Υ	New Mexi	co Oil Co	nservation l	Division,	District I	
•	OPER. OGRID NO. 7377		N. French D			
	PHOPERTY NO. 26406	Hob	bs, NM <b>88</b> 2	240		
F	POOL CODE 51021)				! FORM A	APPROVED
	m 3160-3 gust 199 <b>B</b> FF. DATE 2/24/04				1	. 1004-0136
(,,	The state of the s	ł				ember 30, 2000
	API NO. 30-025 1136525				5. Lease Serial No.	NM 30400
	DEPARTMENT OF THE IN	TERIOR				
	BUREAU OF LAND MANG	EMENT				
	APPLICATION FOR PERMIT TO D	RILL OR R	EENTER			
1a.	Type of Work: X DRILL RE	ENTER	,		7. If Unit or CA Agreem	ent. Name and No.
•					Red Hills North Unit	nm 104037x
				•	8. Lease Name and We	II No.
1b.	Type of Well: X Oil Well Gas Well Other	Single 2	Zone Muitip	ole Zone	Red Hills North Unit 213	
2.	Name of Operator				9. API Well No.	7, -011
	EOG Resources, Inc.	la: 5: 1		1	30.025	
3a.	Address	3b. Phone N	o. (include area of 432 686-3714	code)	10. Field and Pool, or E	xploratory
4.	P.O. Box 2267 Midland, TX 79702  Location of Well (Report location clearly and in accorda)	nce with any !		ite *)	Red Hills Bone Springs 11. Sec., T., R., M., or Bi	k And Survoy or Area
4.	2213 AN PU	~ / / / /		1	11. 3ec., 1., 12., M., OI DI	k. Alid Survey of Area
	At surface 2297 FNL & 1748 FEL (u/i G)			•	Sec 12 T 25-S;R-33-E	
	At proposed prod. Zone 2300' FSL & 330' FWL	,			Sec 12 T-25-S R-33-E	
14.	Distance in miles and direction from nearest town or pos	st office*	e Markon Mark		12. County or Parish	13. State
		7	Water Book		Lea	NM
15.	Distance from proposed* location to nearest 600	16. No. of Ac	res in lease	17. Spacin	g Unit dedicated to this w	/ell
	property or lease line, ft.	4,	198.70			
	(Also to nearest drlg. Unit line, if any) 330	See	Exhibit 6	80	)	
18.	Distance from proposed location*	19. Propose	•	20. BLM/B	IA Bond No. on file	
	to nearest well, drilling, completed applied for, on this lease, ft. 850'	1	0 12,250 O 16000	NM - 2308		
21.	Elevations (Show whether DF, KDB, RT, GL, etc)	<del> </del>	ate date work w	·	23. Estimated duration	
	GR 3403		3/1/2004		60	
		24. A	ttachments			
The	following completed in accordance with the requirements of	Onshore Oil an	Gas Order No. 1,	, shall be atta	ched to this form:	
1. V	Vell plat certified by a registered surveyor.		4. Bond to cover	the operation	ns unless covered by an exi	sting bond on file (see
	A Drilling Plan.		Item 20 above			
	Surface Use Plan (if the location is on National Forest Sytem	1 Lands, the	5. Operator certi	ification.		
S	UPO shall be filed with the appropriate Forest Service Office)		6. Such other sit	e specific info	ormation and/or plans as m	ay be required by the
	and the same of th		authorized off	icer.		
25.	Signature	Name (Printe	••		Date	
	I/Upl Gance	<u> </u>	Mike Francis	<u> </u>	1/11/2004	
Title	Agent			!		
App	proved by (Signaturet CLIE A THEICS	Name (Printe	d/Typed)	<del></del>	Date	2102022
		/s/ LI	<sub>d/Туреd)</sub> ESLIE A.	THEIS	SS FER	41.8.300 5155
Title	FIELD MANAGER		ARLSBA		/ ~	FED COM
	ication approval does not warrant or certify the applicant holds legal or ations theron.	equitable title to t	nose rightes in the s	- 1		o conducti ZVV4
Cond	fitions of approval, if any, are attached				APPROVAL F	
	18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cries any false, fictitious or fraudulent statements or representations as to			fully to make to	any department or agency of the	ne UnitedH0DDS & & & & & & & & & & & & & & & & & &
	tructions on reverse)	7	janiera.onom.		- \\o_o_	- UGD 65

Originally drilled as Diamond "8" Federal No. 2 well.

