New Mexico Oil Conservation Division, District I 1625 N. French Drive Hobbs, NM 88240

Form 3160-3 (August 1999)						APPROVED 5. 1004-0136
					Expires No	vember 30, 2000
UNITED STATES DEPARTMENT OF THE IN				5. Lease \$ 10 M - 1	Serial No. 10 P 5 0 0	NM 19623 BIHC
BUREAU OF LAND MANO	SEMEN!					
APPLICATION FOR PERMIT TO D	RILL OR R	EENTER				
1a. Type of Work: X DRILL RE	ENTER			7. If Unit o	r CA Agreer	nent, Name and No.
		Red Hills No		nm 104037x		
1b. Type of Well: X Oil Well Gas Well Other	ple Zone		lame and We orth Unit No.3			
2. Name of Operator				9. API Wel		n 1 1 00
EOG Resources, Inc.	T			1		-36499
3a. Address	3b. Phone N	o. (include area	code)		nd Pool, or E	xploratory
P.O. Box 2267 Midland, TX 79702	naa with anv	432 686-3714	-4- *1	Red Hills Bo		H- 4-10
4. Location of Well (Report location clearly and in accorda	ar Photai	Labred Right	is.")	11. Sec., I.	., R., M., or B	lk. And Survey or Area
At surface 2200' FNL & 2500' FWL U/L F				S/L Sec 13	T-25-S; R-33	-E
At proposed prod. Zone 300'FSL & 1500' FWL		U/L N		BHL Sec 7	Г-25-S; R-34-	E
14. Distance in miles and direction from nearest town or po	st office*			12. County	or Parish	13. State
20 miles west from Jal, NM	T		T	Lea		NM77
15. Distance from proposed* location to nearest 300	16. No. of A	cres in lease	17. Spacing	g Unit dedica	ated to this v	vell '/9 ₂₀
property or lease line, ft.	4,	198.70		/	7.	
(Also to nearest drlg. Unit line, if any) 440	See	Exhibit 5	80		ated to this	11 23 P
18. Distance from proposed location*	19. Propose	•	20. BLM/BI	A Bond No	on file	3
to nearest well, drilling, completed applied for, on this lease, ft. 850') 12,250 D 17500	NM - 2308	10	0 4 6	
21. Elevations (Show whether DF, KDB, RT, GL, etc)		nate date work w		23. Estima	ed duration	1
3350'		12/15/2003		45 Days	2022 v	Market (C)
	24. A	ttachments	Cartsb	ed Corre		20260
The following completed in accordance with the requirements of	Onshore Oil ar	Gas Order No. 1	, shall be atta	ched to this fo	orm:	
Well plat certified by a registered surveyor.		4. Bond to cover	the operation	s unless cove	ered by an ex	sisting bond on file (see
2. A Drilling Plan.		Item 20 above	!)			- ,
3. A Surface Use Plan (if the location is on National Forest Sytem		5. Operator cert				
SUPO shall be filed with the appropriate Forest Service Office)		Such other si authorized of		ormation and/	or plans as m	nay be required by the
25. Signature	Name (Printe		ilicer.		Date	
mike Valence		Mike Francis			10/21/200	3
Title						
Approved by (Signature) S JOE G. LARA	Name (Printe	d/Tyned)			Date	· · · · · · · · · · · · · · · · · · ·
/S/ JOE G. LARA		S/ JOE G.	LARA		Date DEC	0 4 2003
FIELD MANAGER	ı	CARLSB				
Application approval does not warrant or certify the applicant holds legal or operations theron.	equitable title to	hose rightes in the s		ich would entith		
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 cri	me for any perso	n knowingly and will				. —
States any false, fictitious or fraudulent statements or representations as to				an, asparanon		TO OTRICE
*(Instructions on reverse) OPER. OGRID NO. 737	17					
			APPRA	VAL SU		PA .
PROPERTY NO. 2640	0		Gener	ral req	UIREM	ents and
POOL CODE 51020			3PECH	al stipi	ULATIO	NS //
EFF. DATE 12/8/0	3/1.0	Q.	ATTAC	MED		K
APINO30 - 025 -	· 5047	7				1

