



United States Department of the Interior

GEOLOGICAL SURVEY

South Central Region

P. O. Box 26124

Albuquerque, New Mexico 87125

MAY 13 1981

Walter W. Krug dba
Wallen Production Company
P. O. Box 1960
Midland, Texas 79702

Gentlemen:

Your Application for Permit to Drill well No. 8 Wallen Tonto in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ section 30, T. 19 S., R. 33 E., N.M.P.M., Lea County, New Mexico, lease New Mexico 073240, to a depth of 3200 feet to test the Yates-Seven Rivers formation in the Oil-Potash area, is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the Supervisory Technician, Geological Survey, Hobbs, New Mexico, in sufficient time for a representative to witness all cementing operations.

Sincerely yours,

(ORIG. SGN.) GENE F. DANIEL

Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

Enclosure

cc:

NMOCD, Hobbs 2 (w/enclosures)
BLM, Carlsbad

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(Other instruction
reverse side)

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

WALTER W. KRUG dba WALLEN PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

P. O. BOX 1960, MIDLAND, TEXAS 79702

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

At surface

1790' FSL AND 1710' FEL OF SECTION 30

At proposed prod. zone

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

16 MILES SOUTH-SOUTHEAST OF MALJAMAR, NEW MEXICO

10. DISTANCE FROM PROPOSED*

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

1710'

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

600'

16. NO. OF ACRES IN LEASE

643

19. PROPOSED DEPTH

3200'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

CABLE TOOLS

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

3587.5 GR

22. APPROX. DATE WORK WILL START*

MAY 15, 1981

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	13-3/8"	61# K-55	110'	SUFFICIENT TO CIRCULATE
12-1/2"	10-3/4"	45.5# K-55	600'	MUDDER IN - TO BE PULLED
10"	8-5/8"	32# K-55	1050'	MUDDER IN - TO BE PULLED
8"	7"	23# K-55	2890'	SUFFICIENT TO CIRCULATE
6-1/4"	4-1/2"(liner)	10.5# K-55	3200'	SUFFICIENT TO CIRCULATE LINER

PRODUCING ZONE WILL BE PERFORATED AND STIMULATED AS NECESSARY.

SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA
SURFACE USE AND OPERATIONS PLANRECEIVED
APR 6 1981
U.S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

