

C/SF

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

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' FSL, 660' FEL of Section 1

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)

660'

660 Proposed

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.

1013'

19. PROPOSED DEPTH

5900'

20. ROTARY OR CABLE TOOLS

Rotary

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

3190' GR

22. APPROX. DATE WORK WILL START*

2-15-86

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# Conductor	200 450±	Redi-Mix to surface
12-1/4"	9-5/8"	47#	2450±	2343 Cu Ft circ to surface
7-7/8"	5-1/2"	14#	5750' or TD	1919 Cu Ft circ to surface

CEMENTING DETAIL:

9-5/8" csg to be cmt'd w/1242 sx TLW + ~~15-3/4#~~ 15-3/4# /sx FC (Lead).

100 sx C + ~~1-1/4#~~ 1-1/4# /sx FC (Tail)

5-1/2" csg to be cmt'd w/415 sx TLW + 1/4# /sx FC (Lead).

960 sx Class C + 1/4# /sx FC (Tail).

Posted API
IDI-NL
2-7-86

BOP PROGRAM

3000# Series. 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 TITLE Env. & Reg. Mgr. DATE 1-21-86

As Agent for the Superior Oil Company

(This space for Federal or State office use)

PERMIT NO. CAL APPROVAL DATE 1-31-86

APPROVED BY _____ TITLE _____ DATE 1-31-86

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

*See Instructions On Reverse Side

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

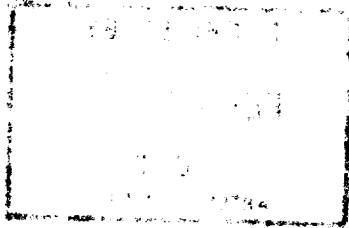
The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396, 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.



The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

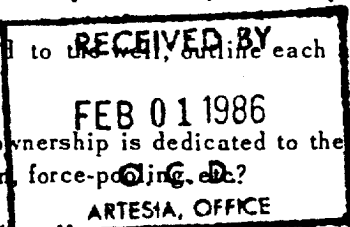
OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

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

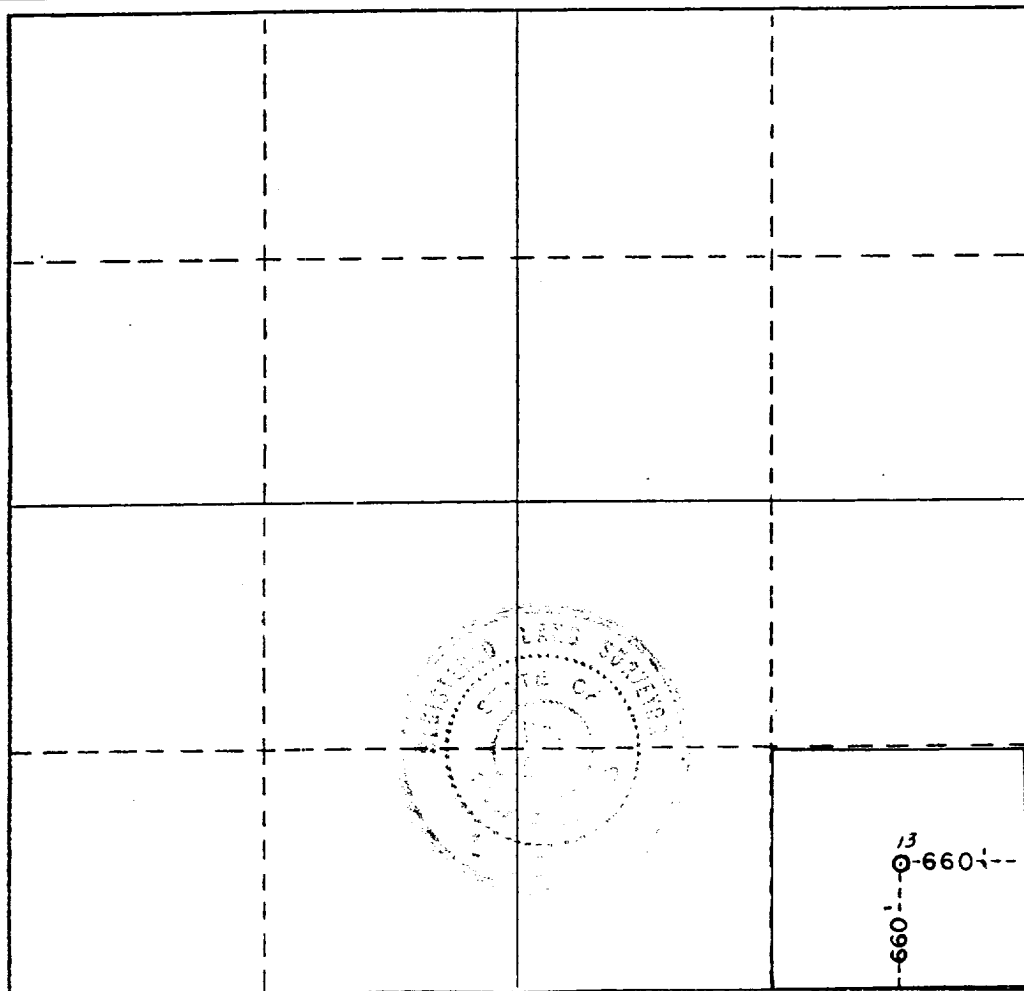
Operator Superior Oil Company, The			Lease Government "D"		Well No. 13
Unit Letter X	Section 1	Township 21 South	Range 27 East	County Eddy	
Actual Footage Location of Well:					
660 feet from the South line and		660 feet from the East line			
Ground Level Elev. 3190	Producing Formation Bone Spring	Pool Avalon, East		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 The Superior Oil
Position Company
Env. & Reg. Mgr.

