

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' FSL, 1980' FEL of Section

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'

15. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

#6 @ 1320'

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

3196'

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	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 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

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, asTITLE Env. & Reg. ManagerDATE July 8, 1985

Agent for The Superior Oil Company

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE 7-23-85

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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.

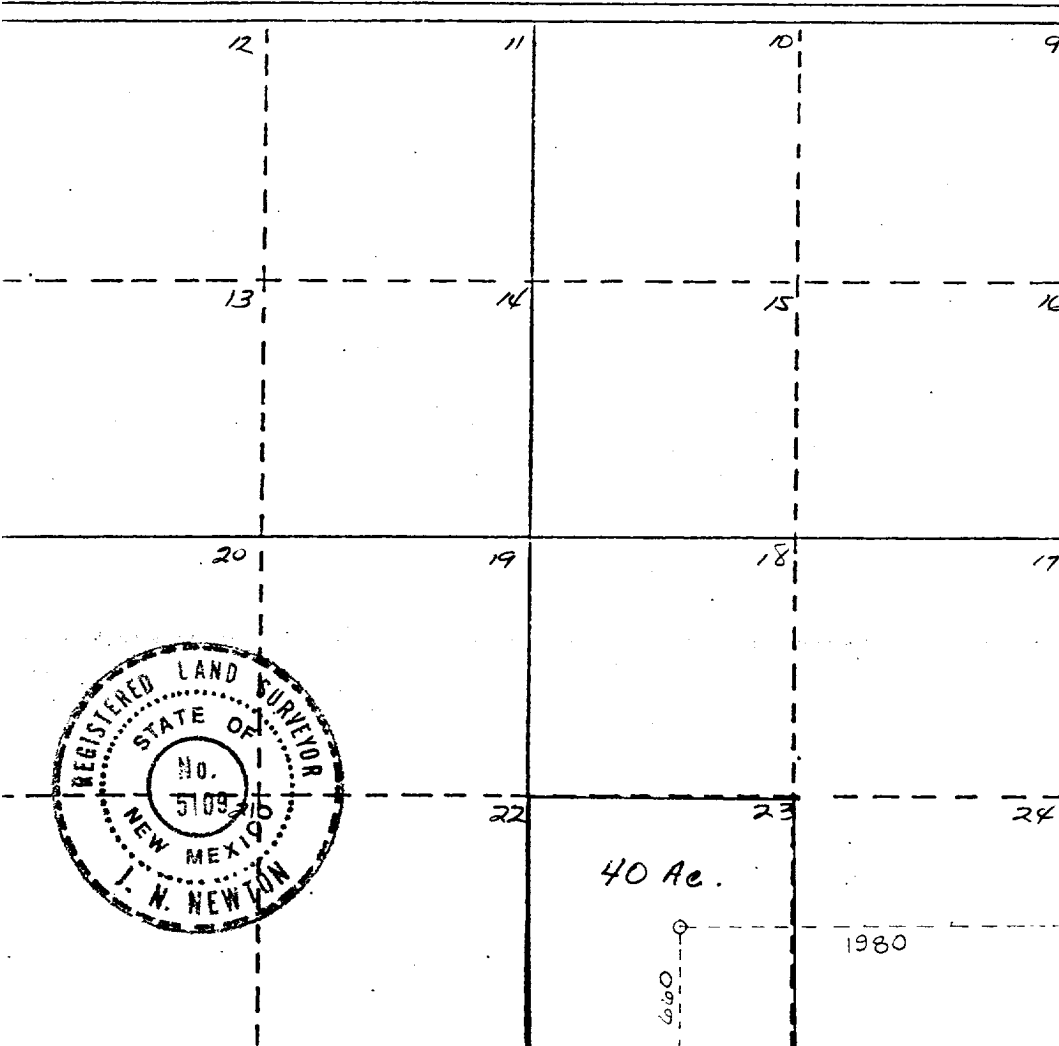
Operator Superior Oil Company, The		Lease Government "D"		Well No. 7	
Unit Letter W	Section 1	Township 21-S	Range 27-E	County Eddy	
Actual Footage Location of Well: 660 feet from the south line and 1980 feet from the east line					
Ground Level Elev. 3196'	Producing Formation Bone Spring, East		Foot 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.

