

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

SEP 2 1979

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 1383, Midland, Texas 79702

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

At surface

1980' FSL & 1980' FWL of Sec. 23, T-14S, R-29E.

At proposed prod. zone

Same

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

20 miles East of Hagerman, N.M.

15. DISTANCE FROM PROPOSED*

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

1980' FWL

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

NONE

16. NO. OF ACRES IN LEASE

320 ac.

19. PROPOSED DEPTH

2000'

17. NO. OF ACRES ASSIGNED
TO THIS WELL20. ROTARY OR CABLE TOOL
Cable Tools

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

3789.6' G.L.

22. APPROX. DATE WORK WILL START*

September 20, 1979

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10"	8 5/8"	23-24#	350'	250 sx of Class C cem. 2% CaCl.
8"	4 1/2"	9.5#	2000'	500 sx of Class C cem.

More Information

Surface Formation: Quaternary terrace deposits.

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

Estimated Geological Tops: Base of Anhydrite- 1975', Top of Dolomite- 1980'. Top of Queen Sand- 1985'.

Pressure Control Equipment specifications: Blind Ram Cable Tool Cor

Estimate will encounter water between 65-115' - Estimate will encour

Logging: Gamma-Ray Sonic Log, no coring and no drillstem testing.

Anticipate no abnormal pressure and no anticipation of Hydrogen Sulfide Gas.

Anticipated starting date: September 20, 1979.

RECEIVED

SEP 12 1979

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 B. C. Ritchie, Jr.

TITLE

Vice-President

DATE

September 11, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

9-21-79

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

N MEXICO OIL CONSERVATION COMMISS
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-114
 Superseded 6-1-78
 Effective 1-1-75

All distances must be from the outer boundaries of the Section.

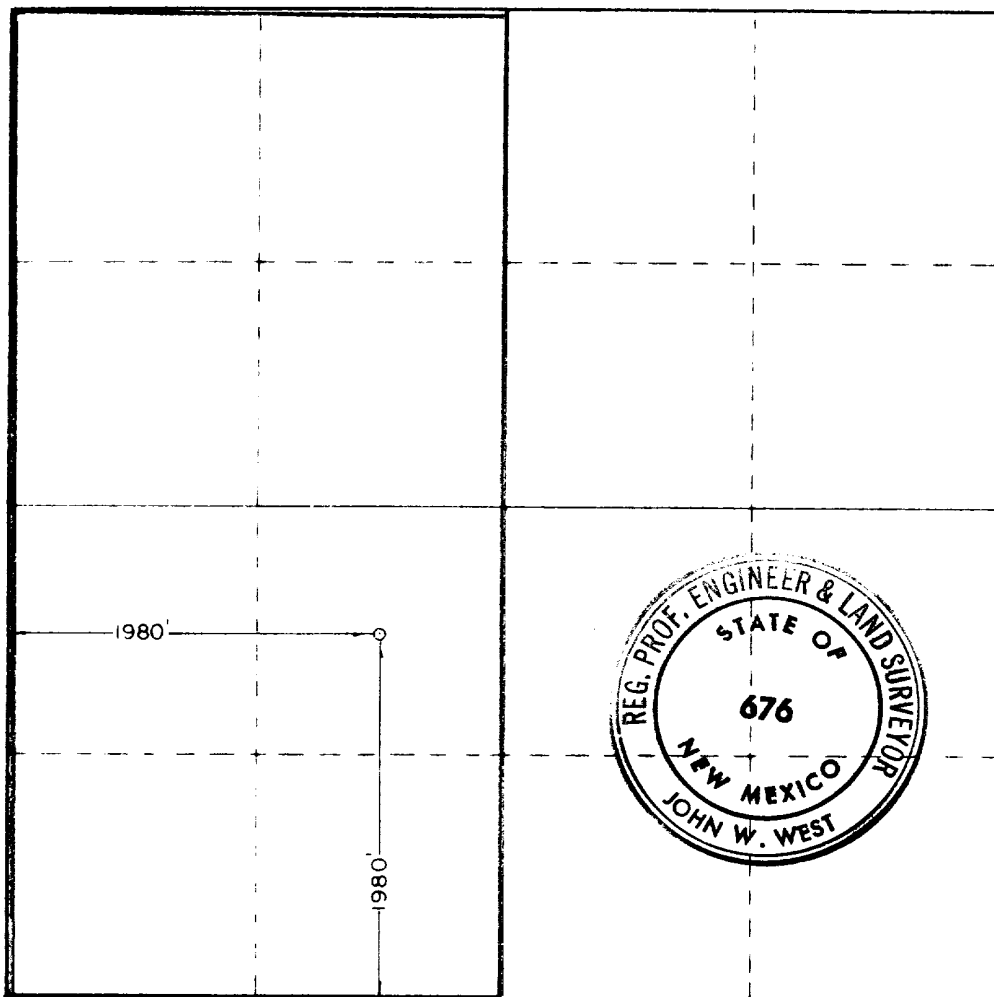
Operator ORLA PETCO, INC.			Lease HENDERSON FED.			Well No. 1		
Section K	Section 23	Township 14 SOUTH	Range 29 EAST	County CHAVES				
Actual Point Location of Well:								
1980 feet from the SOUTH line and			1980 feet from the WEST line					
Ground Level Elev. 3789.6		Producing Formations Queens		Foot and Double L (Queen) Assoc			Dedicated Acreage 320	

