

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, N.M., 88240

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

At surface

660' FNL + 660' FEL

At proposed prod. zone

Same

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

## 10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

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

3544.6 GR

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	New 9 5/8"	32.3 #	1400'	600 SX Circ.
8 7/8"	New 7"	23 + 26 #	6940'	1150 SX

IT IS Proposed TO Drill A Straight Hole TO A TD OF  
6940' and Complete AS A Dual Oil Well IN The Blinobry  
and Tubbs Zones.

Unless Drilling Operations have  
Commenced, this drilling approval  
Expires 7-27-78

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

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

TITLE

ADMIN. Supv.

DATE

11-7-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

APPROVED  
AS AMENDED

FEB 24 1978

A. G. L.

ACTING DISTRICT ENGINEER

\*See Instructions On Reverse Side

USGS-6, File 2, NMFU Partners-4

5. LEASE DESIGNATION AND SERIAL NO. <b>LC-031670(B)</b>
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME <b>WARREN</b>
8. FARM OR LEASE NAME <b>WARREN UNIT</b>
9. WELL NO. <b>54</b>
10. FIELD AND POOL, OR WILDCAT <b>Warren Blinobry-Tubbs</b>
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 29, T-20S, R-38E</b>
12. COUNTY OR PARISH <b>Lee</b>
13. STATE <b>N.M.</b>

16. NO. OF ACRES IN LEASE  
**1920**

17. NO. OF ACRES ASSIGNED  
TO THIS WELL  
**40**

20. ROTARY OR CABLE TOOLS  
**Rotary**

22. APPROX. DATE WORK WILL START  
**6-27-78**

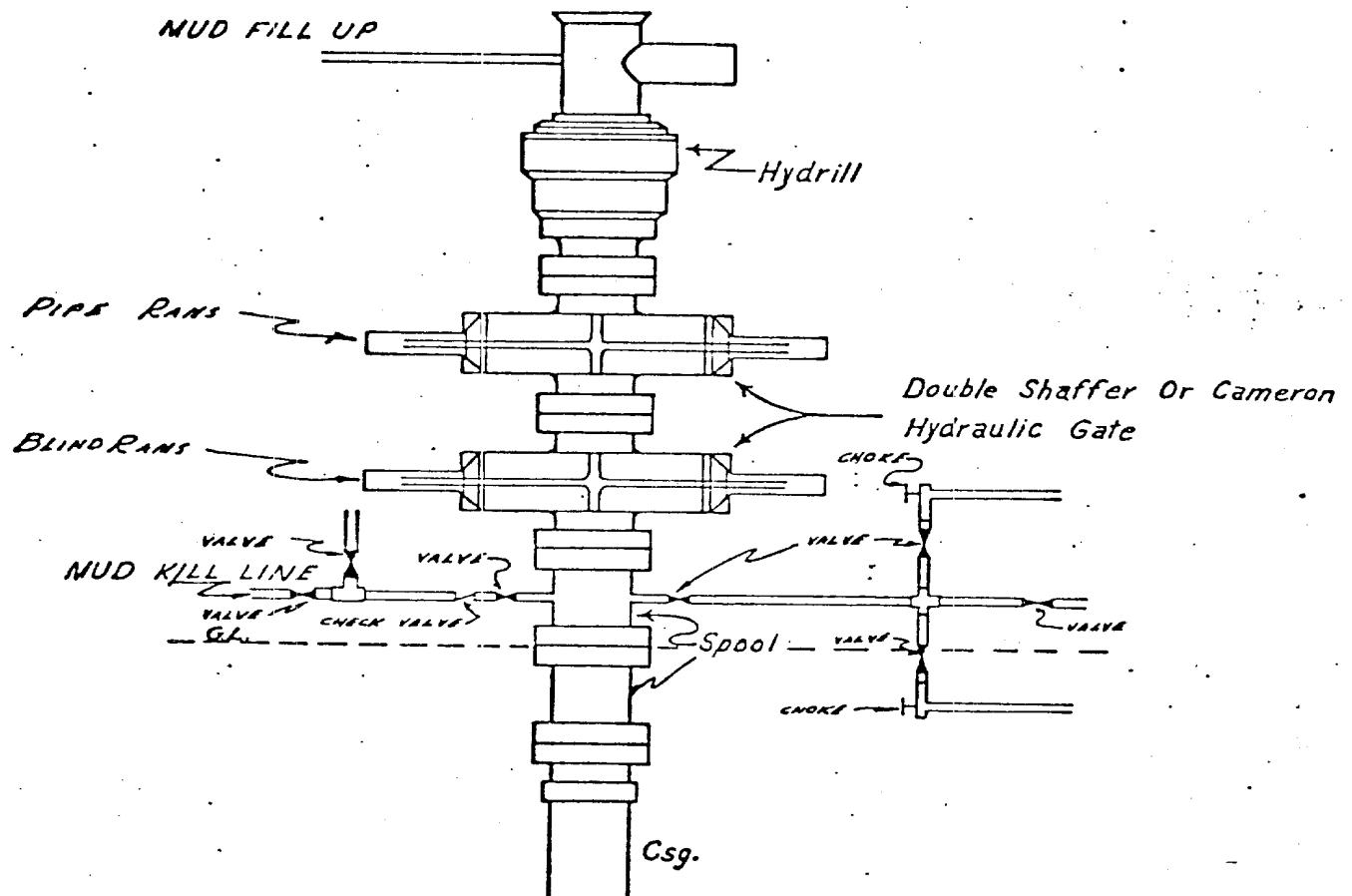
APPROVAL TO BE GRANTED  
WHILE DRILLING AND TESTING.

