Form 9-331 C
(May 1963)

COPY TO O. C. C.

SUBMIT IN PLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-025-26643

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
GULF OIL CORPORATION

3. ADDRESS OF OPERATOR
P.O. Box 670, Hobbs, NM 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
1980' FSL & 660' FEL
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
NM-01917

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Hanagan "D" Federal

9. WELL NO.
~~1~~ 2

10. FIELD AND POOL, OR WILDCAT
Double X Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Unit I
Section 12, T24S, R32E

12. COUNTY OR PARISH
Lea

13. STATE
NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 30 miles west of Jal, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
16. NO. OF ACRES IN LEASE
640
17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
19. PROPOSED DEPTH
5100'
20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3564' GL
22. APPROX. DATE WORK WILL START*
February 15, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12¼"	8-5/8"	24#	1220'	700 sx - circulated
7-7/8"	5½"	15.5#	5100	Volume to be determined by caliper log

NOTE: See attached BOP Drawing #3

Circulating Media:
0' - 1220' Fresh water spud mud
1220' - 4800' Saturated brine water
4800' - 5100' Brine water polymer, filtrate less than 5cc's

RECEIVED
JAN 10 1980
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 R. C. Anderson TITLE Area Production Manager DATE 1-9-80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

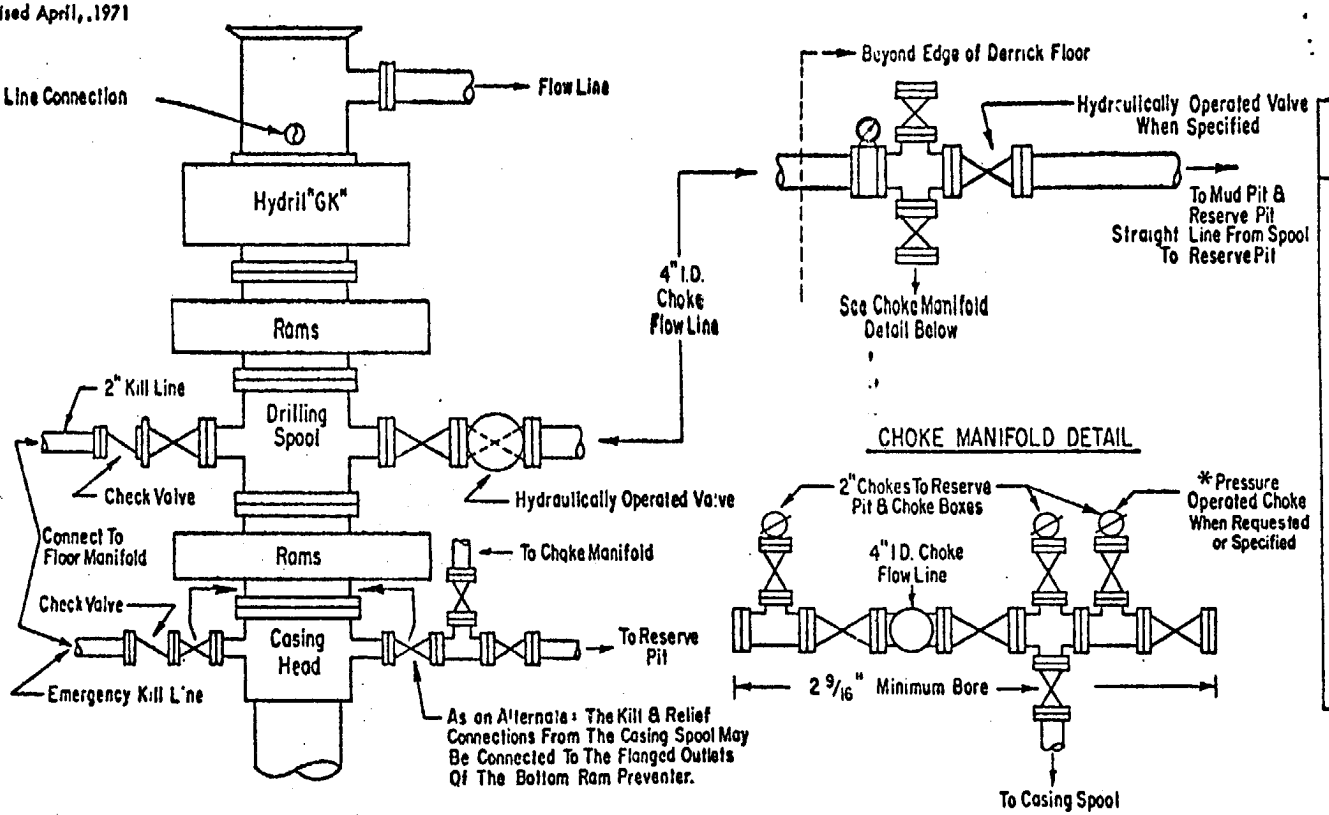
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
JAN 21 1980
ACTING DISTRICT ENGINEER

