

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
1650' FNL + 710' 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 drilg. unit line, if any)

16. NO. OF ACRES IN LEASE

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.)

3535.5 GR

22. APPROX. DATE WORK WILL START*

7-18-78

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 #	1500'	625 SX CIRC
8 3/4"	New 7"	23 + 26 #	6990'	1175 SX CIRC.

IT IS Proposed TO Drill A Straight Hole TO A TD OF
6990' and Complete AS A Dual Oil Well IN The Blinobry
and Tubb Zones.

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

Unless Drilling Operations have
Commenced, this drilling approval
Expires ~~8-18-78~~ 4-25-78

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 Wm. A. Butterfield TITLE ADMIN. SURV. DATE 11-7-77

(This space for Federal or State office use)

PERMIT NO. SEE ATTACHED FOR CONDITIONS OF APPROVAL APPROVAL DATE

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
JAN 25 1978
ARTHUR R. BROWN
DISTRICT ENGINEER

*See Instructions On Reverse Side

USGS-6, File 2, NMFL Partners

5. LEASE DESIGNATION AND SERIAL NO.

LC-031695(8)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

WARREN

8. FARM OR LEASE NAME

WARREN UNIT

9. WELL NO.

55

10. FIELD AND POOL, OR WILDCAT

Warren Blinobry-Tubb

11. SEC., T., E., M., OR BLK.

Sec. 29, T-20S, R-38E

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

17. NO. OF ACRES ASSIGNED
TO THIS WELL

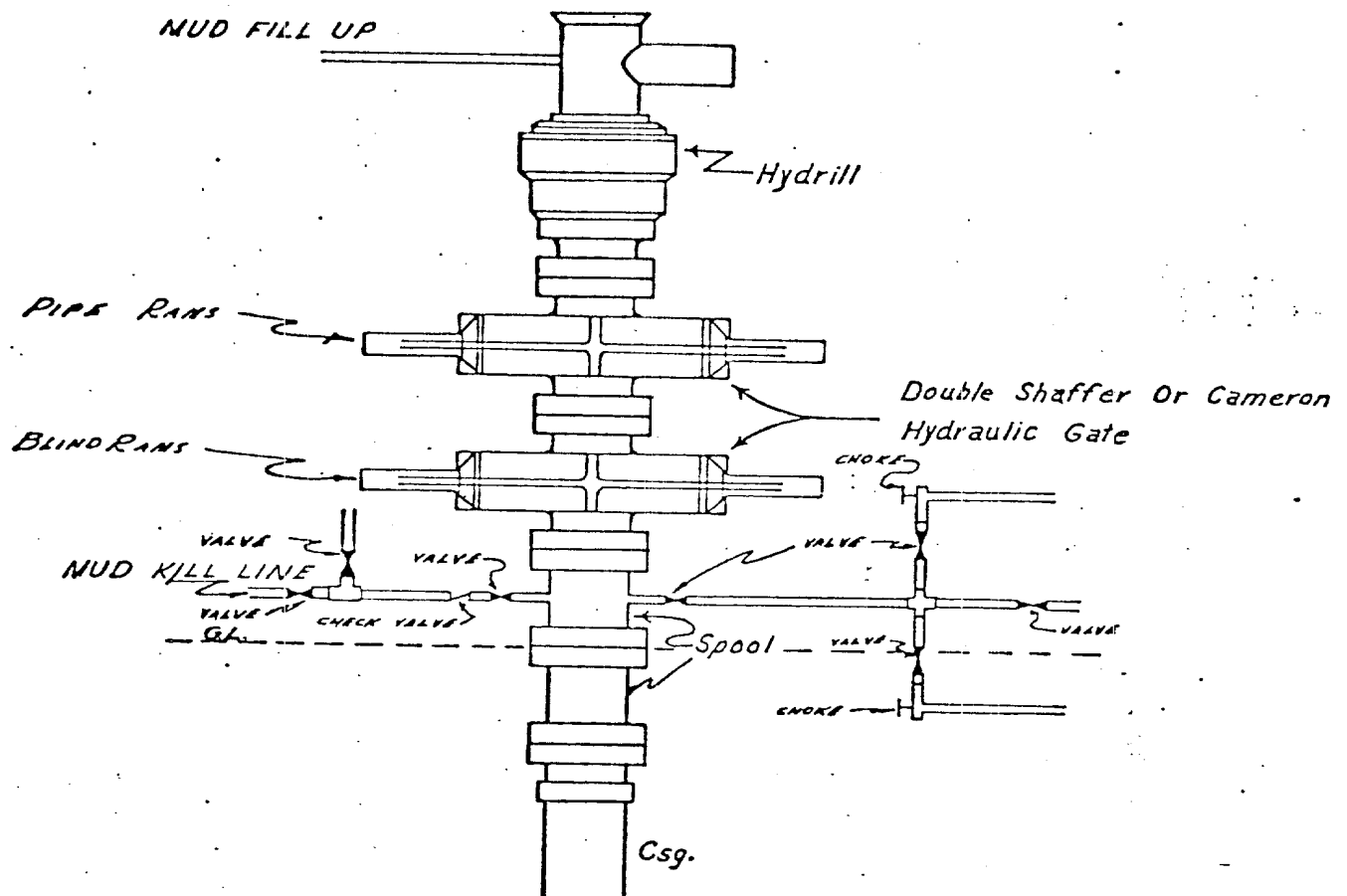
40

20. ROTARY OR CABLE TOOL

Rotary

"APPROVAL TO FLARE GRANTED
WHILE DRILLING AND TESTING."

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.

Warren Unit # NO. 55

All data must be taken from the plat book or other reliable source.

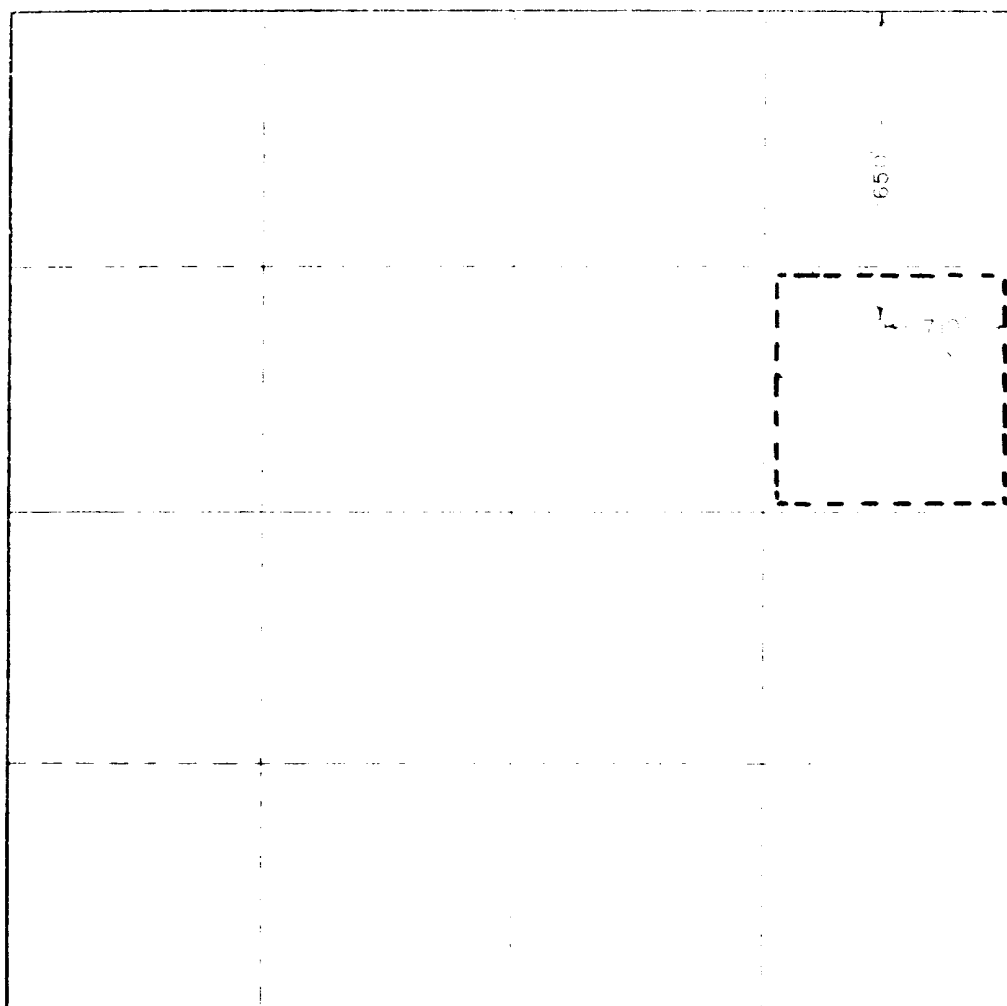
Continental Oil Company		Warren Unit		55
H	29	20 South	38 East	Lea
1650,	North	710	East	
3535.5	<i>Blindry & Tubb</i>	UNDESIGNATED WARREN	40	

