

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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 ☒ MULTIPLE ☐  
WELL ☒ ZONE ☐  
RECEIVED BY

2. NAME OF OPERATOR

Superior Oil Company, The ✓

3. ADDRESS OF OPERATOR

P. O. Box 633, Midland, Texas 79702

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

At surface

1950' FNL, 1980' FEL of Section 12. ARIZONA OFFICE

At proposed prod. zone

Same

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

8.5 miles NE from Carlsbad, NM

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

690' South, 630' North

16. NO. OF ACRES IN LEASE

776.2

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. 1290' to #8

19. PROPOSED DEPTH

5800'

20. ROTARY OR CABLE TOOLS

Rotary

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

3194' GR

22. APPROX. DATE WORK WILL START\*

23.

## PROPOSED CASING AND CEMENTING PROGRAM

## New Casing

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13-3/8"	48	650'	675 sx circ. to surface
11 1/2 1/4"	8-5/8"	24	2200-2400'	720 sx circ. to surface
7-7/8"	5 1/2"	15.5	5800'	690 sx circ. to surface

## CEMENTING PROGRAM:

13-3/8" csg to be cmtc to surface w/675 sx Class C 2% CaCl<sub>2</sub>, 1#/sx flocele.8-5/8" csg to be cmtc to surface w/720 sx HOWCO Lite w/14#/sx flocele and Class C  
w/2% CaCl<sub>2</sub>.

5 1/2" csg to be cmtc w/690 sx Trinity LW + 1#/sx flocele and Class C Neat.

BOP:

See Attachment

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

G. E. Tate

G. E. Tate, as

TITLE

Env. &amp; Reg. Manager

DATE

July 8, 1985

Agent for The Superior Oil Company

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

7-23-85

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL CONDITIONS  
ATTACHED

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

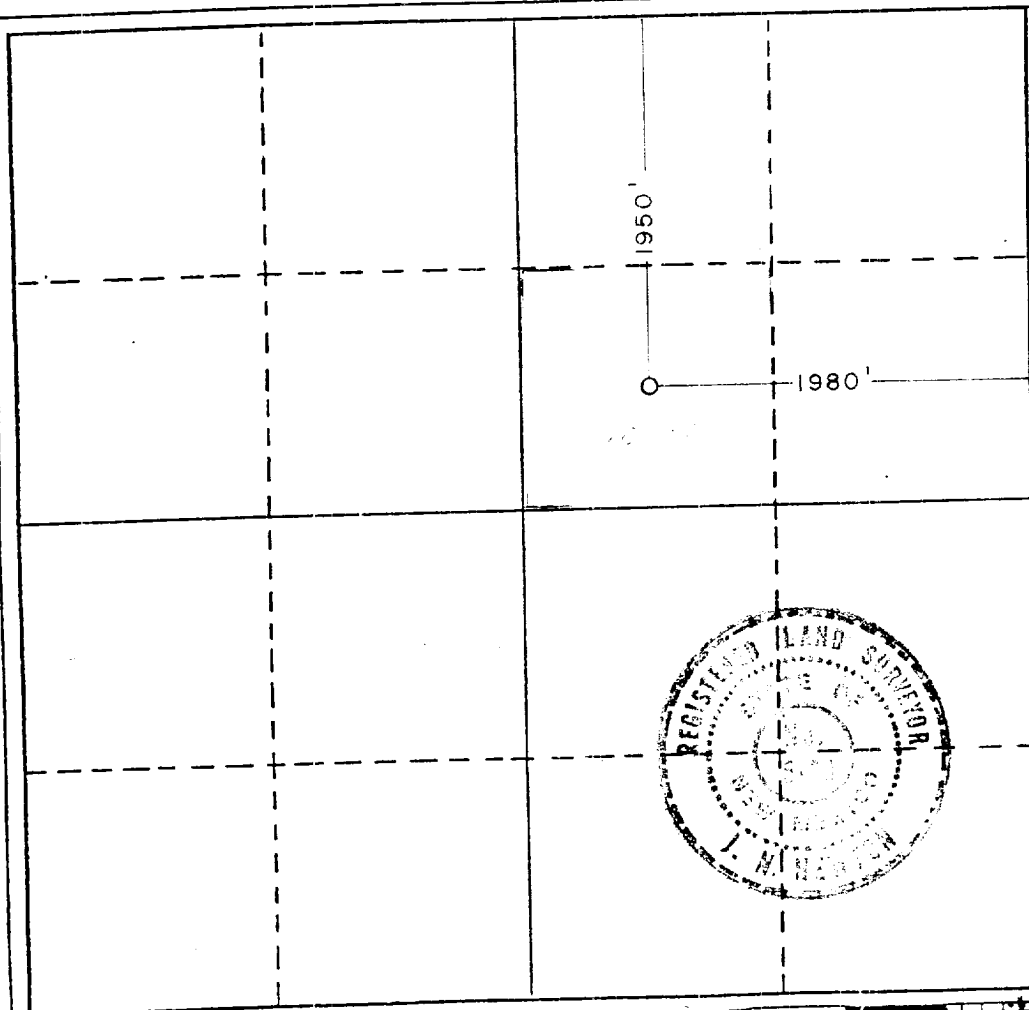
Operator Superior Oil Company, The			Lease Government "D"		Well No. 11
Unit Letter G	Section 12	Township 21-S	Range 27-E	County Eddy	
Actual Footage Location of Well: 1950 feet from the north line and 1980 feet from the east line					
Ground Level Elev. 3194	Producing Formation Bone Spring, East		Pool Avalon	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 interests 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 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 Division.