*See Instructions On Reverse Side

DRAWING NO.3
Revised April, .1971



ADDITIONS – DELETIONS – CHANGES SPECIFY

3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated, a Hydril "GK" preventer; valves; chokes and connections as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and kill line, except when air or gas drilling. The substructure height shall be sufficient to install a rotating blowout preventer.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within _____ minutes. Also, the pumps are to be connected to the hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. With the charging pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within _____ seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least _____ percent of the original. (3) When requested, an additional source of power, remote and equivalent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Legion No.38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

* To include derrick floor mounted controls.

N 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	Lease	Well No.
Gulf Oil Corp.	Hanagan "D" Federal	1

Unit Letter	Section	Township	Range	County
I	12	24 South	32 East	Lea

Actual Footage Location of Well:
1980 feet from the South line and 660 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3564.1	Delaware	Double X Delaware	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

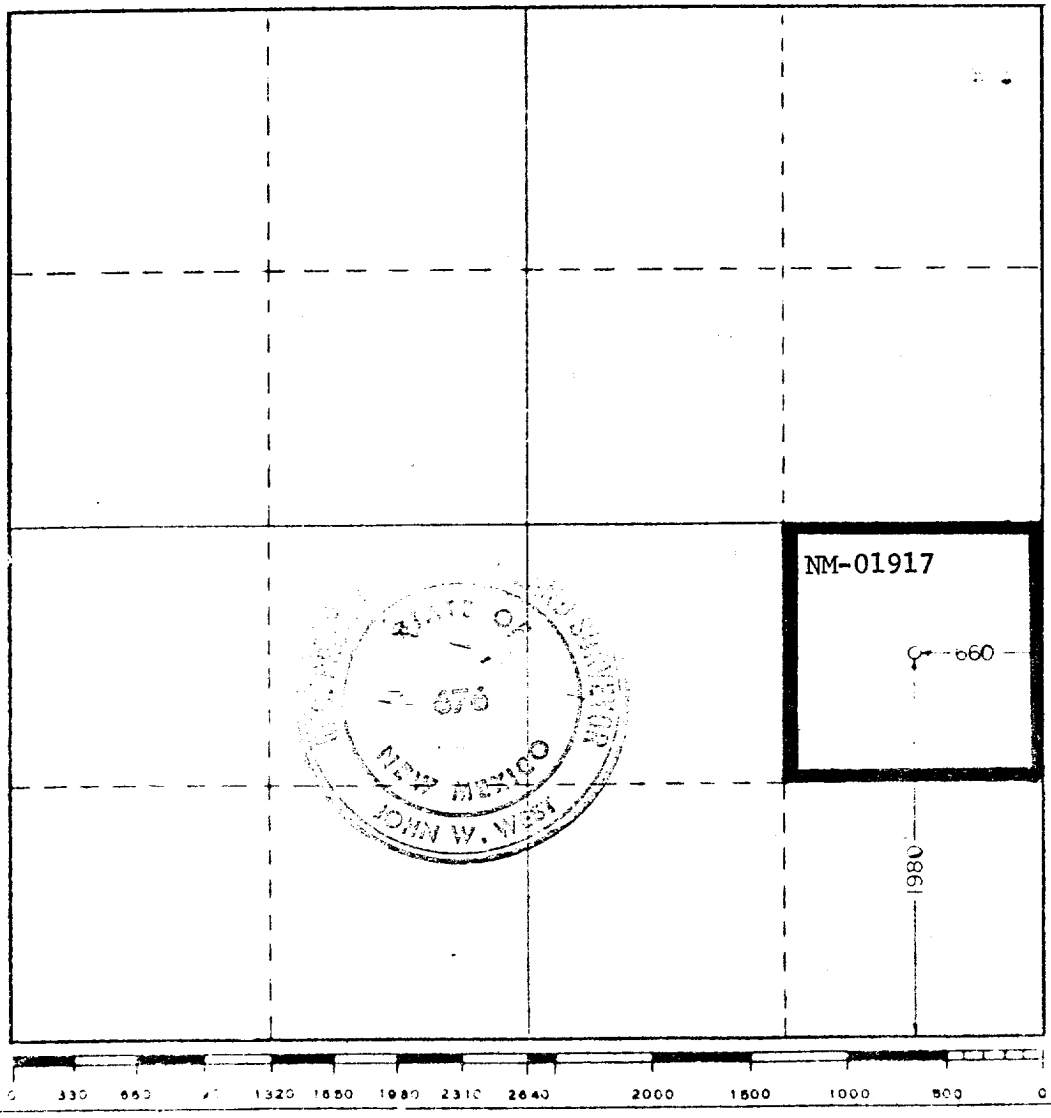
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.