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 acreage 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 on reverse side of this form if necessary. _____

No allowable will be assigned to the well until all interests have been consolidated by communitization, unitization, force-pooling, or otherwise for 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. T. Butterfield
ADMIN. SUPERV.
Continental Oil Co.
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.

October 11, 1977

Surveyor's Name _____
Title _____

Wm. W. West

WELL NAME: Warren Unit 7 No. 55
1650' FNL + 710' FEL
 LOCATION: Ser. 29, T20S, R38E

COUNTY: L 2
 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										
	RUSTLER 1420' SALADO 1510' Salt.			12 1/4	9 5/8"	1500'			8.5-9.0	Fresh water
2000										
	THURSTON 2540' YATES 2690'									
3000										
4000	SAN ANDRES 4080'									
5000										
	GLORIETA 5400'									
6000	ELINBRY 5890' - 0.1		GR-CNL-FDC DLL TD-2600'				14.9	less than 8.5		
	TUBB 6540' - 0.1 BRINKARD 6690'							less than 8.5		
7000	TD 6990'			8 3/4	7"	6990'	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

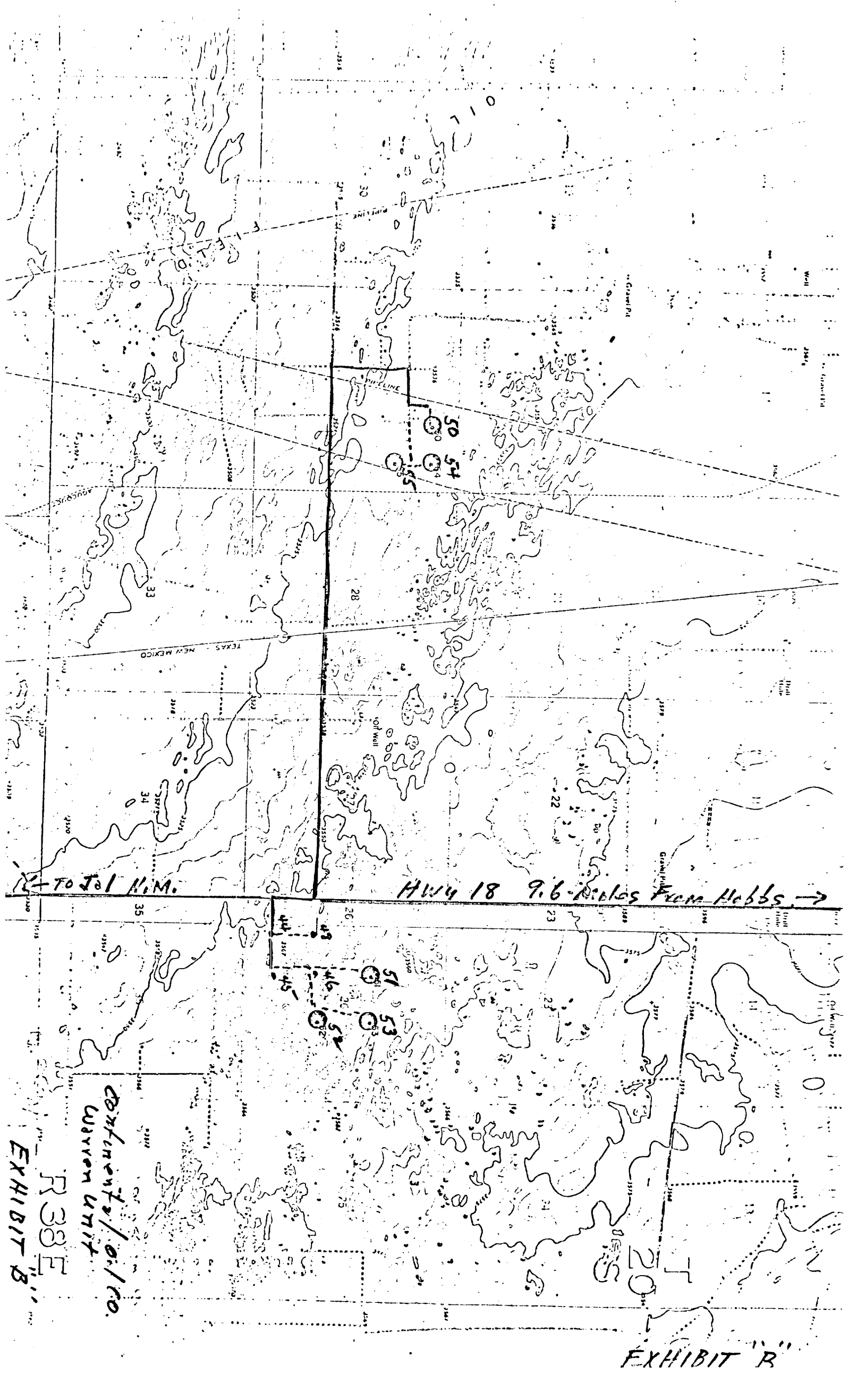
Wane Sowers
Prod. Supt.