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico

Form C-102 Revised August 15, 2000 Submit to Appropriate District Office

• DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

Energy, Minerals, and Natural Resources Department

OIL CONSERVATION DIVISION

State Lease - 4 copies

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

1220 South St. Francis Dr.

Fee Lease - 3 copies

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, New Mexico 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		² Pool Code	³ Pool Name				
30-025-	36499 5	51020	Red Hill	s Bone Spring			
⁴ Property Code			Property Name		⁶ Well Number		
26406		RED HIL	LS NORTH UNI	T	309		
OGRID No.		,	⁹ Elevation				
7377		EOG RESOURCES					

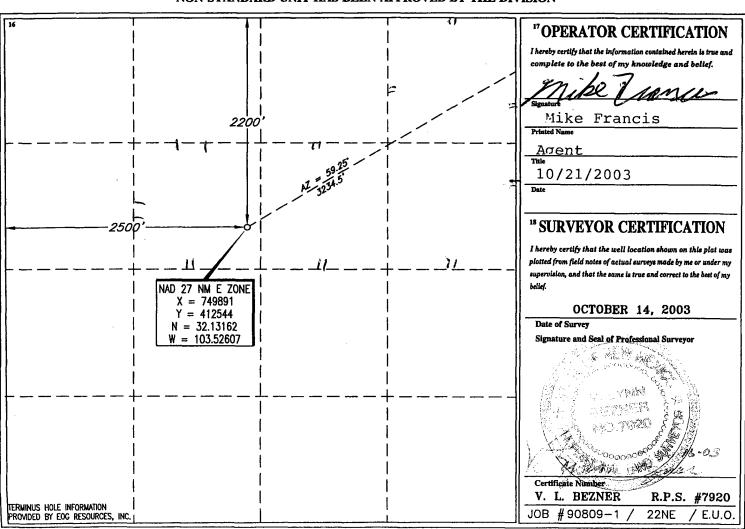
¹⁰ Surface Location

-	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	F	13	25 SOUTH	33 EAST, N.M.P.M.		2200'	NORTH	2500'	WEST	LEA

11 Bottom Hole Location If Different From Surface

Destall List Deserved I. Dallard										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
12 Dedicated Acre	s 13 Jo	oint or Infill	14 Consolidation Code	15 Order 1	<u> </u>					
80										

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Form C-102 Revised August 15, 2000

•DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210 Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION

Submit to Appropriate District Office

DISTRICT III

1220 South St. Francis Dr.

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1000 Rio Brazos Rd., Aztec, NM 87410

7377

Santa Fe, New Mexico 87505

AMENDED REPORT

3350'

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT									
¹ API Number	² Pool Code	³ Pool Name							
30-025-364.90	? 51020	Red Hills Bone Spring							
Property Code 264 D6		⁵ Property Name ILLS NORTH UNIT	6 Well Number 309						
OGRID No.		9 Elevation							

EOG RESOURCES

¹⁰ Surface Location

	UL or lot no.	Section	Township	34 Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
١	D	18	25 SOUTH	85 EAST, N.M.P.M.		2200'	NORTH	2500'	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	s 13 Jo	oint or Infill	¹⁴ Consolidation Code	15 Order No	0.	-			
80			·						

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16	"OPERATOR CERTIFICATION
AZ = 59.25.	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
7	Make Tuline
	Mike Francis Printed Name
#	Agent
	10/21/2003 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 supervision, and that the same is true and correct to the best of my
1	bellef.
	OCTOBER 14, 2003 Date of Survey
	Signature and Seal of Professional Surveyor
!	
	V. L. BEZNER R.P.S. #7920
TERMINUS HOLE INFORMATION PROMDED BY EOG RESOURCES, INC.;	JOB #90809-3 / 22NE / E.U.O.

