dyr

(Augu	3160-3 ust 1999) OCD RECEIVED ARTES DEPARTMENT OF THE IN BUREAU OF LAND MANO APPLICATION FOR PERMIT TO E Type of Work: X DRILL RE	NTERIOR SEMENT			OMB No.		
	Type of Well: Oil Well Gas Well Other	Single	ZoneMulti	ple Zone	8. Lease Name and Wel Canadian "6" 9. API Well No.		
	EOG Resources, Inc. 7377				30-015-	31601	
3a. A	Address P.O. Box 2267, Midland, TX 79702	3b. Phone (915)686-371	No. <i>(include area i</i> 14	code)	10. Field and Pool, or Ex North Shugar	ploratory	
4. L	ocation of Well (Report location clearly and in accorda	nce with any	State requiremen	ts.*)	11. Sec., T., R., M., or Bl	k. And Survey or Area	
4	At surface 1,650' FSL & 1,780' FWL (U/L K)				Sec 6, T18S, R31E		
	At proposed prod. Zone Same as surface					Y - · · · · · · · · · · · · · · · · · ·	
14.	Distance in miles and direction from nearest town or po	st office*			12. County or Parish	13. State	
	3 miles SE to Loco Hills	T		<u> </u>	Eddy	NM	
ķ	Distance from proposed* ocation to nearest property or lease line, ft. 1,650' Also to nearest drig. Unit line, if any) same	16. No. of A	cres in lease	17. Spacing	g Unit dedicated to this w	eil	
	Distance from proposed location* o nearest well, drilling, completed	19. Propose	Depth	20. BLM/BI	A Bond No. on file		
	pplied for, on this lease, ft. 200'	 	12,100'		NM2308		
21. E	Elevations (Show whether DF, KDB, RT, GL, etc)	22. Approxir	nate date work wi	li start*	23. Estimated duration		
	3,597'	24 /	2/15/2000 Attachments		30 days		
The fo	flowing completed in accordance with the requirements of C			hall be attach	ed to this form:		
THE	nowing completed in accordance with the requirements of c	Zisiole Oli ali	Gas Older No. 1, s	iiali be attaciji	ed to this form.		
	ell plat certified by a registered surveyor. Drilling Plan.		4. Bond to cover	•	unless covered by an exist	ing bond on file (see	
	Surface Use Plan (if the location is on National Forest Sytem	lands the	5. Operator certi	•			
	PO shall be filed with the appropriate Forest Service Office)		1		rmation and/or plans as may	v be required by the	
	, comment of the comm		authorized offi	-		,,	
25. Si	ignature 27	Name (Print	ed/Typed)	,	Date		
	nike crance	Mike Fran	cis		1/2/2001		
Title							
Age	ent						
• • • •	ved by (Signature) A. 1940(199)	Name (Print	ed/Typed)	THE S	Date p	9 2001	
T:41 -		06500					

Application approval does not warrant or certify the applicant holds legal or equitable title to those rightes in the subject lease which would entitle the applicant to conduct operations theron.

Conditions of approval, if any, are attached

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)

CAPITAN CONTROLLED WATER BASIN

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

P. Pop.

 District I PO Box 1980, Hobbs, NM 88241-1980 PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

State of New Mexico Energy, Minerals & Natural Resources Department

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

AMENDED REPORT

Fee Lease - 3 Copies PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code ¹API Number North Shugart (Morrow) 'Property Code *Property Name Well Number CANADIAN "6" FEDERAL COM OGRID No. Operator Name *Elevation EOG RESOURCES INC. 3597 7377 ¹⁰ Surface Location Lot Idn Feet from the North/South line Feet from the East/West line UL or lot no. Section Township Range County 1650 SOUTH 1780 WEST 6 18-S 31-E **EDDY** Κ Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Feet from the East/West line UL or lot no. Section Township County Dedicated Acres "Joint or Infill "Consolidation Code "Order No. ALCOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and ballef. Mike Francis Printed Name Agent Title 1/2/01 Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to best of my belief. 1780 EOG RESOURCES INC. CANADIAN "6" FEDERAL COM No. 1 Date of Surveys ELEV .= 3597' r=645397.89 gurveyor: X=629953.49 LAT.=32'46'24.88" LONG.=103°54'37.93" PROFESSION