CERTIFICATION

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

G. E. Tate G. E. Tate  
Name  
as Agent for Superior Oil Co.

Position  
The  
Env. & Reg. Manager

Company  
Mobil Producing Tx. & N.M. Inc.

Date  
July 8, 1985

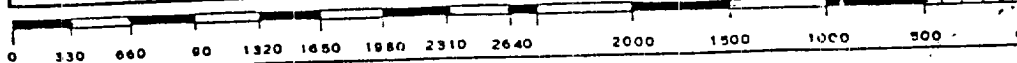
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

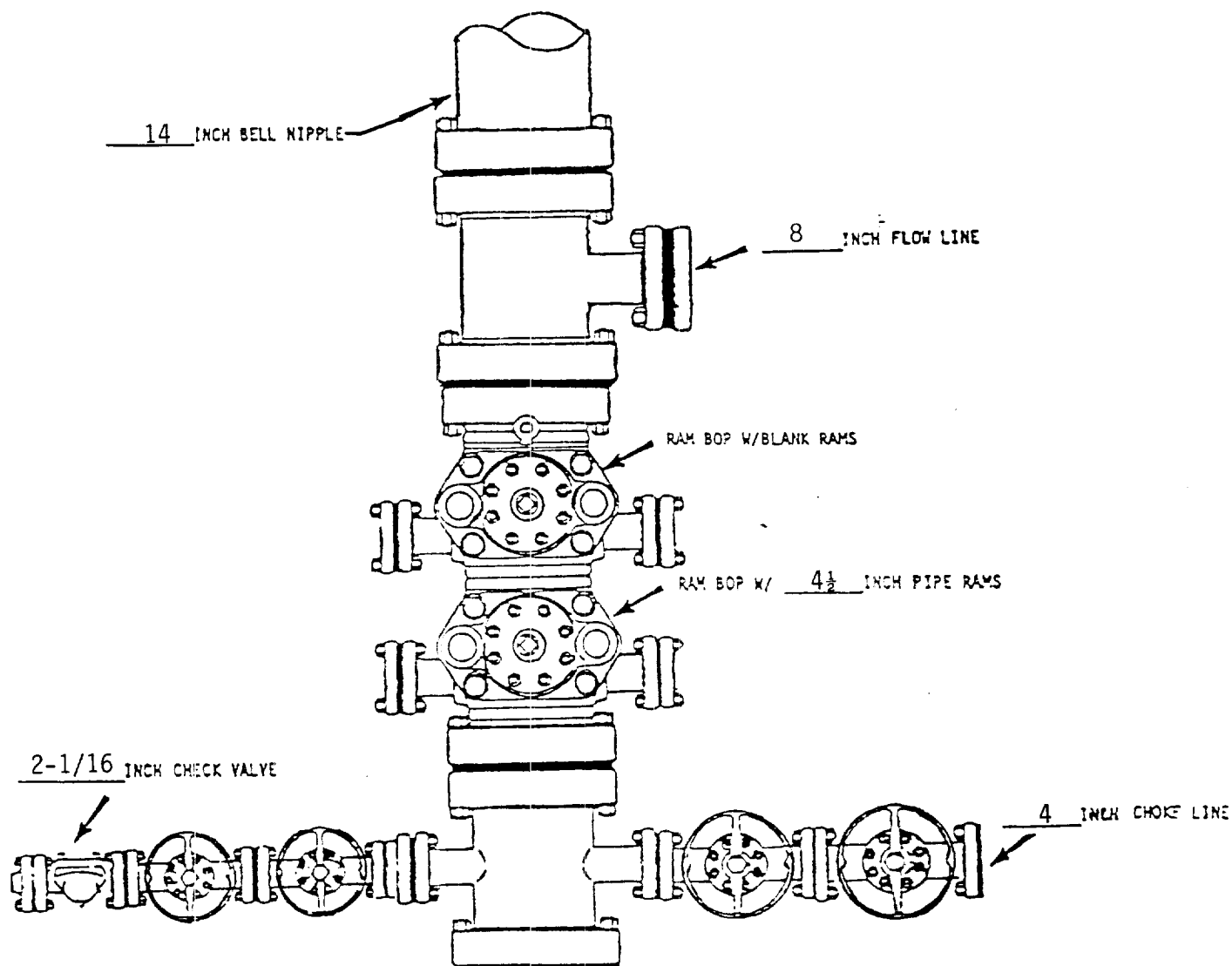
Date Surveyed  
May 29, 1985

Registered Professional Engineer  
and/or Land Surveyor

[Signature]  
Certificate No.

5109





\*NOTE: ALL VALVES ARE METAL-TO-METAL SEAL AND FLANGED. ALL COMPONENTS MUST MEET ABOVE MINIMUM PRESSURE RATINGS. ALL COMPONENTS TO BE TESTED TO RATED PRESSURE AFTER ASSEMBLY AND BEFORE FURTHER DOWNHOLE OPERATIONS MAY BE CONDUCTED.

<b>Mobil Producing</b> <b>Texas &amp; New Mexico Inc.</b> Houston, Texas		Scale
Well # 11	Government "D"	Date
(Lease)		Drawn
Eddy County, NM State		Checked
Blowout Preventer Assembly		Approved
(11-13 5/8IN. 3000 PSI WP*)		Revised

MOBIL PRODUCING TX. & N.M. INC.

LEASE: Government "D" WELL: 11  
 FIELD: Avalon - Bone Spring, East  
 COUNTY: Eddy STATE: NM

TEN POINT WELL CONTROL & RESOURCE PROTECTION DATA

1. The geologic name of the surface formation Quaternary.
2. The estimated tops of important geologic markers.

<u>Formation Name</u>	<u>Depth (Top)</u>
<u>Delaware</u>	<u>2900'</u>
<u>Bone Spring</u>	<u>5400'</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

3. The estimated depth at which anticipated water, oil, gas or other mineral-bearing formations are expected to be encountered.

<u>Formation Name</u>	<u>Depth (Top)</u>	<u>Type of Mineral</u>
<u>Delaware</u>	<u>2900'</u>	<u>Oil/Water</u>
<u>Bone Spring</u>	<u>5400'</u>	<u>Oil/Gas</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

4. The proposed casing program, including the size, grade, and weight-per-foot of each string and whether new or used. (Shown on Form 9-331C)
5. The lessee's or operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings (or API series), and the testing procedures and testing frequency. (See attachment)

