N. M. Oil Cons. Division 811 0. 181 31. ARTONIA, NW 83216-9884

Form 3160-3 (August 1999) 15678970772370

FORM APPROVED OMB No. 1004-0136

operations theron. Conditions of approval, if any, are attached	. I dance of the fi	ngates in the	I	човы слине иге аррі	ioditi to conduct	
Lands And Minerals	Acting Acting Acting the Acting t					
Canal Soul Astrantic in 1957	10/194	E. DOEG AGMAN	66 A. 1914		A Stand	
Approved by (Signature)	Name (Printe	ed/Typed)		Date		
Agent						
Title	Mike Franc	UI3		7/11/20	JUU	
25. Signature	Name (Printe	. ,		Date 7111/20	200	
25 Signature	Name (Print)	authorized offi	•			
SUPO shall be filed with the appropriate Forest Service Office)		1		rmation and/or plans as	may be required by the	
A Surface Use Plan (if the location is on National Forest Sytem	Lands, the	5. Operator certif				
A Drilling Plan.		Item 20 above	-	s umess covered by an e	raising bond on the (see	
Well plat certified by a registered surveyor.	on all				existing bond on file (see	
The following completed in accordance with the requirements of C			hall be attach	ed to this form		
GL3597	24 4	9/1/2000 24. Attachments				
21. Elevations (Show whether DF, KDB, RT, GL, etc)	22. Approxim	nate date work wi	ll start*	23. Estimated duration 30 days	on	
applied for, on this lease, ft. 50	10,300'			NM-2308		
18. Distance from proposed location* to nearest well, drilling, completed	19. Propose	на рертп	20. BLM/BI	A Bond No. on file		
(Also to nearest drig. Unit line, if any) same	325.75	· · · · · · · · · · · · · · · · · · ·	20 51 145	W/2 320		
location to nearest property or lease line, ft. 1140		_				
15. Distance from proposed*	16. No. of A	cres in lease	17. Spacin	g Unit dedicated to thi	s well	
				Eddy	NM	
14. Distance in miles and direction from nearest town or po			 -	12. County or Parish	13. State	
At proposed prod. Zone same as surface	Ú'n,	, , , , , ,		Jec 13, 11/3, R20E		
At surface 1,140' FNL & 1,650' FWL		•	•	Sec 19, T17S, R28E		
4. Location of Well (Report location clearly and in accord	-1`		ts.*)		or Blk. And Survey or Area	
P.O. Box 2267, Midland, TX 79702	(915)686-37	•	voue,	Wildcat & m		
EOG Resources, Inc.	3h Phone	No. (include area	codel	10. Field and Pool, o	<u> 5- </u>	
2. Name of Operator MORT;				9. API Well No.	- 7 17 ar-	
1b. Type of Well: Oil Well X Gas Well Other	er Single	Zone Multi	ple Zone	8. Lease Name and Starbuck "19" Fed Cor		
1a. Type of Work: X DRILL	REENTER	200000000000000000000000000000000000000		1	eement, Name and No.	
APPLICATION FOR PERMIT TO	DRILL OR 1		10 ¹ /			
BUREAU OF LAND MAN	GEMENT	OCD . ,	\$\frac{\partial}{2}	6. If Indian, Allottee	or Tribe Name	
DEPARTMENT OF THE I	NTERIOR	RECEITESI	(4)	LC-050349(A)		
UNITED STATE	s 📆	RECEIVED OCD - ARTEST	1516171810.	5. Lease Serial No.	November 30, 2000	
	, .	A ;	7.1	Evniree	November 20, 2000	

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)



DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies

State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool New Wildcat	me
Property Code	Property Starbuck 19	y Name 9 FED. COM	Well Number
OGRID No.	Operato	r Name	Elevation
7377	EOG Recource	es, Inc	3596

Surface Location

							T	- 4 4 41 -	East/West line	County
ſ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Fast/ Hest line	county
١	OL OI 100 Ho.		l			1 4440	NODTU	1650	WEST	FUUY
١		19	l 17 S I	I 28 E		1140	NORTH	1650	WLJI	
- 1	$\overline{}$		1/ 5	20 -			Ī			

Bottom Hole Location If Different From Surface

					воссони	Hore Po	Cauon II Dill	creme riom bar	1400		
Γ	UL or lot No.	Section	Townsh	ip	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Ĺ			<u> </u>				<u> </u>				
	Dedicated Acres	s Joint o	r Infill	Co	nsolidation (Code 0	rder No.				
	320										

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 the the information
	,	contained herein is true and complete to the
		best of my knowledge and belief.
3591.2' 3604.1'		
		me he hanse
1650'		JULDE MUITE
		Signature
3588.5' 3597.5'		Mike Francis
		Printed Name
		Agent
		Title
		7/12/00
		Date
		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
		supervison and that the same is true and
		correct to the best of my belief.
1		APRIL 11, 2000
		Page paris Methodistin
<u> </u>	_	Signature & Seal of Professional Surveyor
		II AOZANEL TOM
		I It soft as
		150 mell & Gulson 4/12/00
		00-11-0463
		Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641
		MACON McDONALD 12185
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