Certificate Number

14729

EOG RESOURCES, INC.
CANADIAN "6" FEDERAL COM NO. 1
1,650' FSL & 1,780' FWL
SEC. 6, T18S, R31E
EDDY COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

2,700°
3,600'
5,000'
8,800'
10,600'
10,900'
11,400'
11,850'

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

Upper Permian Sands	Above 250'	Fresh Water
Grayburg/San Andres	3,000'	Oil
Strawn	10,500'	Oil
Atoka	11,000'	Gas
Morrow	11,400'	Gas

4. CASING PROGRAM

Hole Size	Interval	OD Casing	Weight Grade Jt. Cond. Type
14 3/4	0-650'	11 3/4"	42# H-40 ST&C
11"	0-4200'	8 5/8"	32# J-55 LT&C
7 7/8"	0-12100	5 ½"	17# N80/S95 L&TC



Cementing Program:

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 ½" 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'.

EOG RESOURCES, INC. CANADIAN "6" FEDERAL COM NO. 1 1,650' FSL & 1,780' FWL SEC. 6, T18S, R31E EDDY COUNTY, 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 to 600 psi 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	Viscosity	Waterloss
<u>Depth</u>	<u>Type</u>	(PPG)	(sec)	(cc)
0-650'	Fresh Water (spud)	8.5	40-45	N.C.
650'-4000'	Brine Water	10.0	30	N.C.
4000'- 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.

EOG RESOURCES, INC.
CANADIAN "6" FEDERAL COM NO. 1
1,650' FSL & 1,780' FWL
SEC. 6, T18S, R31E
EDDY COUNTY, NM

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.

EOG RESOURCES, INC.
CANADIAN "6" FEDERAL COM NO. 1
1,650' FSL & 1,780' FWL
SEC. 6, T18S, R31E
EDDY COUNTY, 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:

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 #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. CANADIAN "6" FEDERAL COM NO. 1 1,650' FSL & 1,780' FWL SEC. 6, T18S, R31E 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 #4 shows the relative location and dimensions of the well pad.

EOG RESOURCES, INC.
CANADIAN "6" FEDERAL COM NO. 1
1,650' FSL & 1,780' FWL
SEC. 6, T18S, R31E
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. Dewey Smeltzer Division Drilling Manager

UD Smil 20 Date: 1-62-4

EOG RESOURCES, INC. CANADIAN "6" FEDERAL COM NO. 1 1,650' FSL & 1,780' FWL SEC. 6, T18S, R31E EDDY COUNTY, 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.

EOG Resources, Inc.