RECEIVED

FEB 28 1976

OIL CONSERVATION COMM  
HOBBS, N. M.

CONTINENTAL OIL COMPANY  
Blow-off 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.

Warren Unit No. 54

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

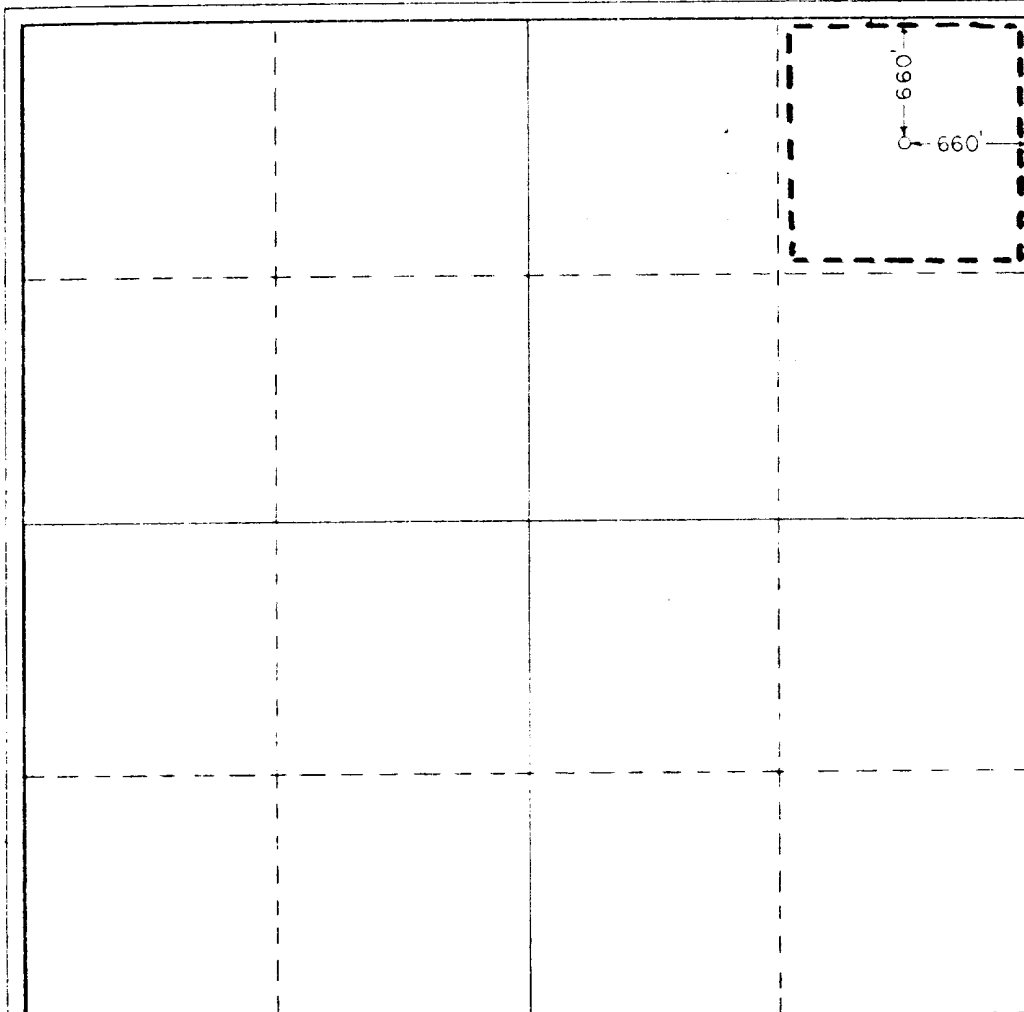
Operator <b>Continental Oil Company</b>			Lease <b>Warren Unit</b>			Well No. <b>54</b>
Unit Letter <b>A</b>	Section <b>29</b>	Township <b>20 South</b>	Range <b>38 East</b>	County <b>Lea</b>		
Actual Footage Location of Well: <b>660</b> feet from the <b>North</b> line and <b>660</b> feet from the <b>East</b> line						
Ground Level Elev. <b>3544.6</b>	Producing Formation <b>Blinberry &amp; Tubb</b>		Pool <b>WARREN</b>	Dedicated Acreage: <b>40</b> 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 Commission.