EOG RESOURCES, INC. STARBUCK "19" FEDERAL COM NO. 1 1,140' FNL & 1,650' FWL SEC. 19, T17S, R28E EDDY COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

1,025
1,780'
5,275'
6,350'
9,175
9,500'
9,900'

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

Upper Permian Sands	Above 300'	Fresh Water
Seven Rivers/Queen	550/1025	Oil
Grayburg/San Andres	1780'	Oil
Atoka	9175'	Gas
Morrow	9500'	Gas

4. CASING PROGRAM

Hole Size Interval OD Casing Weight Carried 14 3/4 0-500' 11 3/4" 42# H-40 11" 0-2800' 8 5/8" 32# J-55 7 7/8" 0-10100' 5 ½" 17# N80	
---	--

Cementing Program:

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.
STARBUCK "19" FEDERAL COM NO. 1
1,140' FNL & 1,650' FWL
SEC. 19, T17S, R28E
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
Depth	Type	(PPG)	(sec)	<u>(cc)</u>
0-500'	Fresh Water (spud)	8.5	40-45	N.C.
500'-2800'	Brine Water	10.0	30	N.C.
2800'- TD	Cut Brine + Polymer/KCI	2.8 - 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.
STARBUCK "19" FEDERAL COM NO. 1
1,140' FNL & 1,650' FWL
SEC. 19, T17S, R28E
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.
STARBUCK "19" FEDERAL COM NO. 1
1,140' FNL & 1,650' FWL
SEC. 19, T17S, R28E
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.
STARBUCK "19" FEDERAL COM NO. 1
1,140' FNL & 1,650' FWL
SEC. 19, T17S, R28E
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.
STARBUCK "19" FEDERAL COM NO. 1
1,140' FNL & 1,650' FWL
SEC. 19, T17S, R28E
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

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EOG RESOURCES, INC. STARBUCK "19" FEDERAL COM NO. 1 1,140' FNL & 1,650' FWL SEC. 19, T17S, R28E 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.

Starbuck "19" Fed Com No. 1

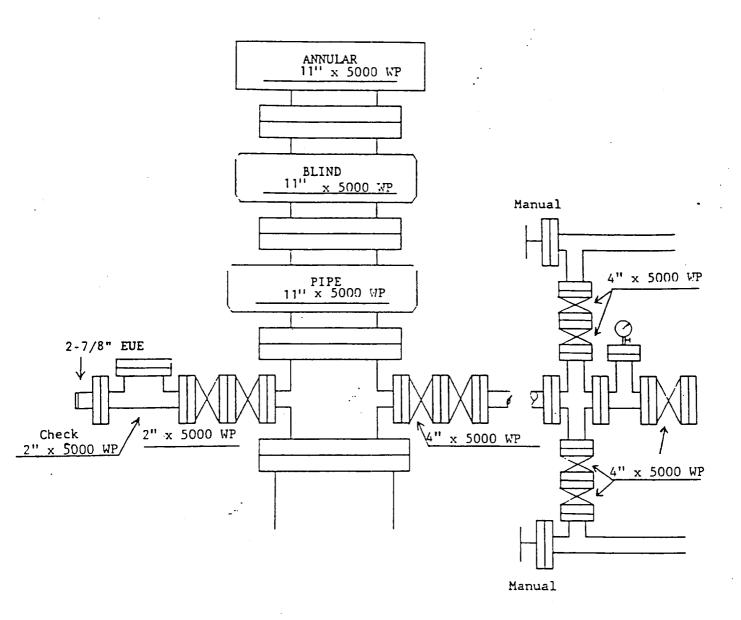
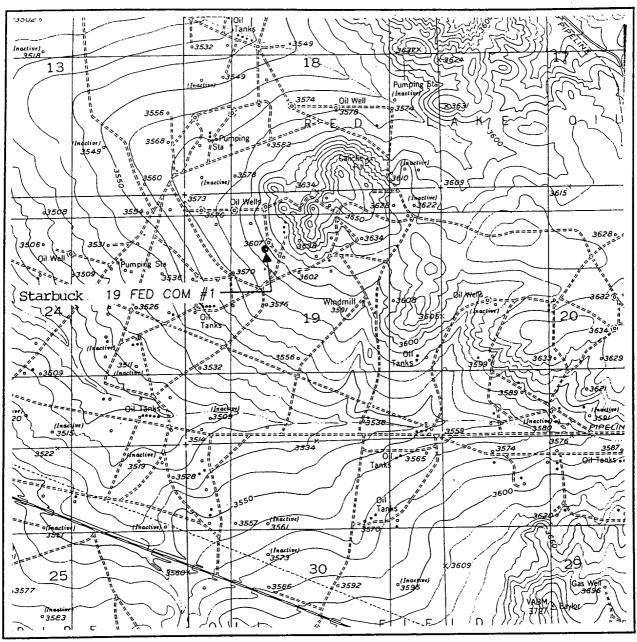


