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REC	EIVED 14 13	01 W. Grand Av		,		
	1 1 2000	Artocia NMA OO				
Form 3160-3		Artesia, NM 88	210		APPROVED	
(August 1999) OCD-A	RTESIA				o. 1004-0136 vember 30, 2000	
	UNITED STATE	S		5. Lease Serial No.	~ ~ ~	
icol	DEPARTMENT OF THE	INTERIOR	-	NM90947		
424	BUREAU OF LAND MAI	NGEMENT	<b>\$</b> ,	6. If Indian, Allottee or	Tribe Name	
APPLI	CATION FOR PERMIT TO	DRILL OR REENTER				
1a. Type of Work: X		REENTER SUBJECT TO	IIKF	7. If Unit or CA Agreer	nent, Name and No.	
	· · ·	APPROVAL B				
1b. Type of Well:	Oil Well 🔼 Gas Well 🛄 Oth		tiple Zone	8. Lease Name and We Thames 31 Federal No.1		
2. Name of Operator				9. API Well No.		
EOG Resource	es, Inc.			-30-01	5-33130	
3a. Address	Midland, TX 79702	<b>3b. Phone No. (include area</b> <b>L4 3 2 (945)</b> 686-3714	-	10. Field and Pool, or E Wildcat Marra		
	rt location clearly and in accord			11. Sec., T., R., M., or B		
At surface	760' FSL & 760' FEL (U/L F	· · · · ·		Sec.31 T-16-S; R-25- E		
Algunace		/				
At proposed prod. Zon					1	
2 Miles west from Artesia	direction from nearest town or p	iost onice"	-	12. County or Parish Eddy Co.	13. State	
15. Distance from propose	ed* 760'	16. No. of Acres in lease	17. Spacin	g Unit dedicated to this	well	
location to nearest property or lease line,	ft.	960	E/2 (320)	_		
(Also to nearest drig. L				RECEIVED		
18. Distance from propose to nearest well, drilling	•	19. Proposed Depth	20. BLM/B	IA Bond No. on file	EC 1 1 2003	
applied for, on this lea	··· •	TVD 5500' TMD 9000'	NM 2308		D-ARTESIA	
21. Elevations (Show when	ther DF, KDB, RT, GL, etc)	22. Approximate date work	will start*	23. Estimated duration		
		5/25/2003 24. Attachments	uuu	40 days	<u> </u>	
The following completed in a	ccordance with the requirements of	f Onshore Oil an Gas Order No.	1, shali be atta	ched to this form:		
1. Well plat certified by a reg	istered survevor.	4. Bond to cove	er the operation	s unless covered by an ex	risting bond on file (see	
2. A Drilling Plan.		Item 20 abov		ROSWELL CONTRO		
•	location is on National Forest Syte		rtification.			
SUPU shall be filed with th	e appropriate Forest Service Offic	authorized o	•	ormation and/or plans as n	hay be required by the	
	· · · · · · · · · · · · · · · · · · ·	Name (Printed/Typed)		Date		
		· · · · · · · · · · · · · · · · · · ·				
Mik	· Trance	Mike Francis		3/14/200	3	
Mik	· Trance			3/14/200	3	
Title Agent	· · · · · · · · · · · · · · · · · · ·	Mike Francis	Ing G. L		·	
Title <u>Approved by (Signature)</u>	/s/ Joe G. Lara	Mike Francis Name (Printed/Typed)	Joe G. L	ara Date	) DEC 2003	
Title Approved by (Signature)	· · · · · · · · · · · · · · · · · · ·	Mike Francis Name (Printed/Typed)			·	
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DISTRICT II 1301 W. Grand Avenue, Arte:	ia, NM 8821001L (	UNSER	WATION L	NVISION	Submit	State l	_ease — 4 cc
DISTRICT_III 1000 Rio Brazos Rd., Aztec,			outh St. Fr e, New Mex			ree L	ease — 3 co
<u>DISTRICT IV</u> 1220 S. St. Francis Dr., San					C		D REPORT
	ELL LOCATION	I AND	ACREAGE				
<sup>1</sup> API Number	<sup>2</sup> Pool Code		Wildca		ool Name		
<sup>4</sup> Property Code			perty Name '31" FEDEI			<sup>6</sup> Well N	umber
<sup>7</sup> OGRID No.			erator Name		;	9 Elevo	
7377	<u></u>		OURCES, IN	NC.	<u></u>	360	0'
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UL or lot no. Section Township A 31 16 SOU	Range TH 25 EAST, N.M.P.		Feet from the 760'	North/South line	Feet from the 760'	East/West line EAST	County EDDY
<sup>12</sup> Dedicated Acres <sup>13</sup> Joint or Infili	<sup>14</sup> Consolidation Code	15 Order	No.		_ <b>I</b>		
320							
NO ALLOWABLE WELL BE	ASSIGNED TO THIS NON-STANDARD U					N CONSOLIE	DATED OR /
16			4	<b>"</b>	"OPERATOR	CERTIFICA	TION
	1	( HOLE LOCA ( SCALED )	1 76		I hereby certify that the	information containe	d herein is true and
	LAT.: LONG.:	N = 32.884 W = 104.51	47 🔼 🕴		complete to the bes	t of my knowled	ge and belief.
					Mike Ca	An	[]
					Mike France Printed Name	cis	
┠∔			-+	ll	Agent		
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	A A			•	2/14/2003 Date		
	F. I.		Tuxon	-	<sup>18</sup> SURVEYOR	CERTIFICA	TION
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	i			2		RY 27, 2003	
	2		2 		Date of Survey Signature and Seal	of Professional	Surveyor
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		27 NM E ZON SCALED )	L. I		VIA'S NO		M. I.
		N = 32.8740 W = 104.510		760'	VA Social	1-5-5-1	1-03
			760	oʻ   -	Certificate Number	<u>1 2240</u>	
BOTTOM HOLE INFORMATION PROVIDED BY EDG RESOURCES, INC.		N		· ·	V. L. BEZNER JOB #86372	<b>R.P.S.</b>	<u> </u>