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Form C-102 Revised August 15, 2000

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Energy, Minerals, and Natural Resources Department

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OIL CONSERVATION DIVISION

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1000 Rio Brazos Rd., Aztec, NM 87410

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

AMENDED REPORT

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name	
30.025-36499	51020	Red Hills Bone Spring	
Property Code 264D6		⁵ Property Name LLS NORTH UNIT	⁶ Well Number 309
70GRID №.	EOC	Operator Name RESOURCES	⁹ Elevation 3336'

¹⁰ Surface Location

	Durinee Education										
UL or lot no	. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	1	
				1							

11 Bottom Hole Location If Different From Surface

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N	7	25 SOUTH	34 EAST, N.M.P.M.		300'	SOUTH	1500'	WEST	LEA		
12 Dedicated Acre	s 13 Jo	oint or Infill	14 Consolidation Code	¹⁵ Order l	vo.						
				1							

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16			"OPERATOR CERTIFICATION
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		1	I hereby certify that the information contained herein is true and
	i i		complete to the best of my knowledge and belief.
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	! !	!	Myle Trance
	l	i i	Mike Francis
	!		Printed Name
L	<u>.</u>		
T	l t		Agent
			Title
]		10/21/2003 Date
	<u>.</u>		Date
	, ,	<u> </u>	
	1	ļ l	¹⁸ SURVEYOR CERTIFICATION
		į.	BONVETOR CERTIFICATION
	1		I hereby certify that the well location shown on this plat was
L	L — — — — — .		plotted from field notes of actual surveys made by me or under my
	! !	;	supervision, and that the same is true and correct to the best of my
	1	l l	belief.
		ļ	OCTOBER 15, 2003
	1		Date of Survey
	i i	i	Signature and Seal of Professional Surveyor
	! !	<u> </u>	
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	Y = 415073 △T	·	IN VISCOUTE SERVICE
	N = 32.13849		\$ \$16-03
ľ	W = 103.51219		James Andrews
		,	Certificate Number
1500'	! <u>-</u> 0		V. L. BEZNER R.P.S. #7920
$AZ = 59.25^{\circ}$	300'	TERMINUS HOLE INFORMATION	
601.9'	1 4 1	PROVIDED BY EOG RESOURCES, INC.	JOB #90809-2 / 22NE / E.U.O.

EOG RESOURCES, INC. Red Hills North Unit No. 309 Lea Co. NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1100'
Delaware Mt. Group	5150'
Bone Springs	9275'
3 rd Bone Spring Sand	12225'

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

Upper Permian Sands	Above 250'	Fresh Water
3 rd Bone Spring Sands	12,225'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13-3/8" casing at 650' and circulating cement back to surface, and 9-5/8" casing will be set at 5200' with cement circulated back to surface

4. CASING PROGRAM

Hole Size	Interval	OD Casing	Weight Grade Jt. Cond. Type	
17-1/2"	0-650'	13-3/8"	48# H-40 ST&C	
12-1/4"	0-5200'	9-5/8"	40# N-80 LT&C	
8-3/4"	0-12,700'	7"	26#P-110 LT&C & STL	
61/8	12500-TD	4 1/2"	11.6# P-110 Hydrill	
Cementing Pr 17-1/2" Surfa		Cement to surface with 325 sx Prem Plus, 3% Econolite, 25 Calcium Chloride, 0.25#/sx Flocele, 150 sx Prem Plus, 2% Calcium Chloride		
9-5/8" Interm	ediate:	Cement to surface with 1100 sx Interfill C, .25#/sx flocele, 250 sx Premium Plus, 2% Calcium Chloride		
7" 2 nd Intermediate		Cement with 800sx Premium Plus, 3% Econolite, 5#/sx Salt +.25lb/sk Flocele; 250sx Prem50/50 PO2 mix'A', 2% Halliburton-Gel First, 5% Halad-322+2% HR5.		
4 ½" Liner		CBL+.3%SCI	50sx Premium +.3%Halad-322+.3%Super BL+.3%SCR-100 ;350sx Acid Soluble H+FDP- 358+6% H344+.7%Econolite	

EOG RESOURCES, INC. Red Hills North Unit No. 309 Lea Co. 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 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: Lateral section will be drilled with oil based mud.

		Wt Viscosity	y Watei	rloss
<u>Depth</u>	<u> Type</u>	(PPG)	(sec)	<u>(cc)</u>
0-1100 Fr	esh Water (Spud Mud)	8.5	40-45	N.C.
1100'-5200' E	Brine Water	10.0	30	N.C.
5200''- 12700	Cut Brine + Polymer/	KCL $8.8 - 9.2$	28	N.C
Lateral Section	12700-TD FW Polymer	8.5-8.8	40	15

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. Red Hills North Unit No. 309 Lea Co. NM

8. LOGGING, TESTING AND CORING PROGRAM:

Electric logging will consist of GR-Dual Laterlog-MSFL and GR-Compensated Density-Neutron from TD of the vertical hole-GR in horizonal section to intermediate casing with a GR- Compensated Neutron ran from Intermediate casing to surface..

