

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 ☐

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 660' FNL, 1980' FEL of Section 12.

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 ldr, if any.)
950' NW 660' 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.
#7 @ 1320'

19. PROPOSED DEPTH
5800'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3198' GR

22. APPROX. DATE WORK WILL START*
8-15-85

23. PROPOSED CASING AND CEMENTING PROGRAM
New Casing

24. 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 prevention program, if any.

CEMENTING PROGRAM:

13-3/8" csg to be cmtd to surface w/675 sx Class C 2% CaCl₂, 1#/sx flocele.

8-5/8" csg to be cmtd to surface w/720 sx HOWCO Lite w/14#/sx flocele and Class C w/2% CaCl₂.

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

BOP:

See Attachment

SIGNED G. E. Tate, G. E. Tate, as Env. & Reg. Manager
Agent for The Superior Oil Company
(This space for Federal or State office use)

PERMIT NO. 1004 APPROVAL DATE 7-23-85

APPROVED BY [Signature] TITLE [Signature] DATE 7-23-85

CONDITIONS OF APPROVAL, IF ANY:

5. LEASE DESIGNATION AND SERIAL NO.

NM-17095

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Government "D"

9. WELL NO.

8

10. FIELD AND POOL, OR WILDCAT

Avalon-Bone Spring, East

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 12 T-21-S, R-27-E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

New Casing

QUANTITY OF CEMENT

675 sx circ. to surface

720 sx circ. to surface

690 sx circ. to surface

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL stipulations
ATTACHED

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

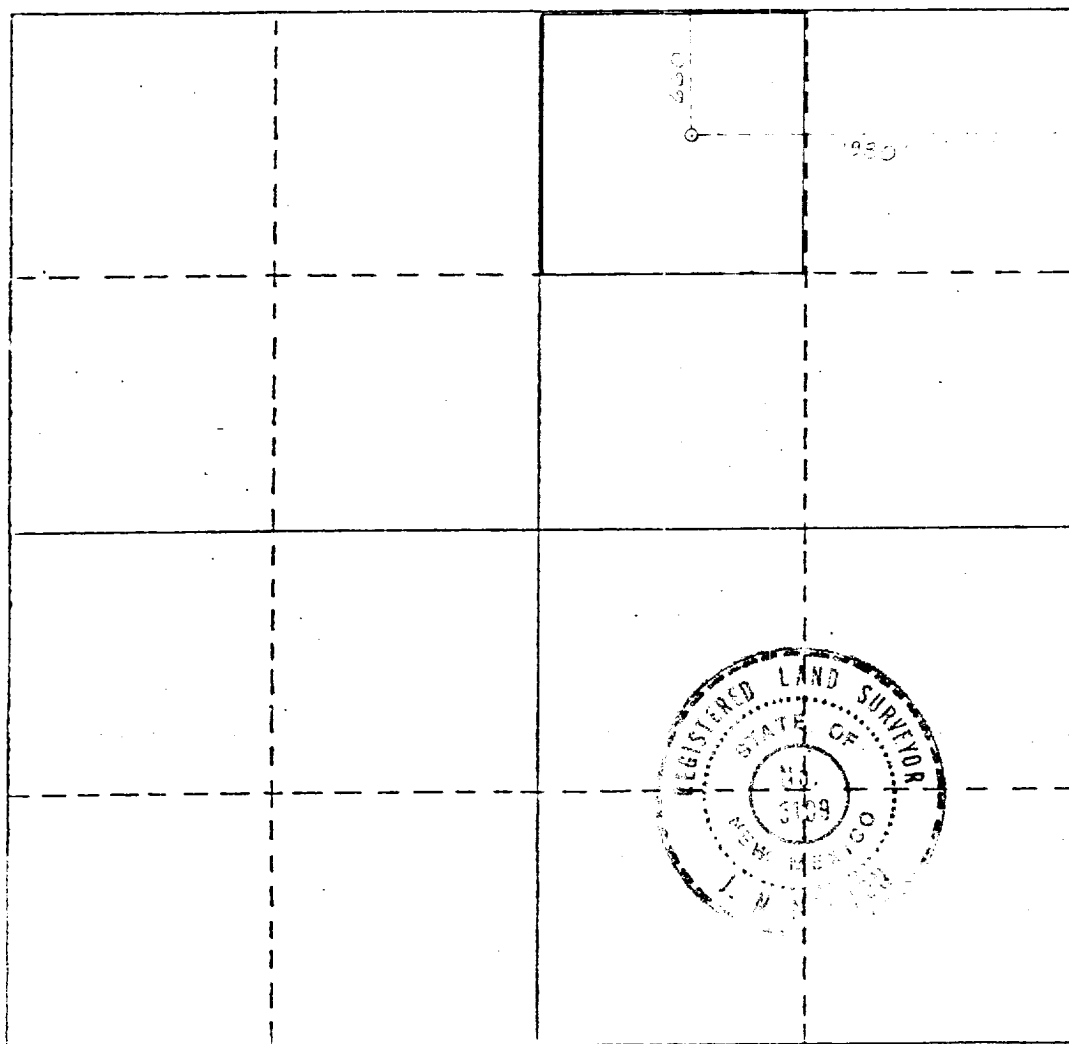
Operator Superior Oil Company, The			Lease Government "D"		Well No. 8
Unit Letter B	Section 12	Township 21-S	Range 27-E	County Eddy	
Actual Postage Location of Well: 660 feet from the north line and 1980 feet from the east line					
Ground Level Elev. 3198'	Producing Formation Bone Spring, East		Pool Avalon		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