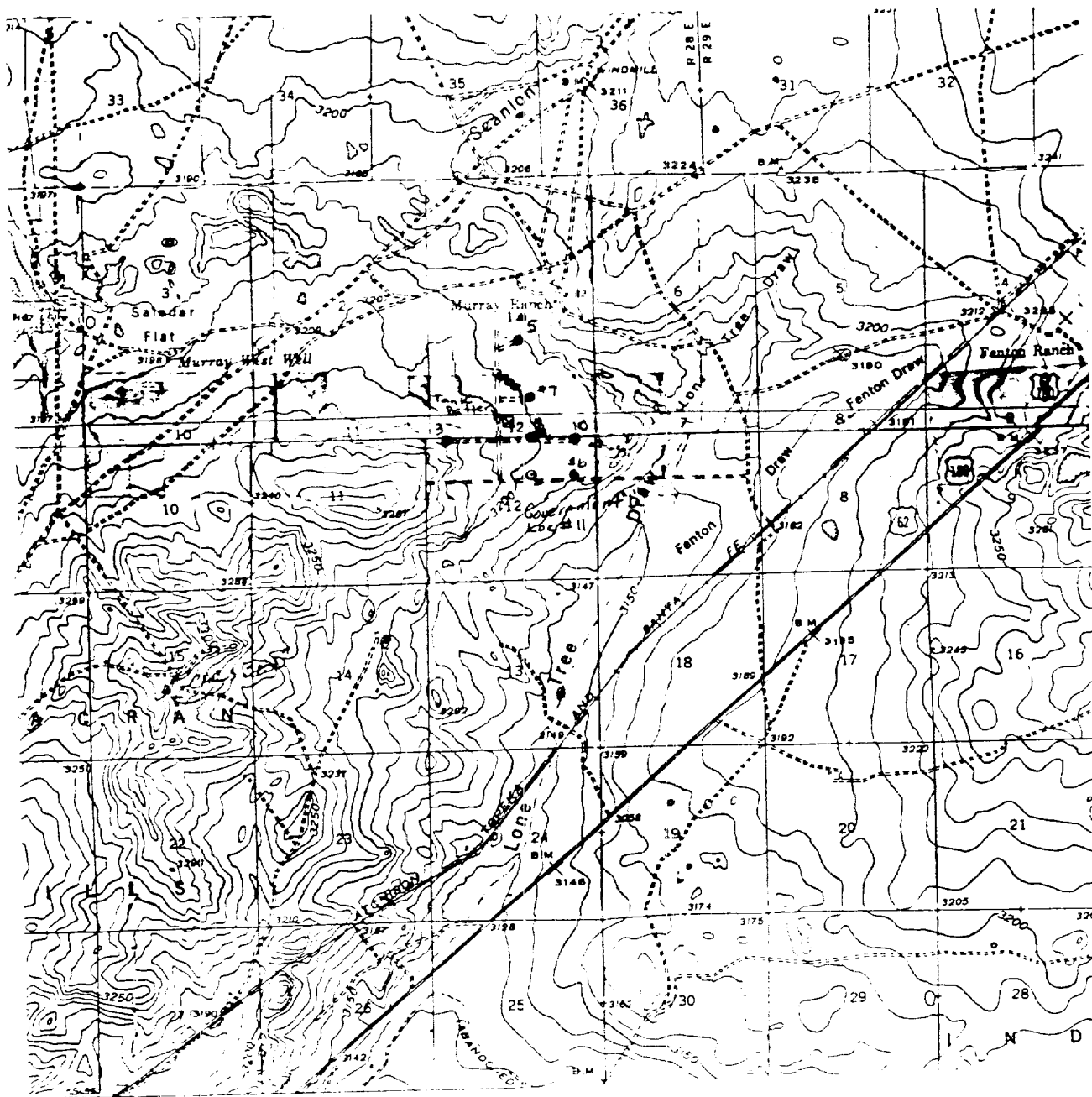
6. The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.

