

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  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

CONTINENTAL OIL COMPANY

## 3. ADDRESS OF OPERATOR

Box 460 Hobbs, NM 88240

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

At surface

500' FSL &amp; 1650' FEL OF SEC. 35-

At proposed prod. zone

SAME

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

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

494.05

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

24.90

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

## 19. PROPOSED DEPTH

4600'

## 20. ROTARY OR CABLE TOOLS

ROTARY

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

3093' GR

## 22. APPROX. DATE WORK WILL START\*

12-12-76

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8" NEW	24 #	650'	400 SX Circ.
7 7/8"	5 1/2" NEW	14 #	4600'	400 SX

IT IS Proposed to Drill A Straight Hole to A  
T.D. OF 4600' and complete AS A OIL Well IN  
The El Mar Delaware.

See Attached For B.O.P. Program, Mud Program,  
Formation TOPS, Logging ETC.

Unless Drilling Operations have  
Commenced, this drilling approval  
Expires 2-5-77

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

Bill Pennington

TITLE

Adm. Supervisor

DATE

10-19-76

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

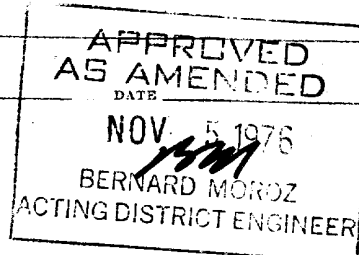
APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

\*See Instructions On Reverse Side



4565-6, File

Attachment to Form 9-331 C  
Application for Permit to Drill

Contiental Oil Company, North El Mar Unit No. 60  
500' FSL and 1650' FEL of Section 35, T-26S, R-32E  
Lea County, New Mexico

1. The geologic name of the surface formation is Triassic SS, Sh.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are as follows:  
  
Santa Rosa 330' water  
Salado 720' salt  
Base salt 4280'  
Lamar 4480' Lime  
Ramsey 4520' oil, gas and water
4. The proposed casing program is as follows:  
  
Surface New 8 5/8" 24# K55 STC set at 650'  
Production New 5 1/2" 14# K55 STC set at 4600'
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1,000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:  
  
0-650' spud mud                      8.5-9.0 pounds per gallon  
650' - 4600' salt gel              9.0-10.0 pounds per gallon
7. The auxiliary equipment to be used is:  
  
(1) kelly cocks  
(2) floats at the bit
8. It is proposed to run 2" and 5" GR-BHC Sonic Logs from TD to 3800' and DIL from TD to 4000'.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for this well is December 12, 1976 with a duration date of approximately ten days.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102  
Supersedes O-120  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