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

## 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Chalk Bluff	0-200'
San Andres	545'
Glorieta	1,750'
Tubb	3,190'
Abo Shale	3,840'
Abo	3,995'
Abo/Wolfcamp Pay	4,925'
Wolfcamp A	5,035'
TD	5,300'

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

Quanterary Alluvium	0-200'	Fresh Water
San Andres	545'	Oil
Glorieta	1,750'	Oil/Gas
Tubb	3,190'	Oil/Gas
Abo/Wolfcamp Pay	4,925'	Gas

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 350' and circulating cement back to surface, and 9-5/8" casing will be set at 1100' with cement circulated back to surface

#### 4. CASING PROGRAM

<u>Hole Size</u>	Interval	OD Casing	Weight Grade Jt. Co	onn. Type
17-1/2"	0-350'	13-3/8"	48# H-40 ST&C	
12-1/4"	0-1100'	9-5/8"	40# N-80 LT&C	
8-3/4"	0-5,200'	7"	26#L-80 BT&C	
6-1/8"	4,800'-9,000'	3-1/2	9.2# L-80 H533	(Slotted Liner)

#### Cementing Program:

17-1/2" Surface Casing:	Cement to surface with 250 sx Prem Plus, 3% Econolite, 25 Calcium Chloride, 0.25#/sx Flocele, 150 sx Prem Plus, 2% Calcium Chloride
9-5/8" Intermediate: WITNESS	Cement to surface with 600 sx Interfill C, .25#/sx flocele, 250 sx Premium Plus, 2% Calcium Chloride $MTNESS$
7" Production	Cement w100sx 50/50 POZ+ 10% gel + 120 sacks Class C + 1% CACL <sub>2</sub> . This cement slurry is designed to bring TOC to 1100'.
$3\frac{1}{2}$ ' slotted liner	Will not be cemented

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#### 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:

2.0		Wt Viscos	ity Water	OSS
<u>Depth</u>	Type	<u>(PPG)</u>	(sec)	<u>(cc)</u>
0-1100	Fresh Water (Spud Mud)	8.5	40-45	N.C.
1100'-5200'	Cut Brine Water	9.7	30	N.C.
5200''- TD	Cut Brine + Polymer/KC	CL 8.8 – 9.2	28	N.C

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.

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

Electric logging will consist of GR-Dual Laterlog-MSFL and GR-Compensated Density-Neutron from TD 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 125 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.

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#### 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:

8881' of new road is required. (3448' on Federal Lands) Exhibit #2a(1) (2) (3) (4)

(5)

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:

2 . . . . .

4.

#### EOG RESOURCES, INC. Thames "31" No. 1 Eddy Co. 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 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. Thames "31" No. 1 Eddy 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.

enasy Division Drilling Superintendent

Date: 3/14/2003

#### EOG RESOURCES, INC. Thames "31" No. 1 Eddy 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.

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#### EOG RESOURCES, INC. Thames "31" No. 1 Eddy Co. NM

## EOG Resources, Inc.





Exhibit 1

## VICINITY MAP



A POINT NEAR SOUTHEAST MILE ON LEASE ROAD TO A POINT NEAR

SOUTHEAST CORNER SECTION 5 AND A POINT FOR BEGINNING OF

PROPOSED ROAD TO THE LOCATION.

#### Topographic land surveyors

Surveying & Mapping for the Oil & Gas Industry

2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653

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DRILLING FAX



DRILLING FAX









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## LOCATION & ELEVATION VERIFICATION MAP