1. Outline the acreage dedicated to the subject well by corner points or hole 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 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 (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

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.
 James M.C. Ritchie, Jr.

Vice-President

Orla Petco, Inc.

August 20, 1979

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

AUGUST 17TH, 1979

Registered Professional Engineer
 and Land Surveyor

Ronald J. Eidson
 Certificate No. **John W. West 676**
Ronald J. Eidson 3239



United States Department of the Interior

RECORD

GEOLOGICAL SURVEY
P. O. Drawer U
Artesia, New Mexico 88210

SEP 24 1979

U.S. G.S.
ARRESTED, OFFICIAL

September 21, 1979

Orla Petco, Inc.
P. O. Box 1383
Midland, Texas 79702

Gentlemen:

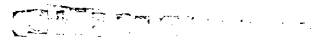
ORLA PETCO, INC.
Henderson Federal No. 1
1980 FSL 1980 FWL Sec. 23 T.14S R.29E
Chaves County Lease No. NM 10466

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 2,000 feet to test the Queen formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
5. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,



Albert R. Stall
Acting District Engineer



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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b. TYPE OF WELL

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WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Orla Petco, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 1383, Midland, Texas 79702

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

At surface

1980' FSL & 1980' FWL of Sec. 23, T-14S, R-29E.

At proposed prod. zone

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2000'

20. ROTARY OR CABLE TOOLS

Cable Tools

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

3789.6' G.L.

22. APPROX. DATE WORK WILL START*

September 20, 1979

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10"	8 5/8"	23#	350' +	250 sx of Class C cement 2% CaCl
8"	4 1/2"	9.5#	2000' +	500 sx of Class C cement.

We propose to drill a 10" hole to 350 + and set 8 5/8" casing and cement with 250 sx of Class C cement. Wait on cement for 18 hours and resume drilling with a 8" bit to a total depth of approximately 2000'. At TD we propose to run 2000' + of 4 1/2" 9.5# casing and cement with 500 sx of Class C cement. Both strings of casing will have the cement circulated to surface.

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SEP 7 1979
U.S. GEOLOGICAL SURVEY
ALBUQUERQUE, 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

James M. C. Ritchie Jr.

TITLE

Vice-President

DATE

September 5, 1979

(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

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

Orla Petco, Inc.
Henderson-Federal No. 1, Lease No. NM-10466
1980' FSL & 1980' FWL of Sec. 23, T-14S, R-29E,
N.M.P.M., Chaves 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.

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SEP 7 1979
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

2. PLANNED ACCESS ROADS:

A. Length and Width:

The length of the proposed access road to the location will be approximately 1300' long and 12' wide. See Exhibit 3 for the plat showing approximate location of access road.

B. Turnouts:

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

C. Culverts:

There will be not culverts in the area of the proposed well.

D. Cuts and Fills:

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

E. Gates, Cattleguards:

There are no cattleguards or gates to be used on the access

3. LOCATION OF EXISTING WELLS:

See Exhibit 2 for the location of the existing wells within a one mile radius of the proposed drilling location.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

See Exhibit 3 for the plat showing the proposed location of the pipeline associated with the proposed well in the event of production.

5. LOCATION AND TYPE OF WATER SUPPLY:

Type of Water Supply: City of Roswell water. Roswell water station.

Transport Method: Truck

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

6. SOURCE OF CONSTRUCTION MATERIALS:

No construction materials will be needed to make location. We plan to just scrape off the topsoil and level the ground enough to handle a Cable Tool Rig.