Canadian "6" Federal Com No. 1

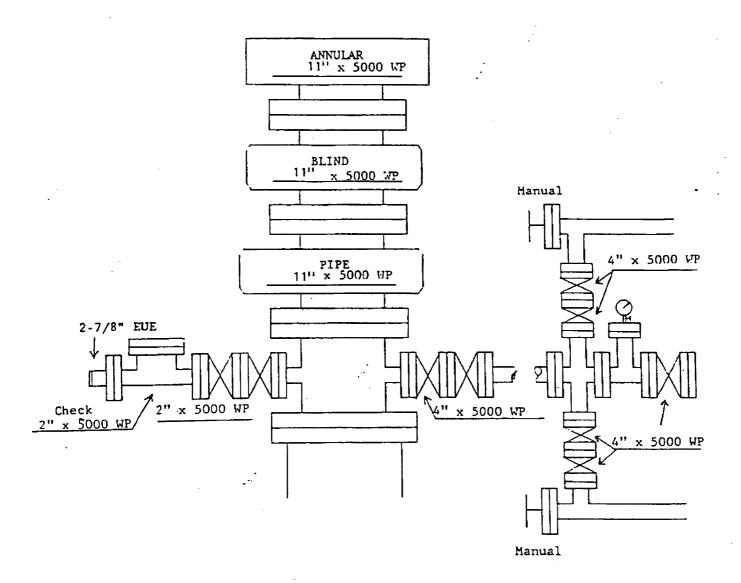


Exhibit 1

LOCATION VERIFICATION MAP

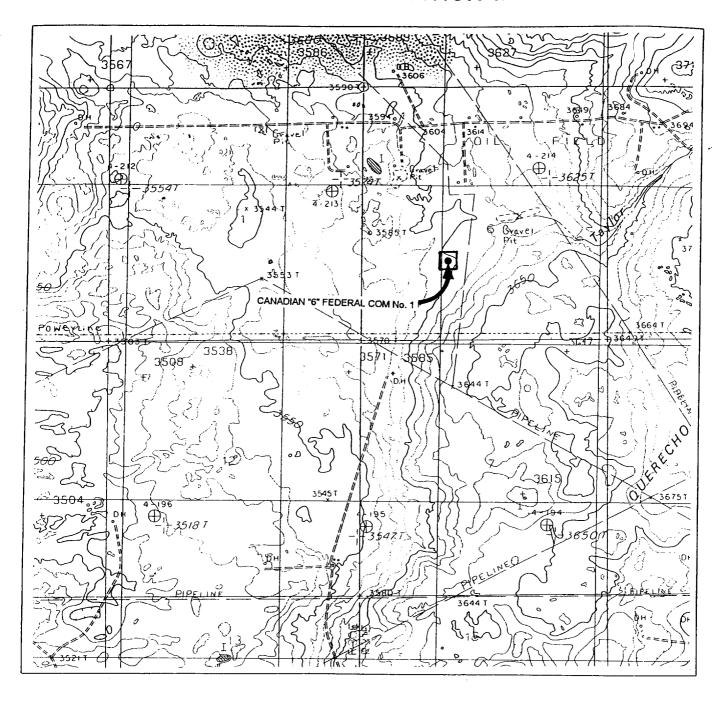


Exhibit 2

SCALE: 1" = 2000' WTC 46126

SEC. __6 __TWP. __18-S __RGE. __31-E

SURVEY ____N.M.P.M

COUNTY ____EDDY ___STATE __NM

DESCRIPTION __1650' FSL & 1780' FWL

ELEVATION ____3597'

OPERATOR ____EOG RESOURCES, INC.

LEASE ____CANADIAN "6" FEDERAL COM No. 1

USGS TOPO MAP _LOCO HILLS, NEW MEXICO

CONTOUR INTERVAL 10

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

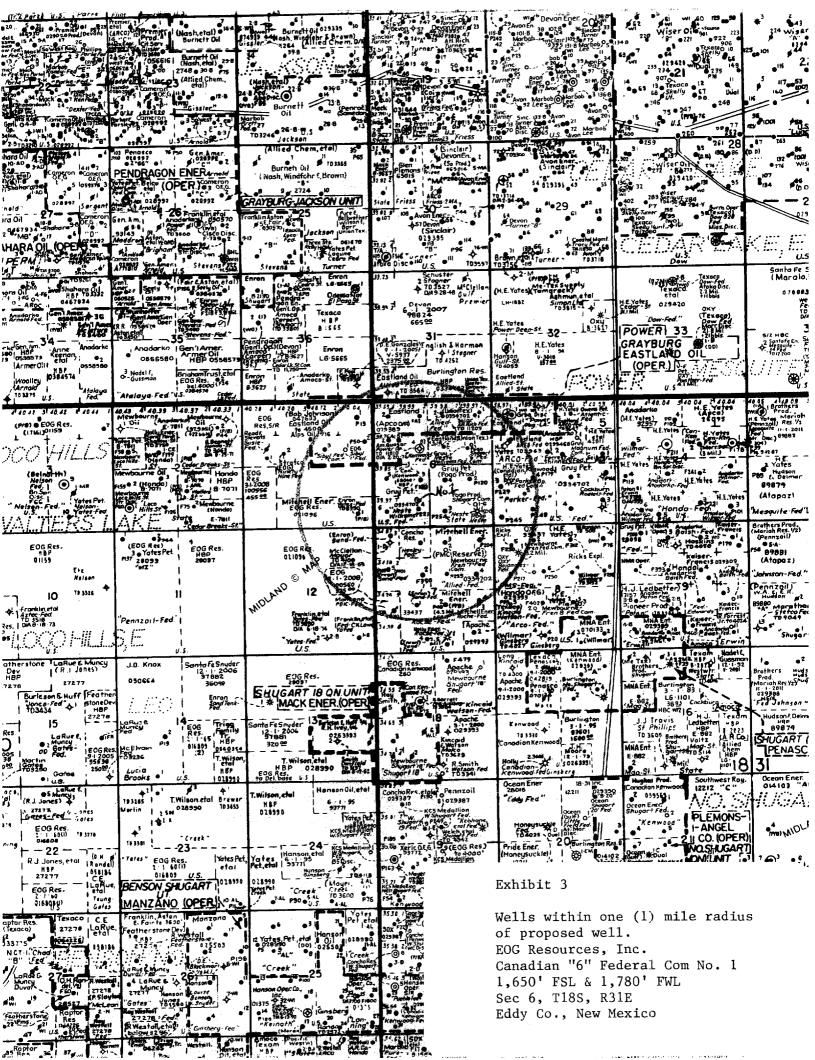
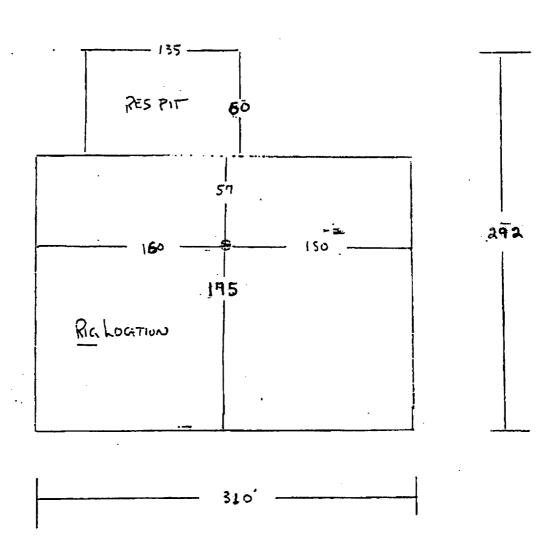


