FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

NM17225 Drillsite If Indian, Allottee or Tribe Name

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANGEMENT**

APPLICATION FOR PERMIT TO DRILL OR REENTER DRILL REENTER 1a. Type of Work: 7. If Unit or CA Agreement, Name and No. Lease Name and Well No. Oil Well X Gas Well Ross Draw "31" Federal Com No. 1 Type of Well: Single Zone Multiple Zone Name of Operator API Well No. EOG Resources, Inc. 30 - 015 - 3 3b. Phone No. (include area code) Address 10. Field and Pool, or Exploratory (915)686-3714 P.O. Box 2267, Midland, TX 79702 (Wolfcamp) Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T., R., M., or Blk. And Survey or Area At surface 660' FSL & 1,570' FEL (Unit Letter G) Sec 31, T26S, R30E At proposed prod. Zone Same as surface 14. Distance in miles and direction from nearest town or post office 13. State 16 miles SE from Malaga NM 15. Distance from proposed* 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. 660 969.1 N/2 (Also to nearest drig. Unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. on file to nearest well, drilling, completed NM2308 applied for, on this lease, ft. 12,500 21. Elevations (Show whether DF, KDB, RT, GL, etc) 22. Approximate date work will start* 23. Estimated duration GL2905 10/1/2000 30 days 24. Attachments The following completed in accordance with the requirements of Onshore Oil an Gas Order No. 1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest Sytem Lands, the Operator certification. SUPO shall be filed with the appropriate Forest Service Office) 6. Such other site specific information and/or plans as may be required by the authorized officer.

Name (Printed/Typed) Approved by (Signature) Office Title

RUSWELL FULLY:

Name (Printed/Typed)

Mike Francis

Application approval de Application application approval de Application applic

Conditions of approval, if any, are attached

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisidiction.

*(Instructions on reverse)

25. Signature

Title

Form 3160-3

(August 1999)

APPROVAL SUBJECT TO

8/25/2000

APPROVED FOR 1 YEAR

unlsbad controlled water basin

Assistant Field Manager



· 2 · 4 ·

*

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Depart.

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

___ AMENDED REPORT

		V	VELL LO	CATIO	N AND ACI	REAGE DEDI	CATION P	LAT		
'API Number				Pool Code				lame		
				U 1000)		Wolfcamp)			
Property Code			⁴ Property Name					*Well Number		
			ROSS DRAW "31" FEDERAL COM					1		
'ogrid 7377	1				*Operator			*Elevation		
/3//					EOG RESOUI					2905
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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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EOG RESOURCES, INC. ROSS DRAW "31" FEDERAL COM NO. 1

660' FSL & 1,570' FEL SEC. 31, T26S, R30E EDDY COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Delaware	3330
Cherry Canyon	4350'
Bone Spring	7200'
2 nd Bone Spring Sd	8800'
3 rd Bone Spring Sd	10000'
Wolfcamp	10420'
Wolfcamp Pay	11740'

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

Upper Permian Sands 100'

Fresh Water

Wolfcamp

11,700'

Gas

4. CASING PROGRAM

Hole Size	Interval	OD Casing	Weight Grade Jt. Cond. Type
14 3/4	0-850'	11 3/4"	42# H-40 ST&C
11"	0-4000'	8 5/8"	32# J-55 LT&C
7 7/8"	0-11950'	5 1/2"	17# S95/P110 L&TC
4 3/4"	0-12500'	2 7/8"	6.5# N80

Cementing Program:

11 3/4" Surface Casing: Cement to surface with 220 sx Prem Plus, 3%

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

150 sx Prem Plus, 2% Calcium Chloride

8 5/8" Intermediate: Cement to surface with 715 sx Interfill C, .25#/sx

flocele, 250 sx Premium Plus, 2% Calcium Chloride

5 ½" Production Casing: Cement w/775 sx Premium, 3% Econolite, 5#/sx

Salt, .25#/sx Flocele, 250 sx Prem 50/50 Poz mix 'A', 2% Halliburton-Gel First 2%, 0.5% Halad-322,

0.2% HR-5. This is designed to bring TOC to

3500'.