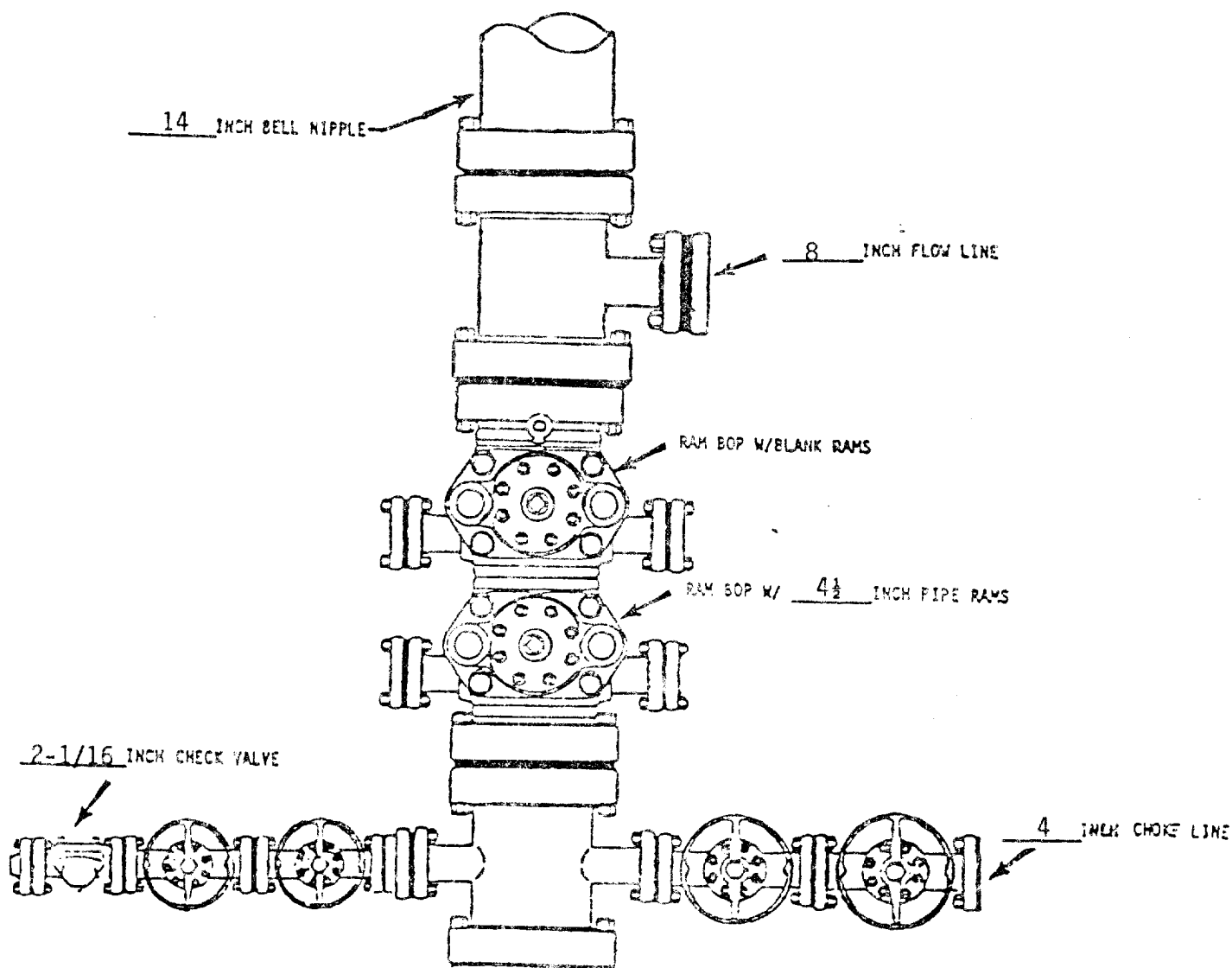
Date
July 8, 1985

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
5-29-85

Registered Professional Engineer
and/or Land Surveyor

J. N. Newton
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.

Mobil Producing Texas & New Mexico Inc. Houston, Texas		Scale
Well # <u>7</u>	Government "D" (Lease)	Date
Eddy County, NM	State	Drawn
Blowout Preventer Assembly (11-13-5/8IN. 3000 PSI WP*)		Checked
		Approved
		Revised

used, such as (1) _____ ly co. (2) floats
_____ mud system, (3) _____ a sub on the
_____ pipe when the

LEASE: Government "D" MOBIL PRODUCING TX. & N.M. INC.

