- ¹⁹⁹	Stand Stand	Regional Constants	lare A da se d			a	
Form 3160-3					ı		
(August 1999)						OMB No	APPROVED 0. 1004-0136
UNITED	STATES	5			5	Lease Serial No.	vember 30, 2000 NM99400: NM14324
	OF THE IN	NTERIOR				NM18640 *	Drillsite UM 144
BUREAU OF LA	ND MANC	GEMENT			6.	If Indian, Allottee or	Tribe Name
		DRILL OR R	EENTER		╡		
1a. Type of Work: X DRILL	R	EENTER			7.	If Unit or CA Agreen	nent, Name and No.
1b. Type of Well: XOil Well Gas Well	Other	Single	Zone Multi	iple Zone	8.	Lease Name and We Red Hills No	ell No. orth Unit #212
2. Name of Operator					9.	API Well No.	
EOG Resources, Inc.		·			2	<u>, 60-025 א</u>	35363
3a. Address P.O. Box 2267, Midland, TX 79702		3b. Phone N (915)686-371	o. <i>(include area</i> 4	code)	10.	Field and Pool, or E Red Hills Bo	xploratory
4. Location of Well (Report location clearly and in	accorda	and the second sec		nts.*)	11.		Blk. And Survey or Area
At surface SL 2,475' FWL & 1,750' FM	NL, Sec 1	2 F	-			Sec 12, T25	5S, R33E (surface) 5, R34E (bottom hole)
		0' FNL, Sec 7					
14. Distance in miles and direction from nearest tov	wn or pos	st office*			1	County or Parish	13. State
19 miles west from Jal, NM 15. Distance from proposed*		16. No. of Ac	res in leave	17 Spacin	Lea	it dedicated to this v	NM
location to nearest					a ou	n deuloaleu (O (NIS V	YCII
property or lease line, ft.		See Exhibit 5		1	280	ac SE/4 NW/4-NE/4	Sec 12
(Also to nearest drlg. Unit line, if any)	320'	40.5				NW/4 - Sec 7	
 Distance from proposed location* to nearest well, drilling, completed 		19. Proposed TVD 12,700	Depth	20. BLM/BI	A Bo	nd No. on file	
applied for, on this lease, ft.	1000'	TMD 17,800			NM2	2308	
21. Elevations (Show whether DF, KDB, RT, GL, etc	:)	22. Approxim	ate date work wi	ill start*	23.	Estimated duration	· · · · · · · · · · · · · · · · · · ·
GL-3399			1/6/2000			60 days	······································
The following completed in accordance with the requirem	ants of O		tachments	hall be attend		AL:- 6	
 Well plat certified by a registered surveyor. 	ients of O		CARLS			this form:	
2. A Drilling Plan.			Item 20 above				-
3. A Surface Use Plan (if the location is on National Fore			5. Operator certi				
SUPO shall be filed with the appropriate Forest Service	e Office)				rmati	ion and/or plans as ma	ay be required by the
25. Signature		Name (Printed	authorized offi	cer.			6
man 1 and		Mike Franci				Date 11/6/2000	
Title						i 11/0/2000	· · · · · · · · · · · · · · · · · · ·
Agent							
Approved by (Signature)		Name <i>(Printed</i>	d/Typed)	e ver kretz		Date	177 Alin
Title 2	्डा. इ.ट.	Office					PROVED FOR 1 YEAR
Application approval does not warrant or certify the applicant hole operations theron.	lds legal or	equitable title to	those rightes in the	subject lease w	vhich	would entitle the applicar	nt to conduct
Conditions of approval, if any, are attached							
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r	nake it a ci	rime for any perso	on knowingly and wi	ilifully to make to	o any	department or agency of	f the United
States any false, fictitious or fraudulent statements or representa (Instruc'	auons as to	any matter within	n its jurisidiction.				
OFTR. OGRID NO. 7377	1			• •		ROVAL SUBJE	
PRODUCT VO. 26406							REMENTS AND
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APLNO. 30-025-35	<u> </u>						

State of New Mexico Form C-102 District I PO Box 1980, Hobbs, NM 88241-1980 Energy, Minerals & Natural Resources Department Revised February 21, 1994 Instructions on back District II PO Drawer DD, Artesia, NM 88211-0719 OIL CONSERVATION DIVISION Submit to Appropriate District Office District III PO Box 2088 State Lease - 4 Copies 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87504-2088 Fee Lease - 3 Copies District IV PO Box 2088, Santa Fe, NM 87504-2088 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 'Pool Code ³Pool Name 5163 2.5-Red Hills Bone Spring Property Code Property Name Well Number RED HILLS NORTH UNIT 212 OGRID No. *Operator Name ^eElevation EOG RESOURCES INC. 7377 3399 ¹⁰ Surface Location UL or lot no. Section Feet from the Township Range Lot Idn North/South line Feet from the East/West line County F 12 25 33 1750 NORTH 2475 WEST LEA 11 Bottom Hole Location If Different From Surface UL or lot no. Section Feet from the Range Lot Idn Feet from the Township North/South line East/West line County ¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No. 200 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 16 17 OPERATOR CERTIFICATION 206 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Ø