2 7/8" Casing: 100 sx Prem, 0.3% Halad-344, 0.3% Halad-413,

0.3% Super CBL, .15% SCR-100

This designed to bring TOC to 11500 +/-.

EOG RESOURCES, INC. ROSS DRAW "31" FEDERAL COM NO. 1 660' FSL & 1,570' FEL SEC. 31, T26S, R30E EDDY COUNTY, NM

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1 and #2)

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 to 600 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/1000 psi and the annular to 3500/5000-psig pressure. The blowout preventer equipment (BOP) shown in Exhibit 2 will consist of a double ram-type (10,000 psi) preventer and an annular preventer (10,000 psi) from 11,700' to TD. Before drilling below 2nd Intermediate ram type BOP and accessory equipment will be tested to 10,000/1,000 psi and the annulus to 5000/1000. This equipment will be used from ±11,950' to TD.

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)
0-850'	Fresh Water (spud)	8.5	40-45	N.C.
1000'-4000'	Brine Water	10.0	30	N.C.
4000'-11950'	Fresh Water	8.4	28	N.C.
11700'-12500'	Brine & Polymer xcd	10-14.0	28/45	0/<1 CC

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 2000' to TD.

EOG RESOURCES, INC.
ROSS DRAW "31" FEDERAL COM NO. 1
660' FSL & 1,570' FEL
SEC. 31, T26S, R30E
EDDY COUNTY, NM

8. LOGGING, TESTING AND CORING PROGRAM:

- (A) The electric logging program 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.
- (B) 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 8000 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.
ROSS DRAW "31" FEDERAL COM NO. 1
660' FSL & 1,570' FEL
SEC. 31, T26S, R30E
EDDY COUNTY, NM

SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS:

Access to location will be made as shown on Exhibit #3

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:

0' of new road is required.

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 #4 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:

Water for drilling will be purchased from commercial sources and transported to the well site over the roads as shown on Exhibit #3.

EOG RESOURCES, INC.
ROSS DRAW "31" FEDERAL COM NO. 1
660' FSL & 1,570' FEL
SEC. 31, T26S, R30E
EDDY COUNTY, 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 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 #5 shows the relative location and dimensions of the well pad.

EOG RESOURCES, INC.
ROSS DRAW "31" FEDERAL COM NO. 1
660' FSL & 1,570' FEL
SEC. 31, T26S, R30E
EDDY COUNTY, 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.

W. D. Smeltzer Drilling Manager

Date: 8-25-63

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EOG RESOURCES, INC. ROSS DRAW "31" FEDERAL COM NO. 1 660' FSL & 1,570' FEL SEC. 31, T26S, R30E EDDY COUNTY, NM

ATTACHMENT TO EXHIBIT #1 & #2

- 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 and 10,000 psi W.P. minimum, Exhibit #2.
- 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.

