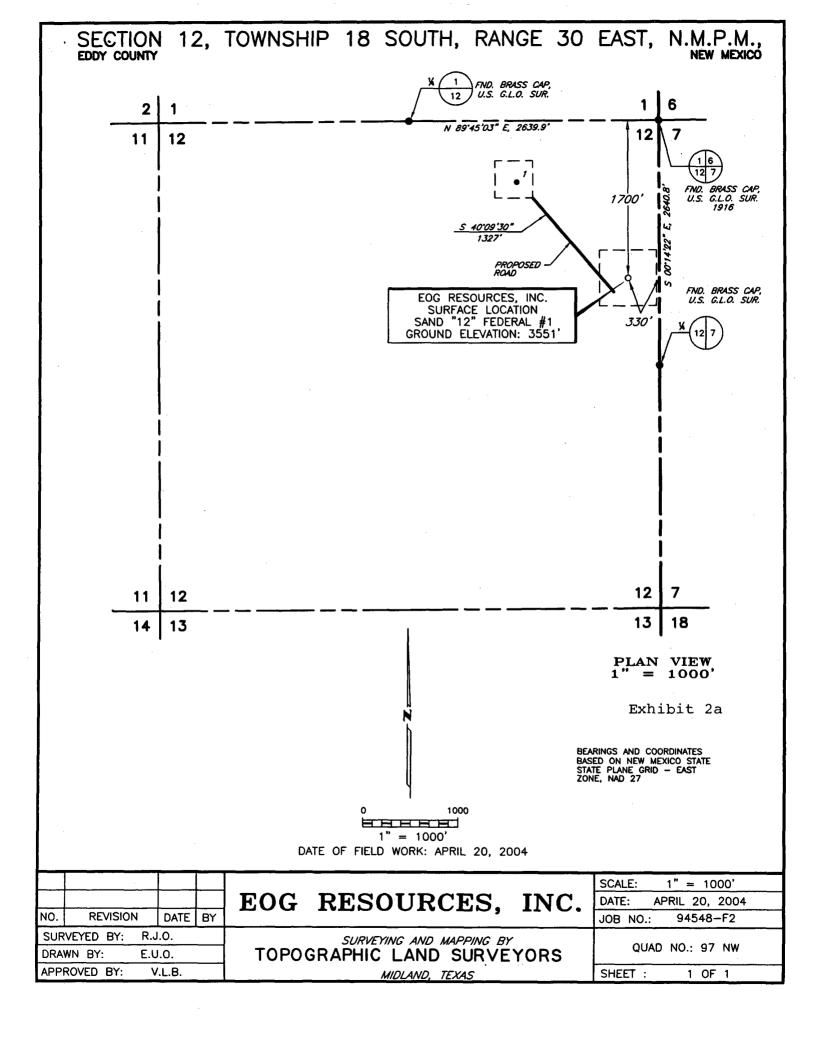


Exhibit 1

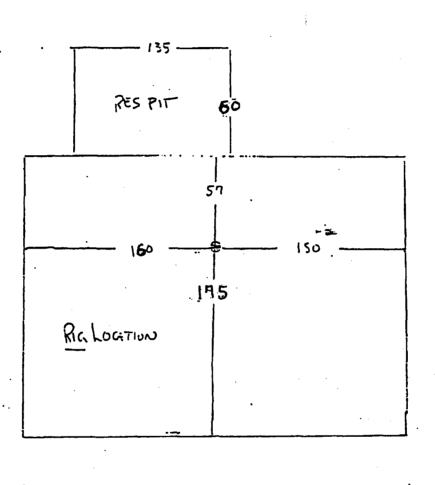
## LOCATION & ELEVATION VERIFICATION MAP



1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382 6709 N. CLASSEN BLVD. OKLAHOMA CITY, OK. 73116 (800) 654–3219 2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653



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EOG Res.	Feather stone Lanue E Muncy Dev. etal (P. Janes)  Page 27270  Burleson E Huff Frother stone to the stone to t	J.B. Knox Devon 556 12 1 2000 030664 91862 96000 Enron	EUG Res.  EUG Res.  EUG Res.  SUUG ART 18 ON UNIT  MACK ENER (OPER)  Devon 55 13 Capstone 3/4  17. 12006  17. 12006  17. 12006  17. 12006  17. 12006  17. 12006  17. 12006  17. 12006  17. 12006  17. 12006  17. 12006  17. 12006  17. 12006  18. 12006  19.	Apoche (1987)  Composition of the control of the co
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### **Statement Accepting Responsibility For Operations**

**Operator Name:** 

EOG Resources, Inc.

