N. M. Oil Cons. Division

$\langle S \rangle$	MILEON, 14M 965 KT-70	34	$C\!\!\!/\!\!\!\!/$
Form 3160 BECEIVED (Alugus 01999). ARTESIA			FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000
UNITED STATES	2		5. Lease Serial No.
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANGEMENT			NM14847
			6. If Indian, Allottee or Tribe Name
			5. If finding Allottee of Tibe Name
APPLICATION FOR PERMIT TO I	DRILL OR REENTER		=
1a. Type of Work: X DRILL	EENTER		7. If Unit or CA Agreement, Name and No.
1b. Type of Well: Oil Well X Gas Well Othe	r Single Zone Mult	iple Zone	Lease Name and Well No. Warp Speed Federal Com No. 1
2. Name of Operator EOG Resources, Inc. 7377			9. API Well No.
3a. Address	3b. Phone No. (include area	code)	10. Field and Pool, or Exploratory
P.O. Box 2267, Midland, TX 79702	(915)686-3714		Empire South The Angel
4. Location of Well (Report location clearly and in accorda	•	•	11. Sec., T., R., M., or Blk. And Survey or Area
At surface 1,980' FNL & 800' FWL	Unit E bo	+ 1	Sec 7, T17S, R29E
At proposed prod. Zone SAME AS Surface	Unit E bo		
14. Distance in miles and direction from nearest town or po	st office*		12. County or Parish 13. State
7.5 miles NW from Loco Hills			Eddy NM
15. Distance from proposed* location to nearest	16. No. of Acres in lease	f Acres in lease 17. Spacing Unit dedicated to this well	
property or lease line, ft. 800'		N/2 292.32	ac
(Also to nearest drlg. Unit line, if any) same	440		
 Distance from proposed location* to nearest well, drilling, completed 	19. Proposed Depth	20. BLM/B	IA Bond No. on file
applied for, on this lease, ft. 1320'	11000	<u> </u>	NM-2308
21. Elevations (Show whether DF, KDB, RT, GL, etc)	22. Approximate date work w	rill start*	23. Estimated duration
GL-3694	8/1/2000		30 days
	24. Attachments		
The following completed in accordance with the requirements of C	ROSWE	LL CON'	TROLLED WATER BASIN
Well plat certified by a registered surveyor.		•	s unless covered by an existing bond on file (see
2. A Drilling Plan.	Item 20 above	e)	
A Surface Use Plan (if the location is on National Forest Sytem	Lands, the 5. Operator cert	ification.	
SUPO shall be filed with the appropriate Forest Service Office)	6. Such other si authorized off		ormation and/or plans as may be required by the
25. Signature Prance	Name (Printed/Typed)		Date
	Mike Francis		; 6/22/2000
Title Agent			
Approved by (Signature) /S/LARRY D. BRAY	Name (Printed/Typed)		AUG 2 2 2000
Title Acciotant Title	Office ROSWELL FIELD	OFFICE	APPROVED FOR 1 YEAR
Assistant Field Manages Application approval does not warrant or certify the Asses holds legal of	r equitable title to those rightes in the	subject lease	which would entitle the applicant to conduct
Application approval does not warrant or certify the attacks holds legal of operations the order of a common of the common of th		,	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1.12, make it a	* * * * * * * * * * * * * * * * * * * *	villfully to make	to any department or agency of the United
States any false, fictitious or fraudulent statements or representations as	o any matter within its jurisidiction.		

*(Instructions on reverse)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

aca. 7/13/2000



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 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 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Empire South (Morrow) *Property Code Property Name Well Number WARP SPEED FEDERAL COM. OGRID No. Operator Name *Elevation 7377 EOG RESOURCES INC. 3694 ¹⁰ Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Ε 7 17-S 29-E 1980 NORTH 800 WEST **EDDY** Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Section Township Feet from the Range North/South line Feet from the East/West line County Dedicated Acres 13 Joint or Infill 14 Consolidation Code 16 Order No. 292.32 N/2 NO ALLOWABLE 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 belief. nike Trance <u>Mike Francis</u> Printed Name EOG RESOURCES INC. 800 WARP SPEED FEDERAL COM No. 1 Agent ELEV.=3694' Title Y=673298 35 X=566055.69 6/22/00 LAT.=32°51'02.86" LONG.=104'07'05.65" 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. MAY Date of Survey Signature and Seal Certificate Number 14729