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

Arthur R. Brown

TITLE

Agent

DATE

APRIL 6, 1981

(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

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

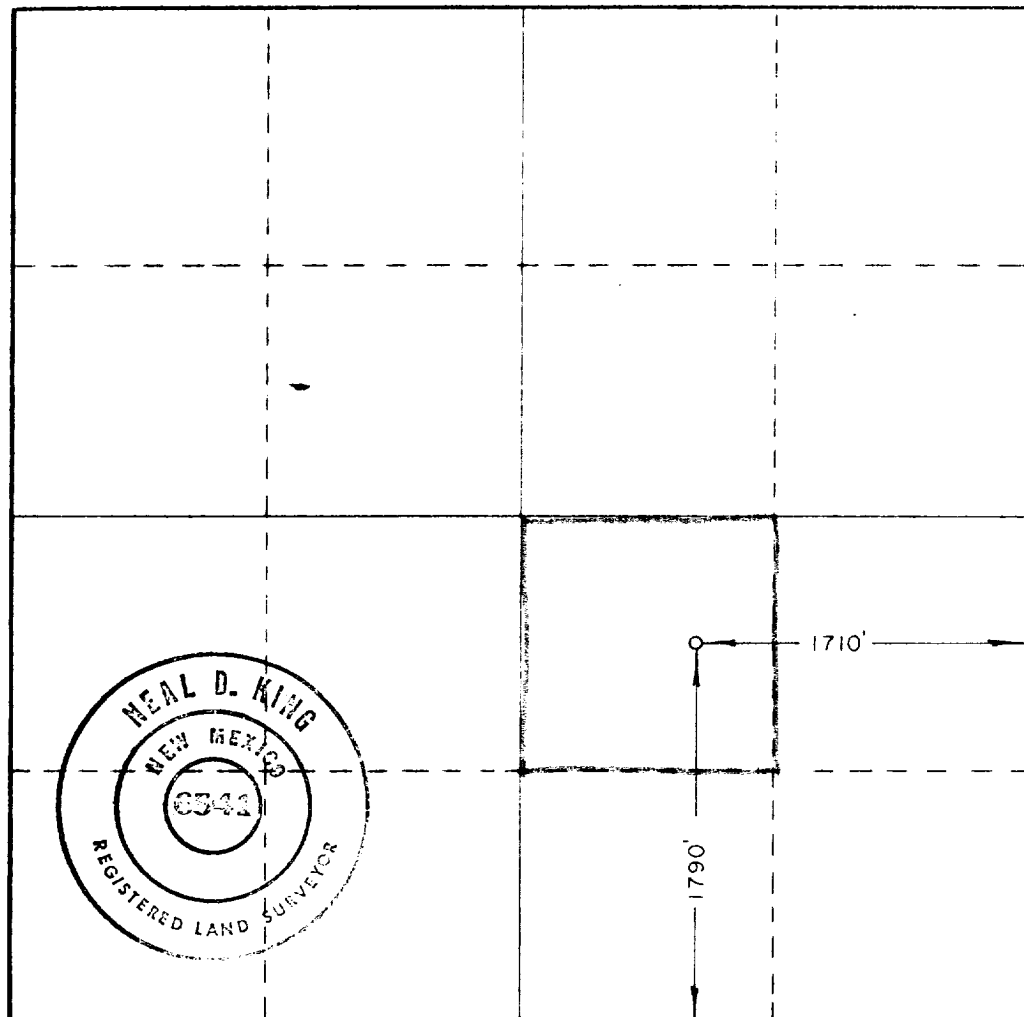
Operator Walter Krug dba WALLEN PRODUCTION CO.		Lease Wallen Tonto		Well No. 8
Unit Letter J	Section 30	Township 19 South	Range 33 East	County Dea
Actual Footage Location of Well: 1790 feet from the South line and 1710 feet from the East line				
Ground Level Elev. 3587.5	Producing Formation YATES-SEVEN-RIVERS	Pool SOUTH TONTO YATES-SEVEN RIVERS	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 Commission.



CERTIFICATION

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

Arthur R. Brown
Signature

Arthur R. Brown

Position

Agent for

Company

Wallen Production Company

Date

APRIL 6, 1981

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

March 30, 1981

Registered Professional Engineer and/or Land Surveyor

Neal D. King
Signature

R.L.S.

Certificate No.

0541

0 330 660 990 1320 1650 1980 2310 2640 2970 3300

SUPPLEMENTAL DRILLING DATA

WALTER W. KRUG dba
WALLEN PRODUCTION COMPANY
WELL NO. 8 WALLEN TONTO

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	1200
Top of Salt	1330
Base of Salt	2720
Yates	2920
Seven Rivers	3140

3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water	None anticipated but should be above 100 feet if present.
Gyp Water	Santa Rosa at about 750 feet
Oil	Yates
Oil	Seven Rivers

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
13-3/8"	0	110	61#	K-55	STC
10-3/4"*	0	600	45.5#	K-55	STC
8-5/8"*	0	1050	32#	K-55	STC
7"	0	2890	23#	K-55	STC
4-1/2"	2700	3200	10.5#	K-55	STC

* Above 10-3/4" and 8-5/8" casing strings are cave and/or water shut-off casing strings and, if necessary to be run, will be mudded in and will be pulled before cementing the 7" casing.

13-3/8" surface casing will be cemented to the bottom of the

cellar with approximately 125 sacks of Class "C" cement.

7" casing will be cemented with approximately 1000 sacks of "Light" cement tailed in with 100 sacks of Class "C". Cement to circulate.

4-1/2" liner will be cemented with approximately 60 sacks of Class "C" cement.

Cement quantities and additives may be varied to best suit hole conditions at the time casing is run.

5. PRESSURE CONTROL EQUIPMENT:

Pressure control equipment will consist of 3500 psi working pressure control valve and oil saver. A 1500 psi working pressure master valve is available if needed.