R. C. Anderson

Name: R. C. Anderson

Position: Area Production Manager

Company: Gulf Oil Corporation

Date: 1-9-80

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: January 2, 1980

Registered Professional Engineer and/or Land Surveyor

John W. West

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

Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

January 9, 1980

P. O. Box 670
Hobbs, NM 88240

U. S. Department of the Interior
Geological Survey
P.O. Box 1157
Hobbs, New Mexico 88240

Gentlemen:

The following is Gulf Oil Corporation's plan for surface restoration associated with the drilling of our Hanagan "D" Federal Well #1 to be located 1980 feet from the south line and 660 feet from the east line of Section 12, Township 24 South, Range 32 East, Lea County, New Mexico.

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 cleaned of all trash and junk to leave the well site in as an aesthetically pleasing condition as possible. Any unguarded pits containing fluids will be fenced until they are filled.

After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and the location will be cleaned. The pit area, well pad and all unneeded access roads will be ripped to promote revegetation. Rehabilitation should be accomplished within ninety (90) days after abandonment.

Yours very truly,

R. C. Anderson

RLV:ctw

Attachments

Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

January 9, 1980

P. O. Box 670
Hobbs, NM 88240

Re: Application for Permit to Drill
Proposed Hanagan "D" Federal #1
Lea County, New Mexico

U. S. Geological Survey
P.O. Box 1157
Hobbs, New Mexico 88240

Gentlemen:

We are submitting the information requested in NTL-6 which should accompany application for permit to drill.

Well: Hanagan "D" Federal Well #1

1. Location: 1980' FSL & 660' FEL of Section 12, T24S, R32E, Lea County, New Mexico.

2. Elevation of Unprepared Ground: 3564' GL.

3. Geologic Name of Surface Formation: Quarternary Alluvium.

4. Type Drilling Tools: Rotary.

5. Proposed Drilling Depth: 5100'

6. Estimated Tops of Geologic Markers: Lamar 4930'; Delaware 4960'

7. Estimated Depths at Which Anticipated Gas or Oil-Bearing Formations Expected: 4940' to 5100' - Delaware

8. Casing Program and Setting Depths:

	Size	Weight	Grade	Setting Depth
Surface	8-5/8"	24#	K-55	1220'
Production	5½"	15.5#	K-55	5100'

9. Casing Setting Depth and Cementing Program:

   a. Surface casing will be 8-5/8" casing set at 1220' and cemented with 350 sacks of lightweight cement plus 350 sacks of Class "C" Neat cement with 2% $CaCl_2$.

-Continued-

9. Casing Setting Depth and Cementing Program (continued):

   b. Production casing well be 5½" casing set at 5100' and cemented with Class "H" cement with 1.0% friction reducer and 0.5% fluid loss additive. Cement volume will be determined by caliper log.

10. Pressure Control Equipment: The minimum specifications for pressure control equipment can be seen on the attached Drawing Number 3 of Gulf's blowout preventer hook-up for 3000 psi working pressure.

11. Circulating Media:

0' - 1220'	Fresh water spud mud
1220' - 4800'	Saturated brine water
4800' - 5100'	Brine water polymer, filtrate less than 5cc's

12. Testing, Logging and Coring Programs:

   a. Formation testing may be done at any depth where samples, drilling rate or log information indicate a possible show of oil or gas.

   b. Open hole logs will be run at total depth.

   c. No cores are anticipated.

