

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. OIL CONTACT, COMMISSION
NO. 1088 OFFICE 1
HOBBBS, NEW MEXICO 38240
OF COPIES REQUIRED
Reverse Side

3D-225-32123
B.M. Roswell District
Filed Form No.
M060-3160-2

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) 888-6548

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

1955' FNL & 760' FWL

At proposed prod. zone

SA/Grayburg

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 drilg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL

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

19. PROPOSED DEPTH
4400'

20. ROTARY OR CABLE TOOLS
Rotary

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

3972.2 GR

22. APPROX. DATE WORK WILL START*

20 40

PROPOSED CASING AND CEMENTING PROGRAM

NO WATER BASIN

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13 3/8"	54.5#	K-55	ST&C	950'	435 sx/circ.
11"	8-5/8"	32#	K-55	ST&C	3650'	650 sx/circ.
7-7/8"	5-1/2"	17#	K-55	LT&C	4400'	535 sx/circ.

It is proposed to drill this well as a replacement well in the MCA Unit secondary recovery project. This well will replace the MCA No. 153 which has collapsed casing across the producing interval. MCA No. 387 will be drilled according to the drilling plan outlined 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. EXHIBITS B.1 & B.2: Lease road & well location maps
7. EXHIBIT C: Rig layout plat
8. BOP specifications
9. H2S Drilling Operations Plan

APPROVAL SUBMITTED TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

Since this well will be drilled on the existing pad of MCA No. 153, it will require no new road, pipeline, or powerline right-of-ways. However, the existing pad will be extended 75' east, 100' north, and 100' south. These extensions will be archeologically cleared.

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

James W. Hoover

TITLE

Sr. Conservation Coordinator

DATE

5/11/93

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

(ORIG. SGD.) RICHARD L. MANIUS

AREA MANAGER

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions On Reverse Side

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

APR
Sched
Cancelled
Reference
6-5-93
142

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator CONOCO INC		Lease MCA UNIT		Well No. 387
Unit Letter E	Section 28	Township 17 SOUTH	Range 32 EAST NMPM	County LEA

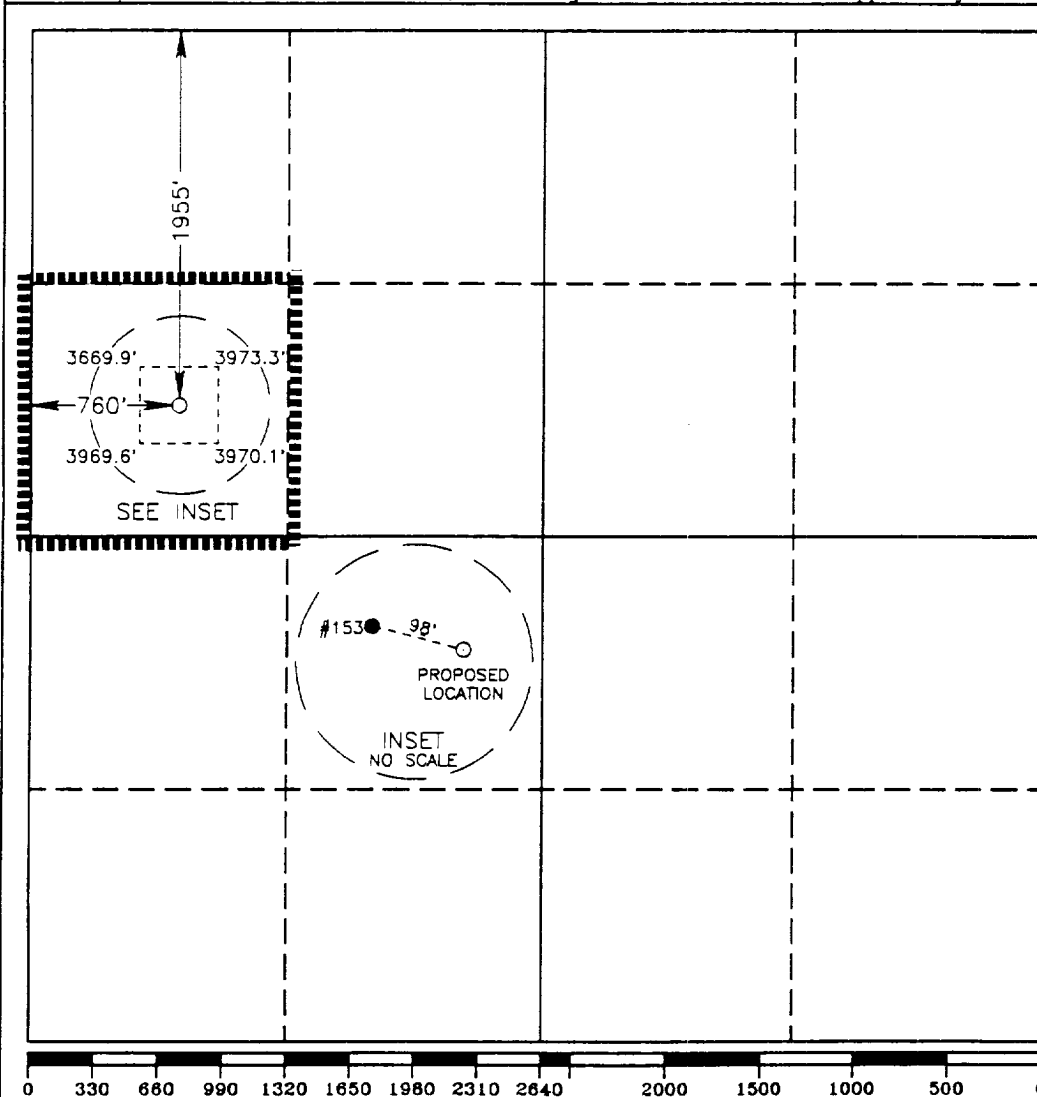
Actual Footage Location of Well:

1955 feet from the NORTH line and	760 feet from the WEST line		
Ground Level Elev. 3972.2'	Producing Formation (San Andres / Grayburg)	Pool Maljamar / SA / Grayburg	Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Hoover
Printed Name
Jerry W. Hoover
Position
Sr. Conservation Coord.
Company
Conoco, Inc.
Date
May 11, 1993

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 knowledge and belief.

Date Surveyed
APRIL 20, 1993

Signature & Seal of
Professional Surveyor

JOHN W. WEST, 876
RONALD A. BIDSON, 3239
JAMES E. JONES, 7977
93-11-0635

ATTACHMENT TO FORM 3160-3
APPLICATION FOR PERMIT TO DRILL

Conoco Inc.

MCA Unit No. 387
Sec. 28, T-17S, R-32E
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. BOPE will be checked when casing string is set.
4. The proposed casing program is as follows:
 - 0-950': 13-3/8", 54.5# K-55
 - 0-3650': 8-5/8", 32# K-55
 - 0-4400': 5-1/2", 17# K-55
5. The proposed mud program is as follows:
 - 0-950": 8.4-8.8# Fresh Water
 - 1450'-5800': 8.4-10.0# Brine
 - 5800'-9300': 16.0-16.5# Salt Gel/Starch
6. Run open-hole logs from 3600'-4400'. The log suite will include: GR-DLL-NEVT-DEN-CAL-CBIL. A temperature survey will be run to determine the top of cement on each casing string where cement is not circulated.
7. Special Drilling Problems: SEE column 2 on Proposed Well Plan Outline
8. The anticipated starting date is 7-11-93 with a duration of approximately 14 days.

PROPOSED WELL PLAN OUTLINE

WELL NAME: **MCA UNIT No. 387**

LOCATION: **1955' FNL, 760' FWL, SEC 28, T-17-S, R-32-E, LEA CO., NM**

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									8.4 - 8.8 # FRESH WATER	
		B/RED BEDS @ 850'	SLOUGHING IN RED BEDS			13-3/8" 54.5# K-55 ST&C @ 950'		NORMAL		
1		SALADO @ 975'			17-1/2"					
			NITROGEN POCKETS @ 1200'							
			WATER FLOWS 2000' TO T.D.							
2		YATES @ 2110'	HYDROGEN SULFIDE & CARBON DIOXIDE 3000' TO T.D.							
		7-RIVERS @ 2485'	LOST CIRC 3500' TO 3600'	FLUID CALIPER FOR CMT.					10.0 - 10.5 # BRINE	
3		QUEEN @ 3075'								
		GRAYBURG @ 3461'				8-5/8" 32# K-55 ST&C @ 3650'		8.4 - 10.0 #		
		SAN ANDRES 7TH @ 3974'	CARBON DIOXIDE INJECTION IN OFFSETS @ 3700'		11"					
4		T.D. @ 4400'	ABNORMAL PRESSURE	GR-DLL-NEVT-DEN- CAL-CBIL					16.5 - 17.0 # BRINE/GEL	
5						5-1/2" 17# K-55 LT&C @ 4400'		16.0 - 16.5 #		
6					7-7/8"					
7										
8										

DATE: MAY 6, 1993

PREPARED BY: G. L. FAUL

BOP SPECIFICATIONS