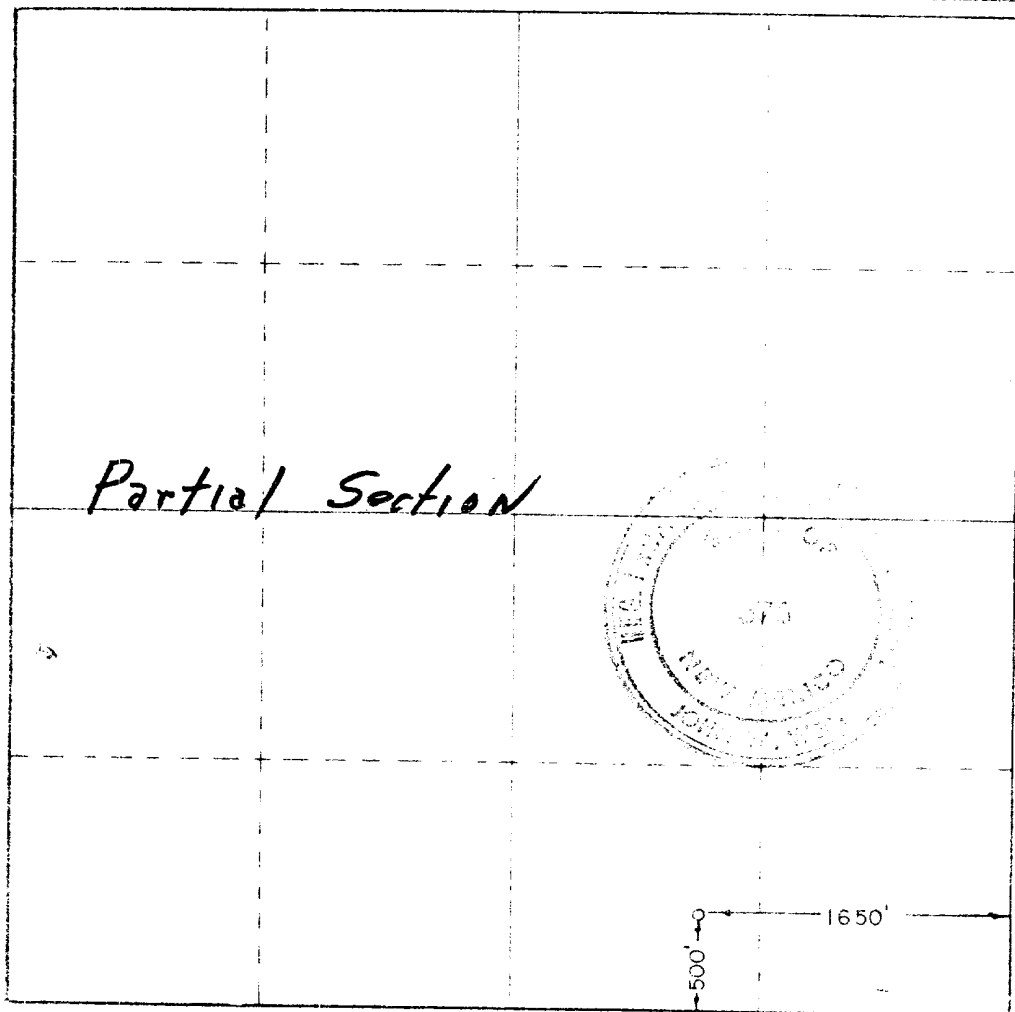
Operator <b>CONTINENTAL OIL COMPANY</b>		Lease <b>North Elmar</b>		Acres <b>60</b>	
Section <b>= 6</b>	Section <b>35</b>	Township <b>26 South</b>	Range <b>32 East</b>	County <b>Lea</b>	
Actual Well Location of Well:					
500		feet from top		south	
1650		feet from top		east	
Ground Level Elev. <b>3093.5</b>	Elevating Platform <b>Delaware</b>		Elevating Platform <b>El Mar Delaware</b>		Lease Area Acres <b>24.90</b>

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 Commission.