7. METHODS OF HANDLING WASTE DISPOSAL:

Cuttings: Cuttings will be covered when the plastic lined slush pit is leveled. Pit will be covered with 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

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, reseeding of the drillsite will not be attempted.

Seed Mixture: Not applicable

11. OTHER INFORMATION:

A. Topography: The proposed location is situated on a low ridge due west of the Llano Estacado. In general, the project area is distinguished by low hummocks which typically average .50 m or less.

B. Soil: Associated soils tend to be silty loams and silty clay loams belonging to the Typic Calciorthid subgroup. Inclusions consist of rare chert gravels and more frequent caliche nodules.

C. Flora and Fauna:

See Archaeological Clearance Report

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

E. Residences and Other Structures:

There are no residences or any other structures in the area.

F. Land Use: Grazing

G. Surface Ownership: The surface is on Federal Land owned by the Federal Government

12. OPERATOR'S REPRESENTATIVE:

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

Bucky Ritchie
One Marienfeld Place
Suite # 155
Midland, Texas 79701
Office Phone: (915) 684-4762
Home Phone: (915) 684-8797

Harry Sindorf
1002 N. Mesa
Vista del Sol Apt. 16
Carlsbad, New Mexico 88220
Home Phone: (505) 885-9978

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 Orla Petco, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date September 4, 1979

James H. C. Ritchie, Jr.
Name

Field Superintendent
Title

EXIHIBIT 1
 TOPOGRAPHICAL MAP SHOWING
EXISTING AND PROPOSED ROADS

-  Paved State Route 31
-  Existing Access Roads
-  New Proposed Access Road
-  Drilling Location (Proposed)

Scale: 1"= 2000'