Street or Box: City, State: P.O. Box 2267 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.**: NMN 021096

Legal Description of Land: Section 12, T-18-S;R-30-E NMPM

Eddy Co., NM

Formation(s) (if applicable):

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

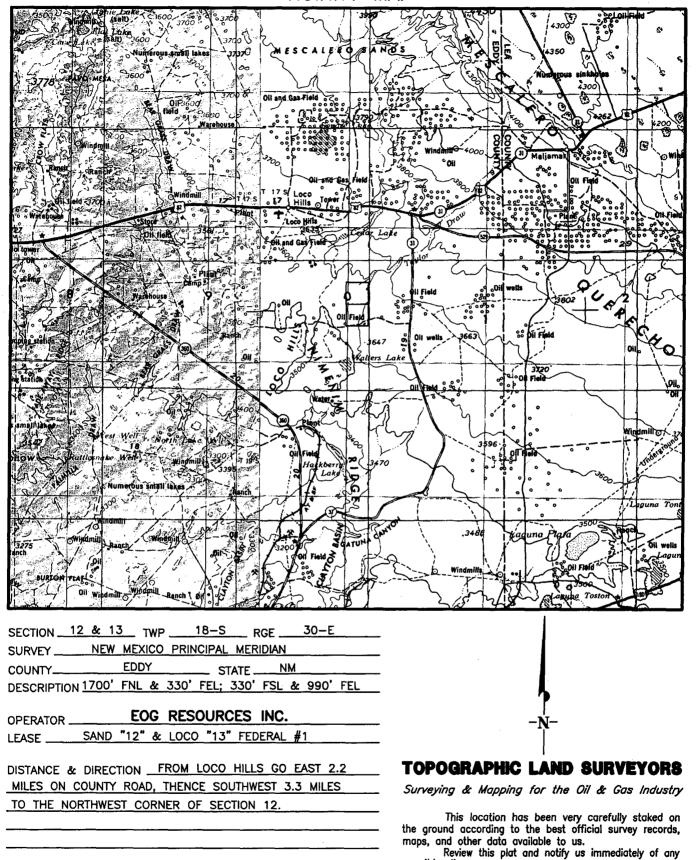
BLM Bond File No.: NM2308 with endorsement to State of NM

Authorized Signature: \_\_

Title: Agent

**Date**: 5/3/2004

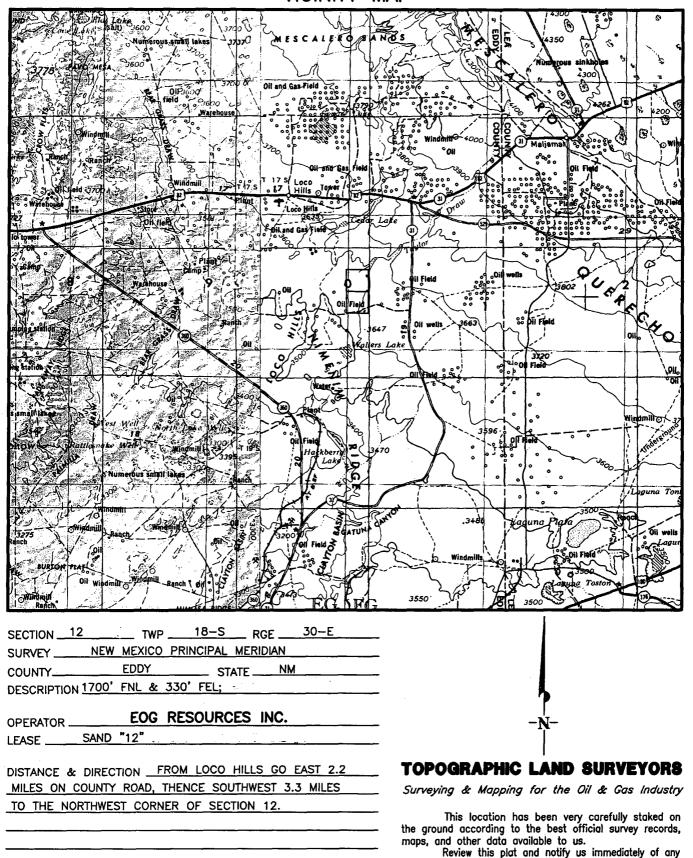
## VICINITY MAP



1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382 6709 N. CLASSEN BLVD. OKLAHOMA CITY, OK. 73116 (800) 654-3219 2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653

possible discrepancy.

## VICINITY MAP



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