CERTIFICATION

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

*Bill Penford*  
Admin. Supervisor  
Continental Oil Co.  
10-19-76

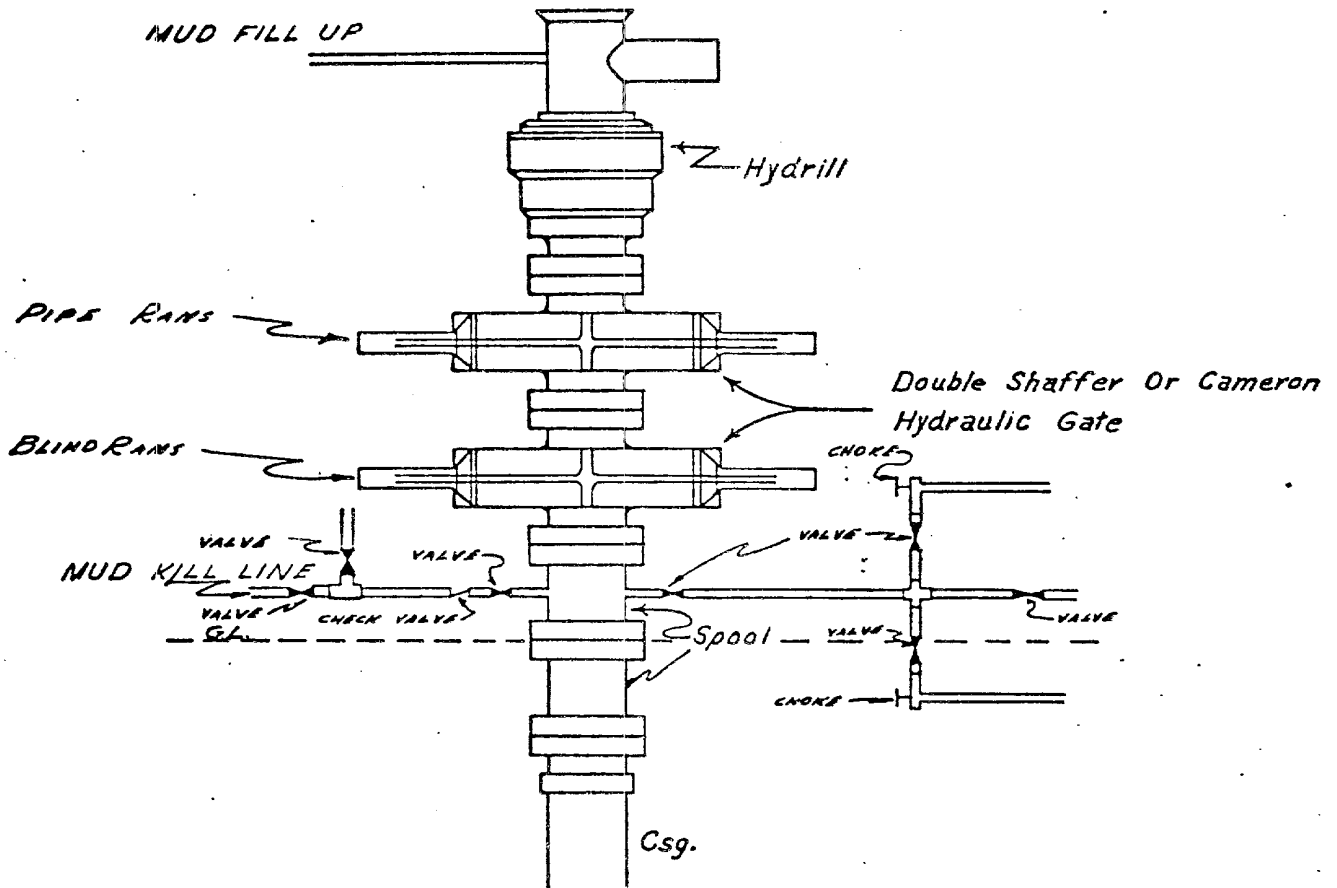
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Sept. 19, 1976

Registered Professional Engineer  
No. 10,000, State of New Mexico

*John A. Wat*

CONTINENTAL OIL COMPANY  
Blow-out Preventer Specifications



API Series 900

NOTE:

Manual and Hydraulic controls with closing unit no less than 75' from well head.  
Remote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE,  
HYDRILL MAY OR MAY NOT BE USED.

N. E1 Mar UNIT NO. 60

COUNTY: Lea County, New Mexico

STATE: 3085' est. grd. 3095' est DF

Prepared by \_\_\_\_\_

SURFACE USE PLAN  
Continental Oil Company, North El Mar Unit No. 60  
500' FSL and 1650' FEL of Section 35, T-26S, R-32E  
Lease NM02791A, Lea County, NM

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 42 miles on a direct line southwest of Eunice, New Mexico. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well site is 500' FSL and 1650' FEL of Section 35, T-26S, R-32E, Lea County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map showing existing black top roads. Directions to the location (outlined in red on maps from Eunice, New Mexico are as follows: from the blinking light at Conoco station in Eunice, travel 2.5 miles south; turn west on Delaware Basin Road and go 32.2 miles to Highway No. 128; turn west and travel 9.3 miles; turn south on the Orla Highway and go 13.4 miles and turn east 3.3 miles, turn south .2 mile, turn east .1 mile, turn south .2 mile, turn east .4 mile and the location road stakes are on the north side of the road.
- C,D,E. The access roads are shown on Exhibits "B" and "C".
- F. No improvement or maintenance are anticipated for the existing roads.

2. Planned Access Roads

- A. Width and Length: New road required will be 12 feet wide and 360' long. This new road is labeled and color coded on Exhibits "B" and "C". (staked)
- B. Turnouts: None
- C. Drainage Design: New road will have a drop of 6 inches from center line on each side.
- D. Culverts, Cuts and Fills: Culverts - None. The location cut will be 1' x 175' x 200' north to south. The cut from stake south will be 1' x 125'.
- E. Surfacing Material: Six inches of caliche, bladed, watered and compacted.

