

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒ * ~~AMEND~~ 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, TX 79702

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

At surface 1950' 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 line, if any) none 690'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 1320'

16. NO. OF ACRES IN LEASE

776.2

19. PROPOSED DEPTH

3300'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3194' GR

22. APPROX. DATE WORK WILL START*

3-1-86

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#	80' ±	Redi-Mix to Surface
12-1/4"	8-5/8"	24#	2500±	2000 Cu Ft to Surface
7-7/8"	5-1/2" Liner	14#	TD	327 Cu Ft circ to 2400'±

*Amend permit from Avalon, East-Bone Spring. Approved 7-23-85 (not drilled).

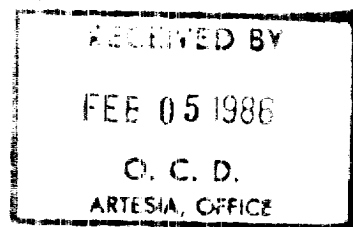
CEMENTING DETAIL:

8-5/8" Csg to be cmt'd w/1242 sx TLW + 15-3/4#/sx salt and 1/4#/sx FC (Lead).
100 sx Class C + 1/4#/sx FC (Tail).

5-1/2" Csg to be cmt'd w/248 sx Class C + 1/4#/sx FC.

BOP PROGRAM:

3000# Series. See Attachment.



Postmarked
ID# NL
2-14-86

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 TITLE Env. & Reg. Mgr. DATE 1-20-86
AS Agent for The Superior Oil Company
(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

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.

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 Delaware	Pool Fenton, Northwest		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.

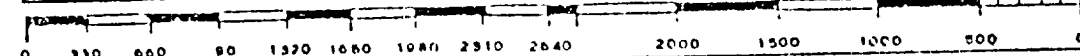
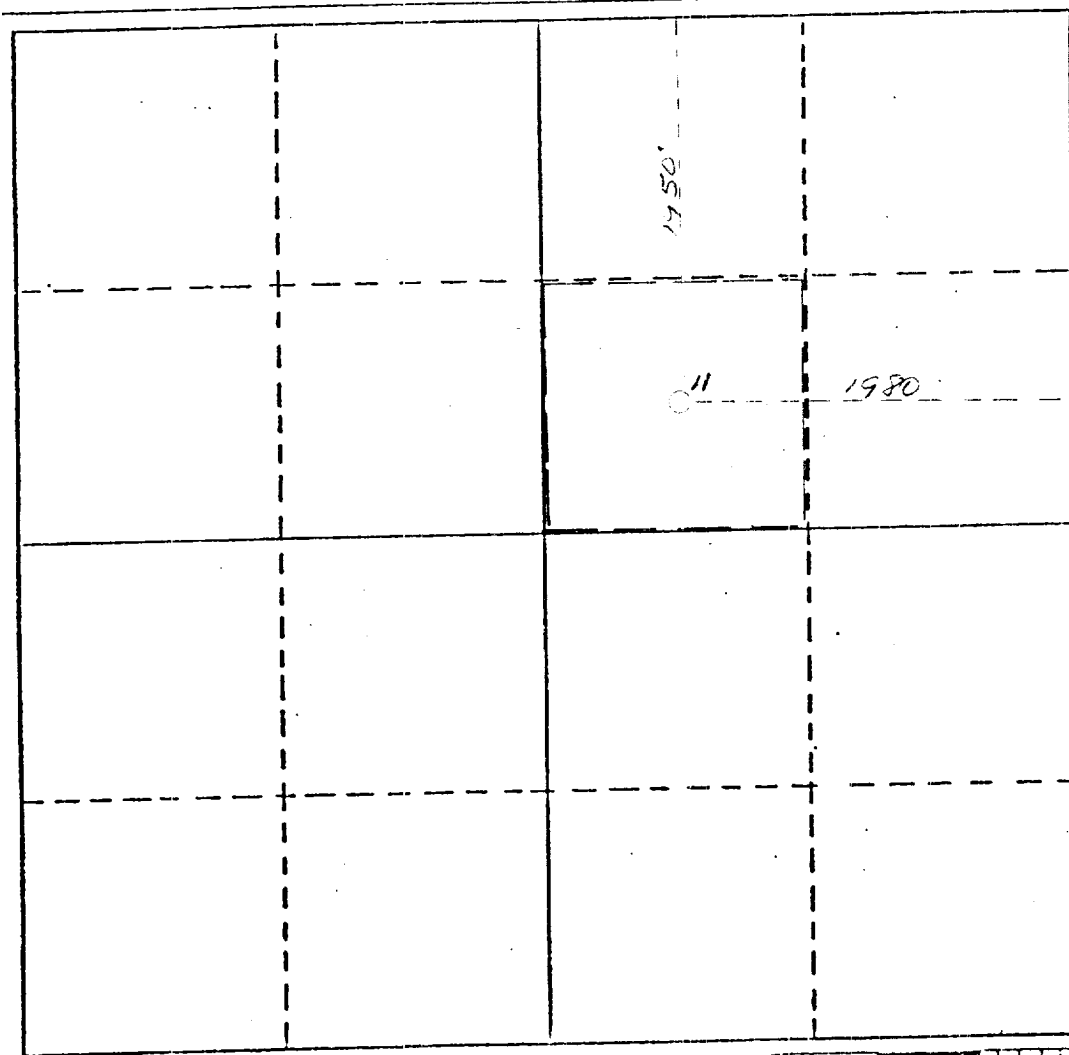
G. E. Tate G. E. Tate
Name
As Agent for Superior Oil Co.
Position
Env. & Reg. Mgr.
Company
Mobil Producing TX & NM, Inc.
Date
1-21-86