SUBJECT TO LIKE APPROVAL BY STATE

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

				1	•	*
m3199-5		STATES .	·	1	APPROVED	٠.
grapi 1890)	DEPARTMENT O		ľ		50, 1004-0126	_
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	use this form for prope			N2130400		•
	ved well. Use Form 310			K Indian, Allottes o	r Tribe Mains	2°
RURAIT IN	TRIPLICATE - Other in	structions on tevets	e akte 7	White or CAMpres	court. Name and	or No.
				ed Hills.1	•	
	Hell Comm			Well Home and Ro Red Hills		
EOG Resource				WEG BITTE	MOLERAL	724 212
Address P.O. Box 2207, Michael.		s, (Include area code) 16-3714		Field and Pool, or		<del>***</del>
ocation of Well & cotage.	Sec. T.R.M. or Survey Dec		· · · · 🗁	ed Hills I		ng
/L 2213 FNL& L 2300 FSL&3	1920'FEL Sec.] 30'FWL Sec 12	12 T-25-S;R-3 T-25-S;R-33-	13-E 1	ea County		· ,
12.	CHECK APPROPRIATE BO			ORT, OR OTHER D	ATA	
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Plates of Intent	Alar Costre	Procluse Trees	Redemak	77		
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#### DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

#### State of New Mexico

Form C-102

Energy, Minerals, and Natural Resources Department

Revised August 15, 2000
Submit to Appropriate District Office

# 1301 W. Grand Avenue, Artesia, NM 88210

OIL CONSERVATION DIVISION

State Lease - 4 copies
Fee Lease - 3 copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

1220 South St. Francis Dr.

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	Pool Name	
30-025-3	6584	51020	Red HIlls Bone Spring	
<sup>4</sup> Property Code			Property Name	Well Number
26406		RED HI	LLS NORTH UNIT	213H
<sup>7</sup> OGRID No.			<sup>8</sup> Operator Name	Elevation
7377		eog r	ESOURCES, INC.	3403'