F. Gates, Cattleguards, Fences: One cattleguard will be installed in fence approximately .5 mile southwest of the well site on existing road. The fence runs east and west along the New Mexico Texas line.

G. The proposed road is staked.

3. Location of Existing Wells:

See Exhibit "D"

4. Location of Existing and/or Proposed Facilities:

A. Tank Batteries:

The existing tank battery is located in the SW/4 of Section 25 and located on Exhibit "D". The production header is located in the SE/4 of Section 26.

B. Producing Facilities: No additional producing facilities are required.

C. Oil Gathering Lines:

The flowline will lay (not buried) approximately 3000' north to the production header in SE/4 of Section 26 as shown on Exhibit "D".

D. Other Lines

No additional gas gathering, injection or disposal lines will be required.

E. Rehabilitation: Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

5. Water Supply - The water supply line will be installed from the tank battery in Section 25, 1000' southwest to Well No. 33; 2800' south along the road to Well No. 52; 1320' west, 360' north, to the location.

6. Source of Construction Materials:

A. Caliche for surfacing the new road and the well pad will be obtained from an existing pit in the SE/4 SE/4 of Section 27, T-26S, R-32E as shown on Exhibits "B" and "C".

B. Caliche to be purchased from BLM by the dirt contractor.

C. The caliche to be hauled, from the location, go 360' south; west .4 mile; north .2 mile; west .1 mile; north .2 mile; west .2 mile and the pit is on the north side of road.

7. Methods for Handling Waste Disposal:

Waste Disposal - Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. See Exhibit "E" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted to the survey for appropriate approval.

8. Ancillary Facilities: None

9. Well site Layout:

Exhibit "E" shows the relative location and dimensions of the well pad, mud pit, reserve pit, trash barrel, etc. The reserve pit will be lined with plastic. The pad and pits are staked.

10. Plans for Restoration of Surface:

Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

11. Other Information:

- a. Terrain - Low rolling sand hills. See Exhibit "B", topographic map of area.
- b. Soil - Sandy.
- c. Vegetation - Mesquite
- d. Surface Use - Grazing
- e. Ponds and Steams - None within one mile
- f. Water Wells - 8,000' northeast of location
- g. Residences and Buildings - Three miles northwest to Madera ranch house
- h. Arroyos, Canyons, Etc. - There are no significant surface features, see attached Exhibit "B".
- i. Well Sign - Sign identifying and locating well will be maintained at drill site with the spudding of the well.
- j. Open Pits - All pits containing mud or other liquids will be fenced.




- k. Archaeological Resources - None observed
12. Operator's Representative - Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Production and Drilling  
C. R. Paschal, D. A. Sowers or D. S. Anderson  
1001 North Turner  
Hobbs, New Mexico 88240  
Phone: 393-4141

13. Certification - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Continental Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