CERTIFICATION

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

*Wm. A. Butterfield*  
Surveyor  
*Adrian. S. S. S.*  
Continental O. I. Co.  
Date  
**11-7-77**

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

**September 20, 1977**

Registered Professional Engineer  
and/or Land Surveyor

*[Signature]*  
Certificate No. **676**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

RECEIVED

FEB 28 1978

OIL CONSERVATION COMM.  
HOBBS, N. M.

WELL NAME: Warren Uni., No. 54

660' FNL + 660' FEL

LOCATION: Sec. 29, T20S, R38E

COUNTY: La

STATE: New Mexico

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRACTURE GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE	DEPTH			WEIGHT	TYPE
Surface	Pleistocene									
	Santa Rosa Wtr.									
1000									8.5-9.0	Fresh water
	RUSTLER 1350' SALADO 1470'			12 1/4	9 5/8"	1400'				
2000										
	TANSELL 2520' YATES 2670'									
3000										
4000										
	SAN ANDRES 4070'									
5000										
	GLORIETA 5370'									
6000							14.9	less than 8.5		
	BLINEBAY 5880' - 0.1		GR-CNL-FDC DLL TD-2600'					less than 8.5		
	TUBB 6500' - 0.1 BRINKARD 6840'									
7000	TD 6940'			8 3/4	7"	6940'	15.1		9.0-10.0	salt gel

Date \_\_\_\_\_

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

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

Continental Oil Company, Warren Unit Nos. 50, 51, 52, 53, 54, 55  
T-20S, R-38E  
Lea County, New Mexico

1. The geologic name of the surface formation is Pleistocene Sand.
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 SS	Approximately 300' Water
Salado	Approximately 1600' Salt
Blinebry	Approximately 5900' Oil
Tubb	Approximately 6500' Oil

4. The proposed casing program is as follows:

Surface-new 9 5/8" 32.30# K-55 STC set at approximately 1600'  
Production-new 7" 23# and 26# K-55 STC set at approximately  
7000'

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:

0-1600' fresh water	8.5-9.0 pounds per gallon
1600' - TD 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 GR-CNL-FDC-DLL logs from TD to 2600'.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for the first well is April 1, 1978, with a duration date of approximately 21 days for each well.