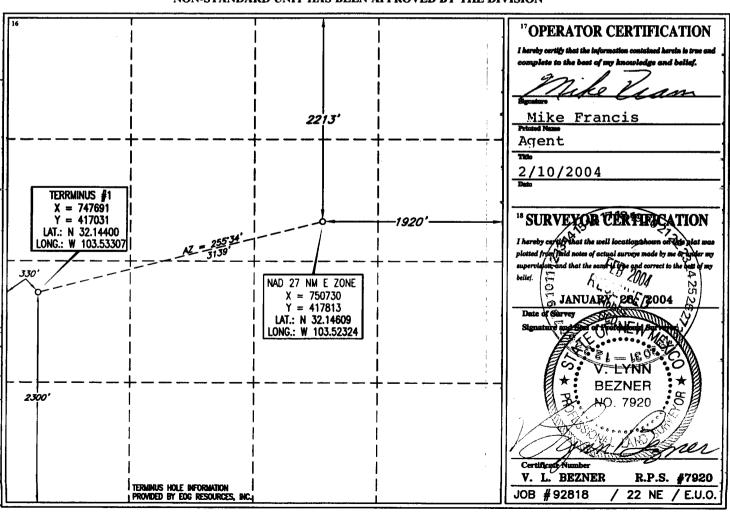
## <sup>10</sup> Surface Location

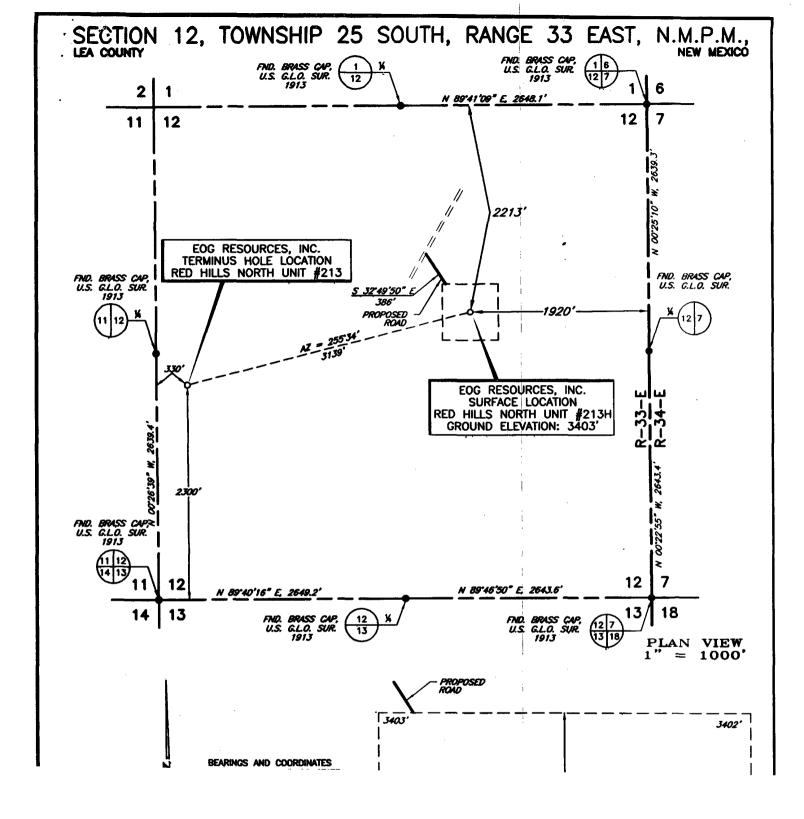
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	12	25 SOUTH	33 EAST, N.M.P.M.		2213'	NORTH	1920'	EAST	LEA

# 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
L	12	25-S	33-E		2300	South	330	West	Lea
12 Dedicated Acre	s 13 Jo	oint or Infill	<sup>14</sup> Consolidation Code	15 Order N	D.				
80							•		

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





## EOG RESOURCES, INC. Red Hills North Unit No. 213 Lea Co. NM

## 1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

## 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1100'
Delaware Mt. Group	5150'
Bone Springs	9275'
3 <sup>rd</sup> Bone Spring Sand	12225'

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

Upper Permian Sands	Above 250'	Fresh Water
3 <sup>rd</sup> Bone Spring Sands	12,225'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13-3/8" casing at 650' and circulating cement back to surface, and 9-5/8" casing will be set at 5200' with cement circulated back to surface

#### 4. CASING PROGRAM

TEOLIT OF THE O							
Hole Size	<u>Interval</u>	OD Casing	Weight Grade Jt. Cond. Type				
17-1/2"	0-650'	13-3/8"	48# H-40 ST&C				
12-1/4"	0-5200'	9-5/8"	40# N-80 LT&C				
8-3/4"	0-12,700'	7"	26#P-110 LT&C & STL				
61/8	12500-TD	4 ½"	11.6# P-110 Hydrill				
Cementing P	rogram:						
17-1/2" Surf	_	Econolite, 25	orface with 325 sx Prem Plus, 3% Calcium Chloride, 0.25#/sx Flocele, Plus, 2% Calcium Chloride				
9-5/8" Intermediate:		Cement to surface with 1100 sx Interfill C, .25#/sx flocele, 250 sx Premium Plus, 2% Calcium Chloride					
7" 2 <sup>nd</sup> Intern	nediate	5#/sx Salt +	800sx Premium Plus, 3% Econolite, 25lb/sk Flocele; 250sx Prem50/50 POZ Halliburton-Gel First,.5%Halad-				
4 ½" Liner		CBL+.3%SC	um +.3%Halad-322+.3%Super CR-100;350sx Acid Soluble H+FDP- 344+.7%Econolite				

#### EOG RESOURCES, INC. Red Hills North Unit No. 213 Lea Co. 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-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: Lateral section will be drilled with oil based mud.

		Wt Viscosi	ty Water	loss
<u>Depth</u>	<u>Type</u>	(PPG)	(sec)	<u>(cc)</u>
0-1100	Fresh Water (Spud Mud)	8.5	40-45	N.C.
1100'-5200'	Brine Water	10.0	30	N.C.
5200''- 1270	0 Cut Brine + Polymer/	KCL 8.8 – 9.2	2 28	N.C
Lateral Section	on 12700-TD FW Polymer	8.5-8.8	40	15

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. Red Hills North Unit No. 213 Lea Co. NM

## 8. LOGGING, TESTING AND CORING PROGRAM:

Electric logging will consist of GR-Dual Laterlog-MSFL and GR-Compensated Density-Neutron from TD of the vertical hole-GR in horizonal section to intermediate casing with a GR- Compensated Neutron ran from Intermediate casing to surface..

