

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

Orla Petco, Inc. ✓

3. ADDRESS OF OPERATOR

P.O. Box 953, Midland, Texas 79702

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

At surface

2270' FSL & 990' FEL of Section 31, T-22S, R-28E

At proposed prod. zone

Same

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

3 miles East of Otis

15. DISTANCE FROM PROPOSED*

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

990'

16. NO. OF ACRES IN LEASE

478.08

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40 ac.

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

900'

19. PROPOSED DEPTH

2500'

20. ROTARY OR CABLE TOOLS

Cable Tools

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

3053.4' Ground Level

22. APPROX. DATE WORK WILL START*

March 5, 1981

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"	23#	350'±	250 sx Class C, 2% CaCl (circ.)
8"	4 1/2"	9.5#	2500'±	500 sx Class H, (circulated)

Surface Formation: Quaternary terrace deposits.

Cable Tool Drilling Rig: Blind Ram Cable Tool Control Head.

Estimated Geological Tops: Base of Salt-2115', Delaware Lime-2350', Delaware Sand-2425'.

Pressure Equipment: Blind Ram Cable Tool Control Head.

Estimate will encounter water between 75-100', encounter oil @ 2447'±.

Logging: Gamma Ray Log, no coring or drillstem testing.

Anticipated starting date: March 5, 1981.

U.S. GEOLOGICAL SURVEY
MIDLAND DISTRICT OFFICE
POSTED FOR
API & AL. EX-100
3-20-81

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

James H. C. Riddle Jr.

TITLE Vice-President

DATE March 3, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY (Signature) GEORGE H. STEWART

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

MAR 12 1981

JAMES A. GILMAN
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

**V MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-4-85

All distances must be from the outer boundaries of the Section

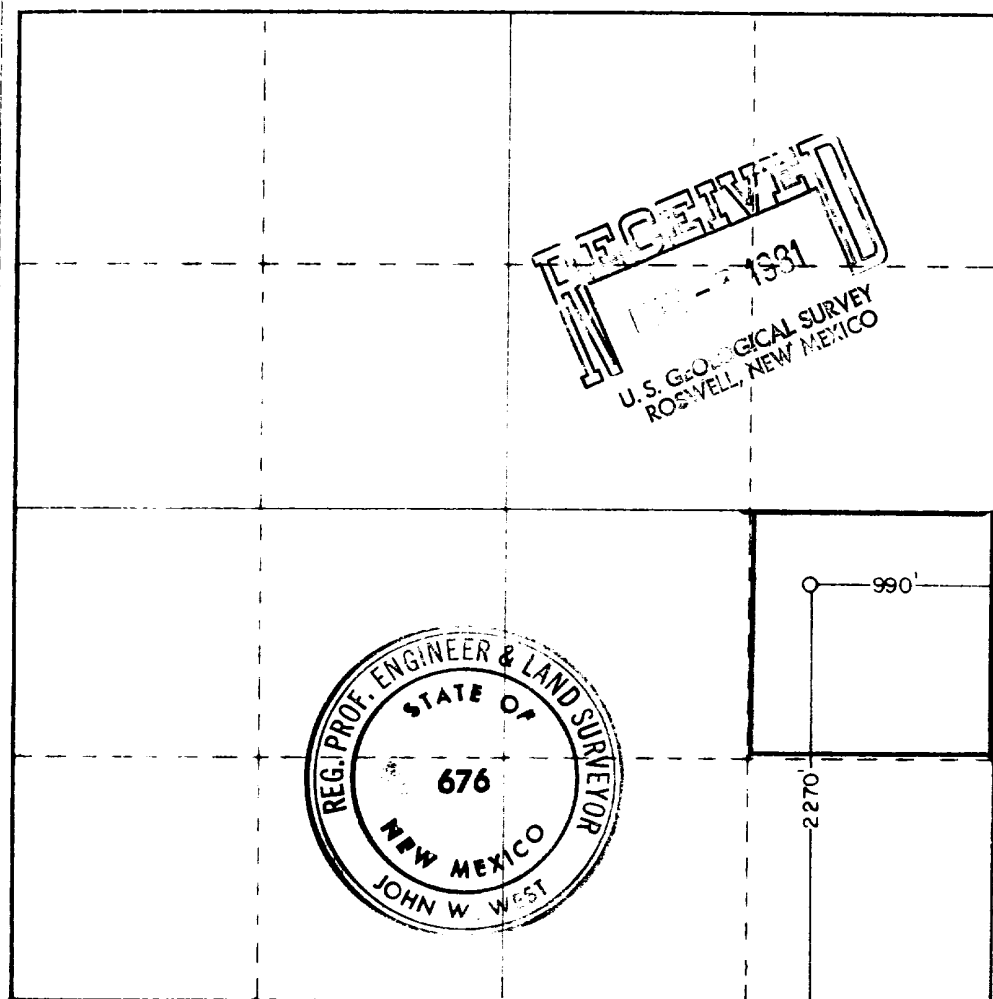
Operator Petco, Inc. ORLA PETROLEUM CO.		Lease Courley Fed.		Well No. 6
Unit Letter I	Section 31	Township 22 South	Range 28 East	County Eddy
Actual Footage Location of Well: 2270 feet from the South line and 990 feet from the East line				
Ground Level Elev 3053.4	Producing Formation Delaware Sand	Pool Herradura Bend (Delaware)	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

