New M	lexics Oil Connection						
,	icht Roberts Robert and	in a substantia Anna a substantia Anna a substantia Anna a substantia	 A second s				
Form 3160-3 (August 1999)			FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000				
UNITED STATE	-	11.00	5. Lease Serial No.				
DEPARTMENT OF THE BUREAU OF LAND MAI	그 그 그 그 가 있는 것 같아요. 그 가 가 있는 것 같아요. 그 가 않아요. 그 가 있는 것 같아요. 그 가 요.	HEHT.	NM12412 6. If Indian, Allottee or Tribe Name				
APPLICATION FOR PERMIT TO	DRILL OR REENTER	<u>. 1</u> . , <u>1</u> . ,					
1a. Type of Work: X DRILL	REENTER		7. If Unit or CA Agreement, Name and No.				
1b. Type of Well: Oil Well X Gas Well 🛄 Oth	er Single Zone Mult	ple Zone	8. Lease Name and Well No. Lusk *22" Federal No. 1				
2. Name of Operator		(9. API Well No. 30-025-35590				
EOG Resources, Inc. 3a. Address	lai. =	MANM	· · · · · · · · · · · · · · · · · · ·				
P.O. Box 2267, Midland, TX 79702	OPER. OGRID NO.	~ ~ -	. Field and Pool, or Exploratory WIIdCat- Lusk, Morrow				
4. Location of Well (Report location clearly and in accord			Sec., T., R., M., or Blk. And Survey or Area				
At surface 715' FNL & 1,330' FWL	POOL CODE 67	-01	Sec 22, T19S, R32E				
At proposed prod. Zone Same	APINO. 30.025						
Distance in miles and direction from nearest town or p	post office*		12. County or Parish 13. State				
15. Distance from proposed* location to nearest	16. No. of Acres in lease	T	Unit dedicated to this well				
property or lease line, ft. 715' (Also to nearest drlg. Unit line, if any) 715'	2.320	,	N/2 (320)				
 18. Distance from proposed location* to nearest well, drilling, completed 	19. Proposed Depth		BIA Bond No. on file				
applied for, on this lease, ft. 670'	13,200	·	NM2308				
21. Elevations (Show whether DF, KDB, RT, GL, etc) GL3610	22. Approximate date work w 5/15/2001	ill start*	23. Estimated duration				
GESOTO	24. Attachments		40 days				
The following completed in accordance with the requirements of	Onshore Oil an Gas Order No. 1,	shall be attached	d to this form:				
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syte 	ttem 20 above m Lands, the 5. Operator cert	fication.	unless covered by an existing bond on file (see				
SUPO shall be filed with the appropriate Forest Service Office	authorized of	•	nation and/or plans as may be required by the				
25. Signature Mike Viamin	Name <i>(Printed/Typed)</i> Mike Francis		Date 4/2/01				
Title		· · · · · · · · · · · · · · · · · · ·					
Approved by (Signature) JOE G. LARA	Name (Printed/Typed)		Date JUN 0 4 2001				
THE LO MANAGER	Office CARLSBA						
pplication/approval does not warrant or certify the applicant holds lega operations theron.		subject lease wh	hich would entitle the applicant to conduct.				
Conditions of approval, if any, are attached							
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations a		minully to make to	any department or agency of the United				
(Instructions on reverse)							
		APPROVA	L SUBJECT TO				

Capitan Controlled Water Basin

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GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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District I PO Box 1980, H	lobbs, NM	88241-1980		Energy			ew Mexico ral Resources Depart	ment ·	Rev		Form C-10; bruary 21, 1994	
District II .PO Drawer DD,	Artesia, N	M 88211-07	19	OII.	CONSEP	2VA	TION DIVISI	ON Subr	nit to An	Instructions on bac Appropriate District Offic		
District III 1000 Rio Brazos	s Rd. Azt	0		PO	Bo	x 2088			State Le	ase - 4 Copie:		
District IV				Sa	nta Fe,	NM	1 87504–20	88		Fee Le	ease - 3 Copies	
PO Box 2088, S	anta re,	NM 07504-2	008							AME1	NDED REPORT	
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Property	20de						Name			W	Vell Number	
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/We	st line	County	
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								correct to bes	-		0.1	
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									PROFESS	- ALLA		
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1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

2990'
2940'
5800'
7300'
10475'
11476'
11925'
12350'
12815'
12900'

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

Upper Permian Sands	Above 250'	Fresh Water
Delaware	5800'	Oil
Bone Spring	8000'	Oil
Wolfcamp	10600'	Gas
Strawn	11475'	Oil
Morrow	12400	Gas

4. CASING PROGRAM

Hole Size	Interval	OD Casing	Weight Grade Jt. Cond. Type
14 ³ ⁄4	0-600'	11 3/4"	42# H-40 ST&C
11"	0-4000'	8 5/8"	32# J-55 LT&C
11"	4000-4600'	8-5/8"	32# HCK LT&C
7 7/8"	0-13700'	5 1/2"	17# S95/P110 L&TC

Cementing Program:

11 3/4" Surface Casing:	Cement to surface with 150 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 900 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%, .5% Halad-322. This is designed to bring TOC to 5000'.

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. Surface casings, BOP's and accessory equipment will be tested to 600 psi before drilling out of surface casing a variance to onshore oil and gas order no 2 is requested for this testing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/1000 psi and the annular to 3000/1000-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	Viscosity	Waterloss
<u>Depth</u>	Type	(PPG)	(sec)	(cc)
0-1000'	Fresh Water (spud)	8.5	40-45	N.C.
*1000'-4600'	Brine Water	10.0	30	N.C.
4600' - 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.

*Estimated top of Rustler Formation, 1000'

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 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.

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:

332.7' 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 BLMapproved 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:

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.

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.

W. D. Smeltzer Division Drilling Manager

W.R. Amel-= Date: 4-2-01

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.







LOCATION VERIFICATION MAD



Exhibit #2

SCALE: 1" = 2000' WTC 46197

SEC. <u>22</u> TWP. <u>19-S</u> RGE. <u>32-E</u> SURVEY <u>N.M.P.M</u>

COUNTY LEA STATE NM

DESCRIPTION 715' FNL & 1330' FWL

ELEVATION 3610

OPERATOR _____EOG RESOURCES, INC.

LEASE _____LUSK FEDERAL "22" No. 1

USGS TOPO MAP <u>LAGUNA GATUNA, NW AND</u> GREENWOOD LAKE, NEW MEXICO. CONTOUR INTERVAL 10'

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800



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VICINITY MAP



ELEVATION _____ 3610'

OPERATOR _____EOG RESOURCES, INC.

LEASE ____LUSK FEDERAL "22" No. 1

MIDLAND, TEXAS

ENGINEERS-PLANNERS-SURVEYORS

915-685-3800







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Statement Accepting Responsibility For Operations

Operator Name:EOG Resources, Inc.Street or Box:P.O. Box 2267City, State:Midland, TXZip 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.: NMN12412

Legal Description of Land: Section 22, T19S, 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:

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Title: Agent

Date: <u>4/2/01</u>

WILL BE RELEASED **CONFIDENTIAL LOGS** ABOVE DATE DOES NOT ELF

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