				L SUBJECT TO REQUIREMEN	
States any false, fictitious or fraudulent statements or representations as to *(Instructions on reverse)	any matter within	n its jurisidiction.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr	rime for any perso	on knowingly and willfu			
Application approval does not warrant or certify the applicant holds legal or operations theron. Conditions of approval, if any, are attached	equitable title to	those rightes in the su	bject lease whic	AL FOR 1 Y	EAR
FIELD MANAGER	Office	CARL	SBAD	FIELD OFFIC	E.
Approved by (Signature) /S/ JOE G. LARA	Name (Printe	ed/Typed) /S/ JOE	G. LAR	A Date MAY	2 9 2002
Title Agent					
Mike Trancis	Mike Francis			4/11/2002	2
25. Signature	Name (Print	authorized offi ed/Typed)	icer.	Date	
SUPO shall be filed with the appropriate Forest Service Office))			rmation and/or plans as m	ay be required by the
3. A Surface Use Plan (if the location is on National Forest Syter		5. Operator certi	fication.		
 Weil plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover Item 20 above		s unless covered by an exi	sting bond on file (see
The following completed in accordance with the requirements of		Attachments	shall be attack	an Controlled Wat	er Besin
GL3466	5/15/200	2		30	
21. Elevations (Show whether DF, KDB, RT, GL, etc)		mate date work wi	·	23. Estimated duration	
to nearest well, drilling, completed applied for, on this lease, ft. 1600'	12,10	10	NM2308		
18. Distance from proposed location*	19. Propos	ed Depth	20. BLM/BI	A Bond No. on file	
(Also to nearest drlg. Unit line, if any) 670'	4		E/2 (320)		
location to nearest 670' property or lease line, ft.		10	E/2 (220)		
15. Distance from proposed*	16. No. of A	Acres in lease	17. Spacing	g Unit dedicated to this v	
 Distance in miles and direction from hearest town or po 6 mi. SW from Loco Hills 	USI OITICE"			12. County or Parish	13. State
At proposed prod. Zone 1380' FNL & 1850' Fill 14. Distance in miles and direction from nearest town or point		(6)	·		
	Q			Sec. 25 T-18-S; R-29-E	
SUBJECT TO At surface 670' FNL & 1970' FEL	LIKE APP	PROVAL BY S	STATE		
4. Location of Well (Report location clearly and in accord	ance with any	State requiremen	ts.*)	11. Sec., T., R., M., or E	Bik. And Survey or Area
P.O. Box 2267 Midland, TX 79702		(915) 686-3714		10. Field and Pool, or I North Turkey Track	exploratory
EOG Resources, Inc.		No. (include area			
2. Name of Operator 172777				9. API Well No.	
1b. Type of Well: Oil Well X Gas Well Othe	er 🚺 Single	zone Multi	ple Zone	Oreo "25" Fed Com No.2	
				8. Lease Name and W	
Form 3160-3 (August 1999) UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MAN <u>APPLICATION FOR PERMIT TO</u> 1a. Type of Work: X DRILL <u>1b. Type of Well:</u> Oil Well X Gas Well Other <u>2. Name of Operator</u> <u>EOG Resources, Inc.</u> 7277	REENTER			7. If Unit or CA Agree	ment, Name and No.
APPLICATION FOR PERMIT TO	DRILL OR	HEENDER +1 8			
BUNEAU OF LAND MAN	GENIEN C	2 ₀ ,	.1.1	6. If Indian, Allottee of	r Tribe Name
DEPARTMENT OF THE	INTERIOR	- 111231	A 8	NMNM0437522(SL) NM	
UNITED STATE	55 a	OCD - APTED	87	5. Lease Serial No.	
	23	RECEIVE	56	Expires No	ovember 30, 2000
Form 3160-3 (August 1999)	24	MáV com	(v) P	FORM OMB N	APPROVED lo. 1004-0136
C		6 ^{1.}	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
6-23	Artesia	12829303	<u> 210</u>		
13	W FUR	Grand Av	venue		•
		ons. Div			CISF
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APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