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. Red Hills North Unit No. 309 Lea Co. 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:

No 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. Red Hills North Unit No. 309 Lea Co. 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 well pad 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. Red Hills North Unit No. 309 Lea Co. 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.

Rene St Pierre

Division Drilling Mgr.

Pure PE

10/21/2003 M7

EOG RESOURCES, INC. Red Hills North Unit No. 309 Lea Co. 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.

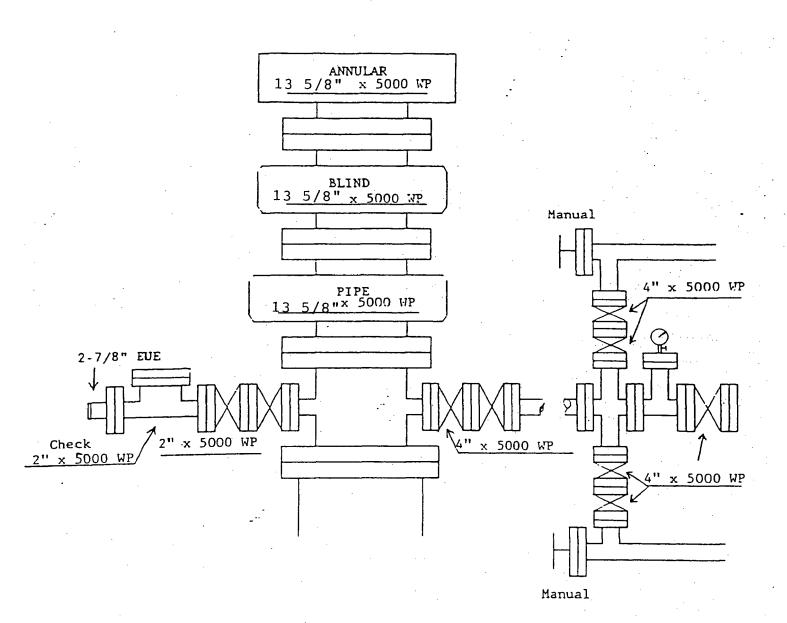


Exhibit 1

PLAT SHOWING PROPOSED
WELL LOCATION AND LEASE ROAD IN
SECTION 13, T-25-S, R-33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