Company
Mobil Producing TX & NM Inc.

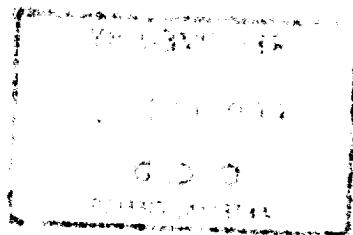
Date
1-21-86

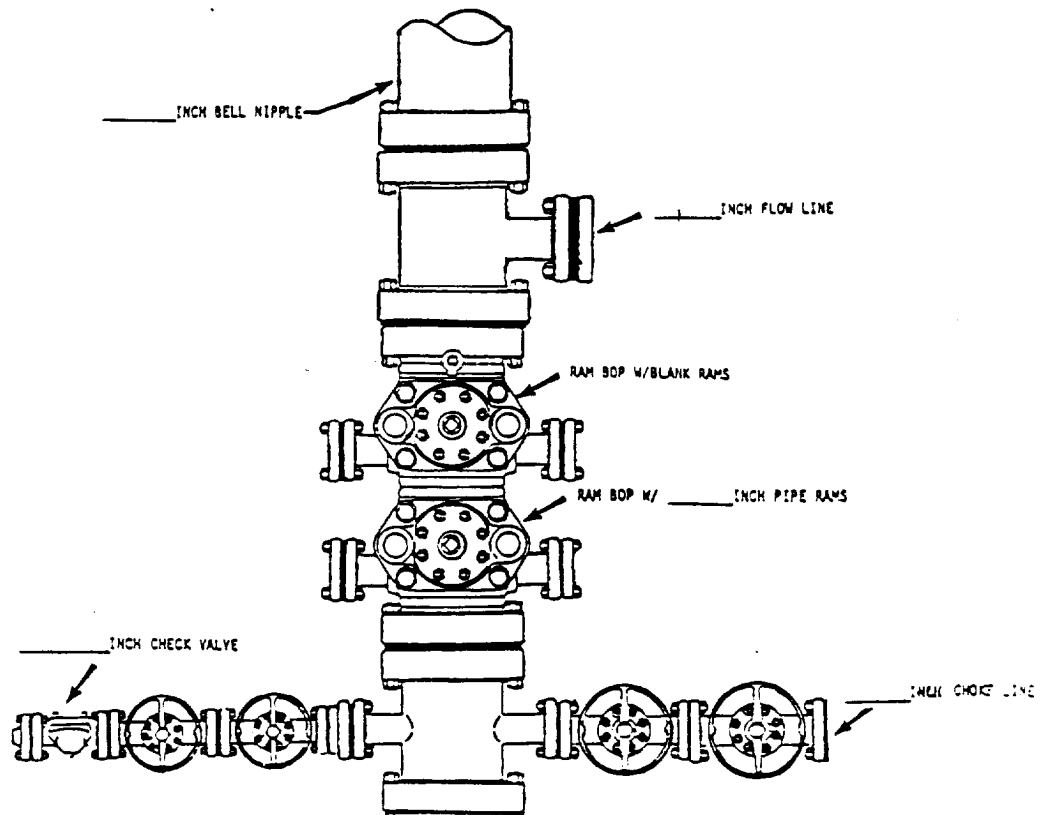
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
December 10, 1985