6. CIRCULATING MEDIUM:

This will be a cable tool hole. Water will be the drilling fluid.

7. AUXILIARY EQUIPMENT:

Not applicable.

8. TESTING, CORING AND LOGGING PROGRAM:

Formation tests will be made as warranted by bailing hole down and measuring fluid entry rate.

It is planned that a CNL log with Gamma Ray will be run.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS:

None anticipated.

10. ANTICIPATED STARTING DATE:

It is planned that drilling operations will commence on or about May 15, 1981, with drilling and completion operations lasting about 45 days.

SURFACE USE AND OPERATIONS PLAN

FOR

WALTER W. KRUG dba
WALLEN PRODUCTION COMPANY
WELL NO. 8 WALLEN TONTO
1790'FSL & 1710'FEL SEC.30, T.19 S., R.33 E.
LEA COUNTY, NEW MEXICO

LOCATED: 16 air miles south-southeast of Maljamar, New Mexico.

FEDERAL LEASE NUMBER: NM-073240

RECORD LESSEE: Aminoil USA ($\frac{1}{2}$), The Superior Oil Co. ($\frac{1}{4}$), and
Wm. G. Ross ($\frac{1}{4}$).

LEASE ISSUED: February 1, 1960. Lease is in producing status.

ACRES IN LEASE: 643.

SURFACE OWNERSHIP: Federal.

GRAZING PERMITTEE: Scharbauer Cattle Company
P. O. Box 1471
Midland, Texas 79702

POOL: South Tonto Yates-Seven Rivers

POOL RULES: Statewide. 40-acre spacing for oil.

EXHIBITS: A. General Road Map
B. Plat Showing Existing Wells and Existing Roads
C. Drilling Rig Layout
D. Topo Plat
E. Electric Powerline Pole Design

1. EXISTING ROADS:

- A. Exhibit "A" is a road plat showing the location of the proposed well as staked. Point "A" on the plat is on US 62-180 at Milepost 68, approximately 37 miles west-southwest of Hobbs, New Mexico. To go to the well site from this point, exit US 62-180 onto the paved road and go northwest and west 4.5 miles, then north on Lea County 126 for 6.1 miles to a point where a caliche road goes east. Turn east and go 5.2 miles to a point where a caliche road goes south. Turn south and go southeasterly 2.2 miles to a point where a caliche road goes southwest. Turn southwest and go southwest and west 1 mile and then north to arrive at well No. 5 Wallen Tonto, a pumping oil well. The proposed well is approximately 600 feet east of this well.
- B. Exhibit "B" is a plat showing existing roads in the vicinity of the proposed well site. Existing roads are color coded.
- C. Any repair to existing roads does not appear necessary at the present time.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be 12 feet wide and approximately 600 feet long. The new road is labeled and color coded red on Exhibit "B". The center line of the new road, from the beginning to the well site, has been staked and flagged.
- B. Surfacing Material: Eight inches of caliche, watered, compacted, and graded.
- C. Maximum Grade: One percent.
- D. Turnouts: None necessary.
- E. Drainage Design: The new road will be crowned with drainage to both sides.
- F. Culverts: None necessary.
- G. Cuts and Fills: None required.
- H. Gates and Cattle Guards: None necessary. No fences involved.

3. LOCATION OF EXISTING WELLS:

- A. Existing wells in the immediate area are shown on Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. The existing tank battery is near well No. 1 as shown on Exhibit "B".
- B. If well No. 8 is productive, the flow line will be layed on the ground alongside the new road and tie in to the existing flow line at well No. 5.
- C. Plans are, if the well is productive, to construct a secondary electric powerline from the well alongside the new road to tie in with the existing electric powerline at well No. 5. Location of the existing line is shown on Exhibit "B". Pole design is shown on Exhibit "E".