SURFACE USE PLAN  
Continental Oil Company, Warren Unit Nos. 50, 51, 52, 53, 54, 55  
T-20S, R-38E  
Lea County, New Mexico

The plan is to accompany "Application for Permit to Drill" the subject well which is located approximately ten miles south of Hobbs, 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 sites are as follows:

Well No. 50, 660' FNL and 1650' FEL of Section 29.  
Well No. 51, 2030' FNL and 1980' FWL of Section 26.  
Well No. 52, 1980' FSL and 1980' FEL of Section 26.  
Well No. 53, 1980' FNL and 1980' FEL of Section 26.  
Well No. 54, 660' FNL and 660' FEL of Section 29.  
Well No. 55, 1650' FNL and 710' FEL of Section 29.

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 map) from Hobbs, New Mexico are as follows: From the Stanolind Road on the south edge of Hobbs, travel south 9.6 miles on Highway 18 and refer to Exhibit "C" Warren Unit road map for the well locations.

C,D,E. The access roads are shown on Exhibits "B", "C" and "D".

F. No improvement or maintenance are anticipated for the existing roads.

2. Planned Access Roads

- A. Width and Length: New roads required will be 12' wide and various lengths. These new roads are labeled on Exhibits "B" and "C". (staked)
- B. Turnouts: None
- C. Drainage Design: New road will have a drop of 6" from center line on each side.
- D. Culverts, Cuts and Fills: None
- E. Surfacing Material: Six inches of caliche, bladed, watered and compacted.



F. Gates, Cattleguards, Fences: None required.

G. The proposed roads are staked.

3. Locations of Existing Wells

See Exhibit "D"

4. Location of Existing and/or Proposed Facilities

A. Tank Batteries: The existing production header is located in the SW/4 of Section 27 and located on Exhibit "D".

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

C. Oil Gathering Lines: The flowline will lay (not buried) along the roads 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.

F. Power Lines: See attached map for the power distribution.

5. Water Supply

The supply of water will be hauled from Eunice, New Mexico.

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/SE Section 15, T-20S, R-38E as shown on Exhibit "D".

B. Caliche to be purchased from Mr. Earl Kornegay.

C. The caliche to be hauled, from the location of caliche pit, on existing roads to the new roads locations as shown on Exhibits "C" and "D".

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: Shinnery, Sparse
- D. Surface Use: Grazing
- E. Ponds and Streams: None within one mile
- F. Water Wells: None within one mile
- G. Residences and Building: None within one mile
- H. Arroyos, Canyons, Etc.: Monument Draw approximately 2 miles, 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  
W. D. Cates, D. A. Sowers, or L. P. Thompson  
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.