EOG RESOURCES, INC. WARP SPEED FEDERAL COM NO. 1 1,980' FNL & 800' FWL SEC. 7, T17S, R29E EDDY COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

2,350°
5,875'
7,250'
9,650'
9,900'
10,225'
10,500°
10,625'

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

Upper Permian Sands	Above 250'	Fresh Water
Grayburg/San Andres	2,300'	Oil
Strawn	10,000'	Oil
Atoka	9,900'	Gas
Morrow	10,275'	Gas

4. CASING PROGRAM

Hole Size	<u>Interval</u>	OD Casing	Weight Grade Jt. Cond. Type
14 3/4	0-450'	11 3/4"	42# H-40 ST&C WITNESS
11"	0-2650'	8 5/8"	32# J-55 LT&C
7 7/8"	0-10800'	5 1/2"	17# S95/P110 L&TC

Cementing Program:

11 3/4" Surface Casing: Cement to surface with 125 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 400 sx Interfill C, .25#/sx

flocele, 250 sx Premium Plus, 2% Calcium Chloride

5 ½" Production: Cement w/850 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.
WARP SPEED FEDERAL COM NO. 1
1,980' FNL & 800' FWL
SEC. 7, T17S, R29E
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>	Type	(PPG)	<u>(sec)</u>	(cc)
0-450'	Fresh Water (spud)	8.5	40-45	N.C.
450'-2650'	Brine Water	10.0	30	N.C.
2650'- 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.
WARP SPEED FEDERAL COM NO. 1
1,980' FNL & 800' FWL
SEC. 7, T17S, R29E
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.
WARP SPEED FEDERAL COM NO. 1
1,980' FNL & 800' FWL
SEC. 7, T17S, R29E
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:

1371' 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 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.
WARP SPEED FEDERAL COM NO. 1
1,980' FNL & 800' FWL
SEC. 7, T17S, R29E
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.
WARP SPEED FEDERAL COM NO. 1
1,980' FNL & 800' FWL
SEC. 7, T17S, R29E
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

Woldnoh Date: 6-23-00

EOG RESOURCES, INC. WARP SPEED FEDERAL COM NO. 1 1,980' FNL & 800' FWL SEC. 7, T17S, R29E 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.