ses

RECEIVED

JUNE 1978

OIL CONSERVATION COMM.
MORRIS, N. M.



TO Jol N.M.

HWY 18 9.6 Miles From Hobbs ->

CONFIDENTIAL
Warren Unit

EXHIBIT B

EXHIBIT R

R37E

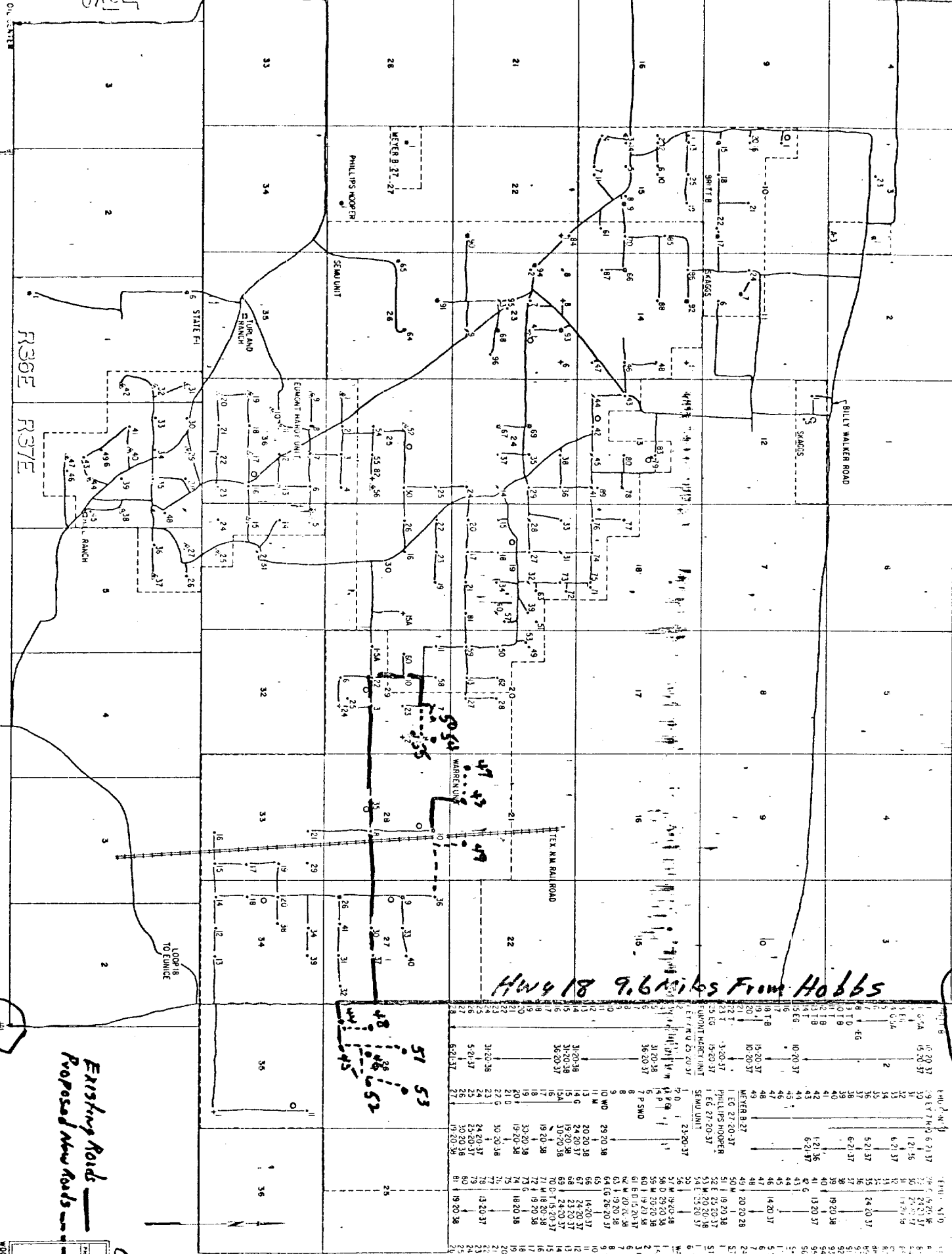
R38E

H26S

Highway 18

T20S

T21S



Hwy 18 9.6 miles from Hobbs

Existing Roads
Proposed New Roads

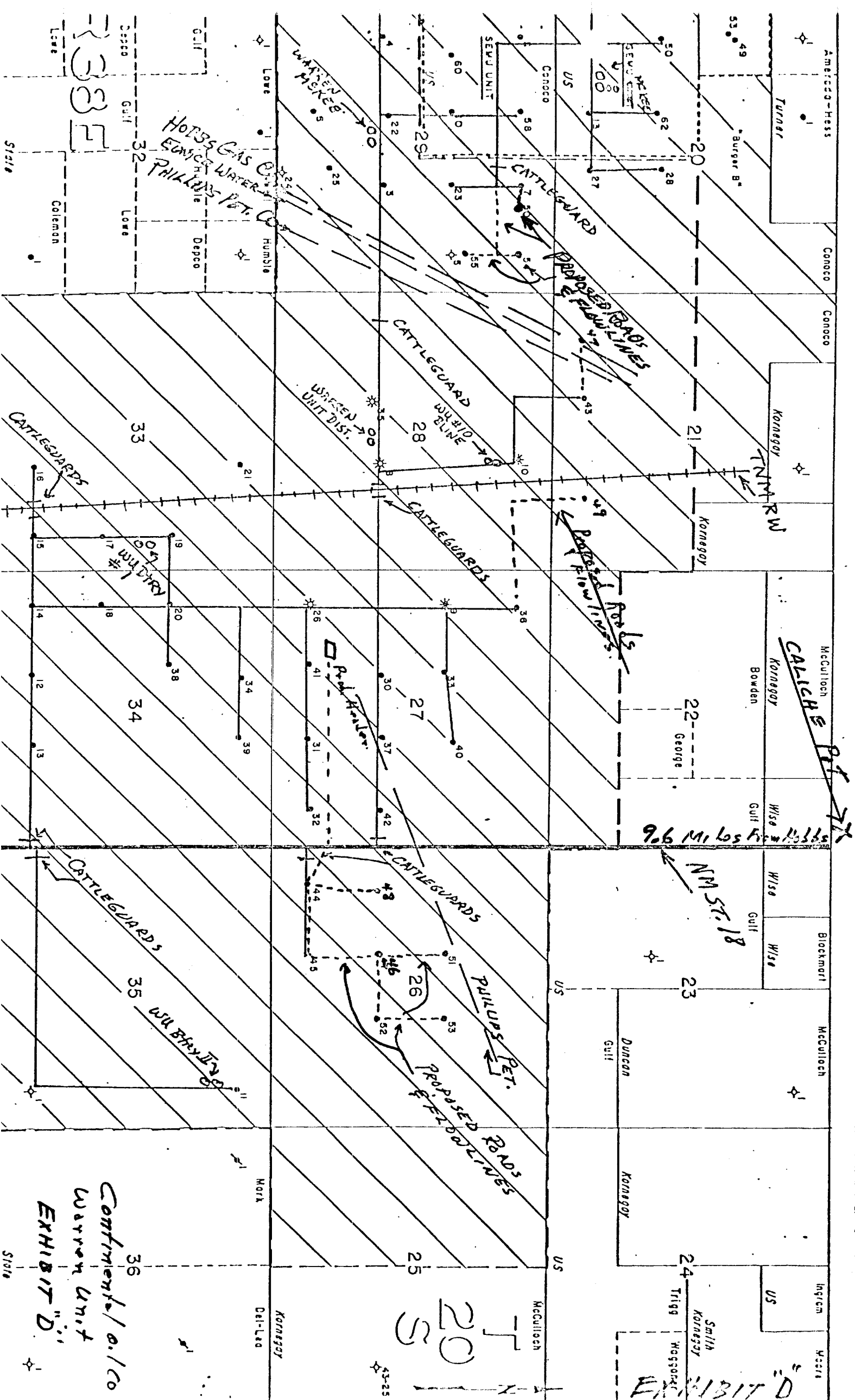
Continued o/r.