James M.C. Ritchie, Jr.
Name
James M.C. Ritchie, Jr.

Position
Vice-President

Company
Orla Petco, Inc.,

Date
March 3, 1981

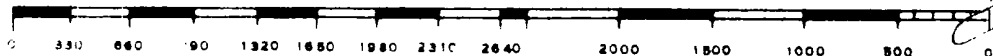
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
2-23-81

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6663
Ronald J. Eidson 3239



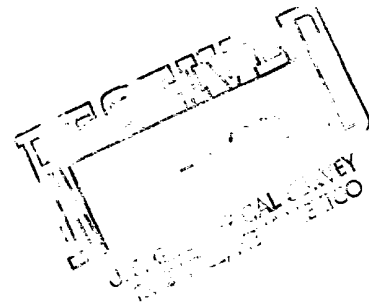
S U R F A C E U S E P L A N

ORLA PETCO, INC.

Gourley-Federal No. 6, Lease No. 30-026684
2270' FSL & 990' FEL of Sec. 31, T-22S, R-28E,
N.M.P.M., Eddy County, New Mexico

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS: See Exhibit 1 for the location of the existing roads in the vicinity of the proposed drilling location.



2. PLANNED ACCESS ROADS:

A. Length and Width:

The length of the new access road to the location will be approximately 8' long and 8' wide. See Exhibit 3 for plat showing approximate location of access road.

There will be no new access road. The location is on the access road to the #4 Gourley-Federal SWD.

B. Turnouts:

There will be no turnouts on the new proposed access road to the location of the well.

C. Culverts:

There will be no culverts in the area of the proposed well.

D. Cuts and Fills:

There will be no cuts and fills when the access road is built.

E. Gates, Cattleguards:

There is a cattleguard placed on the south end of the lease road. See Exhibit 5 for the location of the cattleguard.

3. LOCATION OF EXISTING WELLS:

See Exhibit No. 2 for the location of the existing wells in a one mile radius of the proposed drilling location.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

See Exhibit 3 for a plat showing the proposed location of the tank battery and flowlines associated with the proposed well in the event of production.

See Exhibit 5 for the plat showing the proposed location of power line poles needed to electrify the wells.

5. LOCATION AND TYPE OF WATER SUPPLY:

Type of Water Supply: City of Carlsbad water.

Location of supply: B & E Truck Lines yard, water will be stored at water tank (Exhibit 4) at wellsite. Very little water needed (approx. 140 bbls. total), for a Cable Tool Rig.