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. It is not planned that a water well will be drilled. Water necessary for drilling operations will be purchased and hauled to the well site over existing roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

- A. There is an existing caliche pit on Federal land in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ and NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30, T. 19 S., R. 33 E., Lea County, New Mexico. Caliche needed for construction work will be taken from this pit and will be trucked to the well site over existing roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pit.
- B. Drilling fluid will be allowed to evaporate in the drilling pit until the pit is dry.
- C. Water produced during tests will be disposed of in the drilling pit.
- D. Oil produced during tests will be stored in test tanks until sold.
- E. Trash, waste paper, garbage and junk will be buried and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
- F. All trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

- A. None required.

9. WELL SITE LAYOUT:

- A. Exhibit "C" shows the relative location and dimensions of the well pad and drilling pit and the location of major rig components.
- B. No cut and fill will be required. Clearing and minor leveling will be necessary.
- C. The pad and pit area has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, all equipment, trash and junk will be removed and the well site will be cleaned. Any special rehabilitation and/or special revegetation requirements of the surface management agency will be complied with and accomplished as expeditiously as possible.

11. OTHER INFORMATION:

- A. Topography: The land surface at the well site is relatively level. Regionally, land slope is to the southwest.
- B. Soil: Top soil at the well site is sand.
- C. Flora and Fauna: The vegetative cover is sparse and consists of mesquite, yucca, shinnery oak, sand sage, weeds and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.
- D. Ponds and Streams: There are no rivers, lakes, streams or ponds in the area.
- E. Residences and Other Structures: There are no occupied dwellings or windmills within two miles of the proposed well site.
- F. Archaeological, Historical and Cultural Sites: None observed in the area.

G. Land Use: Oil and gas production, grazing, and hunting in season.

H. Surface Ownership: Federal.

12. OPERATOR'S REPRESENTATIVE:

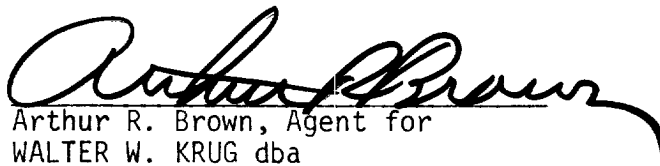
The representative responsible for assuring compliance with the approved Surface Use and Operations Plan is:

Walter W. Krug
P. O. Box 1960
Midland, Texas 79702
Office Phone: 915-683-2600
Home Phone: 915-563-0048

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 that 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 Wallen Production Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

April 6, 1981
Date:


Arthur R. Brown, Agent for
WALTER W. KRUG dba
WALLEN PRODUCTION COMPANY

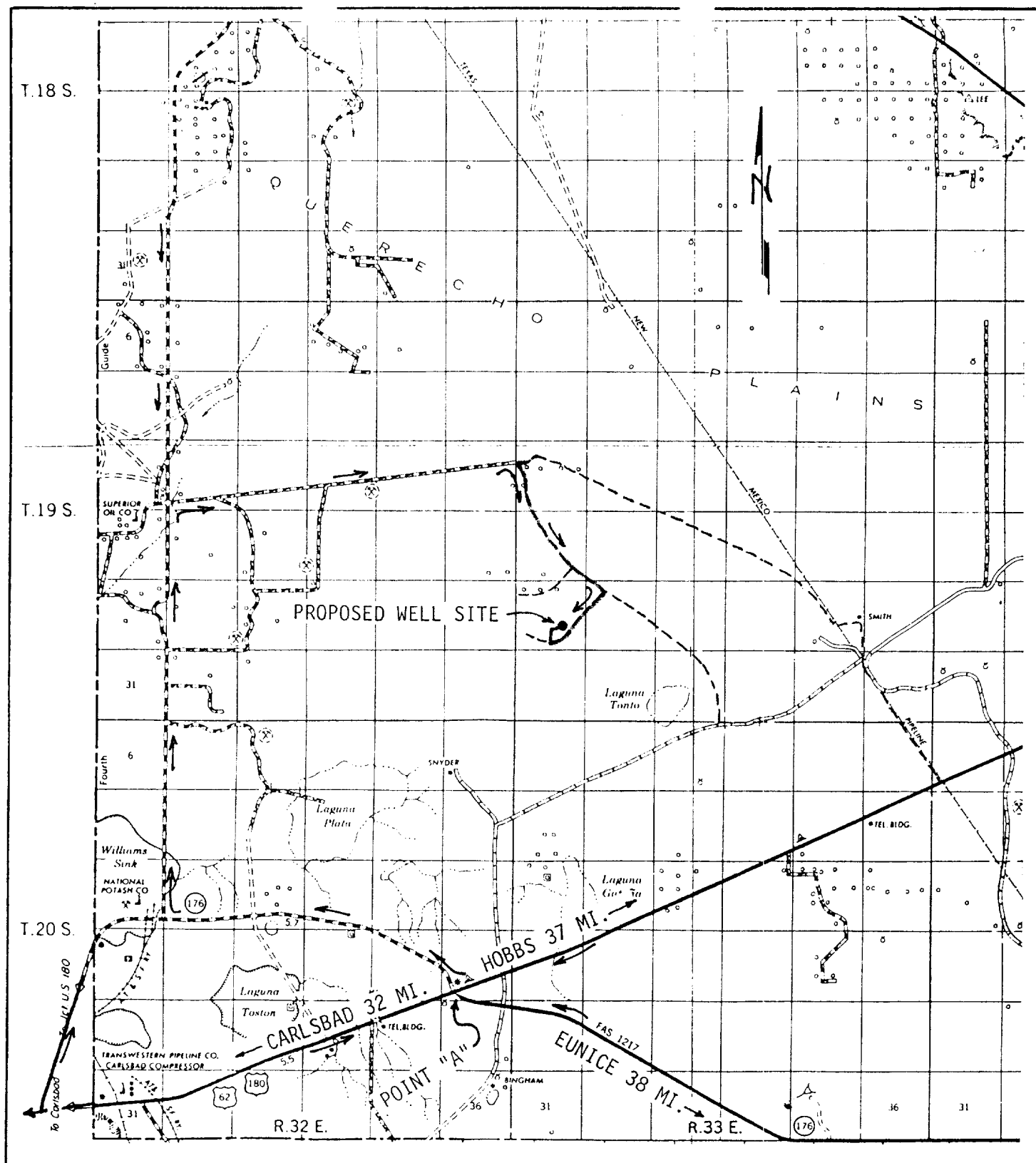
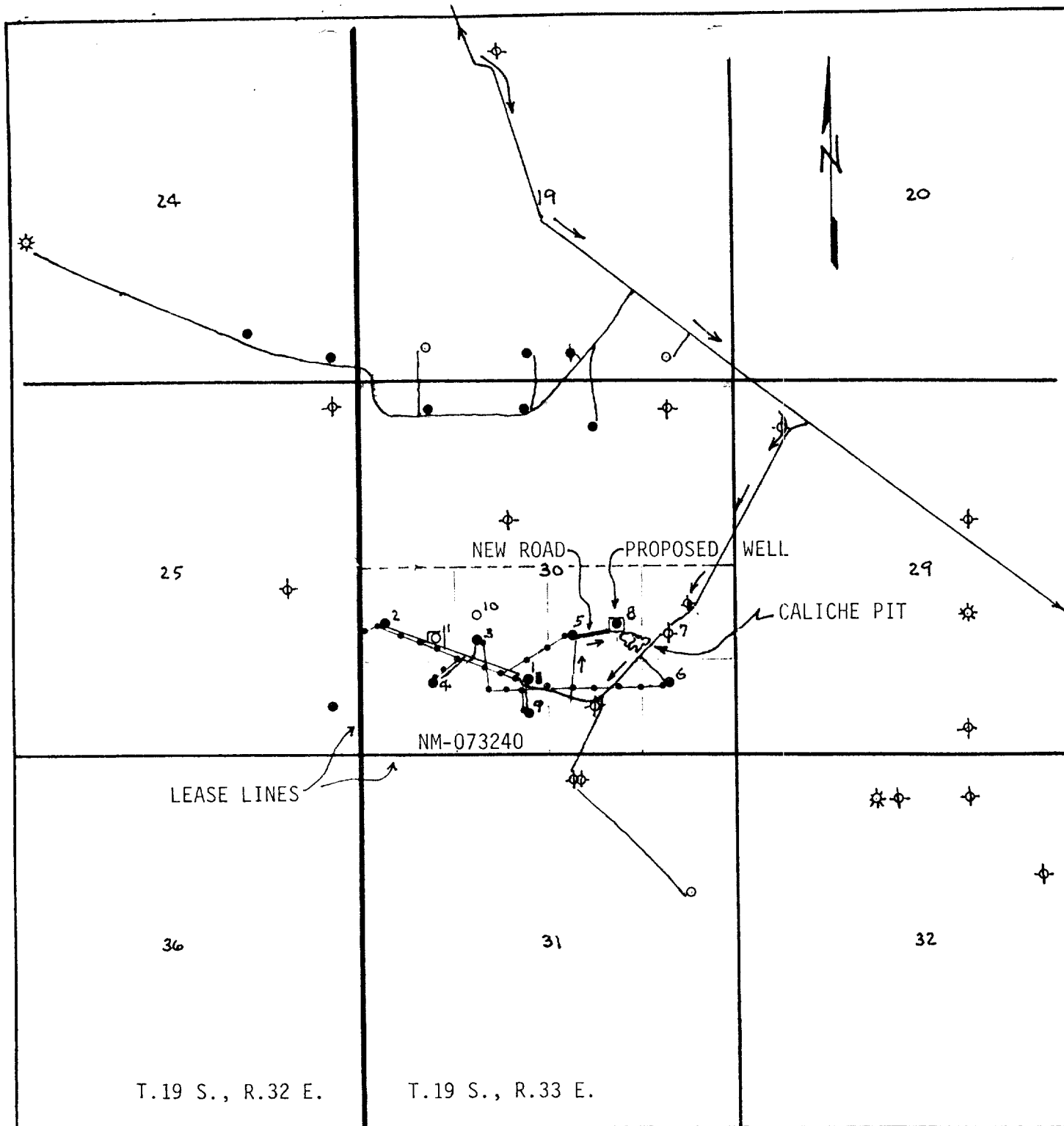