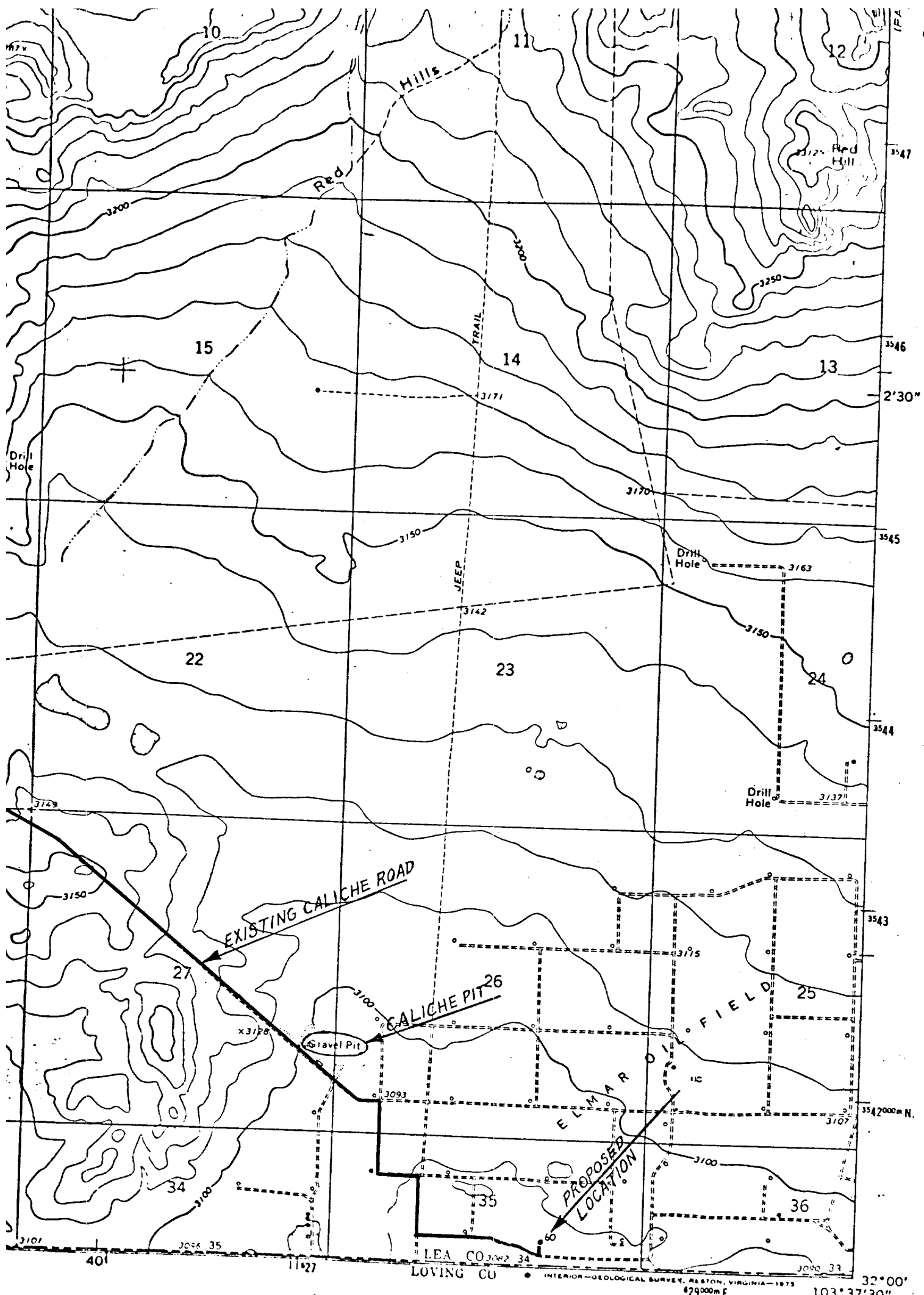
Date

10/19/76

  
D. S. Anderson  
Senior Foreman

rej





1 MILE

CONTINENTAL OIL CO.  
NORTH EL MAR UNIT NO. 60

EXHIBIT B

ROAD CLASSIFICATION

Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road