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. Red Hills North Unit No. 213 Lea Co. 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:

1065' 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.

#### EOG RESOURCES, INC. Red Hills North Unit No. 213 Lea Co. 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 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. Red Hills North Unit No. 213 Lea Co. 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.

### EOG RESOURCES, INC. Red Hills North Unit No. 213 Lea Co. 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.

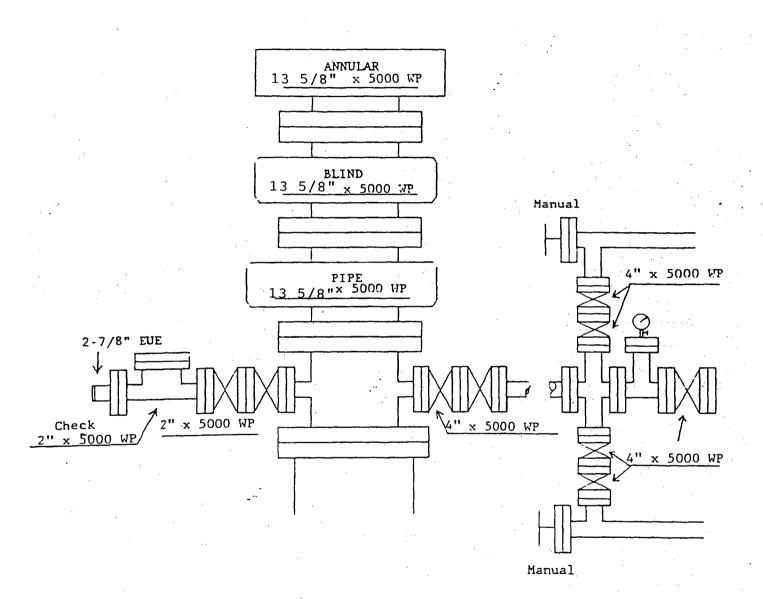
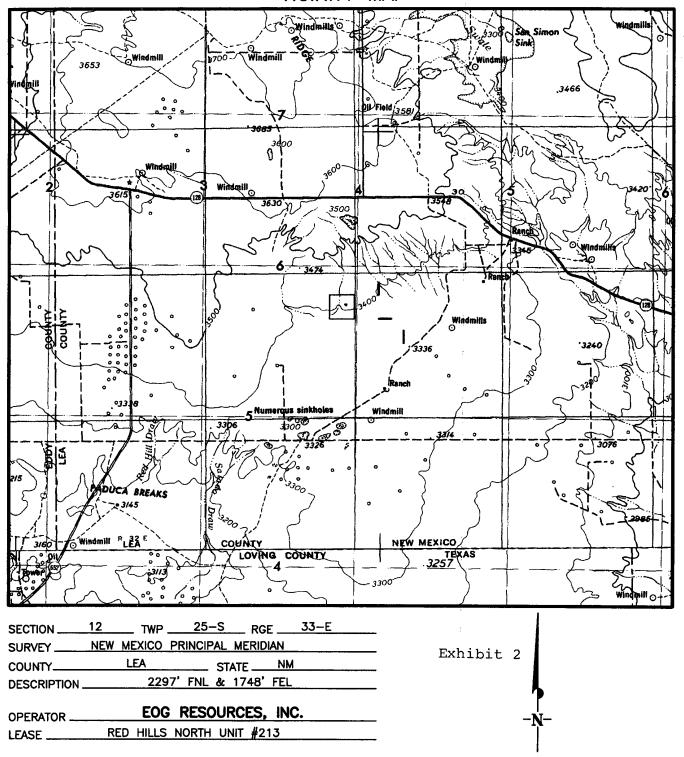


Exhibit 1

# VICINITY MAP



DISTANCE & DIRECTION FROM JAL GO WEST 23.0 MILES ON HWY. 128, THENCE SOUTH 2.0 MILE, THENCE EAST 0.7 MILE THENCE SOUTH 2.0 MILE, THENCE WEST 1.0 MILE, THENCE SOUTH 0.2 MILE TO A POINT ±1000' WEST OF THE LOCATION.