Exhibit 1

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

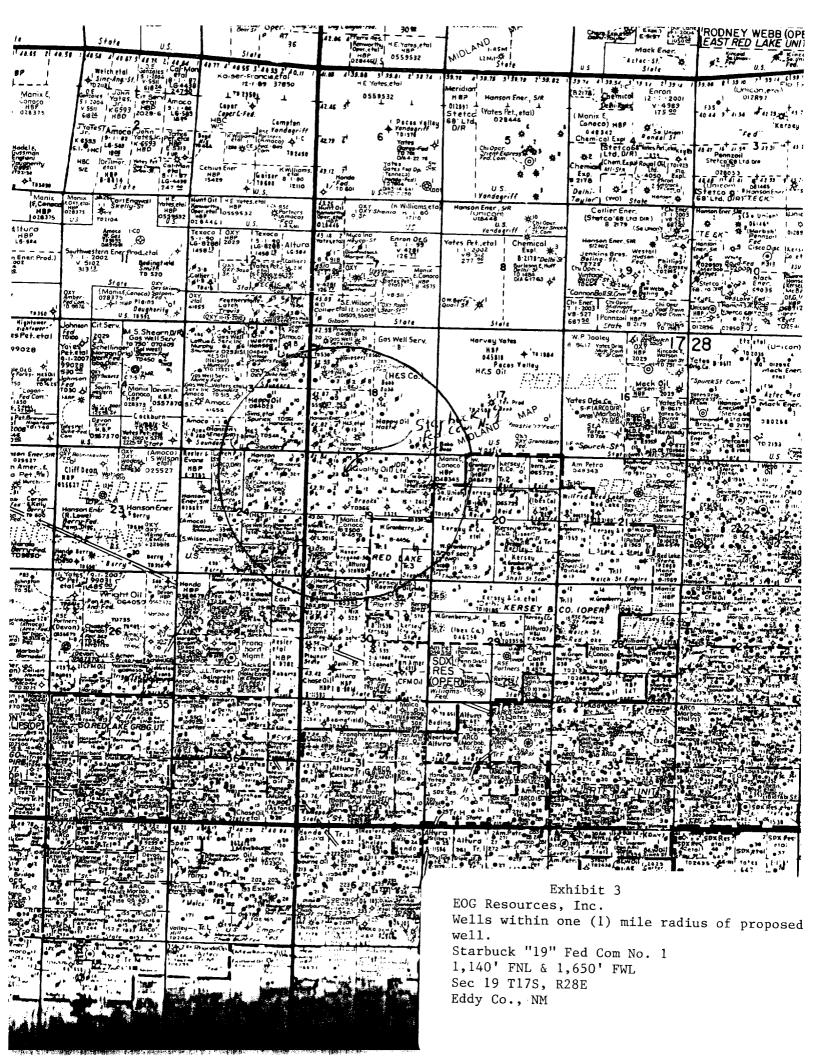
CONTOUR INTERVAL: RED LAKE - 10'

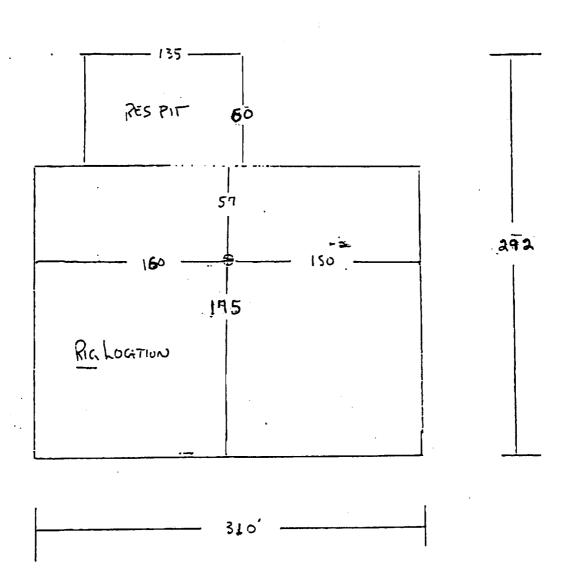
SEC. 19 TWP. 17-S RGE. 28-E
SURVEY N.M.P.M.
COUNTYEDDY
DESCRIPTION 1140' FNL & 1650' FWL
ELEVATION 3596

OPERATOR FOG Recources, Inc.
LEASE MANDALAY 19 FED. COM
U.S.G.S. TOPOGRAPHIC MAP
RED LAKE, N.M.

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505 393-3117

Exhibit 2





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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:

Lease No.:	LC-050349(A)
Legal Description:	Section 19, T17S, R28E Eddy Co., NM
Formation(s):	
Bond Coverage: In	dividually with Endorsement to State of New Mexico
BLM Bond File No.:	NM-2308
Authorized Signatu	re: Mike Francis
Title: Agent	-
Date: 7/12/2000	