

(May 1972)

NMCC COPY

(Other instructions on  
reverse side)

Budget Bureau No. 42-R1425.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

30-015-22388

**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  
Box 953, Midland, Texas 797024. LOCATION OF WELL (Report location clearly and in accordance with any State requirements\*)  
At surface 2310 FNL and 330 FEL of Section 31

At proposed prod. zone 2310 FNL and 330 FEL of Gourley Lease Lines

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
3 miles W of Otis10. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT. 330'  
(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. none16. NO. OF ACRES IN LEASE  
16019. PROPOSED DEPTH  
2600'17. NO. OF ACRES ASSIGNED  
TO THIS WELL 4020. ROTARY OR CABLE TOOLS  
Cable Tools21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
3041 GL22. APPROX. DATE WORK WILL START\*  
Jan 15, 1978

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10 3/4"	8 5/8" J55 New	24#	400±	250 sx Class C 2% CaCl circulated to surface
8"	4 1/2" J55 New	9.5#	2600±	125sx Class C 2% CaCl

Surface formation: Quaternary terrace deposits.

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

Estimated Geological Tops: Base of Salt - 2130', Top Delaware Sand - 2440', Top Delaware Lime - 2350'.

Estimate will encounter water between 70-85', Estimated to encounter oil at approx. 2430'-2450'.

Pressure control equipment specifications- Cable Tool Drilling Rig utilizing Blind Ram Cable Tool Control Head.

Logging - Gamma Ray Log, no coring and no drill stem test.

Anticipate no abnormal pressures and no anticipation of hydrogen sulfide gas.

Anticipated starting date - January 15, 1978, duration - approx. 28 days.

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 depth. Give blowout preventer program, if any.

24. SIGNED James H. C. Ritchie, Jr. TITLE Field Manager DATE 12-9-77  
(This space for Federal or State office use)PERMIT NO. \_\_\_\_\_ APPROVAL DATE DEC 30 1977APPROVED BY Joe M. Lara TITLE ACTING DISTRICT ENGINEER DATE DEC 30 1977  
CONDITIONS OF APPROVAL, IF ANY:THIS APPROVAL IS RESCINDED IF OPERATIONS  
ARE NOT COMMENCED WITHIN 3 MONTHS.EXPIRES MAR 30 1978

\*See Instructions On Reverse Side

RECEIVED

DEC 30 1977

O. C. C.

ARTESIA, OFFICE

RECEIVED  
DEC 15 1977  
U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

**NL 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>Orla Petco, Inc.</b>			Lease <b>Gourley-Federal</b>		Well No. <b>1</b>
Unit Letter <b>4</b>	Section <b>31</b>	Township <b>22-S</b>	Range <b>28-E</b>	County <b>Eddy County</b>	
Actual Footage Location of Well: <b>2310</b> feet from the <b>North</b> line and <b>330</b> feet from the <b>East</b> line					
Ground Level Elev. <b>3045'</b>	Producing Formation <b>Delaware Sand</b>		Pool <b>Undesignated ( Delaware )</b>		Dedicated Acreage: <b>40</b> Acres

