

Form 3160-3
(July 1989)
(formerly 9-331C)

IN REPLY, USE THE FOLLOWING
P. O. BOX 1900
HOBBS, NEW MEXICO 88240

CONTACT RECEIVING
OFFICE FOR UPPER
OF COPIES REQUIRED
(Other instructions on
reverse side)

30-025-32212

BH Roswell District
Modified Form No.
NMO-3160-2

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Conoco, Inc.

3a. Area Code & Phone No.
(915) 686-6548

3. ADDRESS OF OPERATOR

10 Desta Dr. Ste 100W, Midland, TX 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

660' FNL & 1980' FEL

At proposed prod. zone Yates/Seven Rivers/Queen

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
3900'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DP, RT, GR, etc.)

3414.2'

22. APPROX. DATE WORK WILL START*
10/1/93

23.

PROPOSED CASING AND CEMENTING PROGRAM

Capitan Creek and Water Basin

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	K-55	ST&C	420'	250 circ.
7-7/8"	5-1/2"	15-1/2#	K-55	LT&C	3900'	600 circ.

It is proposed to drill this Eumont oil well according to the drilling plan submitted in the following attachments:

1. Well Location and Acreage Dedication Plat (C-102)
2. Attachment to Form 3160-3
3. Proposed Well Plan Outline
4. Surface Use Plan
5. EXHIBIT A: New Mexico road map
6. EXHIBIT B.1: Lease road & well location map
7. EXHIBIT B.2: 7.5' Quadrangle Topo Area Map
8. EXHIBIT C.1: Flowline plat
9. EXHIBIT D: Rig Layout Plat
10. BOP specifications
11. H2S Drilling Operations Plan
12. Surface Landowner Agreement

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Joseph M. Hoover

TITLE

Sr. Conservation Coordinator

DATE

7/21/93

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

(OBIQ. SGD.) RICHARD L. MANNIS

AREA MANAGER

AUG 27 1993

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Approved by
CO
and
SIGNED
AUG 11 1993

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

All Distances must be from the outer boundaries of the section

93-11-1160

**ATTACHMENT TO FORM 3160-3
APPLICATION FOR PERMIT TO DRILL**

Conoco Inc.

**Hawk A No. 11
Sec. 8, T-21S, R-37E
Lea County, New Mexico**

1. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan Outline.
2. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on the attached Proposed Well Plan Outline.
3. A drawing of Blowout Preventer Specifications is attached. Pipe rams and blinds will be checked to the working pressure of the stack or 70% of the minimum internal yield strength of the casing whichever is less. BOP will be checked when casing string is set.
4. The proposed casing program is as follows:

0-420':	8-5/8"	24#	K-55
0-3900':	5-1/2"	15-1/2#	K-55
5. The proposed mud program is as follows:

0-420':	8.4# Fresh
420'-3000':	10.0-10.2 Brine
3000'-3900':	10.0-10.2 Brine w/starch
6. The logging suite will include the following open-hole logs:
1) GR-CAL-DLL-MSFL from 3900'-2600' and 2) GR-CAL-CNL-FDC from 3900'-2600'.
7. Special Drilling Problems:
 - a) Possible swelling in Red Beds
 - b) Possible salt section washout
 - c) Yates, 7-Rivers, & Queen pressure depleted
8. The anticipated starting date is 10-1-93 with a duration of approximately 14 days.

PROPOSED WELL PLAN JUTLINE

WELL NAME **Hawk A No. 11**

LOCATION **Section 8, T-21S, R-37E, Lea County, New Mexico**

TVD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD WT TYPE	DAYS
0					12-1/4"	8-5/8", 24# @ 420' Cemented with 250 at Class C			Native 8.4-9.0ppg	
		Red Beds	Possible Swelling in Red Beds						Saturated Brine	
1					7-7/8"					
		Anhydrite	Possible Salt Section Washout							
2		Salt Base 2480'		Mudloggers on at 2600'						
		Yates 2683'								
3		Seven Rivers 2920'	Yates, 7-Rivers, and Queen pressure depleted							
		Queen 3490'								
4		TD 3900'		TD - 2600' DLL/MSFL/GR/Cal CNL/FDC/GR/Cal		5-1/2", 15.5# @ 3900' Cemented with 600 at Class C			Salt Gel/Brine to log	6-7
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

DATE 29-Jun-93

BOP SPECIFICATIONS