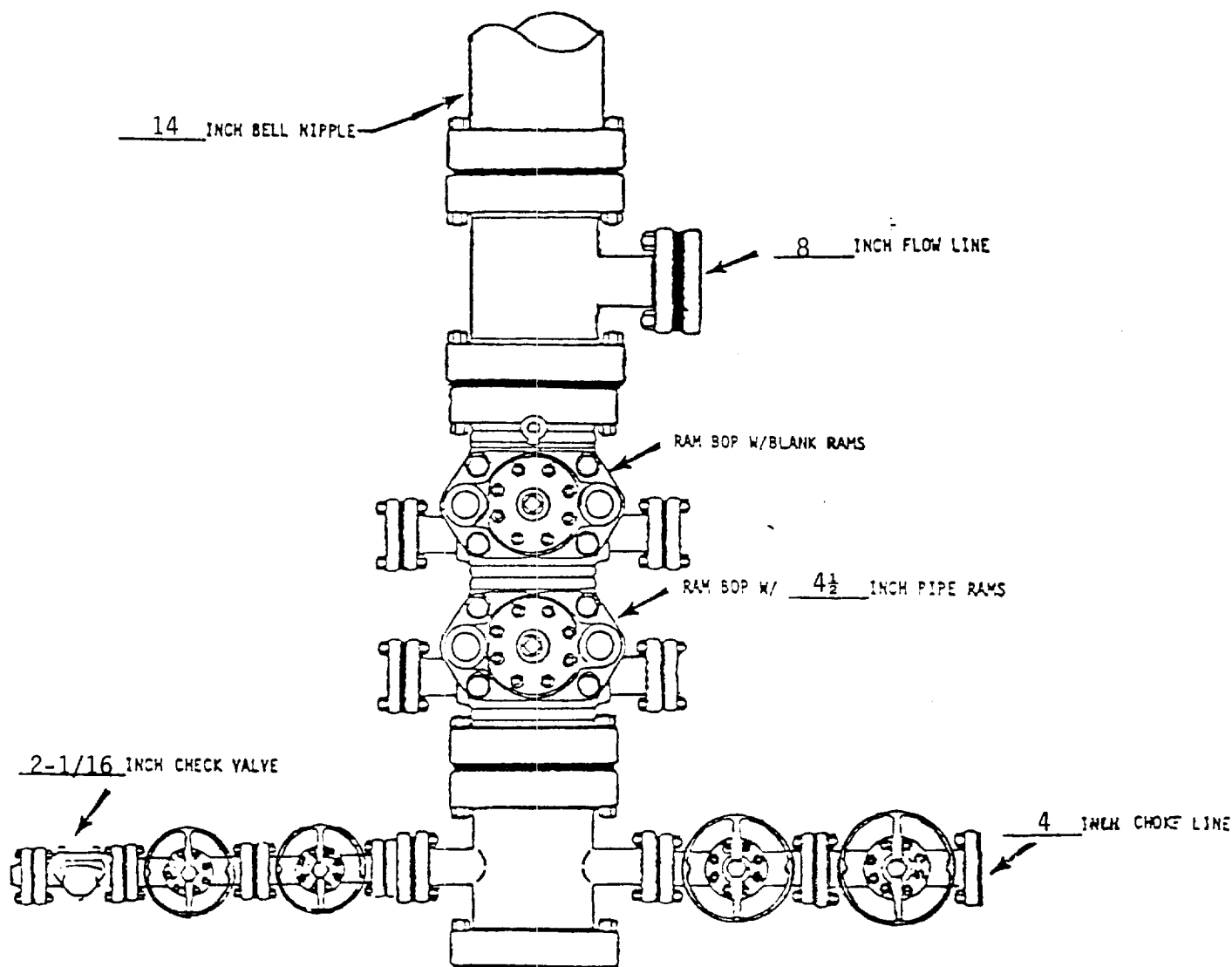
G. E. Tate **G. E. Tate**
Name
as Agent for Superior Oil Co.,
Position **The**
Env. & Reg. Manager
Company
Mobil Producing TX. & N.M. Inc.
Date
July 8, 1985

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
5-8-85
Registered Professional Engineer
and/or Land Surveyor

J. A. Newton
Certificate No.
5109

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600



*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.