FIELD: Avalon - Bone Spring, East

COUNTY: Eddy

WELL: 7

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.

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

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

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

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)

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)

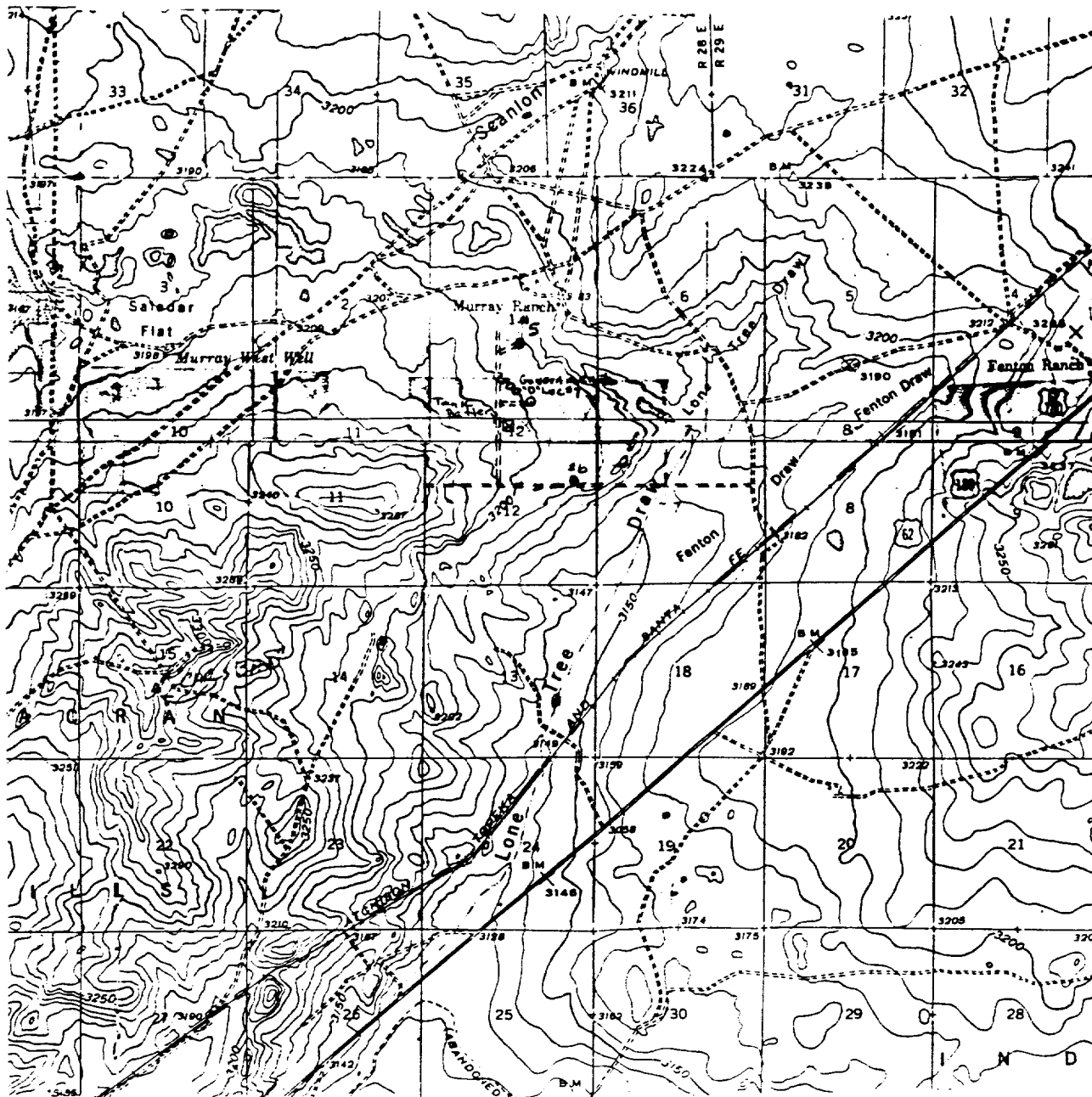
The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.