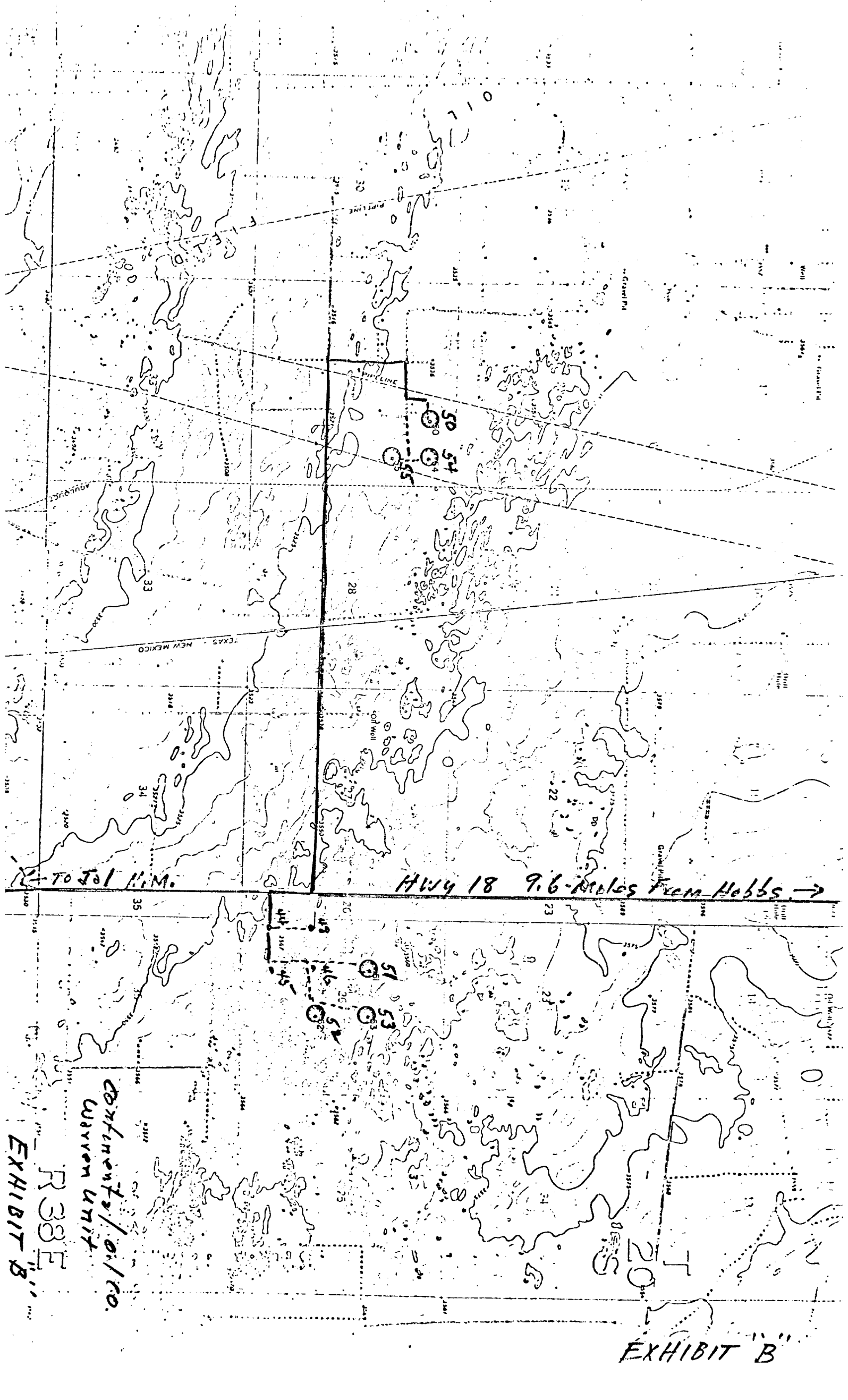
11- 7-77

DATE

W. D. Cates  
Prod. Supt.

ses



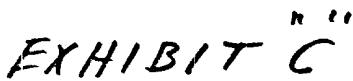