District I PO Box 1980, I District II PO Drawer DD, District III 1000 Rio Brazo District IV PO Box 2088, S	Artesia, N 18 Rd., Azte	M 88211-0719 	8	Energy, OIL	Minerals & CONSE PO	Natur RVA Bo	ew Mexico ^{ral Resources Departs} TION DIVISI(x 2088 4 87504-20	ON Subm	uit to App	Instru propriat State Le Fee Le	Form C-10 bruary 21, 199 uctions on bac e District Offic ease - 4 Copie ease - 3 Copie NDED REPOR
* Property 'OGRID		W1		² Pool C	ode Pr REO "25 • o _r	No roperty "FE	REAGE DEDI orth Turkey Name DERAL COM Name JRCES INC.	³ Pool Ne			Well Number 2 Elevation
UL or lot no. B UL or lot no. G ¹⁴ Dedicated Acr 320	Section 25 Section 25 es Joint	Township 18-S or Infill "Co	Range 29-E onsolidatio	Lot Idn 1 Hole Lot Idn n Code ¹⁵	⁰ Surface Feet from 670 Locatio Feet from 138 Order No.	ce in the in the O	Location North/South line NORTH Different Fi North/South line NORTH	Feet from the 1850	East/We EA	ST st line ST	3466 County EDDY County EDDY
			EOG R 25" FEDER	ESOURCES IN AL COM No. ELEV.=344 X=594639. =32'43'25.5 =104'01'32.1	,02 10. 2 10. 2 10. 2 10. 1 10.	5 09*48 19.8* 0M H0 5446.4 4761.5 5	1970' 1970' 1'48.65" E 	17 OPE I hereby certi- true and com Signature Mike Printed Nam Agent Title 4 11/02 Date 18 SURV I hereby certi- was plotted fr	RATOR by that the in plete to the L Erance France France VEYOR by that the we way bellet APRIL vey for Sale of Market Sale Sale of Market PEGSTAN	is CERT ell location s of actual d that the f.	A Strand

1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Yates	1459'
Queen	2200'
Bone Springs	3900'
Wolfcamp	9050'
Strawn	10350'
Atoka	10625'
Morrow	10900'
Lower Morrow	11350'

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

Upper Permian Sands	Above 250'	Fresh Water
Strawn	10350'	Oil
Atoka	10625'	Gas
Morrow	10900'	Gas
Lower Morrow	11350'	Gas

4. CASING PROGRAM

<u>Hole Size</u>	<u>Interval</u>	<u>OD Casing</u>	Weight Grade Jt. Cond. Type
14 ¾	0-450'	11 3/4"	42# H-40 ST&C
11"	0-3500'	8 5/8"	32# J-55 LT&C
7 7/8"	0-12000'	51/2"	17#S95/P110 LTC

<u>Cementing Program</u>:

11 3/4" Surface Casing:	Cement to surface with 200 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 800 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%, 0.5% Halad-322. This is designed to bring TOC to 4500'.

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:

		Wt Viscosit	y Wate	rloss
Depth	Type	(PPG)	(sec)	<u>(cc)</u>
0-450'	Fresh Water (Spud Mud)	8.5	40-45	N.C.
450''-3500'	Brine Water	10.0	30	N.C.
3500'- TD	Cut Brine + Polymer/KCL	8.8 - 9.2 32	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.

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 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.

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:

2155.9 of new road is required. Exhibit #2A(1)(2).

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:

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:

and a second second

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.

MZ Tom Young Division Drilling Manager

Date: 4/11/02

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.

EOG Resources, Inc.

Oreo 25 Fed Com No2



Exhibit 1

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LOCATION VERIFICATION MAP



 SCALE: 1" = 2000'

 WTC 46515

 SEC. __25 __ TWP. __18-S __RGE. __29-E

 SURVEY ______N.M.P.M

 COUNTY _____EDDY _____STATE ___NM

 DESCRIPTION _____670' FNL & 1970' FEL

 ELEVATION ______3466'

 OPERATOR _____EOG RESOURCES, INC.