Registered Professional Engineer
and/or Land Surveyor

J. N. Newton
Certification 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.

Mobil Producing Texas & New Mexico Inc. Houston, Texas		Scale _____ Date _____ Drawn _____ Checked _____ Approved _____ Revised _____
Well # <u>13</u> <u>Government "D"</u> (Lease)		
<u>Eddy</u> County, <u>Wm</u> State Blowout Preventer Assembly IN. PSI WP*)		

MOBIL PRODUCING TX. & N.M. INC.

LEASE: Government "D"

WELL: 13

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.

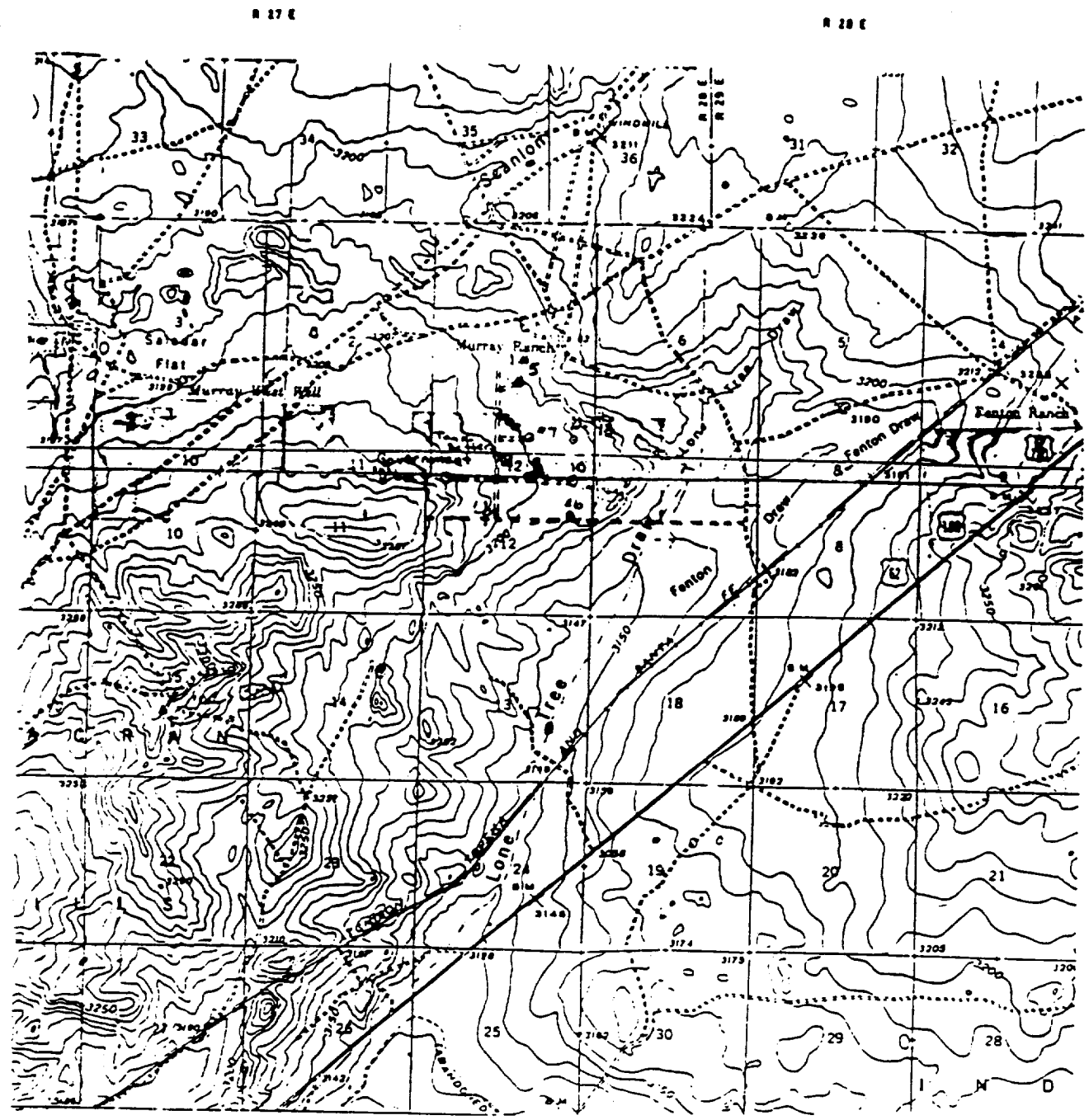
<u>Formation Name</u>	<u>Depth (Top)</u>
<u>Delaware</u>	<u>2900'</u>
<u>Bone Spring</u>	<u>5400'</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