EXHIBIT "A"

WALTER W. KRUG dba
 WALLIN PRODUCTION COMPANY
 WELL NO. 8 WALLIN TONTO
 1790' FSL & 1710' FEL SEC. 30, T.19 S., R.33 E.
 LEA COUNTY, N.M. SCALE: 1/2" = 1 MI.



LEGEND:

- Oil Well
- ⊛ Gas Well
- ⊕ Plugged Well
- Existing Caliche Road
- Existing Electric Line
- Tank Battery

EXHIBIT "B"

WALTER W. KRUG dba
 WALLEN PRODUCTION COMPANY
 WELL NO. 8 WALLEN TONTO
 1790'FSL & 1710'FEL SEC.30, T.19 S., R.33 E.
 LEA COUNTY, N.M. SCALE: 1" = 2000'

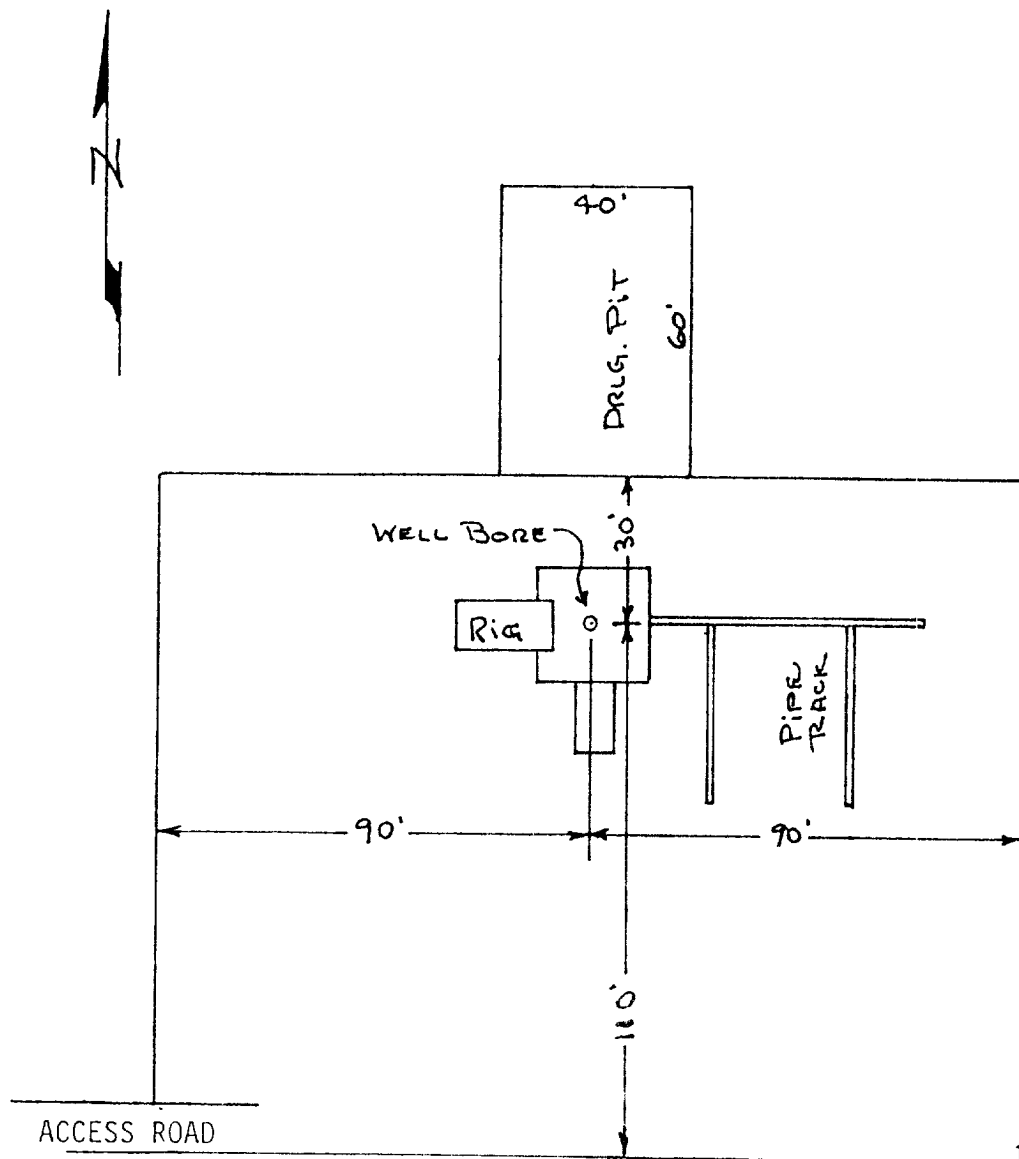


EXHIBIT "C"

WALTER W. Krug dba
WALLEN PRODUCTION COMPANY
WELL NO. 8 WALLEN TONTO

DRILLING RIG LAYOUT
SCALE: 1" = 40'