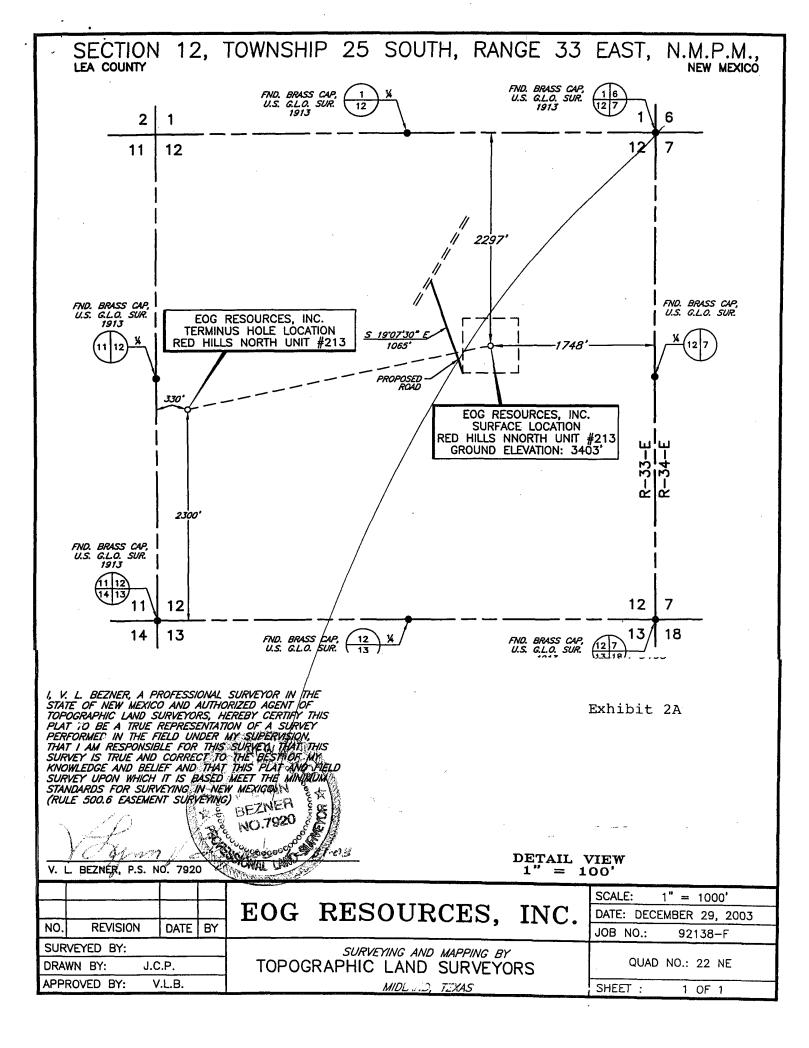
This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

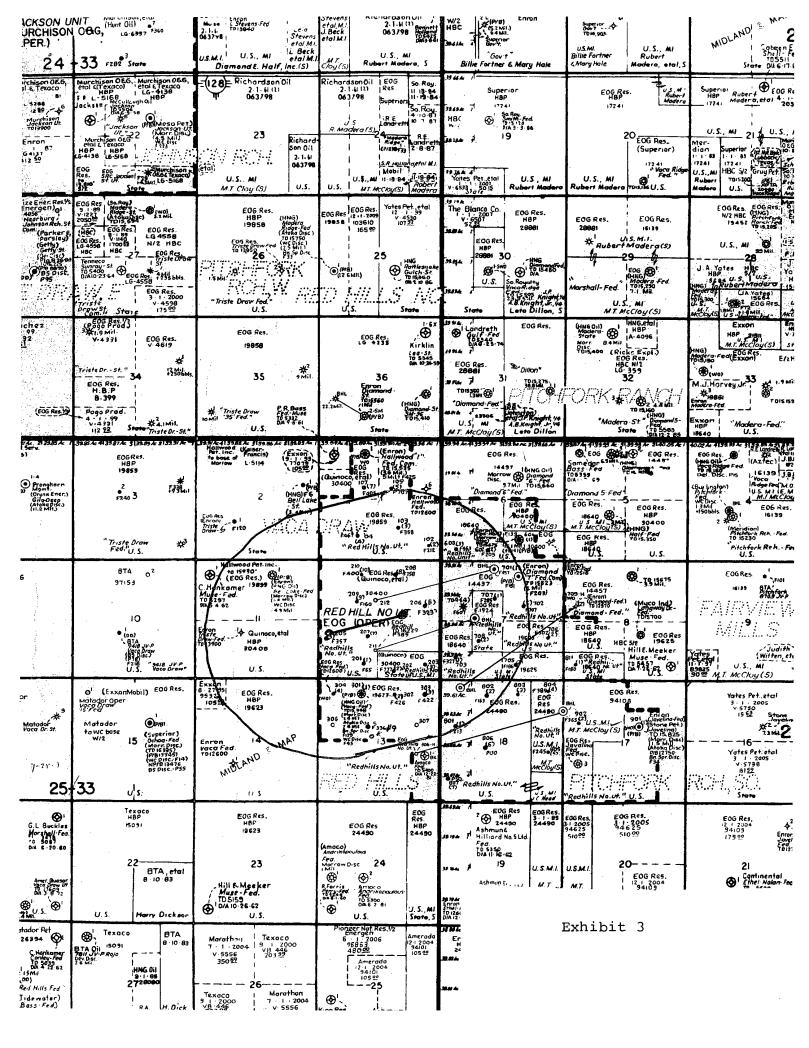
TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