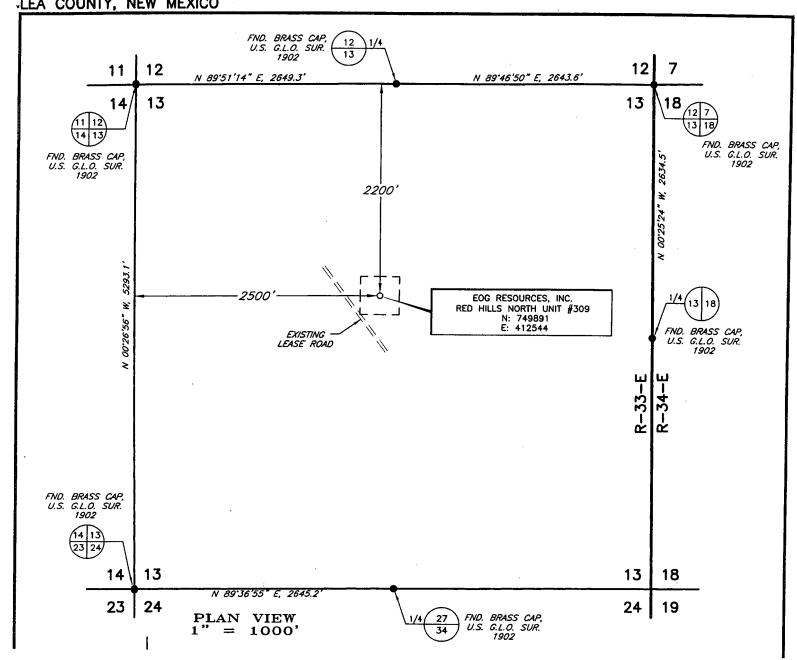
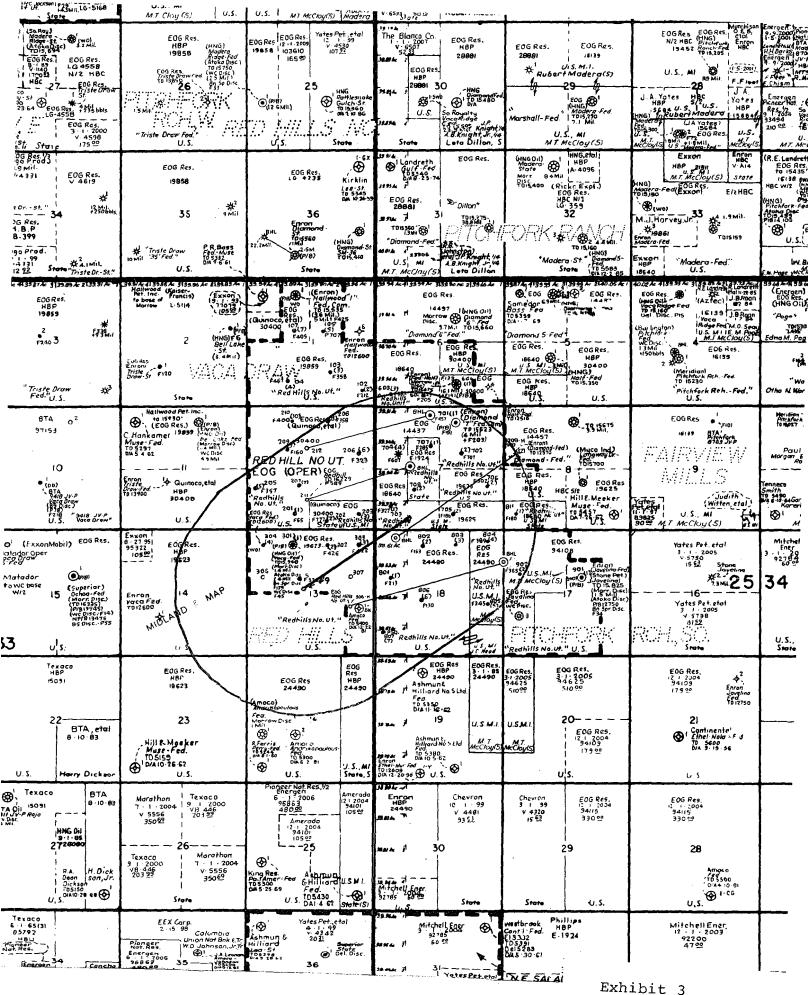
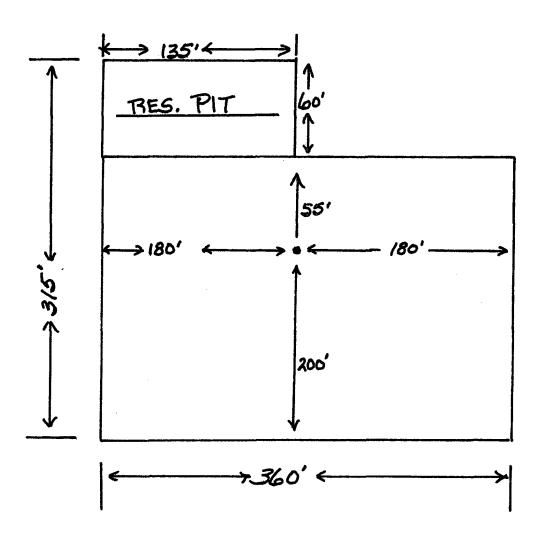