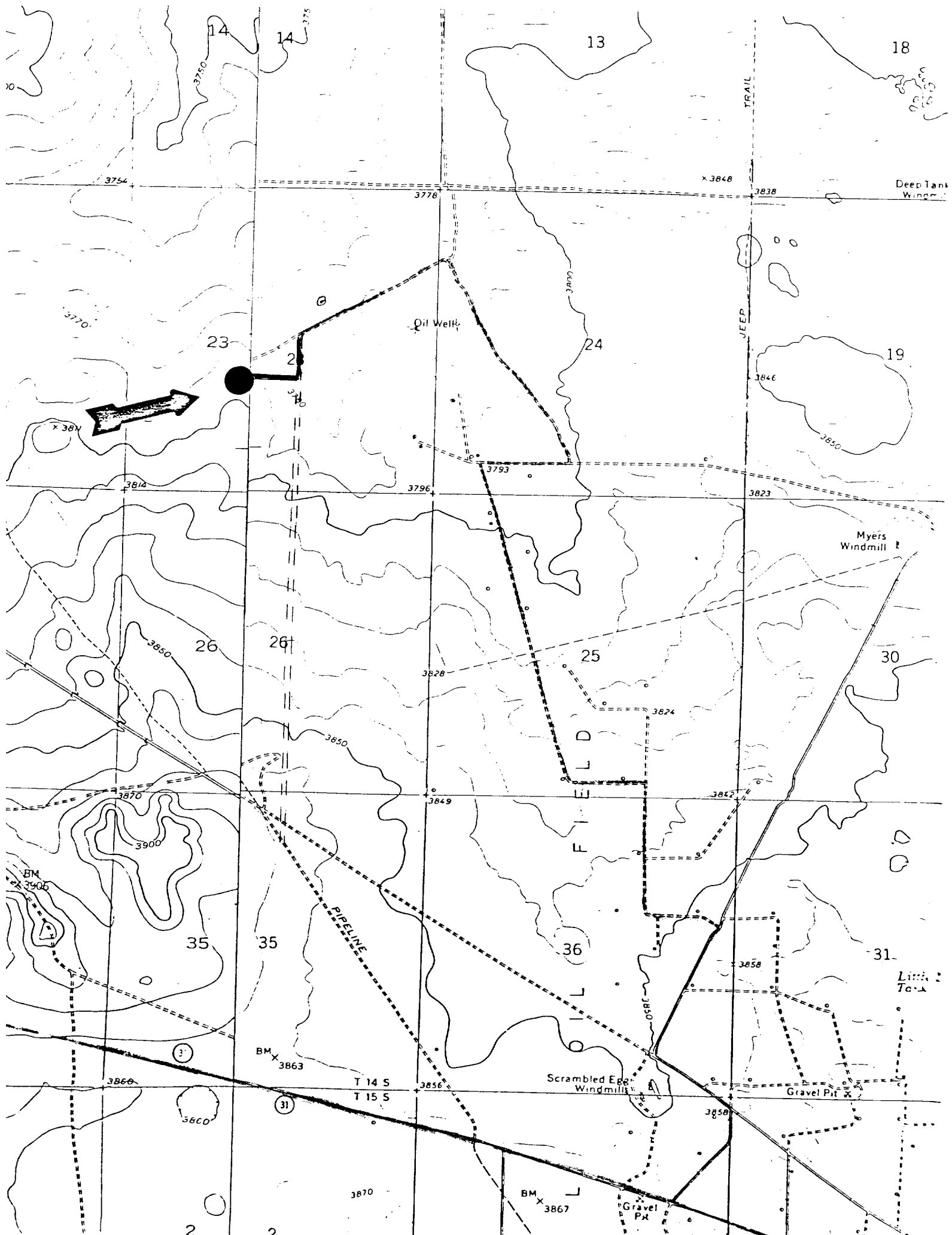
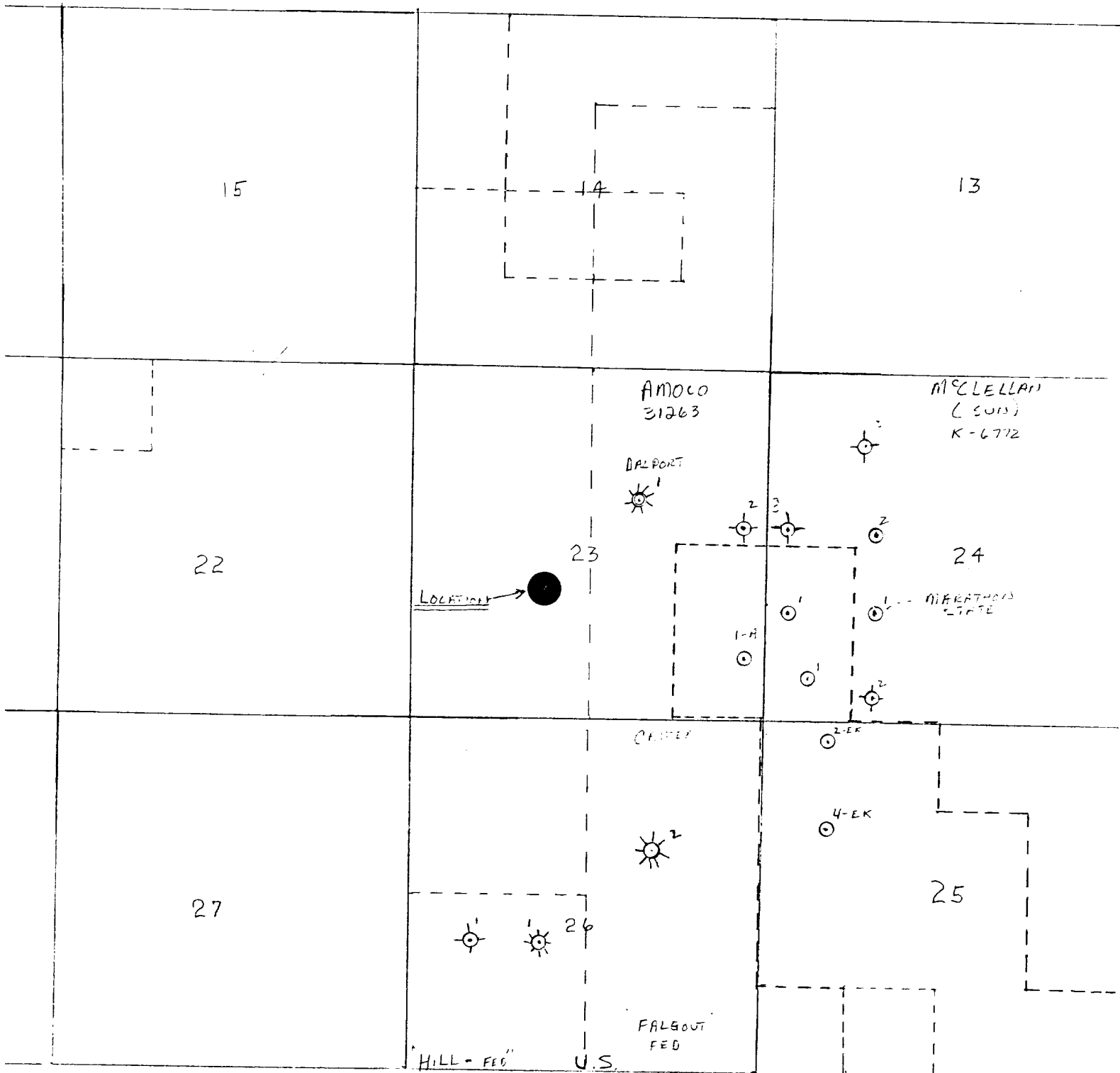