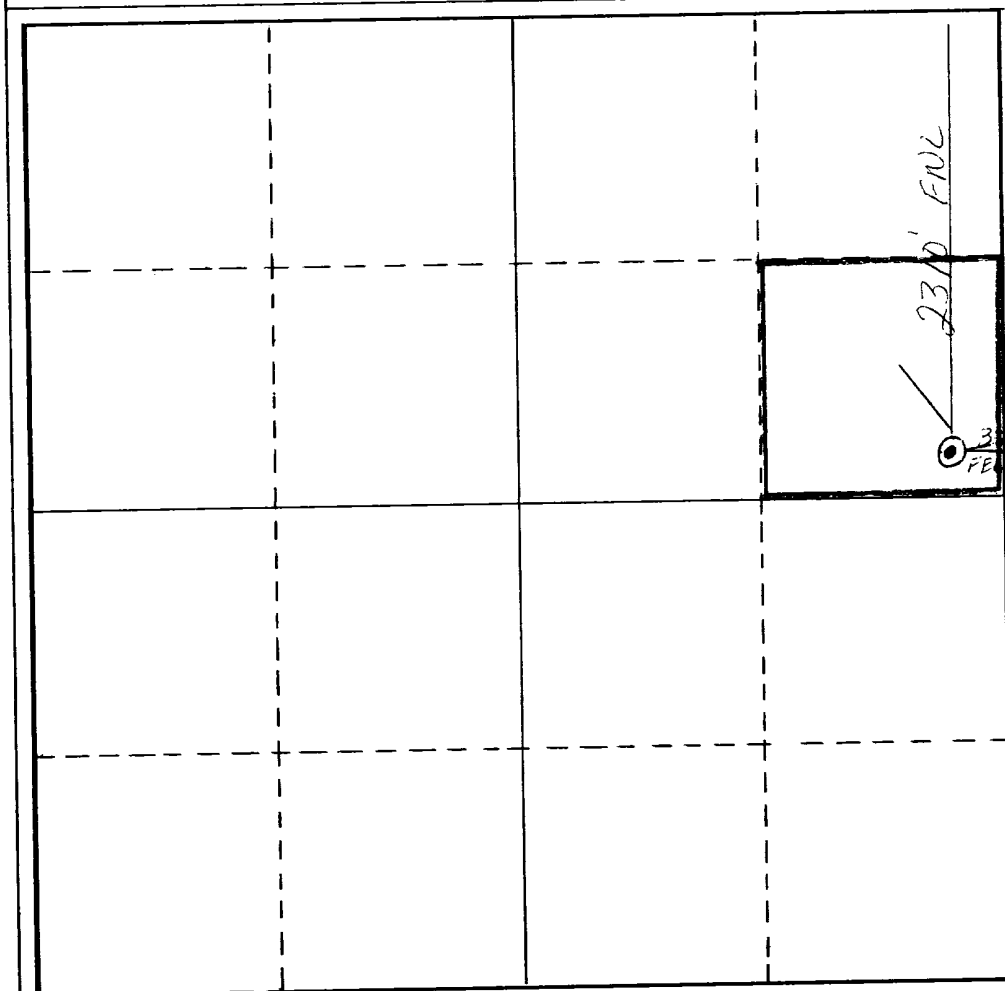
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the owner thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated 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.

**RECEIVED  
DEC 20 1977  
U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO**



**CERTIFICATION**

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

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

Position  
**Field Manager**

Company  
**Orla Petco, Inc.**

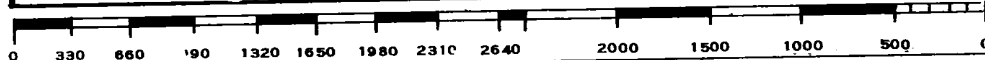
Date  
**December 10, 1977**

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  
**Dec 14, 1977**

Registered Professional Engineer and/or Land Surveyor  
*[Signature]*

Certificate No.  
**N.M.L.S. 224**



DEVELOPMENT PLAN FOR SURFACE USE

OPERATOR: Orla Petco, Inc.  
LEASE NAME: Gourley-Federal  
WELL NO: 1  
FEDERAL LEASE NO: NM 26684  
NO. OF ACRES: 160  
ACREAGE DESCRIPTION: E/2 NE/4, N/2 SE/4

PROPOSED WELL LOCATION: 2310' FNL and 330' FEL of Section 31  
2310' FNL and 330' FEL of lease lines

OPERATOR'S FIELD REPRESENTATIVE:

Name: Harry Sindorf  
Title: Drilling Supervisor  
Address: Vista del Sol Apartments  
1002 N. Mesa, Carlsbad, N. M. 88220  
Telephone: 505 885-9978

INFORMATION REQUESTED BY USGS:

1. Location of Existing Roads:  
See Exhibit 1 for the location of the existing roads in the vicinity of the proposed drilling location.
2. Planned Access Roads:  
Road Location: See Exhibit 1 ( Amended )  
  
Road Length: 600'  
  
Road Width: 12'  
  
Road Surface: Compacted crushed caliche rock
3. Location of Existing Wells:  
  
See Exhibit 2 for all wells within a one mile radius of the proposed drilling location.
4. Lateral Roads to Well Locations:  
  
See Exhibit 1 for the lateral roads to the location of the proposed drilling location. The existing access road (Exhibit 1) is a paved county road.
5. Location of Tank Batteries and Flowlines:  
  
See Exhibit 3 for a plat showing the proposed location of the tank battery and flowlines associated with the proposed well in the event production is established.