CONTOUR 10100

EXHIBIT B

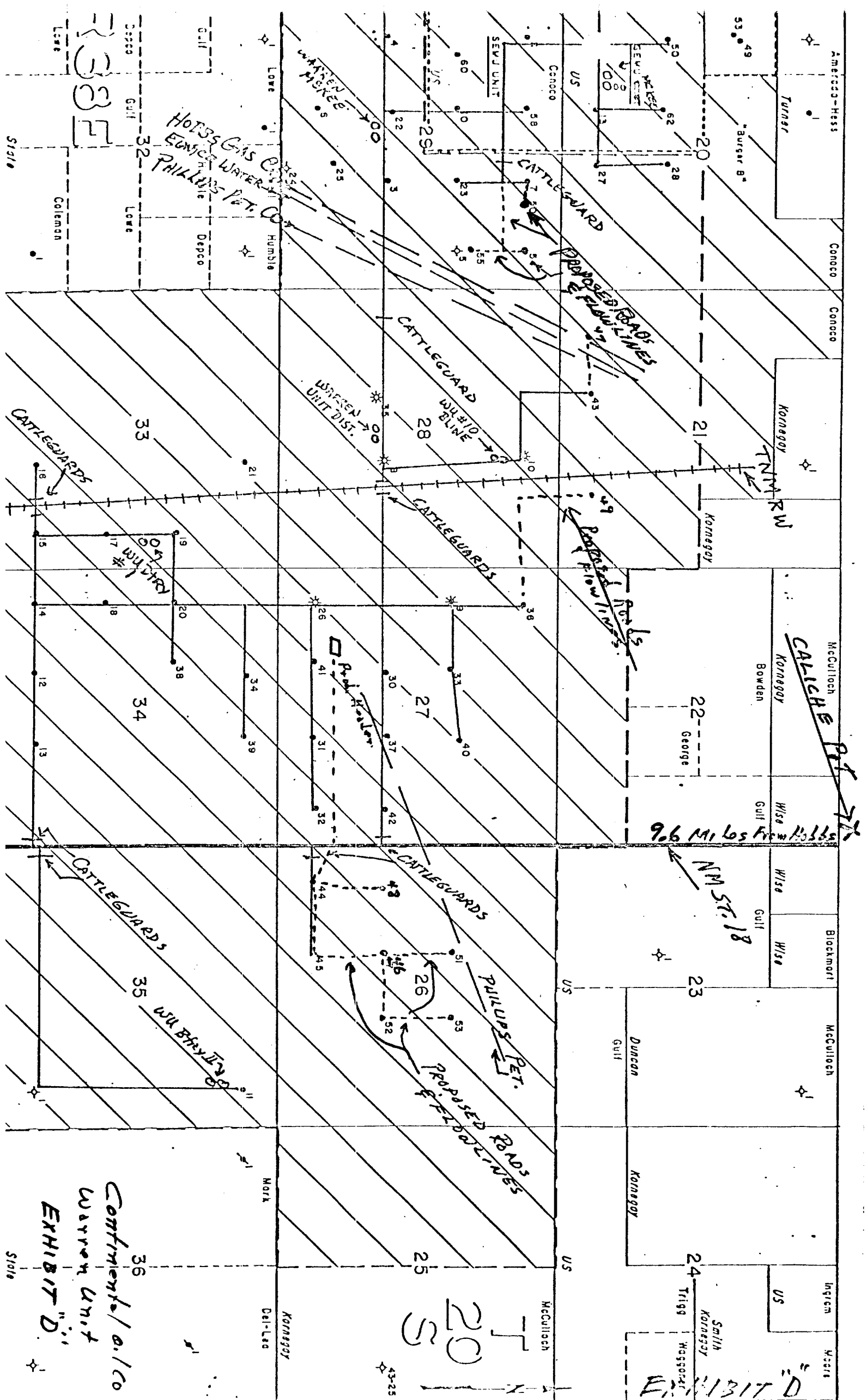
EXHIBIT "B"

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Continued o/v.