Exhibit 2



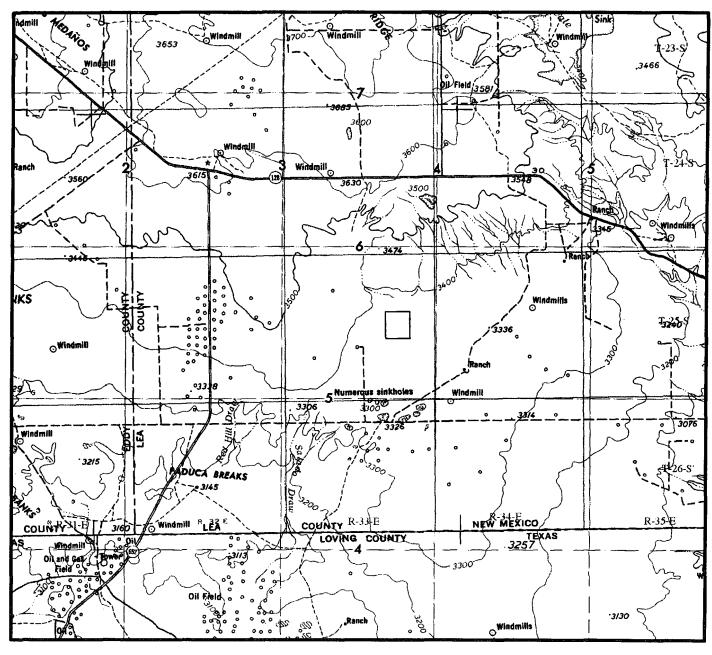
Wells within 1 mile of proposed well.



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VICINITY MAP



SECTION 13 TWP 25-S RGE 33-E
SURVEY NEW MEXICO PRINCIPAL MERIDIAN
COUNTY LEA STATE NM
DESCRIPTION 2200' FNL & 2500' FWL
OPERATOR EOG RESOURCES, INC.
LEASE RED HILLS NORTH UNIT #309
DISTANCE & DIRECTION FROM JAL GO WEST ON HWY.
128 14.0 MILES, THENCE SOUTH ON LEASE ROAD 4.6
MILES, THENCE SOUTHEAST ON LEASE ROAD 0.2 MILES
TO A POINT ±3800' NORTHEAST OF THE LOCATION

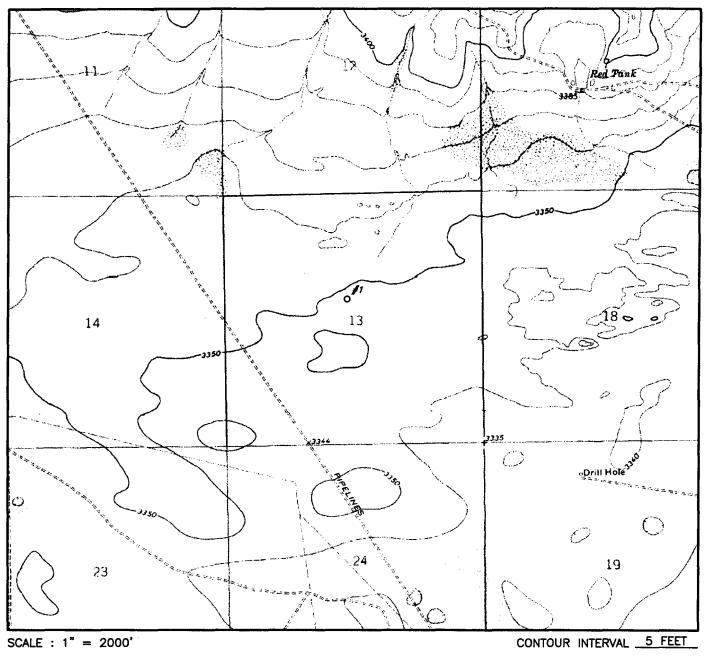


TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653

LOCATION & ELEVATION VERIFICATION MAP



 SECTION
 13
 TWP
 25-S
 RGE
 33-E

 SURVEY
 NEW MEXICO PRINCIPAL MERIDIAN

 COUNTY
 LEA
 STATE
 NM

 DESCRIPTION
 2200' FNL & 2500' FWL

 ELEVATION
 3350'

OPERATOR EOG RESOURCES, INC.

LEASE RED HILLS NORTH UNIT #309

U.S.G.S. TOPOGRAPHIC MAP

BELL LAKE, NEW MEXICO

SCALED LAT. N = 32.13162

LONG. W = 103.52607



TOPOGRAPHIC LAND SURVEYORS

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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.: NM19623

Legal Description of Land: Section 13, T-25-S, R-33-E, NMPM

Lea., 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: Mike Francis

Title: Agent

Date: __10/21/2003