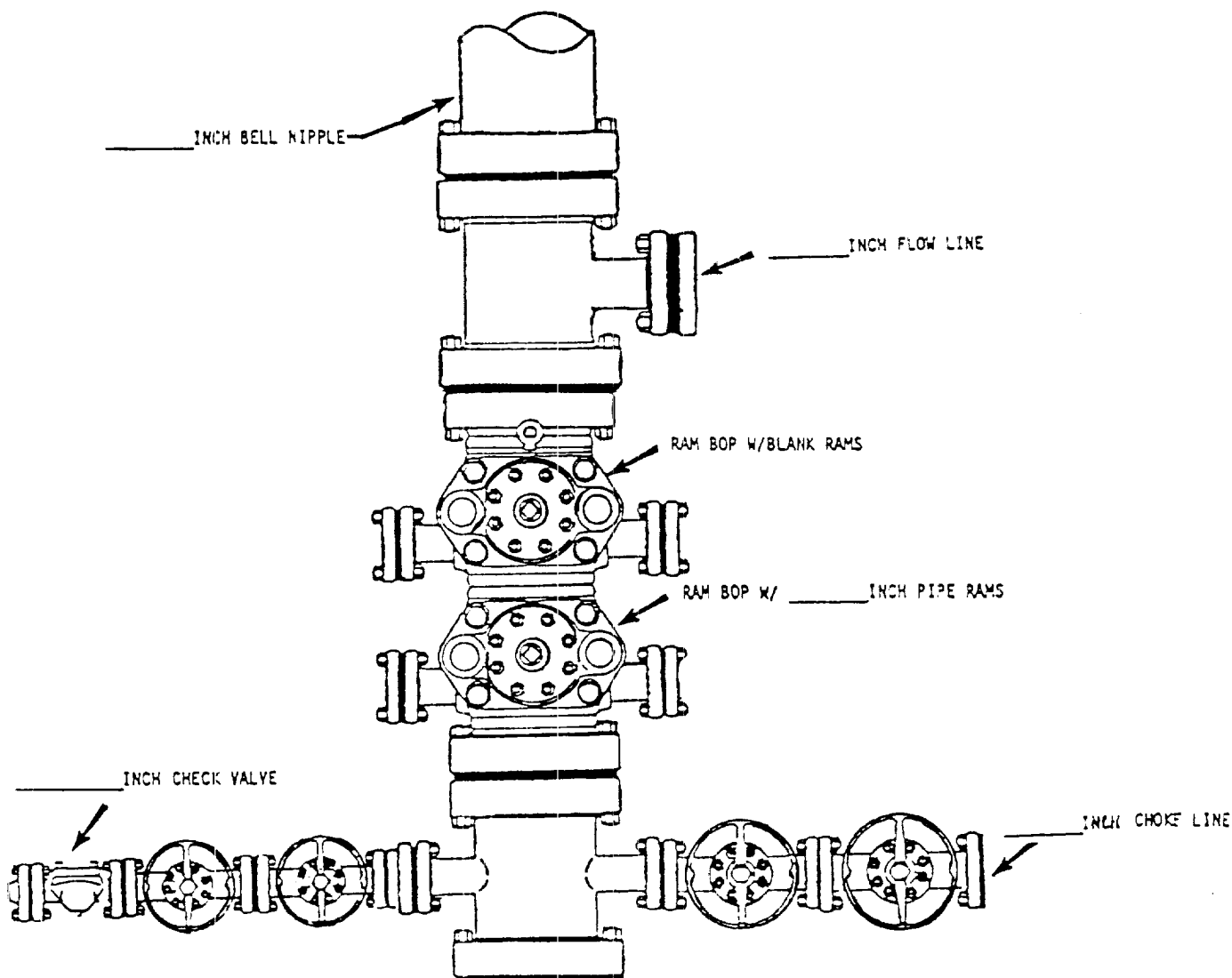
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