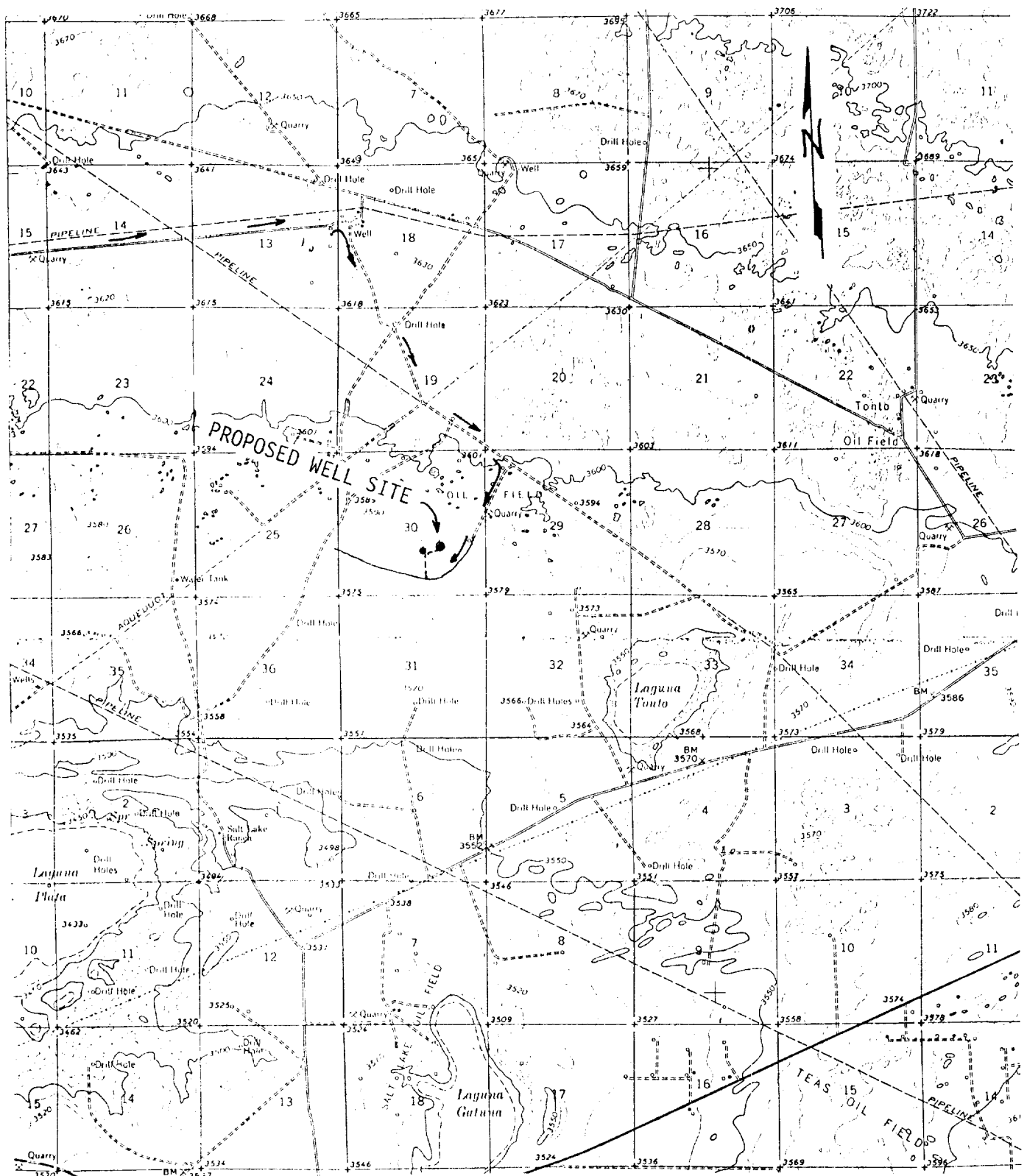


EXHIBIT "D"

WALTER W. KRUG dba
WALLEN PRODUCTION COMPANY
WELL NO. 8 WALLEN TONTO

TOPO PLAT
CONTOUR INTERVAL: 10' SCALE: 1" = 5208'

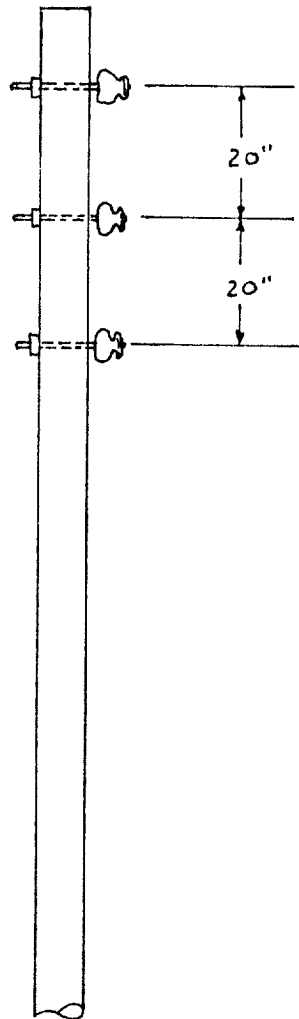


EXHIBIT "E"

POLE DESIGN
SECONDARY ELECTRIC POWER LINE