<u>Depth (ft.)</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
<u>0 - 650'</u>	<u>Spud</u>	<u>8.5 - 8.8</u>	<u>34 - 40</u>	<u>NC</u>
<u>650 - 2600'</u>	<u>FW</u>	<u>8.4 - 8.5</u>	<u>28</u>	<u>NC</u>
<u>2600 - 5400'</u>	<u>Cut Brine</u>	<u>8.5 - 8.7</u>	<u>28</u>	<u>NC</u>
<u>5400 - 5800'</u>	<u>Cut Brine</u>	<u>8.5 - 8.7</u>	<u>32 - 34</u>	<u>15 - 18</u>

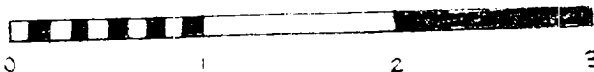
R 27 E

R 28 E

T 21 S



- Proposed well location
- == Proposed Road

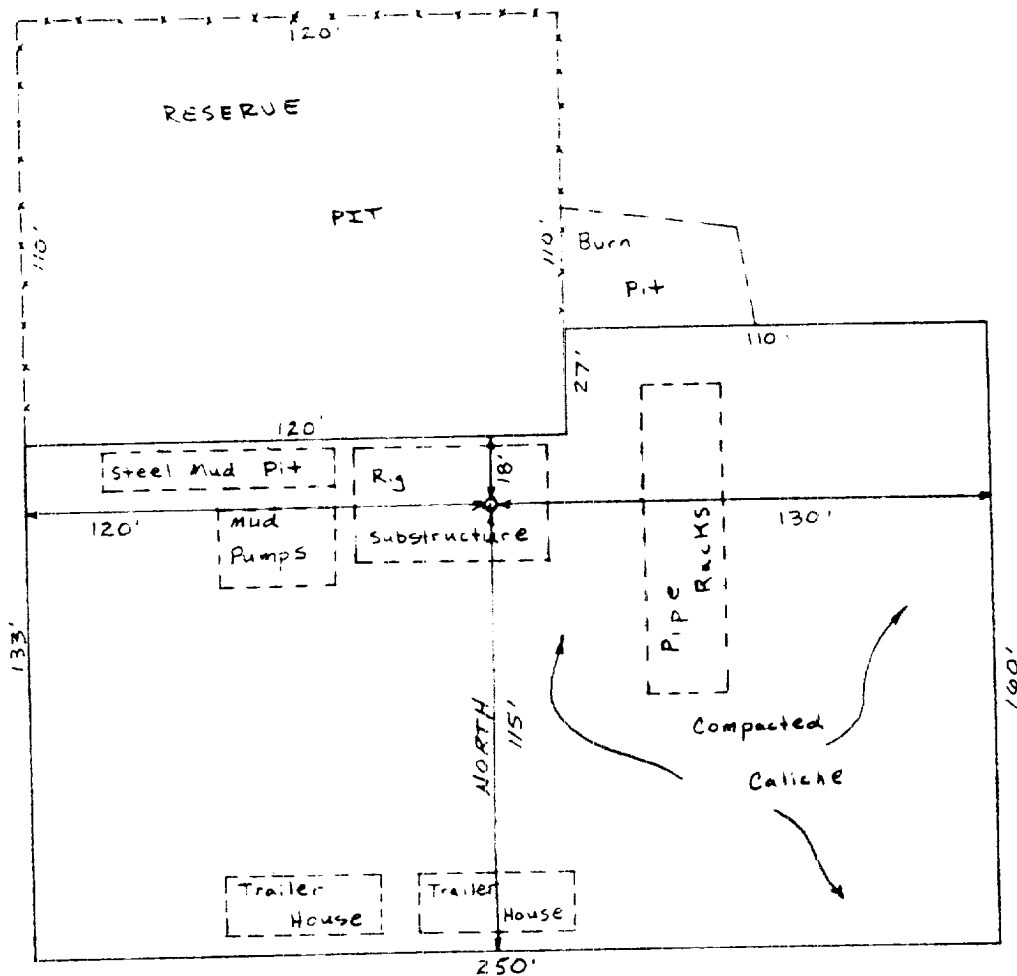


Scale in miles

## Mobil Producing Texas & New Mexico Inc.

Vicinity Map of Government  
"D" location # 11 Section 12  
T-21-S R-27-E Eddy Co. N.M.

DRAWN GEW	SCALE 1"=1 mile
CHECKED	DATE 5-13-35
APPROVED	REVISED



**Mobil Producing  
Texas & New Mexico Inc.**

Government "D" Location Pad  
Layout Map Eddy County,  
New Mexico.

DRAWN GEW	SCALE 1"=50'
CHECKED	DATE 5-14-85
APPROVED	REVISED