Certificate No.





*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>11</u> <u>Government D</u> (Lease)		
<u>3dd</u> County, <u>TX</u> State Blowout Preventer Assembly 854 x 5 1/2 IN. 3000 PSI WP*)		

MOBIL PRODUCING TX. & N.M. INC.

LEASE: Government D

WELL: 11

FIELD: Fenton, Northwest - Delaware

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></u>	<u></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>Capital Reef</u>	<u>700'</u>	<u>Water</u>
<u>Delaware</u>	<u>2900'</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 - 2400'</u>	<u>FW</u>	<u>8.4 - 9.2</u>	<u>28 - 36</u>	<u>NC</u>
<u>2400 - TD</u>	<u>FW - Gel</u>	<u>8.6 - 9.2</u>	<u>30 - 38</u>	<u>20+</u>

7. The auxiliary equipment to be used, such as (1) kelly cocks, (2) floats at the bit, (3) monitoring equipment on the mud system, (4) a sub on the floor with a full opening valve to be stabbed into drill pipe when the kelly is not in the string.

A kelly cock and all safety valves will be utilized and tested in
accordance with USGS regulations when necessary.

8. The testing, logging, mud, and coring programs to be followed with provision made for required flexibility. (See attached sheet)
9. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards.

No abnormal pressures are anticipated. *No H₂S anticipated*

10. The anticipated starting date and duration of the operations.

Starting Date: 3-1-86 Duration of Operations 10 Days.

Superior Oil Company, The
Government "D"
Well No. 11
Section 12, T-21-S. R-37-E

Eddy County, New Mexico

10 POINT WELL CONTROL AND RESOURCE PROTECTION DATA

Requirement No. 8

Drill Stem Tests

None

Coring Program:

None

Logging Program:

CNL/LDT/GR - 2450'± - TD
DLL/MSFL - 2450'± - TD
CNL/GR - 2450'± - TD.

Drilling Time and Sample Program:

Catch 10-foot samples and keep 10-foot drilling time from 2400' to TD.