EXHIBIT No. 2

EXISTING WELLS - 1 mile radius



Scale 1"=2000'

EXHIBIT 3

ROAD & PIPELINE LOCATION

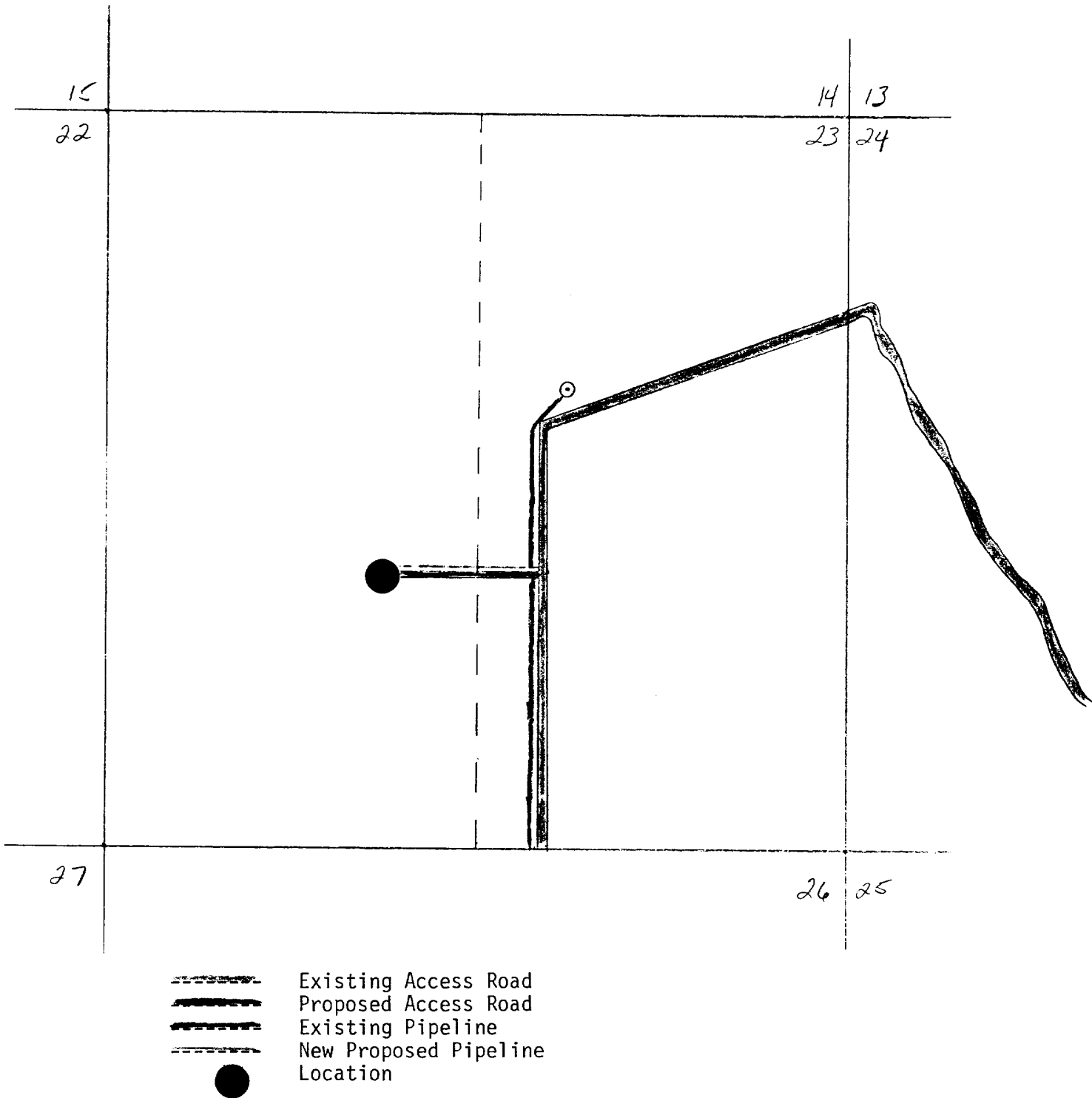
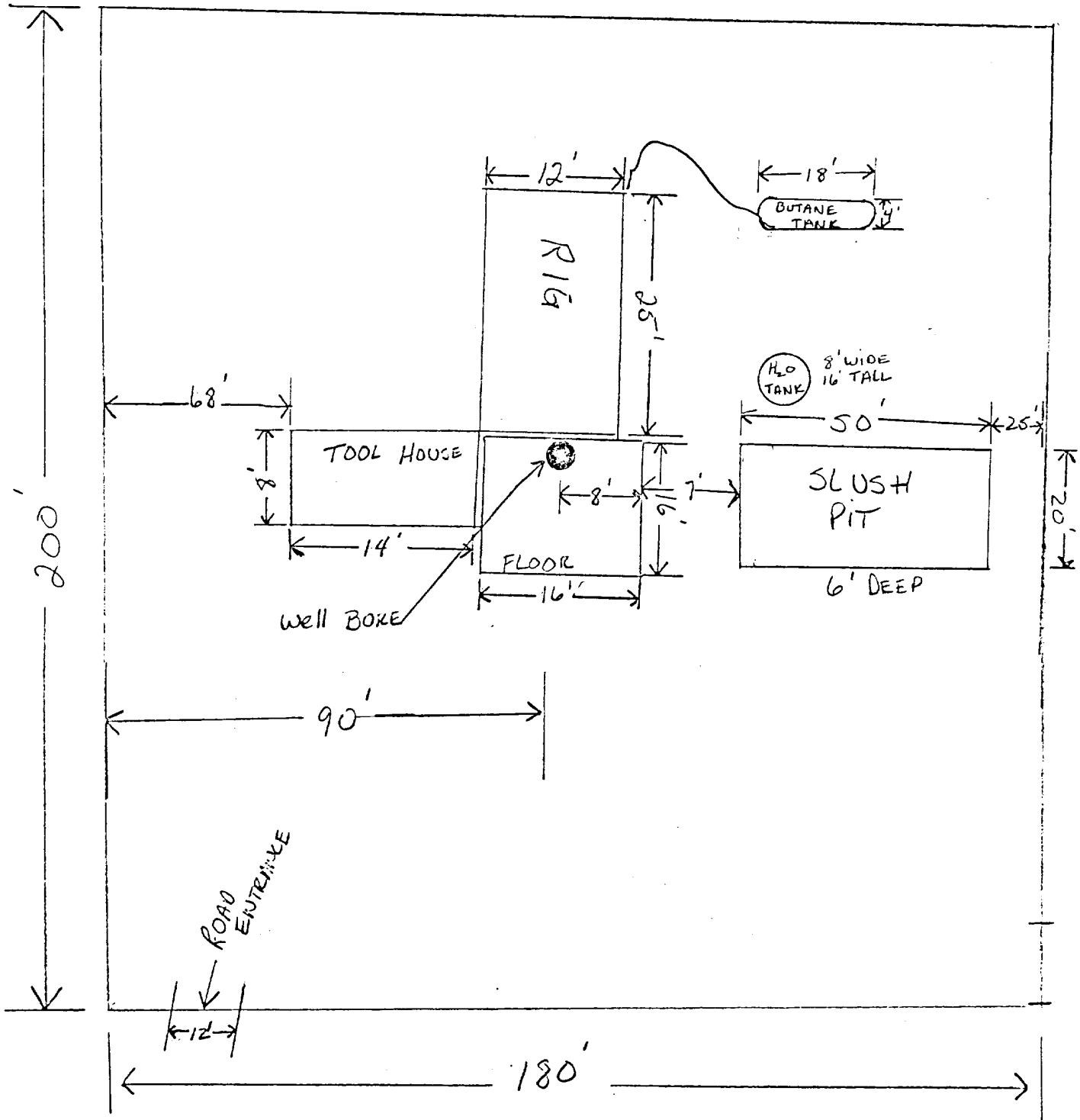


EXHIBIT 4
WELLSITE LAYOUT



FOOTAGE IS APPROXIMATE