	1750'	HORIZONTAL DRILLIN	G DIRECTION	This Trance
2475'	RED ELE Y=4 X=7 LAT	RESOURCES INC. HILLS NORTH UNIT No. 212 V.=3399' 118271.10 '49826.92 =32'08'50.53"	1	<u>Mike Francis</u> Printed Name <u>Agent</u> Title <u>11/6/00</u> Date
	/ <u>,</u> , , , , , , , , , , , , , , , , , ,	G.=103'31'34.12"		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 bellet. <u>OCTOBER 19, 2000</u> Date of Survey Signature my set of professional Surveyor:
				Signature noticed of Protectional Surveyor:

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

		W	TELL LO	OCATIO	N AND AC	REAGE DEDI	CATION PL	LAT		
' AI	PI Number		² Pool Code ³ Pool Name							
			5	763		Red Hills	s Bone Sprin	าย		
* Property	Code				* Property	y Name	<u>.</u>	-0	, M	ell Number
				F	ED HILLS N					212
'OGRID	No.				• Operator				•	Elevation
7377					EOG RESOL	JRCES INC.				3395
				10	Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
		11	Bottom	Hole	Location If	Different Fi	rom Surfac	e		
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¹² Dedicated Acro	es ¹³ Joint	or Infill ¹⁴ (Consolidatio	n Code ¹⁶ (Order No.		· · · · · · · · · · · · · · · · · · ·		#	
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EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 212

LEA COUNTY, NM

1. <u>GEOLOGIC NAME OF SURFACE FORMATION</u>: Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1100'
Delaware Mt. Group	5150'
Bone Spring Lime	9275'
3 rd Bone Spring Sand	12225'
TVD	12,700'
TMD	17,800'

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

Upper Permian Sands	100'	Fresh Water
3 rd Bone Spring Sand	12400'	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. The 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	<u>Interval</u>	OD Casing	Weight Grade Jt. Cond.	Type
17 1⁄2"	0-650' 1150'	13 3/8"	48# H-40 A ST&C	WITNESS
12 1/4"	0-5200'	9 5/8"	40# N-80 LT&C	0.0100000
8 3/4"	0-12700'	7"	26# P-110 LT&C	
6 1/8"	0'-17800'	4 1/2"	11.6# P-1 10 Hydrill	

Cementing Program:

17 1/2" Surface Casing:	Cement to surface with 325 sx Premium Plus + 3% Econolite + 2% Calcium Chloride + .25 lb/sk Flocele + 150 sx Premium Plus + 2% Calcium Chloride.
9 5/8" 1 st Intermediate:	Cement to surface with 1100 sx Interfill C + .25 lb/sk Flocele + 250 sx Premium Plus + 2% Calcium Chloride

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 212

LEA COUNTY, NM

- 7" 2^{nd} Intermediate: Cement with 800 sx Premium + 3% Econolite + 5 lb/sk Salt (3%) + .25 lb/sk Flocele + 250 sx Premium 50/50 Pozmix 'A' + 2% Halliburton-Gel First 2% + 0.5% Halad-322 + 0.2% HR-5.
- 4-1/2" Production: 520 sx Premium + 0.3% Halad-344 + .3% Halad-413 + .3% Super CBL + .3% SCR-100. This cement slurry is designed to bring TOC to 11,800'.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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 will be installed on the $11 \frac{3}{4}$ " surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 600 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000 psi and the annular to 70% of rated working pressure (3500 psi).

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. A 2" kill line and 4" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 5000 psi WP rating.

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 <u>Type</u>	<u>(ppg)</u>	(sec)	<u>(cc)</u>
0-650 ² II50 Fresh Water (spud)	8.5	40-45	N.C.
11501 650'-5200' Brine Water	10.0	30	N.C.
5200'- 12700' Cut Brine & Polymer/KCI	8.8-9.2	28	N.C.
12700'-17800'	8.33	28	N.C.

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 212

LEA COUNTY, NM

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. Auxillary 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 2000' to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

(A) The electric logging program will consist of a GR-Compensated Neutron from 12,300' to Surface. LWD GR from 12,300' to 13,800'.

9. <u>ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND</u> <u>POTENTIAL HAZARDS</u>:

No abnormal pressures or temperatures are anticipated. 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:

Road and location work will not begin until approval has been received from the BLM. Anticipated spud date is unknown at the present time. Once drilling has commenced, the drilling operation should be finished in approximately 60 days. If the well is productive, an additional 30 to 45 days will be required for the completion and testing before a decision is made to install permanent facilities.

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 212

LEA 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:

440' of new access road is required. Exhibit 2

No turnouts necessary.