Wayon unit EXHIBIT C

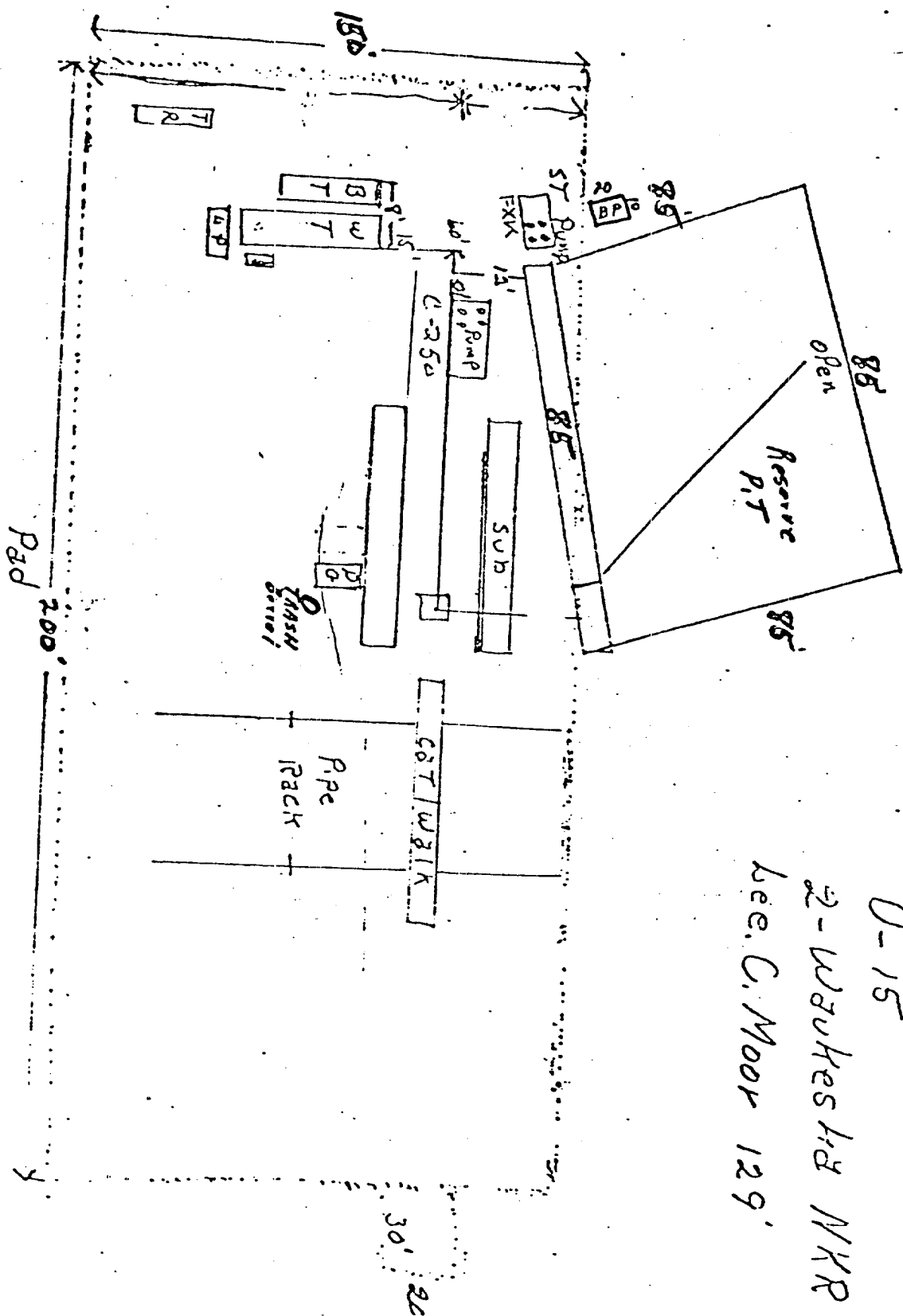


Hondo Rig #1

U-15

2-Watkes Ltd NKR

Lee. C. Moor 129'



Continents/Oil Co.

WARREN UNIT

EXHIBIT E

EXHIBIT "E"



Continental Oil Company  
Warren Unit Nos. 50, 51, 52, 53, 54, 55  
Power Distribution

A Plot is attached showing the proposed well locations, existing roads, new proposed roads, existing power lines, proposed power lines, also drawings of the pole design.