Transport Method: Truck

Transport Route: Access road to drillsite (Exhibit 3), for access road and proposed road. Proposed road to be used is maked in yellow.

6. SOURCE OF CONSTRUCTION MATERIALS:

Caliche for surfacing the road and well pad will be obtained from an existing pit in the SW/4 NW/4, Se 5, T-23S, R-28E. The pit is owned by Julius Roberson. Location of the pit is shown on Exhibit 1.

7. METHODS OF HANDLING WASTE DISPOSAL:

Cuttings: Cuttings will be covered when the plastic lined slush pit is leveled. Pit will be covered a minimum of 24" of topsoil.

Garbage and Trash: To be buried in slush pit, small paper waste will be placed in barrel containers and hauled off of location.

Additional Requirements for Waste Disposal: The small amount of drilling fluids needed will be allowed to evaporate in the slush pit.

8. ANCILLARY FACILITIES:

None Required.

9. WELLSITE LAYOUT:

Exhibit 4 shows the relative location and dimensions of the well pad, mud pits, reserve pits, and location of major rig components. The drilling pad will be constructed using compacted crushed caliche rock, if needed.

10. PLANS FOR RESTORATION OF THE SURFACE:

Stockpiling Topsoil: The topsoil covering the drillsite will be stockpiled when the drilling pad and slush pit are constructed and will be replaced upon completion of operations.

Leveling: Upon completion of drilling operations, the slush pit will be leveled and covered with the original topsoil at least 24" deep. All trash will be cleaned off location.

Reseeding: Because vegetation consists of random clumps of grass and mesquite bushes, reseedling of the drillsite will not be attempted.

Seed Mixture: Not applicable.

11. OTHER INFORMATION:

A. Topography: Land surface is undulating to gently rolling and dunny. From an elevation of 3053' feet at wellsite, the land surface slopes gently toward the south at about 25 ft/mile.

B. Soil: Terrace Gravel

C. Flora and Fauna: Creosote bushes, Sage, Broom snakeweed, Crown of Thorns.

D. Ponds and Streams: There are no streams or ponds in the area.

E. Residences and Other Structures:

The nearest dwelling is a ranch house approximately 1/2 mile SE of the well site.

F. Land Use: Grazing

G. Surface Ownership: Wellsite is on Federal Surface.

12. OPERATOR'S REPRESENTATIVE:

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

Harry R. Sindorf
1002 N. Mesa St., Vista del Sol Spts. #16
Carlsbad, New Mexico 88220
Home phone: (505) 885-9978

Bucky Ritchie
One Marienfeld Place
Midland, Texas 79701
Home Phone: (915)684-8797
Office Phone: (915)684-4762

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 _____ and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date February 20, 1981