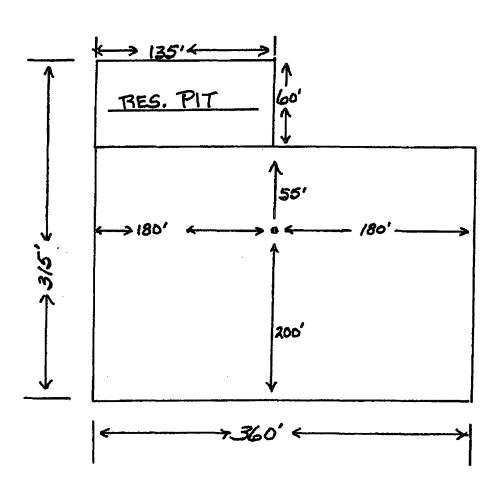
Review this plat and notify us immediately of any possible discrepancy.

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





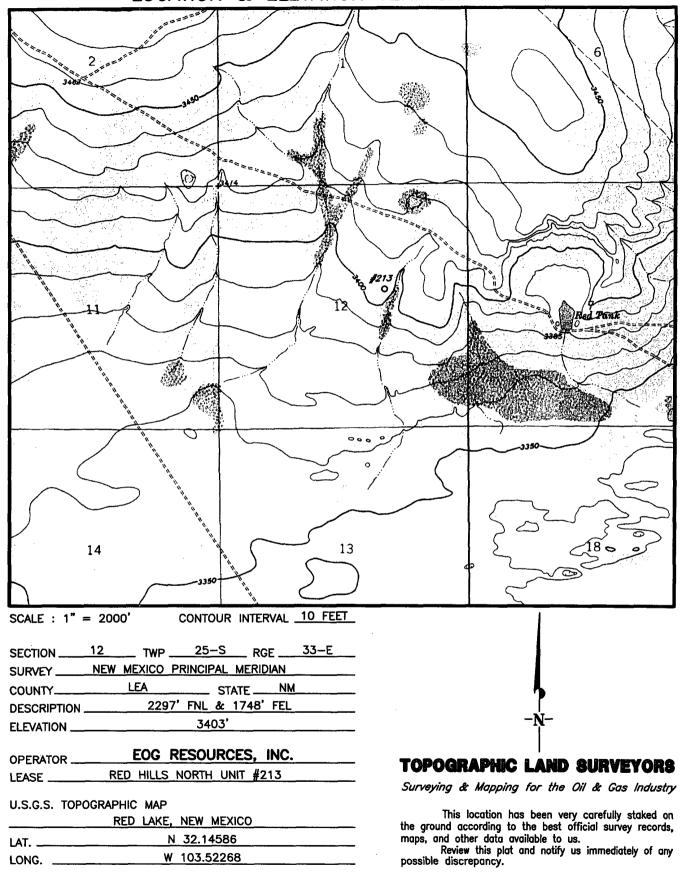




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# LOCATION & ELEVATION VERIFICATION MAP



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

## **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.:

NM30400

Legal Description of Land: Section 12, T-25-S, R-33-E, NMPM

Lea., 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

Title: Agent

Date: 1/11/2004