Well Nos. 50, 54 and 55

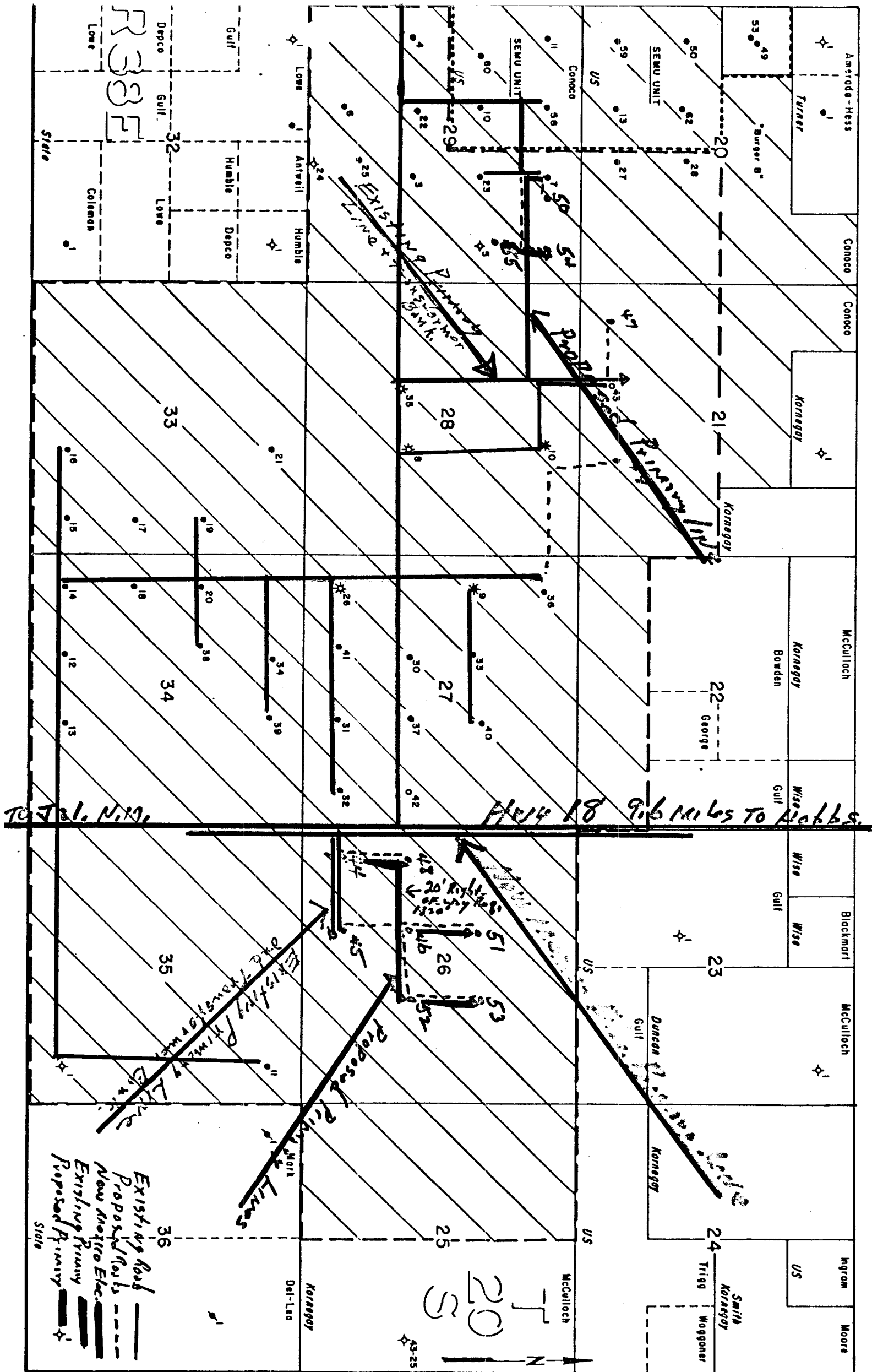
It is proposed to tie-in to an existing primary line and construct a primary line at 330' per span with a transformer bank for each well. A 20' right-of-way will be required to install these lines. The proposed lines are staked.

Well No. 50 - The distance from the existing primary line is 3960'.  
Well No. 54 - The distance from the existing primary line is 2970'.  
Well No. 55 - The distance from the existing primary line is 2970'.

Well Nos. 51, 52 and 53

It is proposed to tie-in to an existing primary line and construct a primary line at 330' per span with a transformer bank for each well. The lines will be constructed on the right side of the road for these wells. The proposed lines are staked.

Well No. 51 - The distance from the existing primary line is 3960'.  
Well No. 52 - The distance from the existing primary line is 3960'.  
Well No. 53 - The distance from the existing primary line is 5280'.



U. S. Geological Survey

HOBBS DISTRICT

Continental Oil Co.  
No. 54 Warren Unit  
NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 29-20S-38E  
Lea County, N. M.

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plug-back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
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. Operator will provide the dirt contractor with a copy of the enclosed Bureau of Land Management "Standard Requirements for all Drilling in Relation to Oil and Gas Activities in the Roswell District" prior to commencing construction of road, pad, or other associated developments.
7. Minimum required fill of cement behind the 7" casing is to the base of the salt section.
8. In the event the oil or gas test results in a dry hole, the drill pad and access road will be ripped in accordance with "BLM Roswell District's Ripping Recommendations for Caliche or Compacted Drill Pads and Access Roads". (Reseeding of the affected areas may be required at the discretion of the BLM authorized officer).
9. All ripped surfaces are to be protected from vehicular travel by constructing a dead-end ditch and earthen barricade at the entrance to these ripped areas. The barricade is to be constructed using spoil material from the ditch and should be of sufficient magnitude to discourage vehicle entry.
10. All above ground structures, not subject to applicable conservation and safety requirements, shall be painted to blend with the natural surroundings. The paint used should be a nonglare, nonreflective, nonchalking color that simulates Fed. Stand. No. 595, color 30318.

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