Bucky M. Ritchie
Name
Field Manager
Title

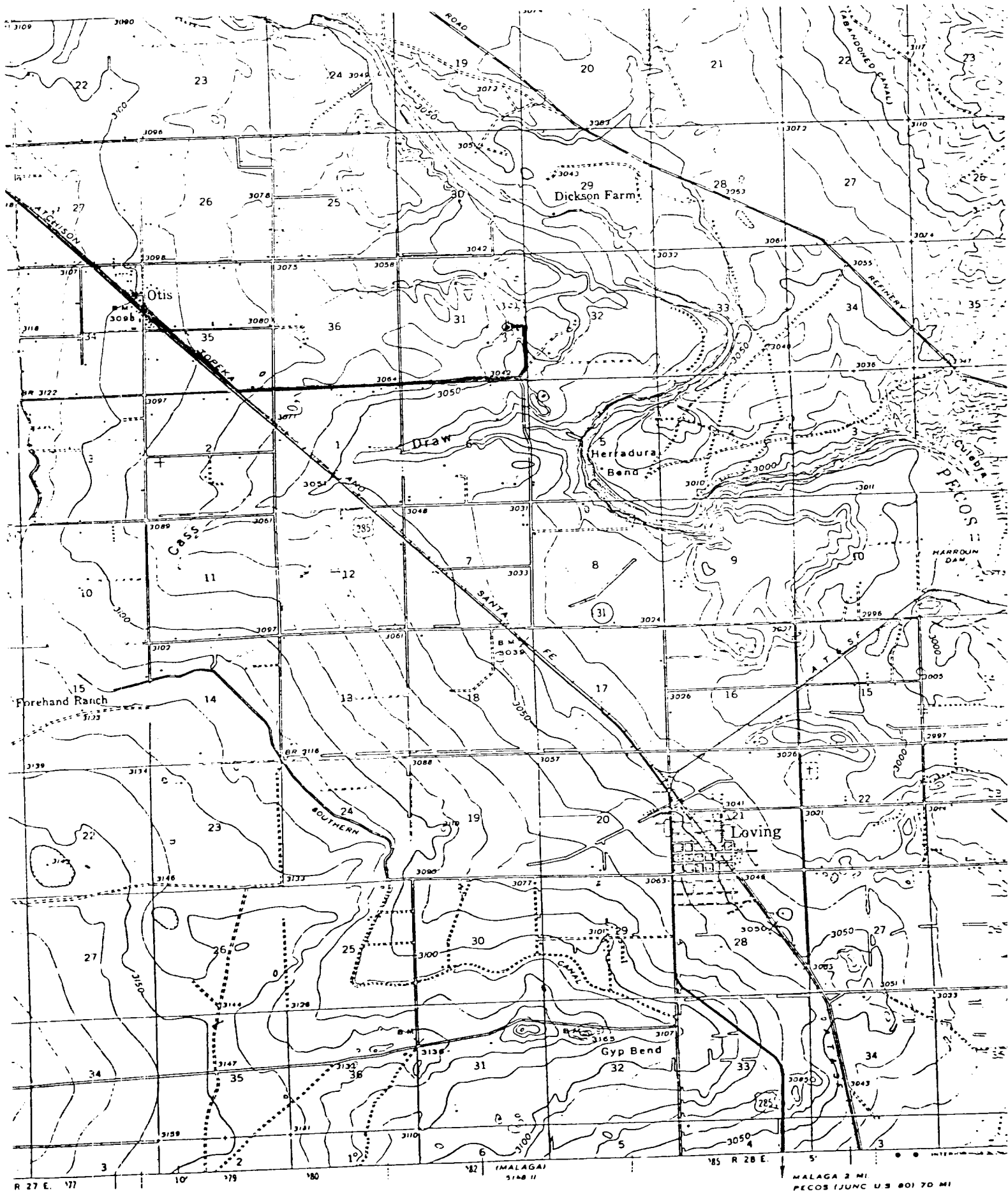
ORLA PETCO, INC.

GOURLEY - FEDERAL NO. 6

EXHIBIT 1

EXISTING & PROPOSED ROADS

- PAVED HIGHWAY 285
- EXISTING ACCESS ROAD
- EXISTING LEASE ROAD
- PROPOSED DRILLSITE



SCALE 1:62,500

4-11-65



20

EXHIBIT

No. 1

LAND MAP EXISTING WELLS - 1 mile radius
Gourley-Federal No.
Section 31, T-22S, R-28E, Eddy County,
New Mexico 1" = 2000'

22

28

25

30

29

PanAm.



Yates
I-HV



Coq.



