

UNITED STATES RECEIVED  
DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐O. C. D. PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐

ARTESIA, OFFICE

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

HAMON OPERATING COMPANY (I.D.#75-1916695) Ph: 915/697-1762

## 3. ADDRESS OF OPERATOR

325 N. St. Paul, 3900 Twr. II, Dallas Texas 75201-3902

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

At surface

1980' FSL & 1980' FEL of Sec. 4, T21S, R27E, Eddy County, N.M.  
At proposed prod. zone

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

5 miles N/NE from Carlsbad, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

660

## 16. NO. OF ACRES IN LEASE

320

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.

1320

## 19. PROPOSED DEPTH

4000'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3177' GR

## 22. APPROX. DATE WORK WILL START\*

April 18, 1988

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	500	600 sx. or circulate to surface
12-1/4"	8-5/8"	24#	2650	1000 sx. or circulate to surface
7-7/8"	5-1/2"	15.5#	4000	200 sx.

Pay zone will be selectively perforated and stimulated as needed for optimum production.

Attached are: 1. Well Location & Acreage Plat  
2. Supplemental Drilling Data  
3. Surface Use Plan

Lease # NM 18726 is held by production.

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

*B.W. Cozart*

(B.W. Cozart)

TITLE

Dist. Op. Supt.

DATE

3-17-1988

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

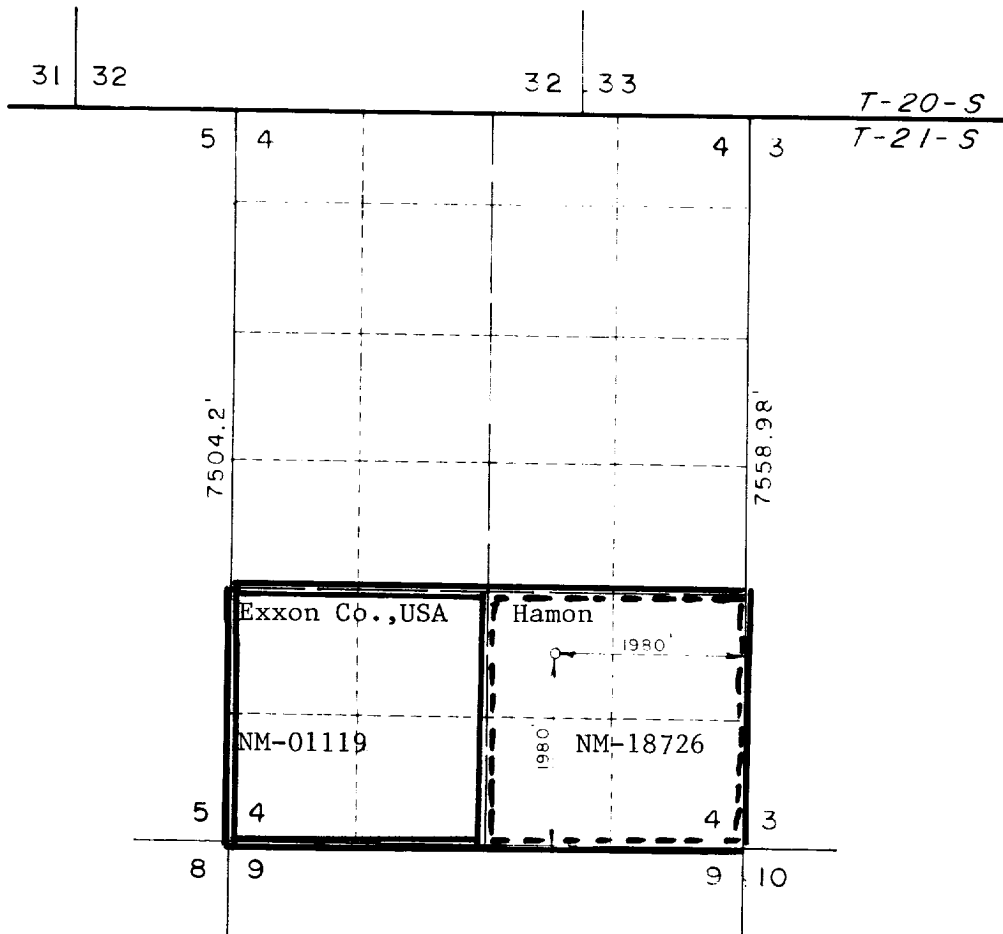
Operator <b>Hamon Operating Company</b>			Lease <b>Federal 4 Com.</b>		Well No. <b>2</b>
Unit Letter <b>R</b>	Section <b>4</b>	Township <b>21 South</b>	Range <b>27 East</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>1980</b> feet from the <b>South</b> line and <b>1980</b> feet from the <b>East</b> line					
Ground Level Elev. <b>3177.0</b>	Producing Formation <b>Delaware</b>		Pool <b>Wildcat Avalon Delaware, Umd.</b>		Dedicated Acreage: <b>40</b> 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes    ☐ No    If answer is "yes," type of consolidation Communitization