 LEASE _____OREO "25" FEDERAL COM No. 2

CONTOUR INTERVAL 10

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

VICINITY MAP



SCALE: 1" = 3.95 MILES

LOC/ ION VERIFICATION M



SCALE: 1" = 2000' WTC 46515
SEC
SURVEY <u>N.M.P.M</u>
COUNTY EDDY STATENM
DESCRIPTION 670' FNL & 1970' FEL
ELEVATION 3466'
OPERATOREOG RESOURCES, INC.
LEASE OREO "25" FEDERAL COM No. 2

Exhibit 2

CONTOUR INTERVAL 10

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

VICINITY MAP



SCALE: 1" = 3.95 MILES

WTC 46515	
SEC TWP8-S RGE29-E	
SURVEYN.M.P.M.	
COUNTY EDDY STATENM	
DESCRIPTION 670' FNL & 1970' FEL	
ELEVATION 3466'	
OPERATOREOG RESOURCES, INC.	
LEASEOREO "25" FEDERAL COM No. 2	

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

SECTION 24, COWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M. EDDY COUNTY **NEW MEXICO**



CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

BEGINNING at a point in an existing road, from which point the southwest corner of Section 24, T-18-S, R-29-E, N.M.P.M., Eddy County, New Mexico, bears S 89° 37' 49" W, 1682.6 feet and S 00° 08' 43" E, 1010.3 feet; THENCE S 37° 17' 34" E, with the centerline of proposed road, 1263.7 feet to a point in the south line of said Section 24, for the end of this road, from which point the southwest corner of said Section 24 bears S 89° 37' 49" W, 2445.8 feet.

Exhibit 2A(1)

PROPOSED ROAD TO SERVE OREO "25" FEDERAL COM No. 2

EOG RESOURCES INC.

1263.7 feet of proposed road in Section 24, T-18-S, R-29-E, N.M.P.M., Eddy County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS	MIDLAND, TEXAS		
Survey Date: 3-26-02	Date: 3-27-02	Scale: 1" = 1000'	
WTC No.: 46515	Drawn By: JWD	Sheet 1 of 3	

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of New Mexico.

JAMES E. TOMPKING IRVEYOR Hames 5 RE PROFESSIONAL Mr.

JAMES E. TOMPKINS Registered Professional Surveyor New Mexico Certificate No. 14729





CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

BEGINNING at a point in the west line of the NW/4 of the NE/4 of Section 25, T-18-S, R-29-E, N.M.P.M., Eddy County, New Mexico, from which point the northeast corner of said Section 25 bears N 00° 10' 47" W, 253.7 feet and N 89° 37' 49" E, 2637.2 feet;

THENCE S 37° 17' 34" E, with the centerline of proposed road, 270.7 feet to a point for a bend in this road; THENCE N 89° 37' 18" E, with the centerline of proposed road, 304.2 feet in the northwest corner of a well pad for EOG Resources, Inc. OREO "25" FEDERAL COM No. 2, for the end of this road, from which point the northeast corner of said Section 25 bears N 89° 37' 49" E, 2170.0 feet and N 00° 13' 01" W, 470.0 feet.

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all	
requirements for land surveys as specified by the state of New Mexico.	
INTES E. TOMPHING	
James E. Empres	
JAMES E. TOMPKINS	ENGINEER
JAMES E. TOMPKINS Registered Professional Surveyor	Survey Date
New Mexico Certificate No. 14729	WTC No.: 46

Exhibit 2A(2) PROPOSED ROAD TO SERVE OREO "25" FEDERAL COM No. 2

EOG RESOURCES INC.

574.9 feet of proposed road in Section 25, T-18-S, R-29-E, N.M.P.M., Eddy County, New Mexico

WEST TEXAS CONSULTANTS, INC.

WTC No.: 46515	Drawn By: JWD	Sheet 3 of 3	
Survey Date: 3-26-02	Date: 3–27–02	Scale: 1" = 1000'	
ENGINEERS-PLANNERS	MIDLAND, TEXAS		

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Exhibit 4







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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.: NMNM0437522

Legal Description of Land: NW/4 NE/4 Section25, T18S, R29E, NMPM EddyCo., 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

mike Trance Authorized Signature: Mike Francis

Title: Agent

Date: 4/11/02



EOG Resources, Inc. P.O. Box 2267 Midland, TX 79702 (915) 686-3600

April 11, 2002

Bureau of Land Management 2909 West Second St. Roswell, NM 88202

RE: APD

Oreo "25" Fed. Com. No. 2 NM NM 0437522

Gentlemen,

Please be advised EOG Resources, Inc. and Steve Haines (Surface Owner) have reached an agreement concerning surface use for the referenced well.

Thanking you for your attention to this matter I am very truly yours,

Mike Eran

Mike Francis