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

LEASE: Government "D"
 FIELD: Avalon - Bone Spring, East
 COUNTY: Eddy

WELL: 8
 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)

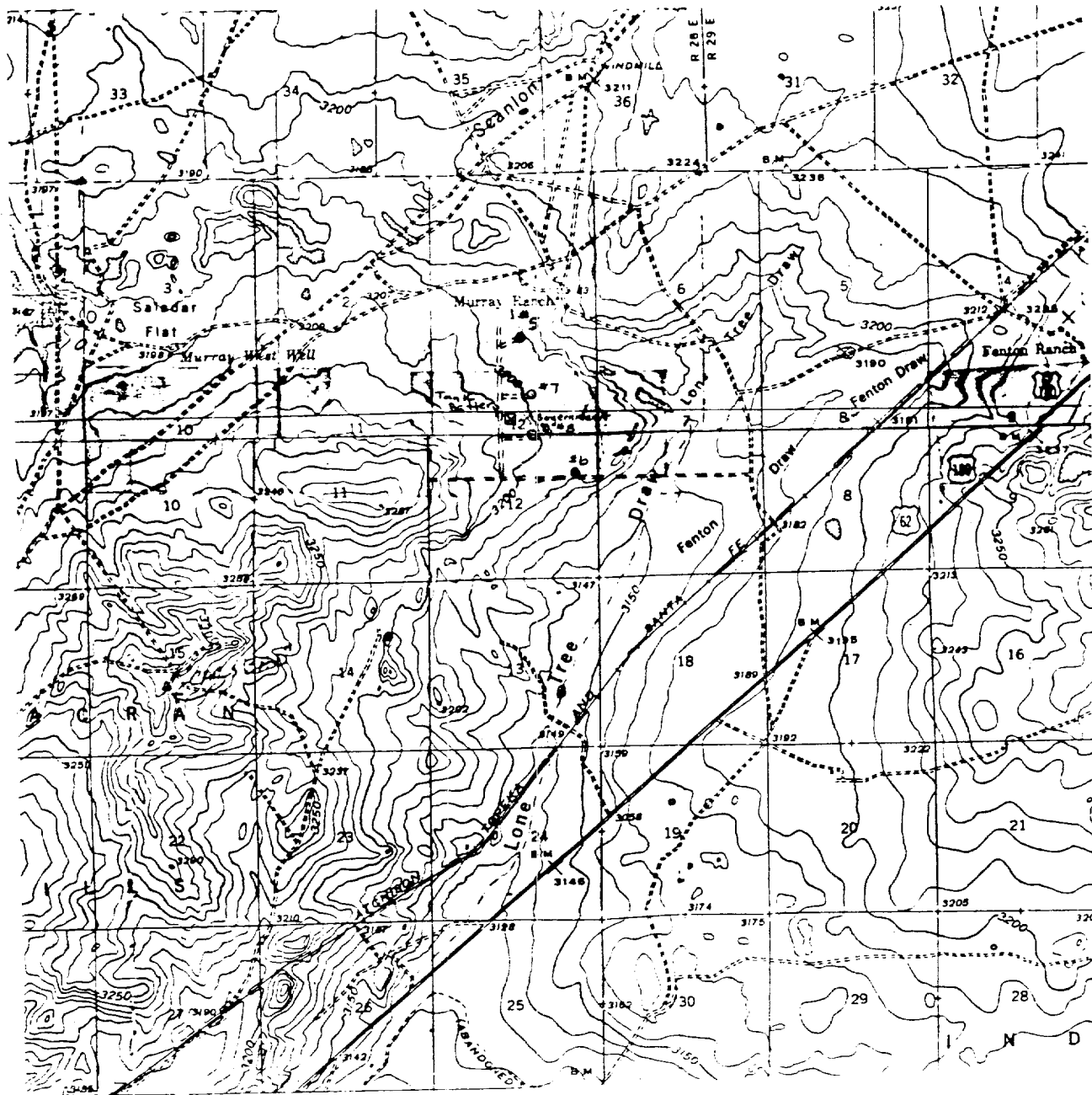
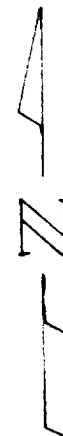
6. The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.