LEGEND FOR WELL LISTING:
LEASE OR UNIT
WELL NO. FORMATION SECTION TOWNSHIP RANGE
B-W-R-E-E-M-E-R-Y
O-D-R-I-N-K-I-B-O
E-E-L-W-A-N-T
E-E-C-U-W-A-T-G-A-S
E-T-E-C-U-W-A-T-Y-A-L-I-S
G-O-R-D-I-N-G
S-A-C-S-I-N
P-E-C-O-T-E-N-N
C-O-U-L-I-N
S-A-S-A-N
T-E-M-O-N-T-T-U-B
W-A-R-R-E-N
Z-E-T-R-I-V-E-R-S

WELL NO.	FORMATION	SECTION	TOWNSHIP	RANGE
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36

EXHIBIT C

CONOCO
ROAD MAP
LEA COUNTY, NEW MEXICO
WARRIOR UNIT AREA
WARRIOR UNIT
EXHIBIT C

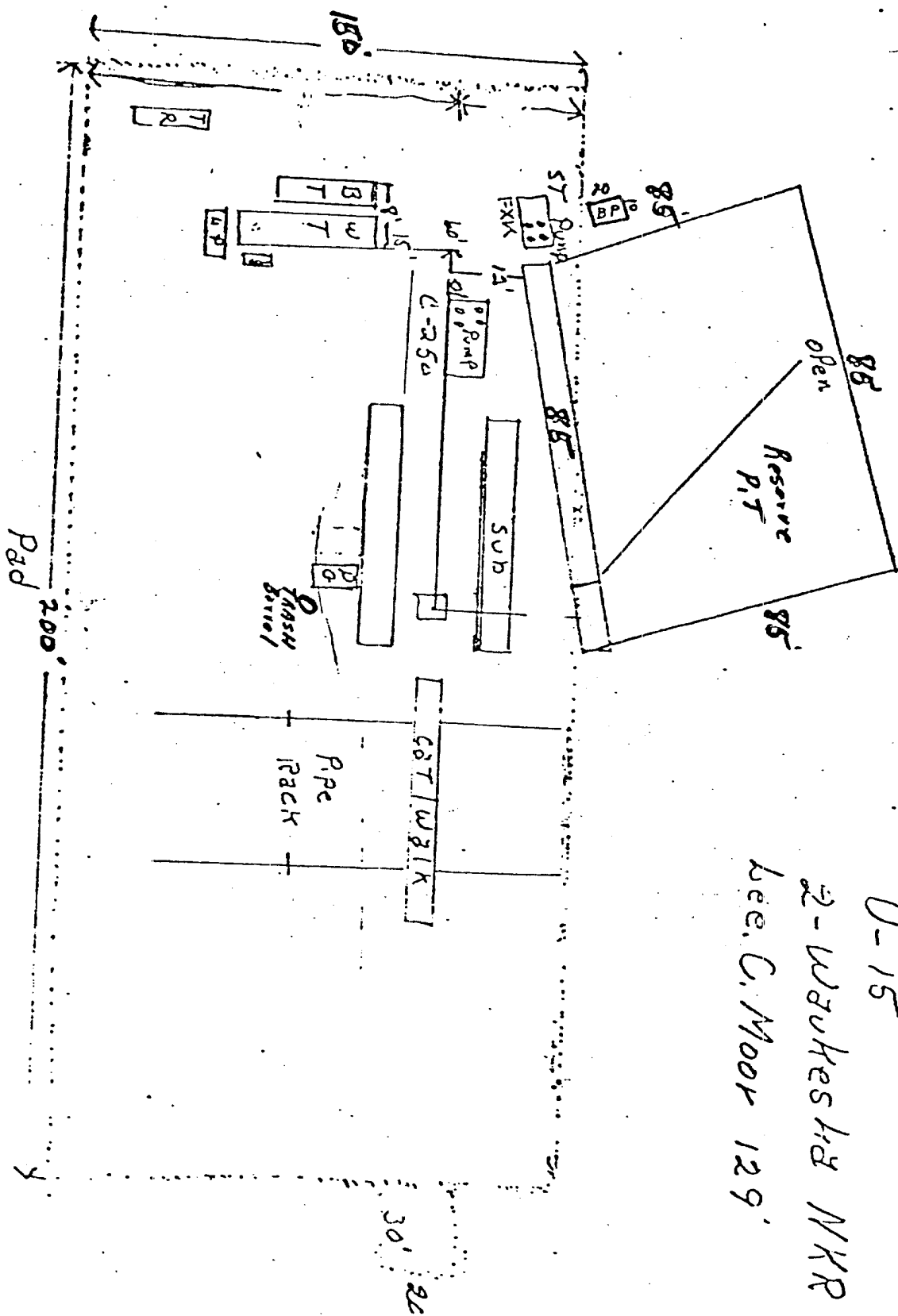


Hondo Rig #1

