	New Mex	ico Oil Conservation		
		1025 M. Constant		
Form 3160-5	UNITED ST	ATES	FC	ORM APPROVED
(August 1999)	DEPARTMENT OF T	ON	IB NO. 1004-0135	
(1 original, 5 copies)			:: November 30, 2000	
	SUNDRY NOTICES AND R Do not use this form for proposa			NM 19859 BHL (Surface _{LOC} ation)
á	abandoned well. Use Form 3160-3			e or Tribe Name
SUE	BMIT IN TRIPLICATE - Other instru	ictions on reverse side		······
1. Type of well				reement, Name and/or No.
XXOil Well	Gas Well 🛄 Other			North Unit
 Name of Operator EOG Resources, Inc. 			8 Well Name and Red Hills	North Unit No. 6
3a. Address	3b. Phone No. (in	nclude area code)	9 API Well No.	
P.O. Box 2267, Midlar	nd, TX 79702 (915)686-3714 Footage, Sec., T.,R.,M., or Survey Descrip	tion)	<u>30-25-309</u> 10 Field and Pool, o	
4. Location of Wen ()'FEL,Sec 6 T-25-S, I	R-34-E (S/L)		Bone Springs
	5'FWL,Sec 1 T-25-S, H		11 County or Paris Lea CO. N	
	NOTICE, REPORT, OR OTHER DATA	())] ()]]]		
TYPE OF SUBMISSIC	N TYPE OF ACTION			·····
		Deepen	Production (Start/Resume)	Water Shut-Off
Notice of Intent	Alter Casing	Fracture Treat	Reclamation Recomplete	Well Integrity
Subsequent Rep		Plug and Abandon	Temporarily Abandon	Horizontally-
Final Abandonm		Plug Back	Water Disposal	
If the proposal is to d Attach the Bond unde following completion o testing has been com	r Completed Operation (clearly state all pertinent d leepen directionally or recomplete horizontally, give r which the work will be performed or provide the £ of the involved operations. If the operation results pleted. Final Abandonment Notices shall be filed on the is ready for final inspection.	e subsurface locations and measured a sond No. on file with BLM/BIA. Requir n a multiple completion or recompletio	and true vertical depths of all pertin ed subsequent reports shall be file in in a new interval, a Form 3160-4	nent markers and zone ed within 30 da t shall be filed ond
Attached	here to Drilling Pro	gram, Surface u	se and Operat:	ions Plan
for horiz	contal re-entry of pr	oducing well.	112131	4151677
Bond No.	on file with BLM NM2	308	2.	101
C-102 Pla	ats enclosed.		/ 03 · · ·	
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14. I hereby certify that Name (Printed/Type	the foregoing is true and correct		· · · · · · · · · · · · · · · · · · ·	
Mike F	· · ·	Title	م "	gent
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Signature	BROWED	Date	12/3/0	1
FEDERAL OF STATE	FFICE USE			
Approved by	SEDE DAVID R. GLASS		Title	Date
Conditions of approval,	if any, are attached. Approval of this notice	does not warrant or	(1000-004-004-004-004-004-004-004-004-004	····
certify that the applicant	t holds legal or equitable title to those rights i applicant to conduct therean.	n the subject leaase	Office	
Title 18 U.S.C. Section 100	applicant to conduct thereen. 11 and Hile 43.9. SC ASCION 1212, make it a crim or traveltent statements or representations as to a	e for any person knowingly and willful	ly to make to any department or a	gency of the United
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DRILLING PROGRAM/HORIZON1

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 601

LEA COUNTY, NM

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

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Delaware Mt. Group	5283'
Bone Spring Lime	9270'
3 rd Bone Spring Sand	12020'
TVD	12,700'
TMD	18,050'

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 are protected by setting 16" casing at 658' and cement circulated back to surface.