<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>

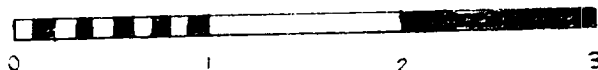
R 27 E

R 28 E

T. 21 S.



- Proposed Well location
- Proposed Tank Battery
- == Proposed Road

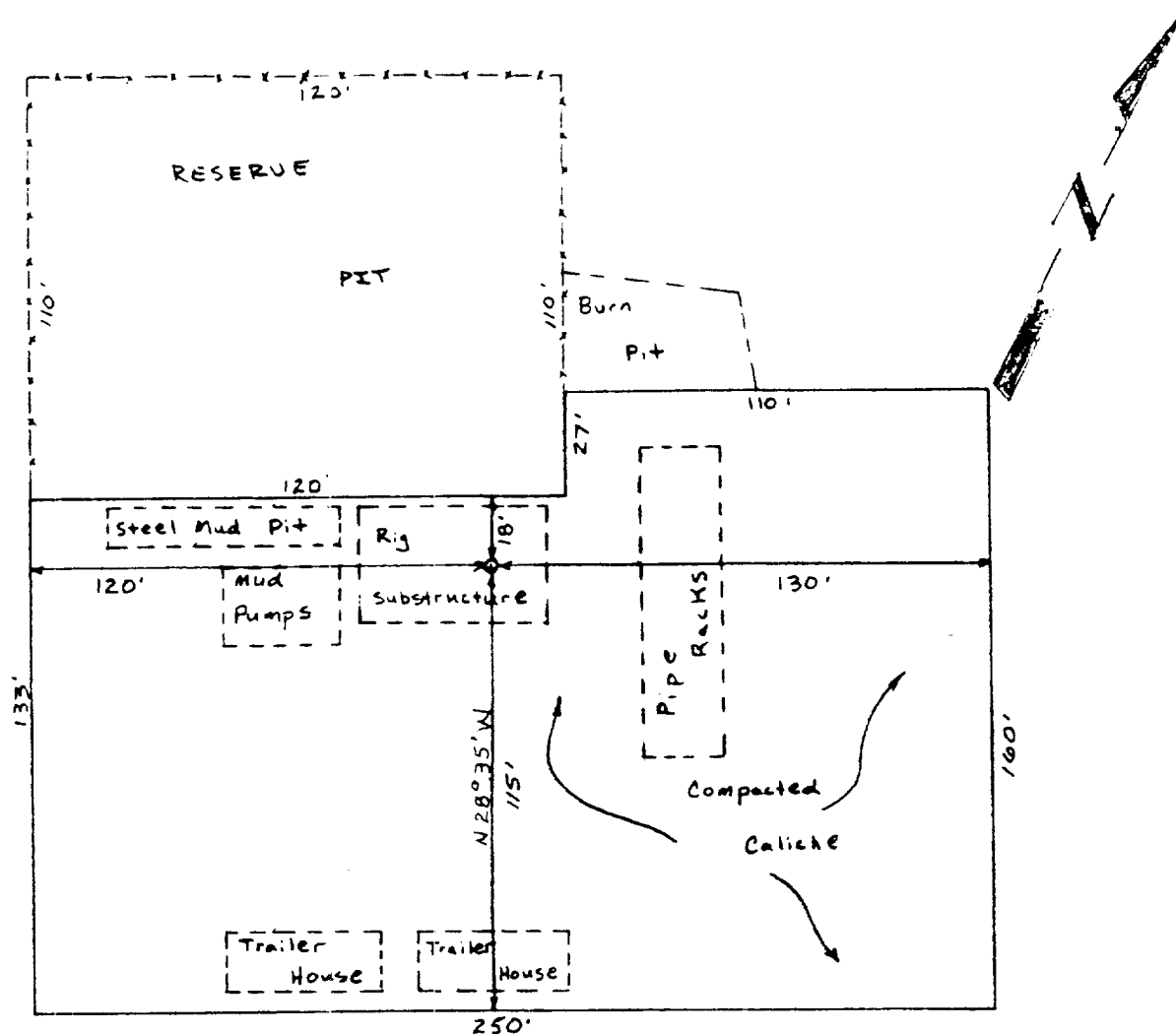


Scale in miles

Mobil Producing Texas & New Mexico Inc.

Vicinity Map of Government
"D" location #8 Section 12
T-21-S R-27-E Eddy Co., N.M.

DRAWN GEW	SCALE 1"=1 mile
CHECKED	DATE 5-13-85
APPROVED	REVISED



BURIED PIPELINE 160 feet South East
N61°25'E

Mobil Producing Texas & New Mexico Inc.

Government "D" Location Pad
Layout Map Location #8
Eddy County, New Mexico

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