U-15

2-Waterhead NKR

Lee. C. Moor 129'



Continents/Oil Co.

WARREN UNIT

EXHIBIT E

EXHIBIT "E"

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JAN 21 1978

U.S. CONSTITUTION COMM.
WASH., D. C.

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

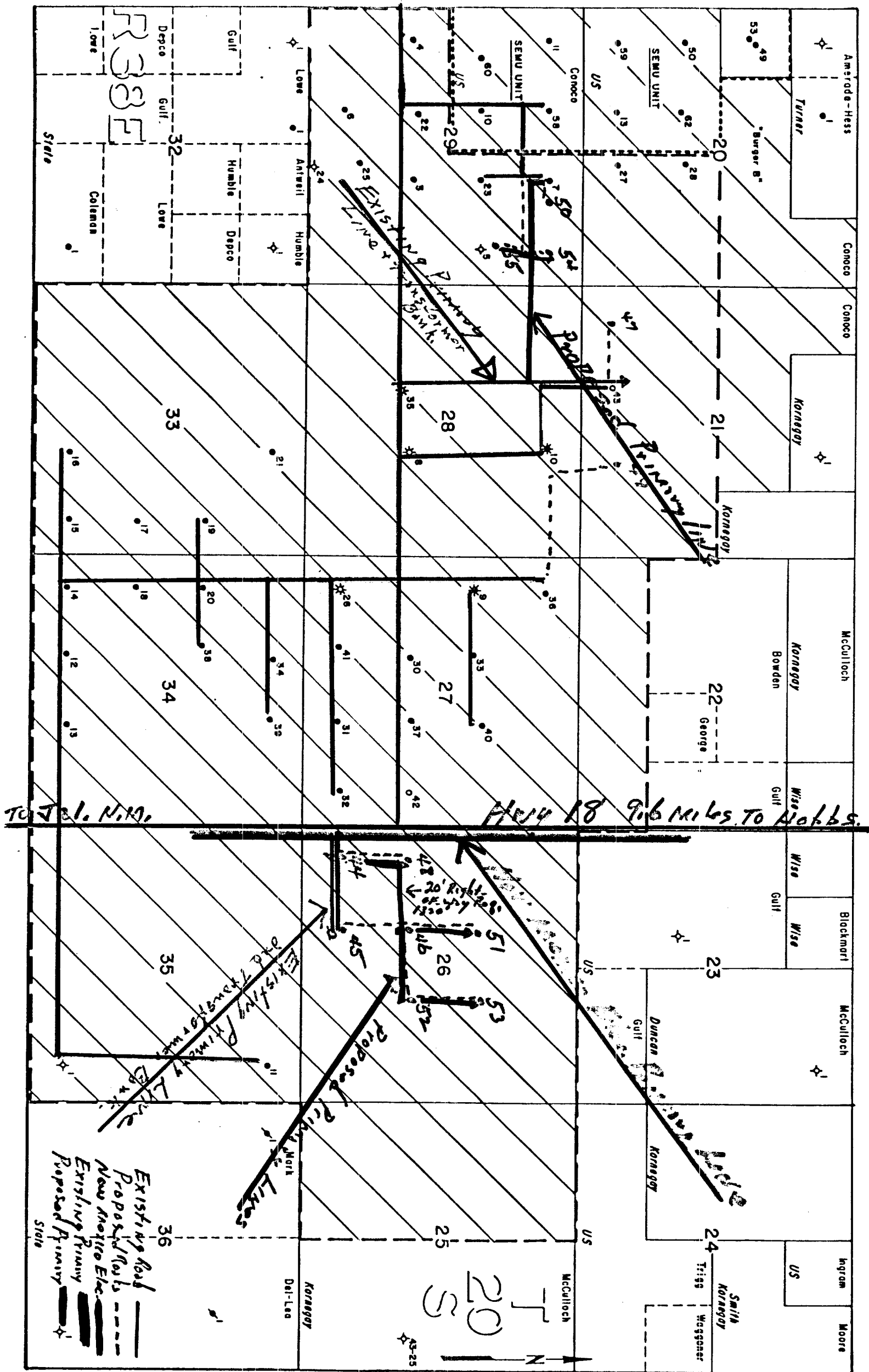
It is proposed to tie-in to an existing primary line and construct a primary line at 330' per span with a transformer bank for each well. A 20' right-of-way will be required to install these lines. The proposed lines are staked.