○ Interstate Route    ⬡ U. S. Route    ○ State Route

PADUCA BREAKS WEST, N. MEX.—TEX.  
N3200—W10337.5/7.5

1973

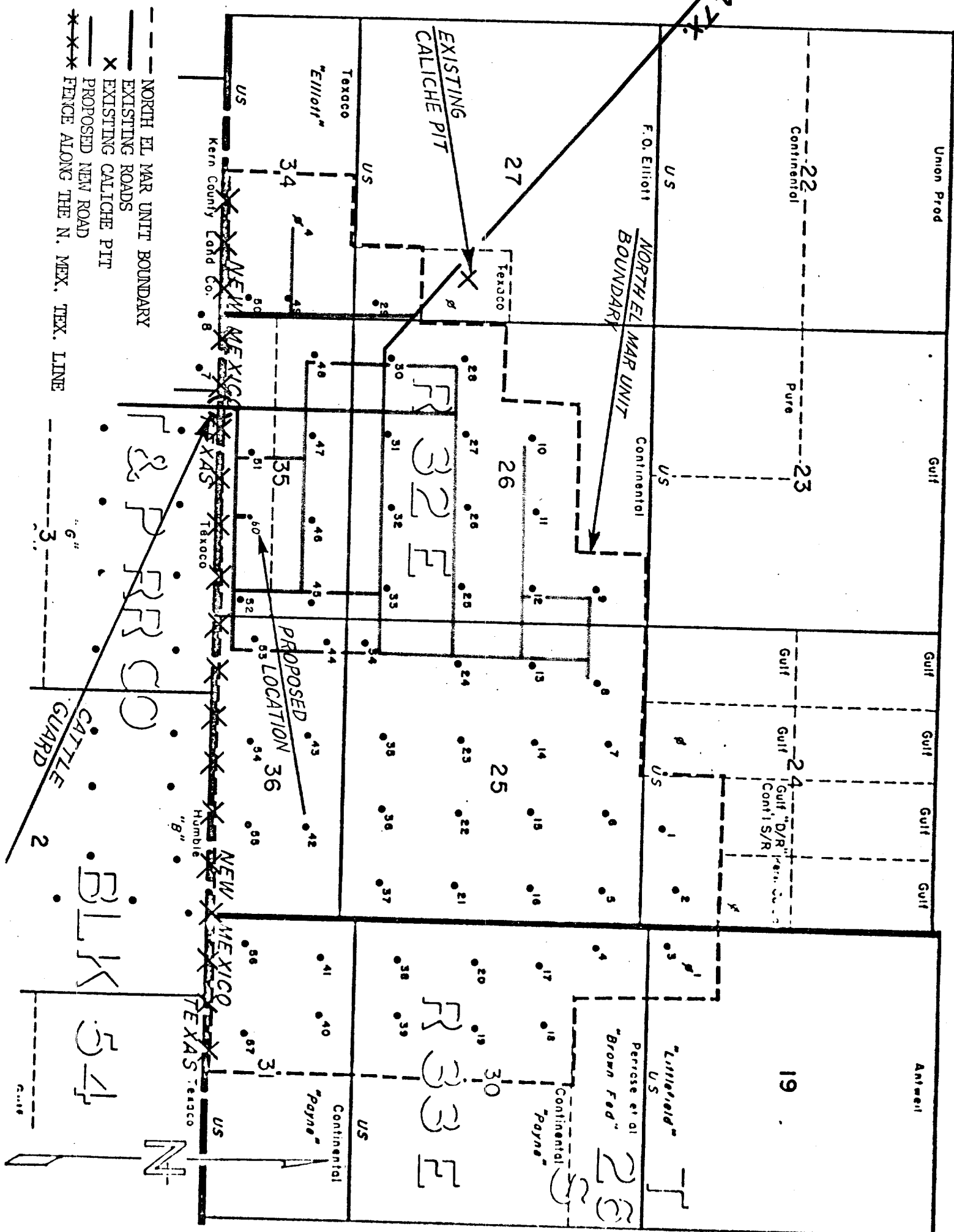
AMS 5248 II SW—SERIES V801

Former  
Paduca Break  
Ordnance  
RG R-2  
(D)