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

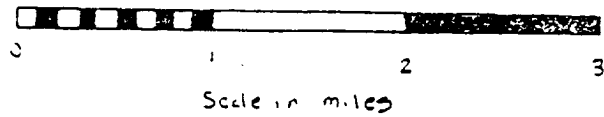
<u>Formation Name</u>	<u>Depth (Top)</u>	<u>Type of Mineral</u>
<u>Capitan Reef</u>	<u>700'</u>	<u>Water</u>
<u>Delaware</u>	<u>2900'</u>	<u>Oil/Water</u>
<u>Bone Spring</u>	<u>5400'</u>	<u>Oil/Water</u>
<u> </u>	<u> </u>	<u> </u>

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 - 2450'</u>	<u>Spud</u>	<u>8.8 - 9.4</u>	<u>34-40</u>	<u>NC</u>
<u>2450 - 2650'</u>	<u>FW</u>	<u>9.6 - 10.0</u>	<u>28-36</u>	<u>NC</u>
<u>2650 - 5400'</u>	<u>FW</u>	<u>8.4 - 8.8</u>	<u>28-33</u>	<u>NC</u>
<u>5400 - 5800'</u>	<u>FW - Gel</u>	<u>8.6 - 9.2</u>	<u>30-38</u>	<u>20+</u>



