	xico Gil C	onservation	a Divisio	2, District I	
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	` Ho	bbs, NM 8.	32.13		
Form 3160-3 (August 1999)				OMB N	APPROVED 5. 1004-0136
UNITED STATES				5. Lease Serial No.	vember 30, 2000
DEPARTMENT OF THE IN				S/L NM 14437 BHL NM	30400
BUREAU OF LAND MAN				6. If Indian, Allottee or	Tribe Name
APPLICATION FOR PERMIT TO I		FENTED			
1a. Type of Work: X DRILL RI	ENTER			7. If Unit or CA Agreer	nent, Name and No. oth Unit NM NM 104037 X
				8. Lease Name and W	
1b. Type of Well: X Oil Well Gas Well Othe	r 🛄 Single 2	Zone Multi	ple Zone	Red Hills North Unit 710	
2. Name of Operator				9. API Well No.	2 (+ 11
EOG Resources, Inc.	T			30-025-	
3a. Address	3b. Phone N	lo. <i>(include area</i>	code)	10. Field and Pool, or E	Exploratory
P.O. Box 2267, Midland, TX 79702 4. Location of Well (Report location clearly and in accord) At surface 1603' FNL & 1832' FEL (U/L G)	nce with any	State requirement	nts.*)	11. Sec., T., R., M., or B	ik. And Survey or Area
SOBJECT	TO LIKE	APPROVAL	BY STAT		
At surface 1603' FNL & 1832' FEL (U/L G)				S/L Sec. 7 T-25-S: R-34- BHL Sec. 12 T-25-S: R- 3	E 522 E
At proposed prod. Zone 2380'FSL & 1100' FW	/L (U/L L)			DIL 060. 12 1-25-3, K- 3	JJ-E
14. Distance in miles and direction from nearest town or po				12. County or Parish	13. State
19 Miles west from Jal, NM				Lea	NM
15. Distance from proposed* location to nearest	16. No. of A	cres in lease	17. Spacir	ng Unit dedicated to this w	weil
property or lease line, ft. S/L 1603 BHL 1100	See Exhibit 5				021222324,252 021222324,252 021222324,252
(Also to nearest drlg. Unit line, if any)	Red Hills Nor	th Unit 4,198 Ac.		<u> </u>	
18. Distance from proposed location*	19. Propose	d Depth	20. BLM/B	IA Bond No. on file	18
to nearest well, drilling, completed applied for, on this lease, ft. 300'	TVD 12,700			NM2308	h, TEB 2003
21. Elevations (Show whether DF, KDB, RT, GL, etc)		nate date work w	vill start*	23. Estimated duration	
GL 3403		3/1/2003		60 days	Hobbs ED W
The following completed in accordance with the requirements of		ttachments		Rebad Constrements	
		Gas Order No. 1	, shall be alla		LOLGSLSS
1. Well plat certified by a registered surveyor.		1			
		4. Bond to cover	the operation	ns unless covered by an ex	tisting bond on file (see
2. A Drilling Plan.		4. Bond to cover Item 20 above	-	ns unless covered by an ex	tisting bond on file (see
3. A Surface Use Plan (if the location is on National Forest Sytem	-	Item 20 above 5. Operator cert	») ification.		using bond on me (see
-	-	Item 20 above 5. Operator cert 6. Such other si	 ification. te specific inf 	ns unless covered by an ex ormation and/or plans as n	using bond on me (see
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DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

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

Revised August 15, 2000 Submit to Appropriate District Office

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

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		
30-025-36217	51020	Red Hills Bone Spring		
⁴ Property Code		⁵ Property Name	⁶ Well Number	
26406	RED HI	RED HILLS NORTH UNIT		
⁷ OGRID No.		⁸ Operator Name	⁹ Elevation	
7377	EOG R	ESOURCES, INC.	3403'	

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
G	7	25 SOUTH	34 EAST, N.M.P.M.		1603'	NORTH	1832'	EAST	LEA

" 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
		l	· · · · · · · · · · · · · · · · · · ·		<u>_</u>		<u> </u>	[· .	
¹² Dedicated Acre	¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.					ľ			
120		·					*		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