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

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



**CERTIFICATION**

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

*B.W. Cozart*

Name  
**B.W. Cozart**

Position  
**Dist. Op. Supt.**

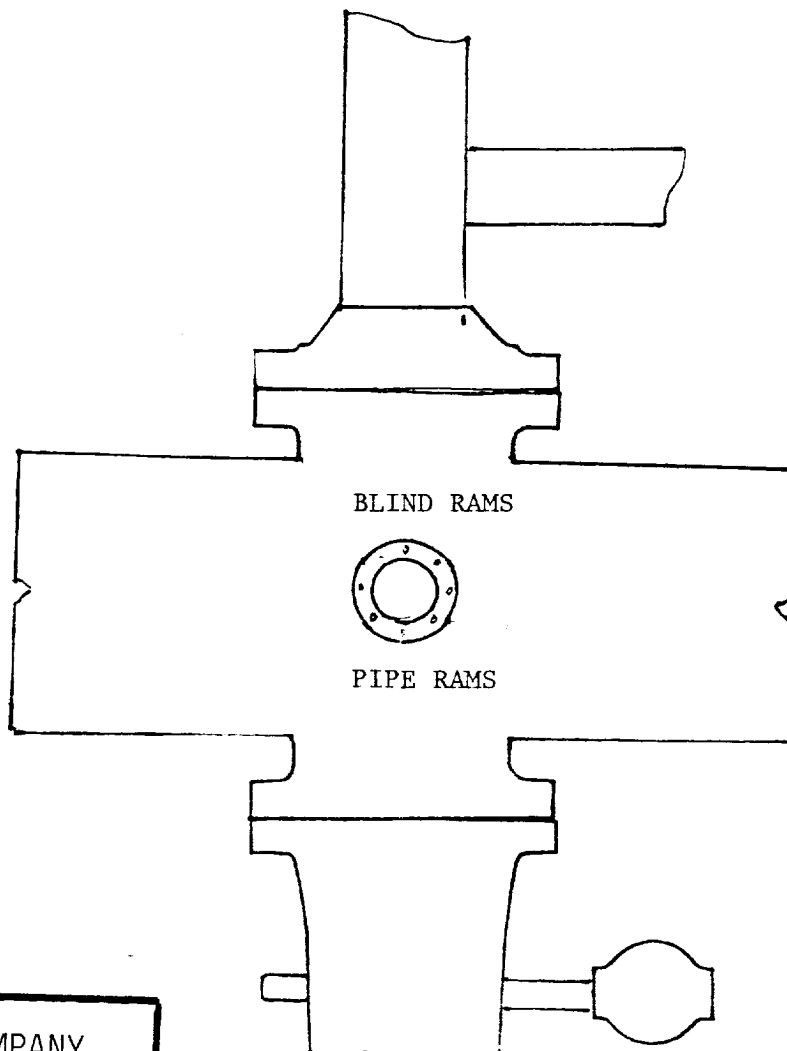
Company  
**Hamon Operating Company**

Date  
**March 19, 1988**

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 of Survey	1988
Registered Professional Engineer and Surveyor	
Certification No.	876
JOHN W. EDSON	
3239	

BLOWOUT PREVENTER SKETCH



HAMON OPERATING COMPANY.

BLOWOUT PREVENTER SKETCH

Federal 4 COM # 2  
C NW SE Sec. 4-21S-27E

SUPPLEMENTAL DRILLING DATA

HAMON OPERATING COMPANY  
FEDERAL 4 COM WELL # 2  
1980' FSL & 1980' FEL, SEC. 4-21S-27E  
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Silty loam and sandy soils of Quaternary age.
2. ESTIMATED GEOLOGIC TOPS:

Base of Dolomite	2400'
Top of Delaware	2650'
3. POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water:	Above 500'
Oil:	Delaware Sand
4. PROPOSED CASING PROGRAM:

<u>SIZE</u>	<u>INTERVAL</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>JOINT</u>
13-3/8"	0-500'	48#	H-40	STC
8-5/8"	500-2650'	24#	K-55	STC
5-1/2"	2650-4000'	15.5#	K-55	STC
5. PRESSURE CONTROL EQUIPMENT:

Blowout Preventer stack will consist of a dual ram type preventer with a 3000psi working pressure. (A sketch of BOP is attached)
6. PROPOSED MUD PROGRAM:

0- 500'	Fresh water with gel and/or lime as needed to clean hole.
500-4000'	Fresh water base mud with sweeps of LCM as needed.
7. AUXILIARY EQUIPMENT:

Drill string safety valves will be maintained on the rig floor in the open position while drilling operations are in progress.
8. TESTING, CORING AND LOGGING PROGRAMS:

DST's in Delaware if warranted.  
No coring is planned.  
Electric Logs will be run at TD if warranted.
9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS:

None anticipated.
10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

A. Road and pad construction: April 18, 1988.
B. Spud well: April 20, 1988.
C. Duration of drilling and completion operations: 15-30 days.