I-B



I-A



I-A



36

31

2-A 32



3



I-C



4



2



6



2



Amoco



5



12

7

8



ROAD & TANK BATTERY
LOCATION

EXHIBIT 3

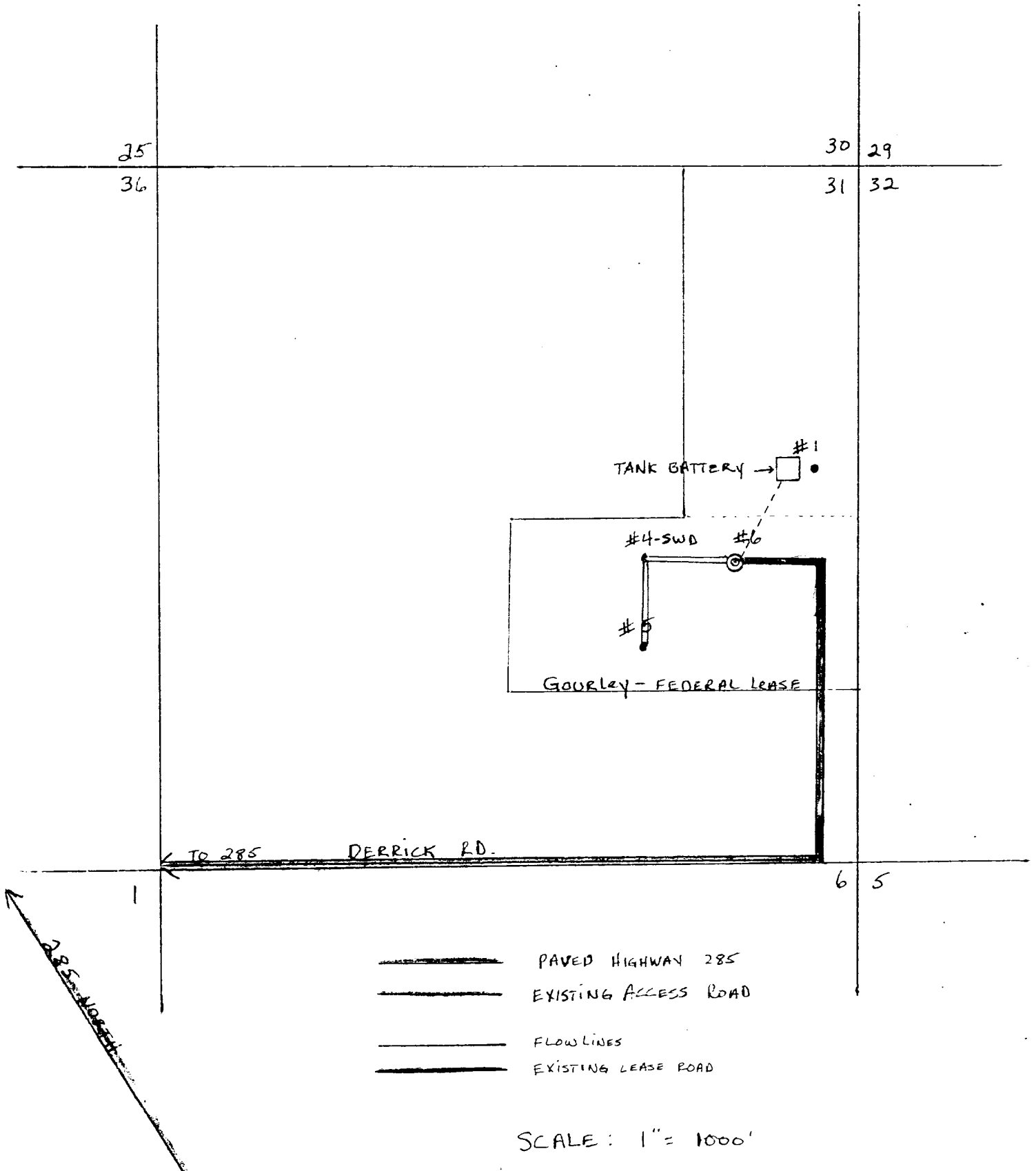