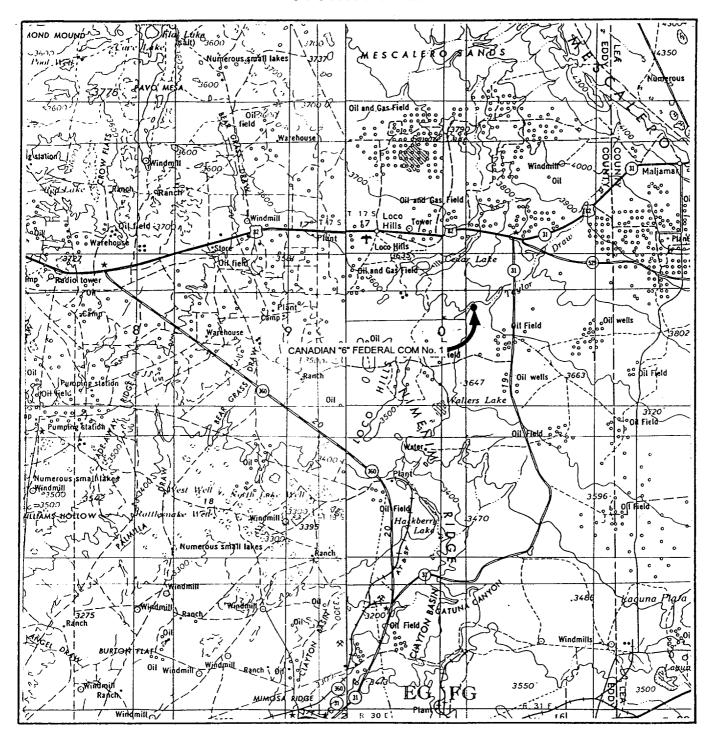
Exhibit 4

Canadian "6" Federal Com No. 1



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VICINITY MAP



SCALE: 1" = 4 MILES

3EC	١٧٧٢.		<u> 10-0</u>	^	GE	31-E	
SURVEY	N.M.P.M.						
COUNTY	EDDY			ST/	ATE	NM	
DESCRIPTION	1650	FSL	&	1780	FWL		
ELEVATION _	3597						

OPERATOR ____EOG RESOURCES, INC.

LEASE CANADIAN "6" FEDERAL COM No. 1

WTC 46126

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS MIDLAND, TEXAS 915-685-3800

Statement Accepting Responsibility For Operations

Operator Name:

EOG Resources, Inc.

Street or Box:

P.O. Box 2267 Midland, TX

City, State: 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.:

NM68039

Legal Description of Land: Section 6, T18S, R31e, NMPM

Eddy 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: Mohallane

Title: Agent

Date: <u>1/2/01</u>