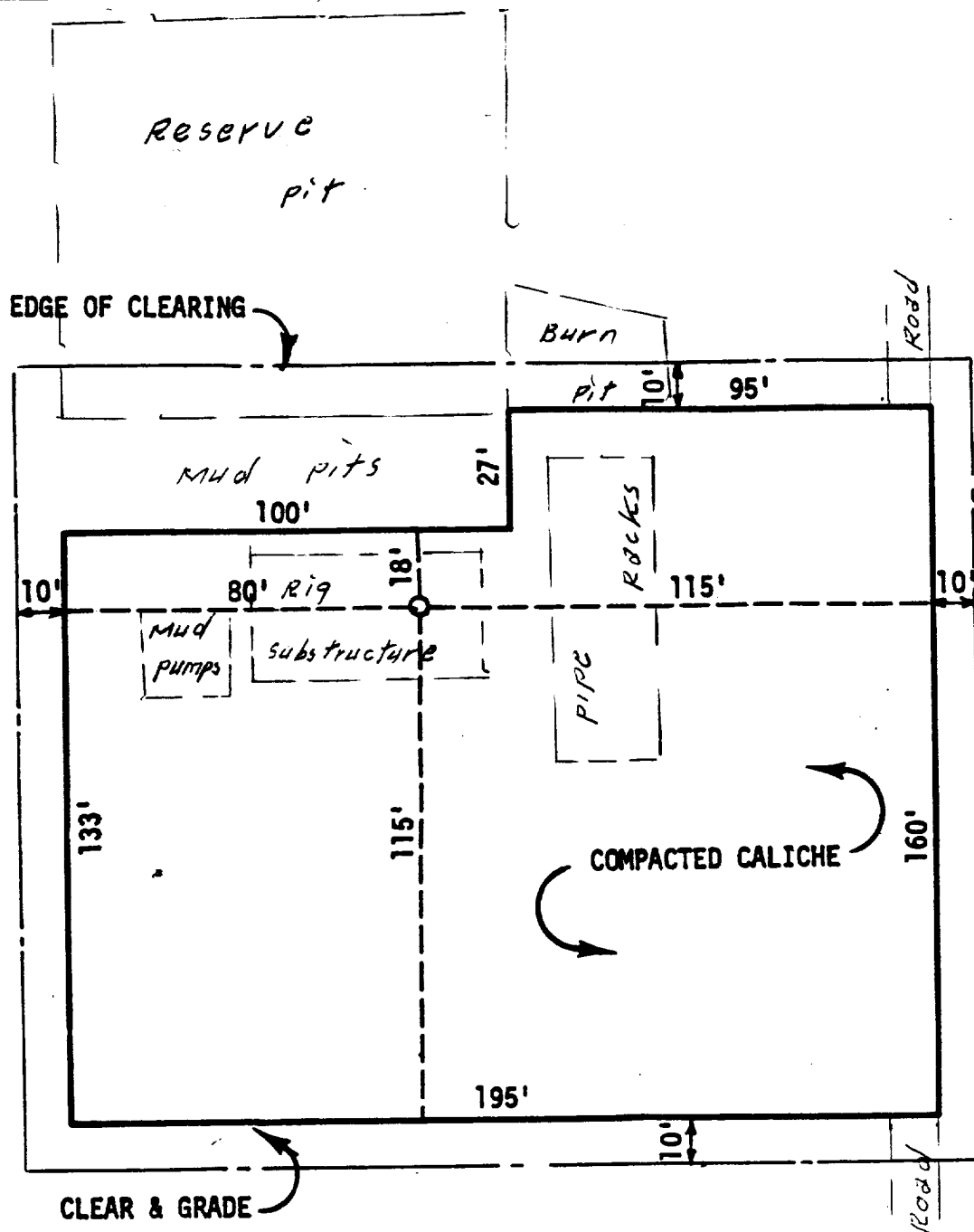
- Proposed well location
- Proposed Tank Battery
- == Existing Road
- - - - - Proposed Recovery well



Mobil Producing Texas & New Mexico Inc.

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

DRAWN 11/10	SCALE 1" = 1 m.
CHECKED	DATE 9-19-45
APPROVED	REVISED



APPROXIMATELY 792 C.Y. CALICHE
REQUIRED FOR 6" COMPACTED PAD

NO.	DATE	BY	ALTERATION
STANDARD LOCATION PLAN 5000'-7000' DEEP WELLS ON STABLE SOIL			
Mobil Producing Texas & New Mexico Inc.			
DRAWN	CHECKED	SCALE 1"=40'	DWG. NO.
		DATE	A 322