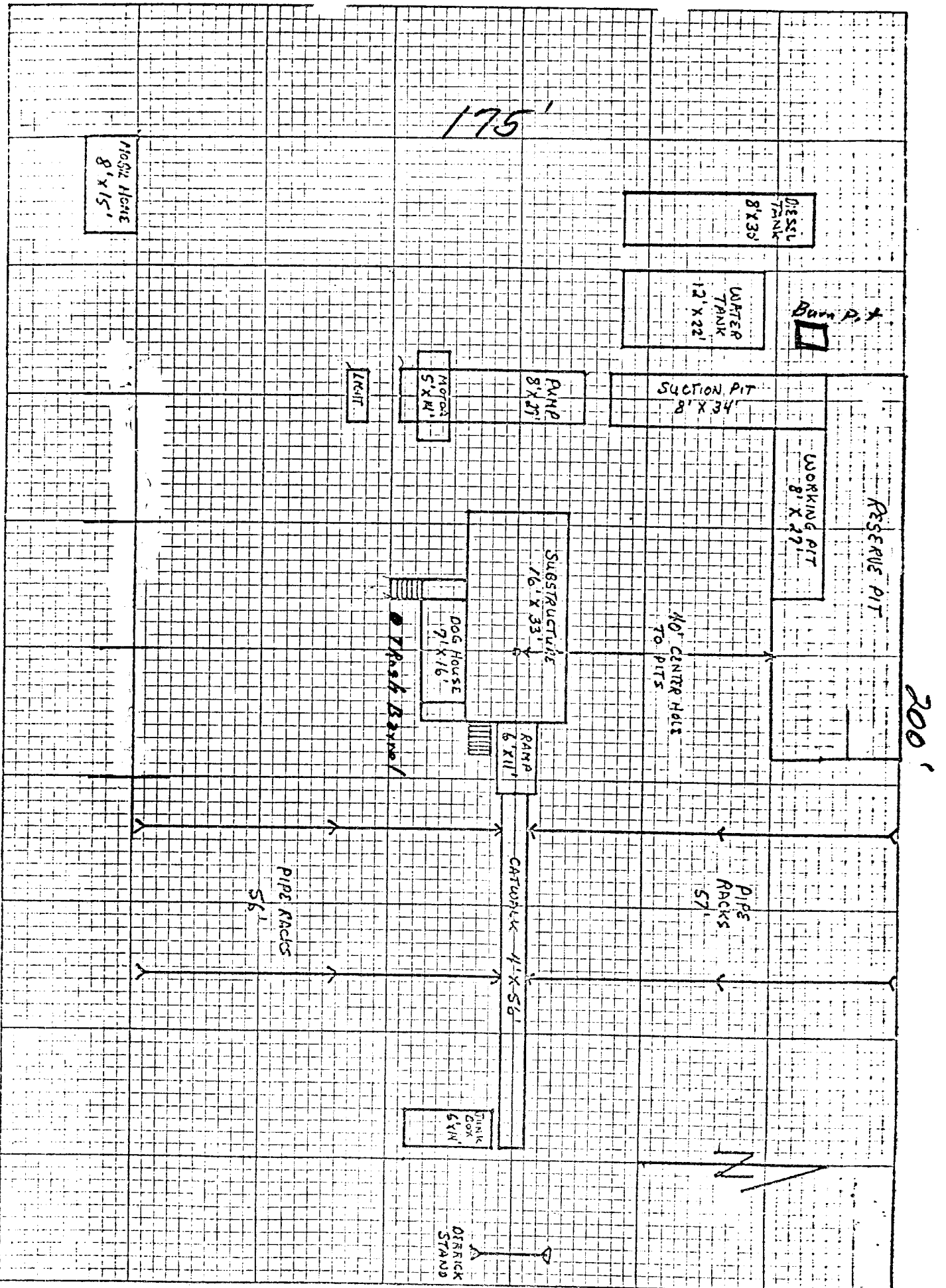
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SCALE

NORTH EL MAR UNIT  
LEA COUNTY, NEW MEXICO  
NORTH EL MAR UNIT NO. 60  
EXHIBIT C







CONTINENTAL OIL CO. N. E. 1st Mar Unit No. 60 EXHIBIT "E"

U. S. GEOLOGICAL SURVEY  
P. O. Box 1157  
Hobbs, New Mexico 38240

HOBBES DISTRICT

Continental Oil Co. No. 60 North El Mar Unit Lot 2, sec. 35-26S-32E Lea County, N. M.
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Above Data Required on Well Sign
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CONDITIONS OF APPROVAL

1. Drilling operations authorized are subject to the attached sheet for general requirements for drilling and producing operations.
2. Notify this office (telephone (505) 393-3612) when the well is spudded and in sufficient time for a representative to witness cementing operations. After office hours and weekends, call C. L. Coshow 393-8244
3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
4. Secure prior approval before changing the approved drilling program or commencing plugging operations, plug-back work, casing repair work, or corrective cementing operations.
5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
6. A kill-line is to be properly installed and is not to be used as a fill-up line.
7. Blowout preventers are to have proper casing rams when running casing.
8. Drill string safety valve(s) to fit all pipe in the drill string to be maintained on the rig floor while drilling operations are in progress.
9. Blowout prevention drills are to be conducted as necessary to assure that equipment is operational and that each crew is properly trained to carry out emergency duties. All BOP tests and drills are to be recorded on the driller's log.