Ross Draw "31" Federal Com No. 1 well

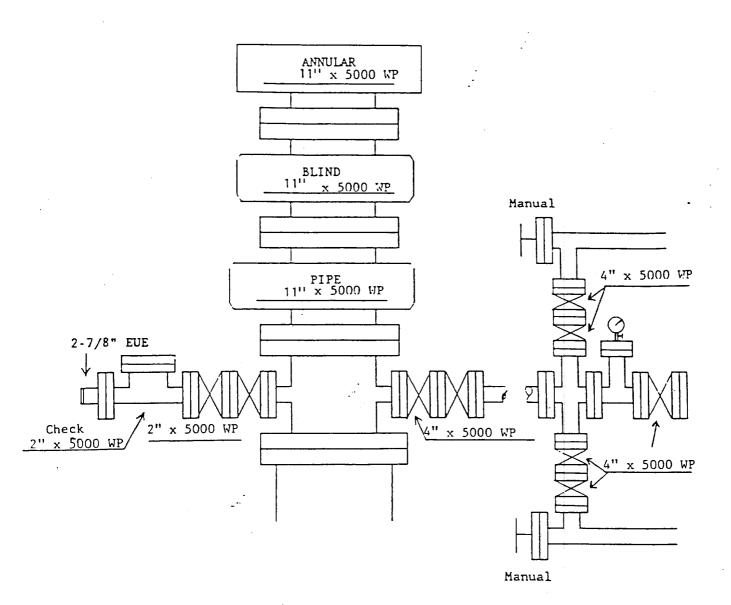


Exhibit 1

S. C. 5

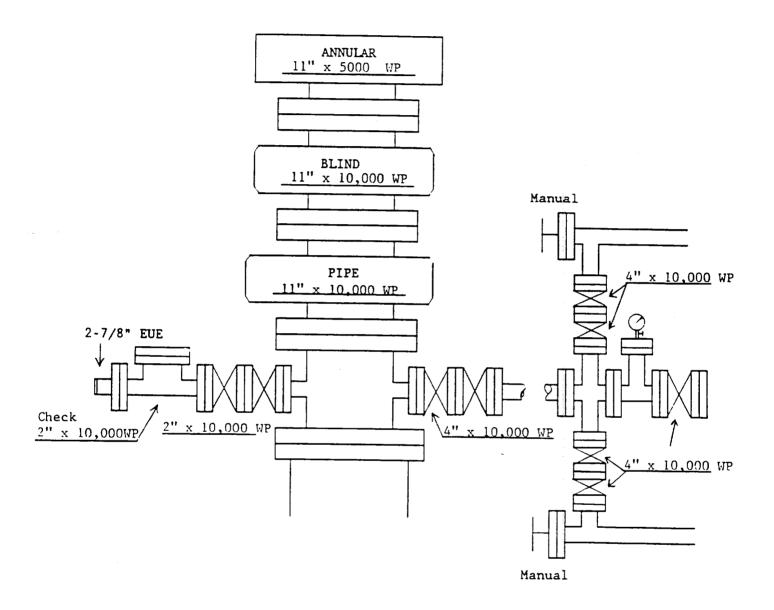


Exhibit 2

LC TION VERIFICATION LAP

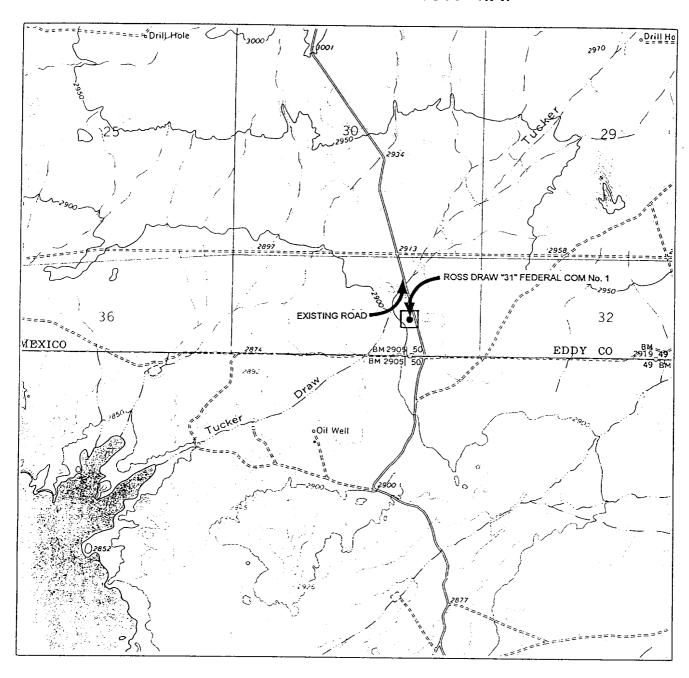


 Exhibit 3

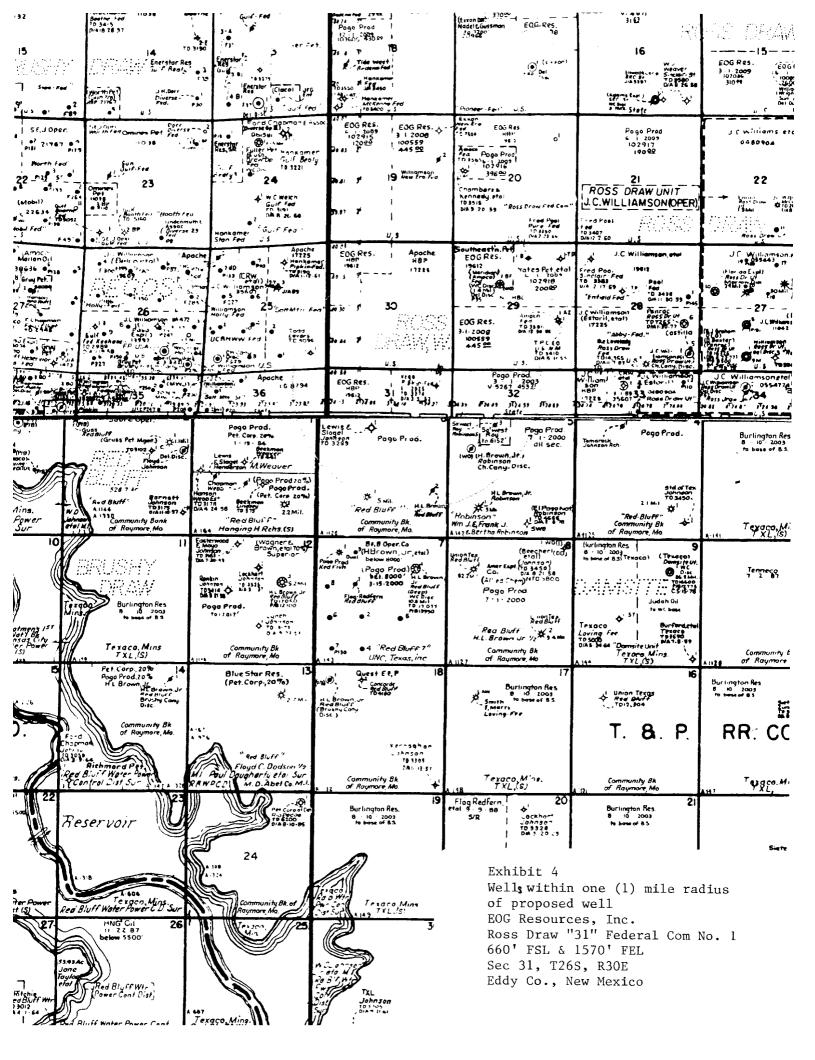
CONTOUR INTERVAL 10'

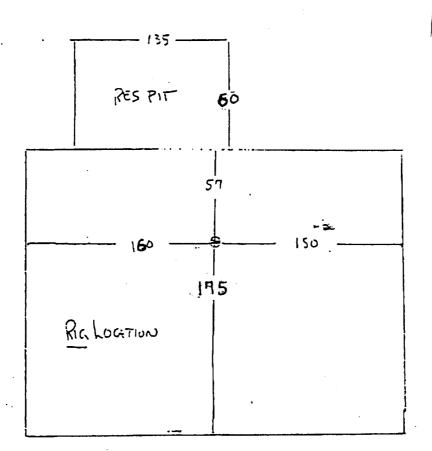
WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800





292

Statement Accepting Responsibility For Operations

Operator Name:

EOG Resources, Inc.

Street or Box:

P.O. Box 2267

City, State:

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.:

NM17225

Legal Description of Land: Section 31, T26S, R30E, NMPM

Eddy Co., NM

Formation(s) (if applicable):

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

Individually

BLM Bond File No.: MT-0748 with endorsement to State of NM

Authorized Signature: Mike Zrane

Title: Agent

Date: 8/25/00