T. 21 S  
1030000  
YARDS

32°30'

540000  
FEET

T. 21 S

ROSWELL (JUNC U.S. 70-380) 7.9 MI.  
ARTESIA 35 MI.

25°

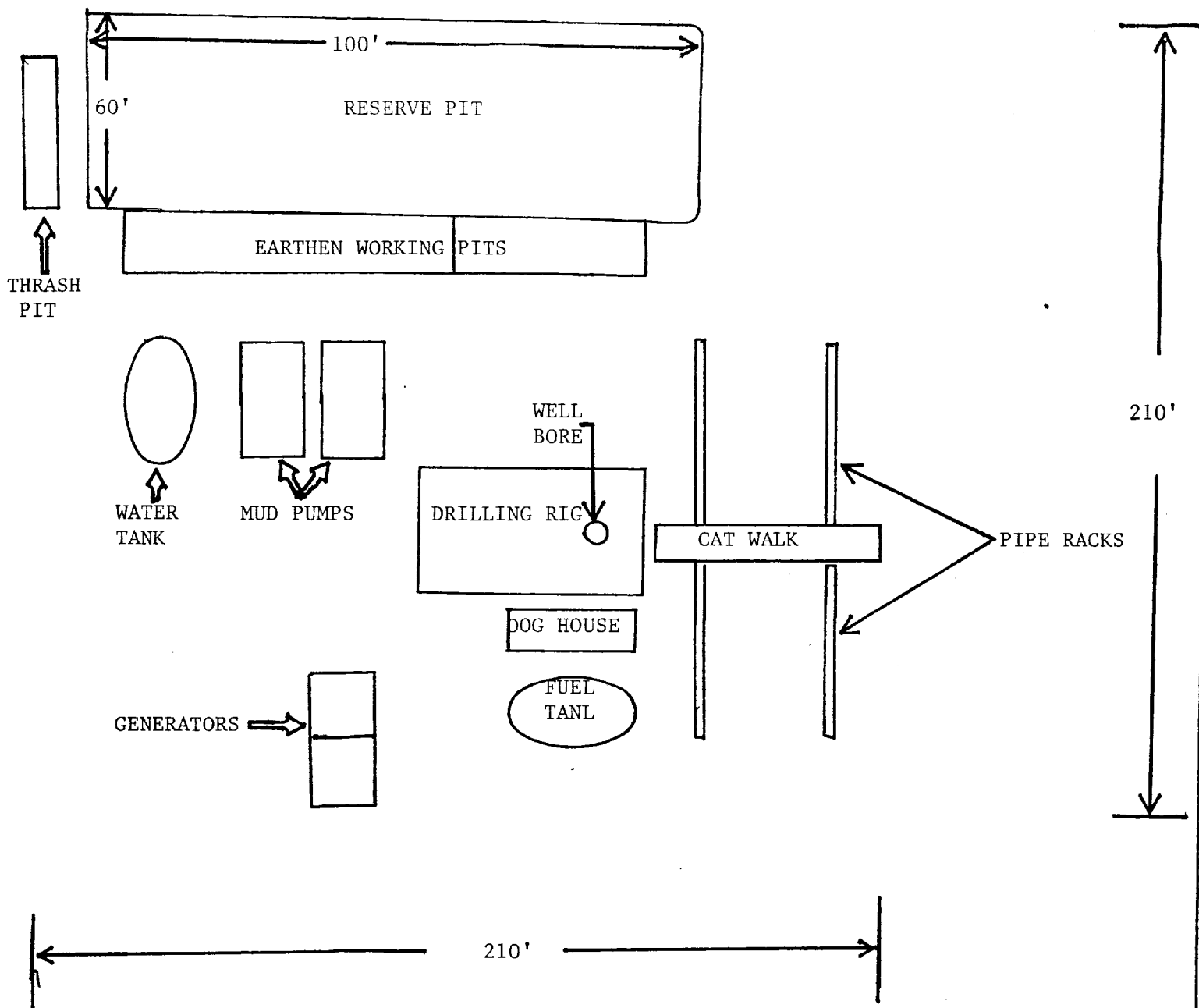


HAMON OPERATING COMPANY

EXHIBIT " B " TOPO MAP

Federal 4 COM # 2

C NW-SE Sec. 4-21-S-27E



HAMON OPERATING COMPANY
EXIBIT "E" RIG LAYOUT
Federal 4 COM # 2
C NW-SE Sec. 4-21-S-27E