6. Water Supply for Drilling Operations:

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 bbl total) for a Cable Tool rig.

Transport Method: Truck

Transport Route: Access road to drillsite - Exhibit 1, for access road and proposed road.

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

Additional Surface Requirements for Waste Disposal:

The small amount of drilling fluids needed will be allowed to evaporate in the slush pit.

8. Location of Camps: Not applicable concerning the proposed well.

9. Location of Airstrip: Not applicable concerning the proposed well.

10. Rig Layout: See Exhibit 4 which gives the position of the rig and the layout of the drillsite. The drilling pad will be constructed using compacted crushed caliche rock, if needed.

11. Plans for Restoration of Surface:

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

Other:

12. General Description of Topography:

Topsoil: Terrace Gravel

Vegetation: Random clumps of grass and mesquite bushes.

Steep Hills: None

Gullies: None

Cut and fill requirements: None

Other significant Data: The Pecos River is north and East of the lease. The closest point of the Pecos River to the location is 3/4 of a mile north of the location. A small manmade pond is in the NW/4 of Section 5, T-23-S, R-28-E.

Wellsite is Federally owned surface land. Closest building is approx. 1/2 miles SE. It is an occupied residence.

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 Hopi Drilling Company  
ORLA PETCO, INC. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

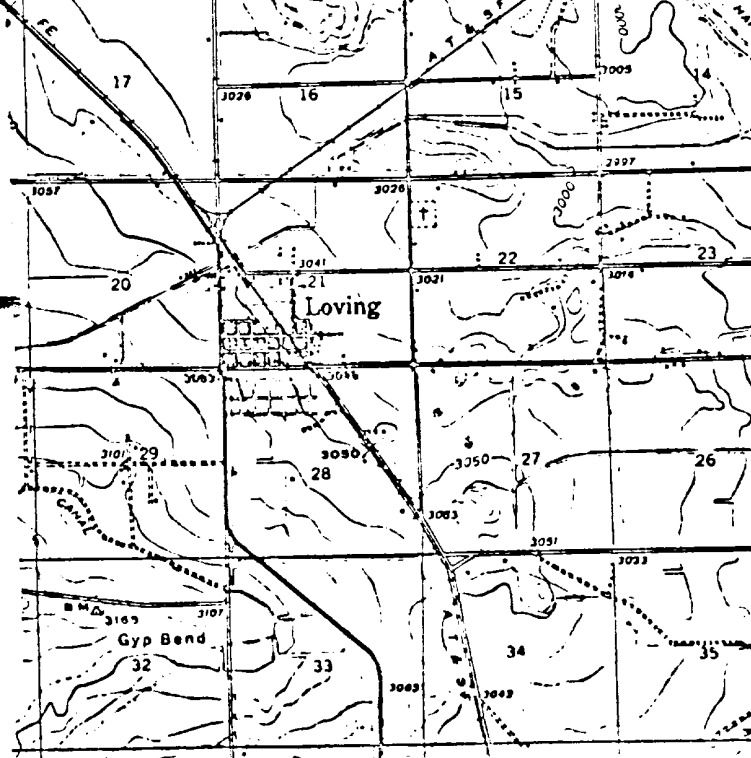
12-14-77  
Date

James H. C. Patchine, Jr.  
Name  
Drilling Supervisor FIELD MANAGER  
Title



"EXHIBIT 1"  
TOPOGRAPHICAL MAP AND EXISTING  
AND PROPOSED ROADS  
Scale: 1" = 1 mile

- Paved Highway 285
- Existing Access Roads
- Proposed new road ( 600' Long, 12' wide )
- Proposed Drillsite location
- ORLA PETCO, INC. - GOURLEY-FEDERAL



23

2

ORLA PETCO, INC.

20

Exhibit No. 2

LAND MAP

Existing Wells - 1 mile  
radius

GOURLEY FEDERAL LEASE

E/2 NE/4 N/2 SE/4

T-22-S, R-28-E, Sec 31

EDDY COUNTY, N.M.

160 acres

1" = 2000'

22

26

25

30

29

35

36

31

32

← OTIS  
(3 miles)

40 ac.