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'.



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JUNE 1 1976

CH. D. WILSON, JR.
BOSTON, N. H.

U. S. Geological Survey

HOBBS DISTRICT

Continental Oil Co.
No. 55 Warren Unit
SE $\frac{1}{4}$ 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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JAN 11 1978

GIL CONSTRUCTION COMM.
HOBBS, N. M.

173

71 Petroleum Information

LEA
 CONTINENTAL OIL CO.
 47 Base Warren Unit
 Sec 29, T20S, R38E
 1650' PNL, 710' FEL of Sec
 5 mi SW/Nadine

9 5/8" at 1407' w/500 sx
 7" at 6776' w/580 sx

IP (Blaineby) Perfs 5891-6063' F 64 BORD
 on 24 hr test. GOR 2188; gty 39.1

IP (Tubb) Perfs 6512-6678' F 34 BORD
 24 hr test. GOR 88; gty 37.3

Cactus

F.E. 2-6-78
 (Blaineby & Tubb)
 8-12-78 AMEND WELL NUMBER: 5938'
 4-17-78 Drilg 5938'
 4-25-78 TD 6776'; WOC
 5-7-78 TD 6776'; Prep Frac
 Perfs (Tubb) @ 6512', 6514', 6516',
 6619', 6626', 6633', 6641',
 6675', 6678' w/2 SFI
 5-15-78 Acid (6512-6678') 3500 gals (1.0)
 TD 6776'; Recg Ld
 5-23-78 Frac (6512-6678') 49,000 gals
 TD 6776'; Tstg
 Acid (6512-6678') 3000 gals

LEA
CONTINENTAL OIL CO.

Warren
47 Warren Township
Sec 29, T29S, R29E

5-30-78 TD 6776'; Fstg
RBP @ 6120'
Perf (Blinobry) @ 6044', 6063' w/2 SPI
Acid (6044-63') 1500 gals
Frac (6044-63') 25,500 gals
Perf (Blinobry) @ 5973', 5993', 6000', 6006' w/2 SPI
Acid (5973-6006') 1500 gals
Frac (5973-6006') 41,000 gals
Perf (Blinobry) @ 5891', 5908', 5917', 5923' w/2 SPI

5-30-78 Continued
Acid (5891-5923') 1500 gals
Frac (5891-5923') 40,000 gals
6-5-78 TD 6776'; Fsg
6-12-78 TD 6776'; POP
6-19-78 TD 6776'; TOP
6-21-78 TD 6776'; WOSP
8-7-78 TD 6776'; Complete
LOG TOPS: Rustler 1405', Nacora
Tansill 2550', Glorieta 5-05', B
3889', Tubb 6392'
8-12-78 COMPLETION ISSUED

8-2-78
10