No culverts, cattleguards, gates, low-water crossings, or fence cuts are necessary.

Surfacing material consists of native caliche to be obtained from the nearest BLMapproved 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:

Water for drilling will be purchased 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. 212

LEA 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 well pad removed to promote vegetation. Reseeding will be as per BLM specifications

7. METHODS OF HANDLING WASTE DISPOSAL:

A small reserve pit will be utilized. Reserve pit will be evacuated of drilling fluid within 10 days after the well is completed.

Drill cuttings will be encapsulated in plastic and buried 2' below ground level.

Water produced during tests and waste water will be saved and hualed to a disposal well. Oil produced during tests will be in test tanks until sold.

Current laws and regulations pertaining to the disposal of human waste will be complied with.

Trash, waste paper, garbage and junk will be hauled to an approved disposal site n 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.

8. ANCILLARY FACILITIES:

No airstrip, campsite, or other facilities will be built.

9. WELL SITE LAYOUT:

Exhibit #4 shows the relative location and dimensions of the well pad, steel mud pits, and location of major rig components. Pad area has been staked and flagged.

Only minor leveling of the well site will be required...

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 212

LEA COUNTY, NM

10. OTHER INFORMATION:

The area around the well site is grassland and the top soil is duned and sandy. The vegetation is native scrub grasses with abundant sagebrush, yucca, and prickly pear.

There is no permanent or live water in the immediate area.

Cultural resources examination has been completed by Desert West Archaeology Consultants.

11. OPERATORS REPRESENTATIVE:

The field representative responsible for assuring compliance with the approved surface-use and operations plan is as follows:

Mr. Dewey Smeltzer

Phone: Business 1/915/686-3601 Home 1/915/520-9608

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 212

LEA COUNTY, NM

12. 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 Enron Oil & Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

W. D. Smeltzer Drilling Manager

Date: 11-6-66

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 212

LEA COUNTY, NM

ATTACHMENT TO EXHIBIT #1

- 1. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum.
- 2. All fittings to be flanged.
- 3. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
- 4. All choke and fill lines to be securely anchored, especially ends of choke lines.
- 5. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 6. Kelly cock on kelly.
- 7. Extension wrenches and hand wheels to be properly installed.
- 8. Blow out preventer control to be located as close to driller's position as feasible.
- 9. 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. : Red Hills North Unit No. 212 well ---ROTATING HEAD ANHULAR 11" 5.000 W.P BLIND 11" 5.000 W.P Manual 11" 5,000 W.P. 4 * X <u>5,000</u> WP 2-7/8" EUE Check 2" x 5.000 5 000 1.7 4* 4" X 5,000 UP -Ground Level------- Ground Level----4" X 5 000.; WP Ξ Hanual

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CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

BEGINNING at a point in the southeast corner of a well pad for EOG Resources, Inc. RED HILLS NORTH UNIT No. 209, from which point the northwest corner of Section 12, T-25-S, R-33-E, N.M.P.M., Lea County, New Mexico, bears N 89° 53' 46" W, 1834.9 feet and N 01° 59' 00" W, 1950.4 feet;

THENCE S 89° 53' 46" E, with the centerline of proposed road, 440.0 feet to a point in the southwest corner of a well pad for EOG Resources, Inc. RED HILLS NORTH UNIT No. 212, for the end of this road, from which point the northwest corner of said Section 12 bears N 01° 59' 00" W, 1950.4 feet and N 89° 53' 46" W, 2274.9 feet.

WTC No.: 46048

Exhibit 2

Drawn By: JWD

Sheet 1

of 2

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all	PROPOSED ROAD TO SERVE RED HILLS NORTH UNIT No. 212			
requirements for land surveys as specified by the state of New Mexico.		EOG RESOURCE	S INC.	
STATES E. TOMPATING EDIANEN		40.0 feet of propose n 12, T-25-S, R-33-I Lea County, New M	E, N.M.P.M.,	
Almes 2, Conflink?	WEST ENGINEERSPLANNER	TEXAS CONSUL	TANTS, INC. midland, texas	
JAMES E. TOMPKINS Registered Professional Surveyor	Survey Date: 10-19-00	Date: 10-20-00	Scale: 1" = 1000'	
New Mexico Certificate No. 14729	WTC No : 46048	Drawn By IWD		

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EOG Resources, Inc.

Red_Hills North Unit No. 212 Lea County, NM



200'x 300' well pad No Scale

EXHIBIT #4

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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 therof, as described below:

Lease No.: NM18640

Legal Description of Land: Section 12, T25S, R33E, NMPM Lea Co., NM

Formation(s) (if applicable):

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

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

Authorized Signature:

Title: Agent

Date: <u>11/6/2000</u>

INDICATE WHEN ABOVE DATE DOES NOT ELF Ľ

WILL BE RELEASED

CONFIDENTIAL LOGS

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