Warp Speed Federal Com No. 1

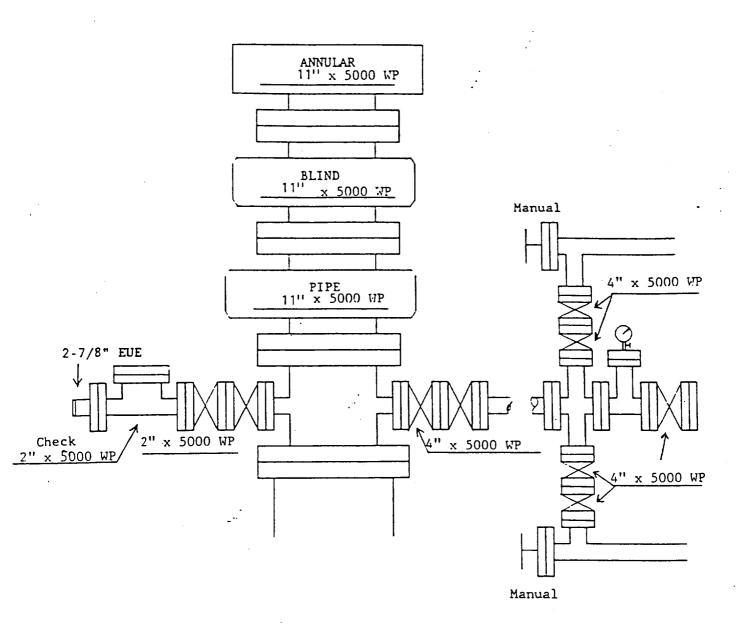


Exhibit 1

LOCATION VERIFICATION MAP

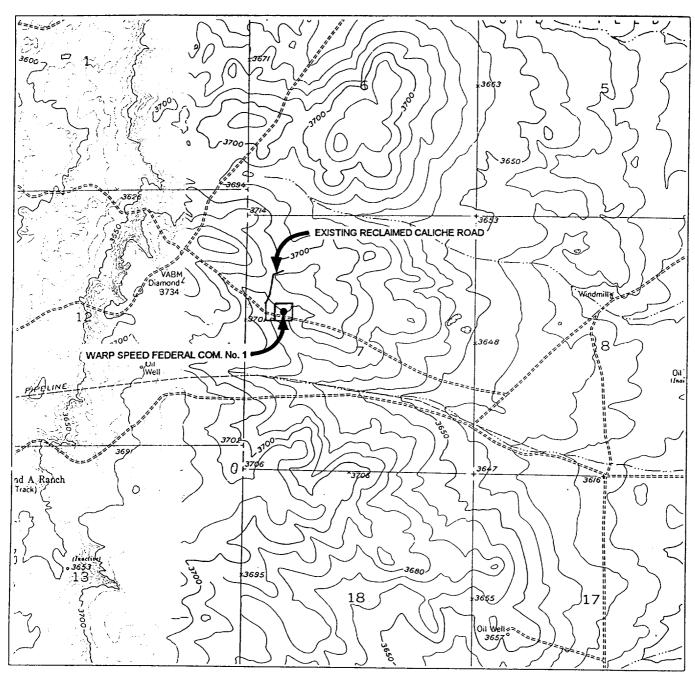


Exhibit 2

SCALE: 1" = 2000' WTC 45917

SEC. 7 TWP. 17-S RGE. 29-E

SURVEY N.M.P.M

COUNTY EDDY STATE NM

DESCRIPTION 1980 FNL & 800 FWL

ELEVATION 3694'

OPERATOR EOG RESOURCES, INC.

LEASE WARP SPEED FEDERAL COM No. 1

USGS TOPO MAP RED LAKE AND RED LAKE SE, NEW MEXICO

CONTOUR INTERVAL 10

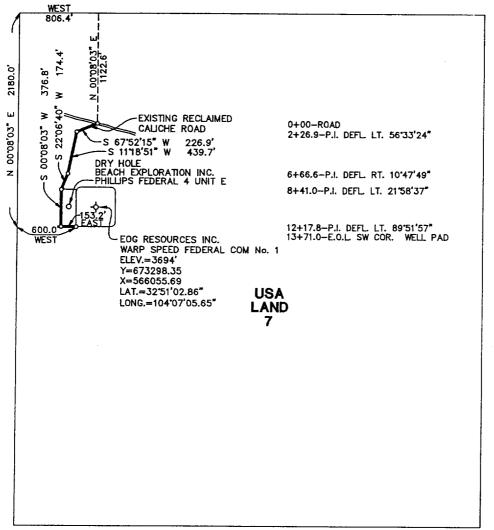
WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

SECTION 7, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



CENTERLINE DESCRIPTION OF AN EXISTING RECLAIMED CALICHE ROAD:

BEGINNING at a point in an existing road, from which point the northwest corner of Section 7, T-17-S, R-29-E, N.M.P.M., Eddy County, New Mexico, bears N 00° 08' 03" E, 1122.6 feet and West 806.4 feet;

THENCE with the centerline of existing reclaimed caliche road as follows: S 67° 52' 15" W, 226.9 feet; S 11° 18' 51" W, 439.7 feet; S 22° 06' 40" W, 174.4 feet; S 00° 08' 03" W, 376.8 feet; and East 153.2 feet to a point in the southwest corner of a well pad for EOG Resources Inc. WARP SPEED FEDERAL COM No. 1 for the end of this road, from which point the northwest corner of said Section 7 bears West 600.0 feet and N 00° 08' 03" E, 2180.0 feet.

Exhibit 2A

EXISTING RECLAIMED CALICHE ROAD TO SERVE WARP SPEED FEDERAL COM No. 1

EOG RESOURCES INC.