State Lease - 4 copies Fee Lease - 3 copies

AMENDED REPORT

Form C-102

State of New Mexico

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

DISTRICT I	N. French Dr., Hobbs, NM 88240 State of New Mexico				Form C-102	
	is, inivî 88240	Energy, Minerals,	and Natural Resources Department	Revised August 15, 2000		
<u>DISTRICT II</u> 1301 W. Grand Avenue, A	rtesia, NM 88210	OIL CONS	SERVATION DIVISION	Submit to Appropriate District Office State Lease - 4 copies		
DISTRICT III 1000 Rio Brazos Rd., Azte	NIM 97/10	1220	South St. Francis Dr.		Fee Lease - 3 copies	
	c, 19191 87410	Santa	Fe, New Mexico 87505			
DISTRICT IV 1220 S. St. Francis Dr., Sa	inta Fe, NM 8750	5			AMENDED REPORT	
	WEL	L LOCATION AN	ND ACREAGE DEDICATION I	PLAT		
¹ API Number		² Pool Code	³ Pool Nam	e		
30-025-3	6217	51020	Red Hills Bone Sprin	nq		
Property Code			5 Property Name		⁶ Well Number	
26406		RED HI	LLS NORTH UNIT		710	
⁷ OGRID No.			⁸ Operator Name		⁹ Elevation	
7377		EOG F	RESOURCES, INC.		3403'	

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¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
			L			L			

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. L	Section 12	Township 25 SOUTH	Range 33 EAST, N.M.P.M.	Lot Idn	Feet from the 2380'	North/South line SOUTH	Feet from the 1100'	East/West line WEST	County LEA
¹² Dedicated Acres	s ¹³	Joint or Infill	¹⁴ Consolidation Code	15 Order No	0.				
240									

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



EOG RESOURCES, INC. RED Hills North Unit No. 710 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

<u>Hole Size</u>	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
61/8	12500-TD	4 ½"	11.6# P-110 Hydrill
Cementing I 17-1/2" Surf		Econolite, 25	urface with 325 sx Prem Plus, 3% 5 Calcium Chloride, 0,25#/sx Flocele, Plus, 2% Calcium Chloride
9-5/8" Interr	nediate:		urface with 1100 sx Interfill C, .25#/sx sx Premium Plus, 2% Calcium Chloride
7" 2 nd Intern	nediate	5#/sx Salt +.	800sx Premium Plus, 3% Econolite, 25lb/sk Flocele; 250sx Prem50/50 POZ Halliburton-Gel First, 5%Halad- 5.
4 ½" Liner		CBL+.3%SC	um +.3%Halad-322+.3%Super CR-100 ;350sx Acid Soluble H+FDP- 344+.7%Econolite

EOG RESOURCES, INC. RED Hills North Unit No. 710 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 Water	rloss
<u>Depth</u> <u>Type</u>	<u>(PPG)</u>	(sec)	<u>(cc)</u>
0-1100 Fresh Water (Spud Mud)) 8.5	40-45	N.C.
1100'-5200' Brine Water	10.0	30	N.C.
5200''- 12700 Cut Brine + Polyme	er/KCL 8.8 – 9.2	28	N.C
Lateral Section 12700-TD Oil Based M	1ud 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 nipe connections will be on the rig floor at all times.

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(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. 710 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 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. 710 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:

0'new road is required. Exhibit #2

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.

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EOG RESOURCES, INC. RED Hills North Unit No. 710 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. 710 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.

MQ Pierre Rene

Division Drilling Mgr.

1/14/2002



EOG RESOURCES, INC. RED Hills North Unit No. 710 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.

VED. Hobbs 00D

EOG Resources, Inc.

Red Hills North Unit 710





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COANNED LOCATION & ELEVATION VERIFICATION MAP



~~ANNEC

VICINITY MAP



RD., THENCE SOUTHWEST 0.2 MILES ON LEASE RD. TO A

POINT ±900' SOUTH OF THE LOCATION.

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

Statement Accepting Responsibility For Operations

Operator Name:EOG Resources, Inc.Street or Box:P.O. Box 2267City, State:Midland, TXZip 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.: NM14437

Legal Description of Land: Section 7, T25S, R34E, NMPM Lea Co., NM

Formation(s) (if applicable):

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

Individually

BLM Bond File No.: NM2308 with endorsement to State of NM

Authorized Signature: Mike Francis

Title: Agent

Date: __1/14/2003 ____

he-- vED Hobbs