ORLA  
PETCO,  
INC.  
GOURLEY FEDERAL

PROPOSED  
LOCATION  
(DEVELOPMENT WELL)

2

1

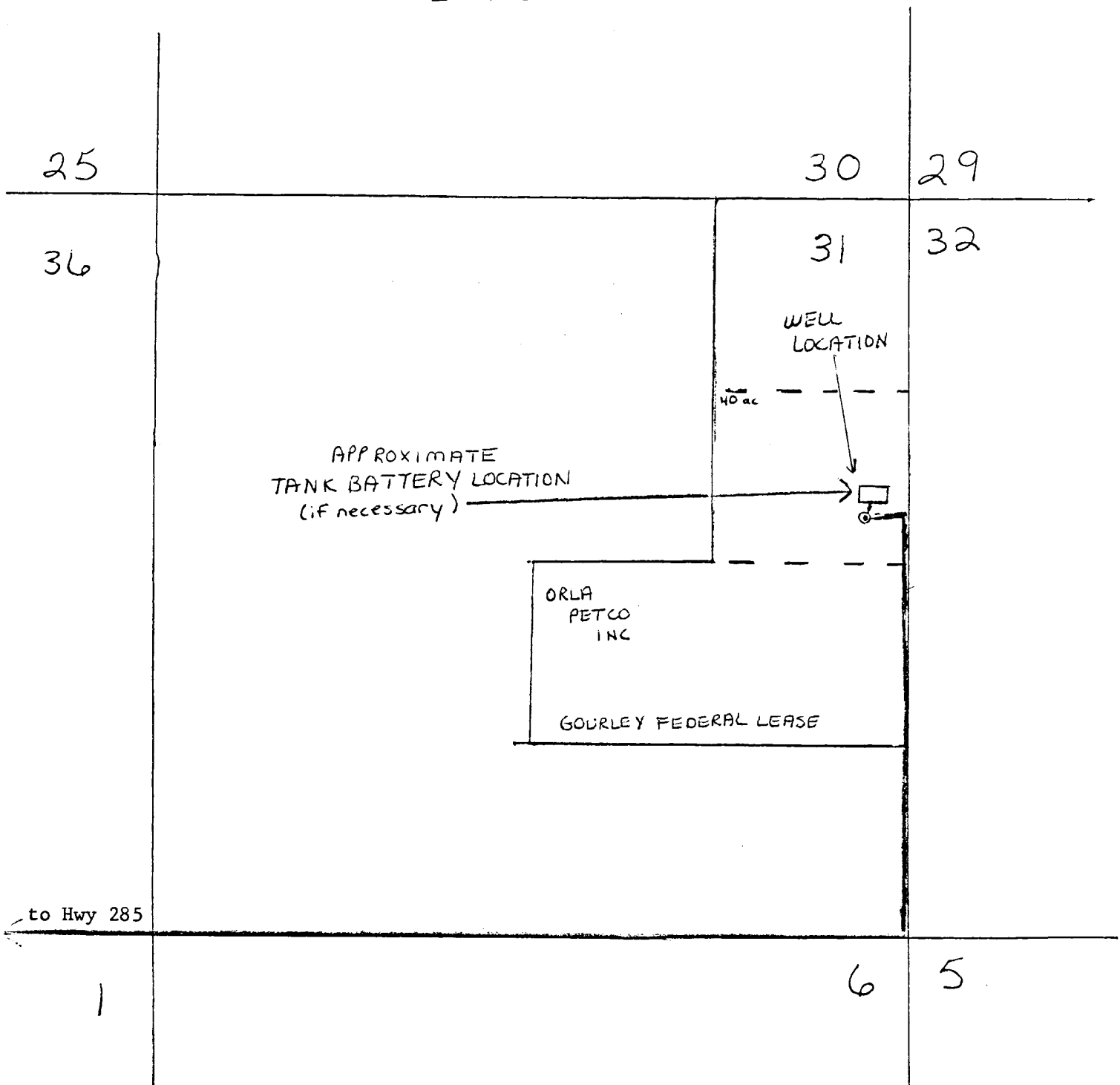
6

5

2

LOVING

# TANK BATTERY LOCATION EXHIBIT 3



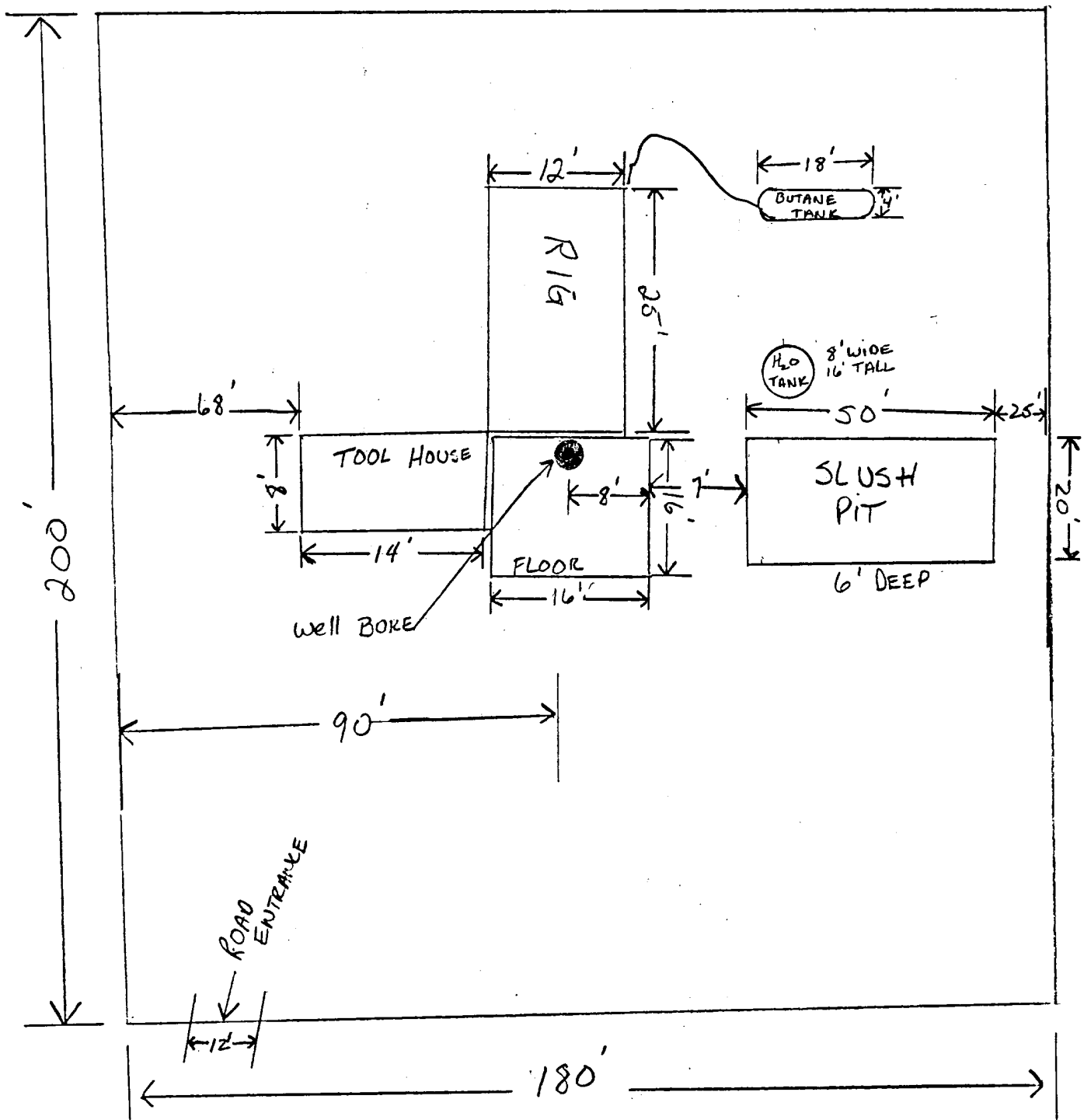
285 Hwy

- Paved Highway 285 to Carlsbad
- Existing Access Road
- Proposed new road (2980' Long, 12' Long)  
Approx.
- Buried Flowline (if necessary)

1" = 1000'



EXHIBIT NO. 4  
RIG LAYOUT  
GOURLEY-FEDERAL No. 1  
ORLA PETCO, INC.



FOOTAGE IS APPROXIMATE