1371.0 feet of existing reclaimed caliche road in Section 7, T-17-S, R-29-E, N.M.P.M., Eddy County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS		MIDLAND, TEXAS
Survey Date: 5—31—00	Date: 6-5-00	Scale: 1" = 1000"
WTC No.: 45917	Drawn By: JWD	Sheet 1 of 1

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. TOMPKINS

JAMES E. TOMPKINS

PROFESSIONAL INTERPREDATE TOMPKINS

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

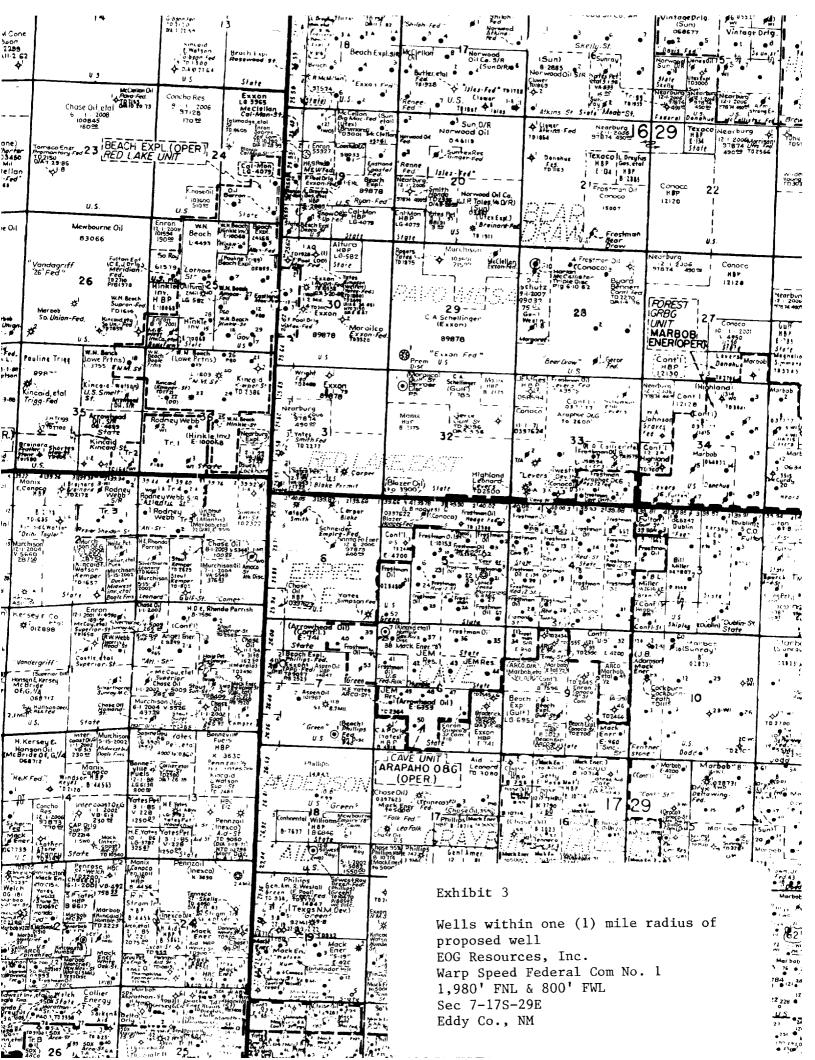
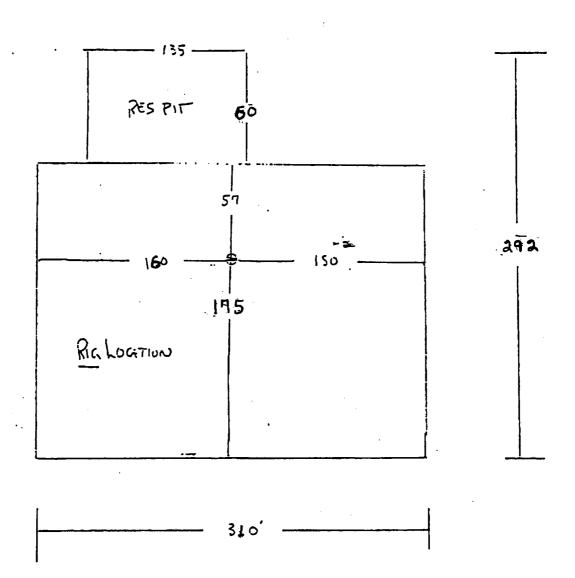


Exhibit 4

EOG Resources, Inc.

Warp Speed Federal Com No. 1



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Statement Accepting Responsibility For Operations

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

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_	.ca	JU	1.4	v.	

NM 14847

Legal Description: Section 7, T17S, R29E

Eddy Co., NM

Formation(s):

Bond Coverage: Individually with Endorsement to State of New Mexico

BLM Bond File No.: NM-2308

Authorized Signature: Mike Transis

Title: Agent

Date: 6/22/2000