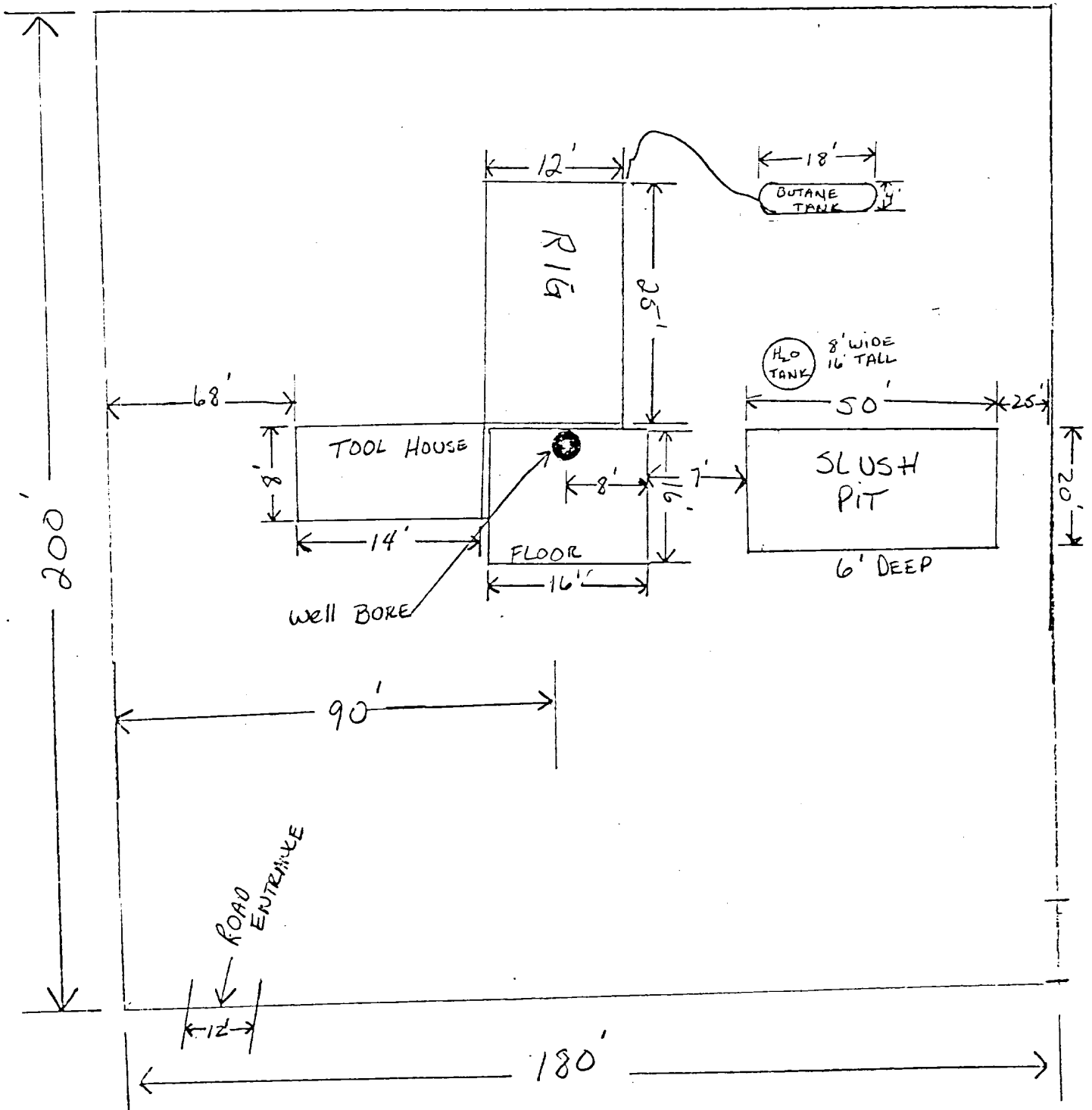


EXHIBIT 4
FIG. 1A



FOOTING IS APPROXIMATE

EXHIBIT 5

ROAD LOCATION & POWER LINE POLES



EXISTING LEASE ROAD



POWER LINE POLES