Depth (ft.)	Type	Weight	Viscosity	Water Loss
<u>0 - 650'</u>	<u>Spud</u>	<u>8.5 - 8.8</u>	<u>34 - 40</u>	<u>NC</u>
<u>1 - 2600'</u>	<u>FW</u>	<u>8.4 - 8.5</u>	<u>28</u>	<u>NC</u>
<u>5400'</u>	<u>Cut Brine</u>	<u>8.5 - 8.7</u>	<u>28</u>	<u>NC</u>
<u>5800'</u>	<u>Cut Brine</u>	<u>8.5 - 8.7</u>	<u>28</u>	<u>NC</u>

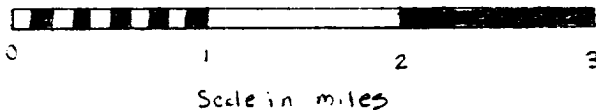
R 27 E

R 28 E

T 21 S.



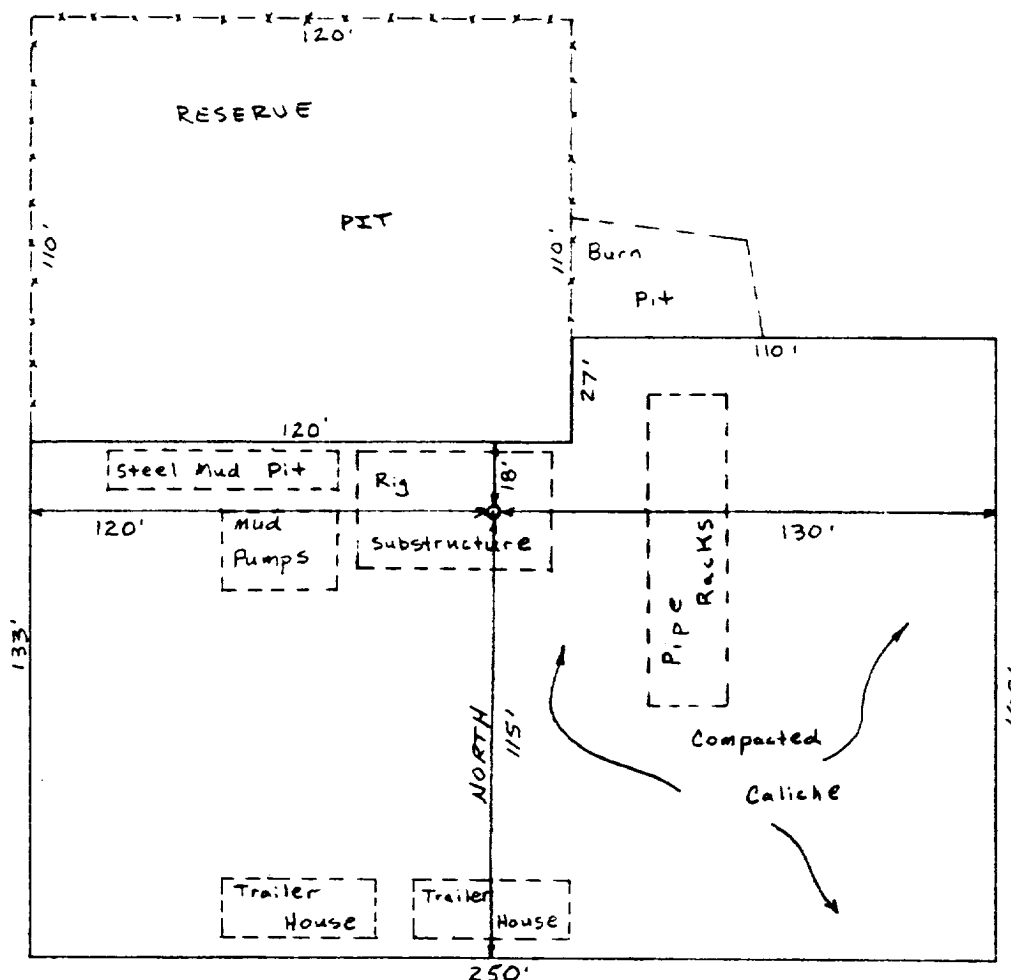
- Proposed well location
- ⊞ Proposed Tank Battery
- ===== Proposed Road



Mobil Producing Texas & New Mexico Inc.

Vicinity Map of Government
"D" Location #7 Section 1
T-21-S R-27-E Eddy Co. N.M.

DRAWN G.E.W.	SCALE 1"=1 mile
CHECKED	DATE 5-13-85
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