4. CASING PROGRAM: (Existing Casing)

Hole Size	Interval	OD Casing	Weight Grade Jt. Cond. Type
20"	0-658'	16"	65# H-40 ST&C
14 3/4"	0-5,225'	10 3/4"	40.5 + 455, J&N, 8T&C
9 1/2"	0-13,336'	7 5/8"	29.7 + 33.7, LT&C
6 1/2"	0'-12,145'	5 1/2"	17, C95 & P-110 LTC
CACINIC DDC	CDAM . (Dromo	and	

<u>CASING PROGRAM</u> : (Proposed)

Hole SizeIntervalOD CasingWeight Grade Jt. Cond. Type6 1/210450-185004 1/211.6, HCR-110, HYD 513

CEMENTING PROGRAM: (Existing Casing)

16" Surface Casing: Circulated cement to surface w/675 Sx. class "C".

10 3/4" 1st Intermediate: Circulated cement to surface w/3100 Sx. Halliburton Lite "C" & 350 Sx. Class "C".

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 601

LEA COUNTY, NM

7 5/8" 2nd Intermediate: Cemented with 750 sx HLC & 400 Class "H". Est. Top C 7000'.

5 1/2" Production Casing: Cemented with 110 sx. 50/50 Premium POZ. TOC C 10,650' by Temperature log.

CEMENTING PROGRAM: (Proposed)

4 ¹/₂" Production Liner: 350 sx. Premium "H" & .3% Halad - 344

5. <u>Re-ENTRY PROCEDURE:</u>

The RHNU #601 well will be re-entered. The existing perforations are in the Third Bone Springs C 12,252' – 12,346' A 5 ½ CIBP will be set @ 12,200' and 35' of cement placed on top.

The 5 $\frac{1}{2}$ casing will be cut at approximately 10,650' and pulled from the well. A mechanical whipstock will be set on the casing stub @10,650'. A 6 $\frac{1}{2}$ " whipstock at an average TVD of 12,350' to a measured depth of 18,500'.

A 4 ¹/₂ production liner will be run and cemented in from 18,500' to 10,450'.

6. 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 7 5/8" intermediate casing and used continuously until TD is reached. Before drilling out of the 7 5/8" 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.

DRILLING PROGRAM/HORIZONI

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 601

LEA COUNTY, NM

7. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a polymer/KCL mud system. The applicable depths and properties of this system are as follows:

Depth	Type	Wt (ppg)	Viscosity (sec)	Waterloss (cc)
12,000' – 18	,500'	8.33	28-40	N.C 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.

8. 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.

9. LOGGING, TESTING AND CORING PROGRAM:

(A) The electric logging program will consist of a GR-Compensated Neutron from 12,700' to Surface. LWD GR from 12,000' to TD.

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

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.

11. ANTICIPATED STARTING DATE AND DURATION OF QPERATIONS:

Road and location work will not begin until approval has been received from the BLM. Anticipated spud date is within 30 days after approval 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. 601

LEA COUNTY, NM

SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS:

Access to location will be made on existing roads.

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. LOCATION OF EXISTING WELLS:

Exhibit #2 shows all existing wells within a one-mile radius of this well.

3. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

Existing production facilities and roads located within Red Hills North Unit (Exhibit 3) flow lines are already in place for existing production.

4. LOCATION AND TYPE OF WATER SUPPLY:

Water for drilling will be purchased from commercial sources and transported to the well site over existing roads.



EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 601

LEA COUNTY, NM

5. 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

6. 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.

7. ANCILLARY FACILITIES:

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

8. WELL SITE LAYOUT:

Exhibit #3 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.

EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 601

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.

11. OPERATORS REPRESENTATIVE:

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

Mr. Tom Young

Phone: Business 1/505/390/2903 Home 1/915/697-5639



EOG RESOURCES, INC. **RED HILLS NORTH UNIT NO. 601**

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 EOG Resources, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Tom Young Drilling Manager M7

Date: 12/3/01



EOG RESOURCES, INC. RED HILLS NORTH UNIT NO. 601

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.



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EOG Resources, Inc.

Red_Hills North Unit No. 601 Lea County, NM

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