13. Abnormal Pressure or Temperature and Hydrogen Sulfide Gas: We do not anticipate any abnormal pressure or temperature; however, BOP's with remote control and choke manifold as shown on Drawing Number 3 will be installed prior to drilling below surface casing.

   The presence of hydrogen sulfide is not anticipated.

14. Anticipated Starting Date: Drilling operations should begin approximately February 15, 1980.

15. Other Facets of the Proposed Operation: None

Yours very truly,

R. C. Anderson

R. C. Anderson
Area Production Manager

RLV:ctw

Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

January 9, 1980

P. O. Box 670
Hobbs, NM 88240

Re: Surface Development Plan for
Proposed Hanagan "D" Federal #1
1980' FSL & 660' FEL, Section 12,
T24S, R32E, Lea County, New Mexico

U. S. Geological Survey
P.O. Box 1157
Hobbs, New Mexico 88240

Gentlemen:

The surface use and operations plan for the proposed well are as follows:

1. Existing Roads

   a. Exhibit "A" is a portion of a general highway map showing the location of the proposed well as staked. Go west out of Jal, New Mexico, on Highway 128 25 miles and turn right onto the dirt road. Go northwest 2 miles and turn left. After going ½ mile east, turn to the south for ¼ mile to the Wimberly #3. Turn back to the west for ¼ mile to the Wimberly #2 and head south ¼ mile. From this point, a road will be built 1300 feet east to the proposed location.

   b. Exhibit "B" is a plat showing all existing roads within a one-mile radius of the well site.

2. Planned Access Roads

   a. Length and Width: The new road will be 12' wide and approximately 1300' long. The new road is color coded red on Exhibits "A" and "B".

   b. Turnouts: None required

   c. Culverts: None required

   d. Cuts and Fills: None required

   e. Gates and Cattle Guards: None required

-Continued-

3. Location of Existing Wells

The nearest producing wells are the Wimberly "12" #3, located approximately ¼ mile north of the proposed location; the Wimberly #1, located ½ mile south of the location.

4. Tank Batteries, Production Facilities and Lease Pipe Lines

Should production be encountered, the tank battery and other required production equipment will be located on the well pad. All production lines will be constructed on the well pad above ground. Refer to Exhibit "C".

5. Water Supply

Water for drilling will be purchased from a supplier and transported by truck to the well site over the existing roads shown in Exhibits "A" and "B".

6. Source of Construction Material

The caliche for the drilling pad will be obtained from an existing caliche pit located in SW/4 of the NE/4 of Section 7, T24S, R33E.

7. Methods of Handling Waste Disposal

a. Drill cuttings will be disposed of in the drilling pits.

b. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.

c. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.

d. Current laws and regulations pertaining to the disposal of human waste will be complied with.

e. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24" of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "C".

f. All trash and debris will be buried or removed from the well site within thirty (30) days after finishing drilling and/or completion operations.

8. Ancillary Facilities: None required

-Continued-

9. Well Site Layout

a. Exhibit "D" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit and location of major rig components.

b. No cuts or fills will be necessary.

c. Reserve pit will be plastic lined.

d. The well site and work area (400' x 400') have been staked.

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 location will be cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible.

b. Any unguarded pits containing fluids will be fenced until they are filled.

c. After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and location will be cleaned. The pit area, well pad and all unneeded access road will be ripped to promote revegetation. Rehabilitation should be accomplished within ninety (90) days after abandonment.

11. Other Information

a. Topography: Land surface is a low rolling hill.

b. Soil: Soil is caliche overlain by a small amount of sand.

c. Flora and Fauna: Vegetative cover is generally greasewood and mesquite with small amounts of grass. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles and birds.

d. Ponds and Streams: There are no rivers, streams, lakes or ponds in the immediate area of the proposed location.

e. Residences and Other Structures: There are no dwellings in the immediate area of the proposed location.

f. Land Use: Land is used for hunting in season and grazing.

g. Surface Ownership: Well site is on Federal surface.

-Continued-

12. Operators Representative

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

Gulf Oil Exploration and Production Company
A Division of Gulf Oil Corporation
P.O. Box 670
Hobbs, New Mexico 88240
Telephone: (505) 393-4121
Area Production Manager: R. C. Anderson

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 Gulf Oil Corporation and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

January 9, 1980
Date

R. C. Anderson
R. C. Anderson, Area Production Manager

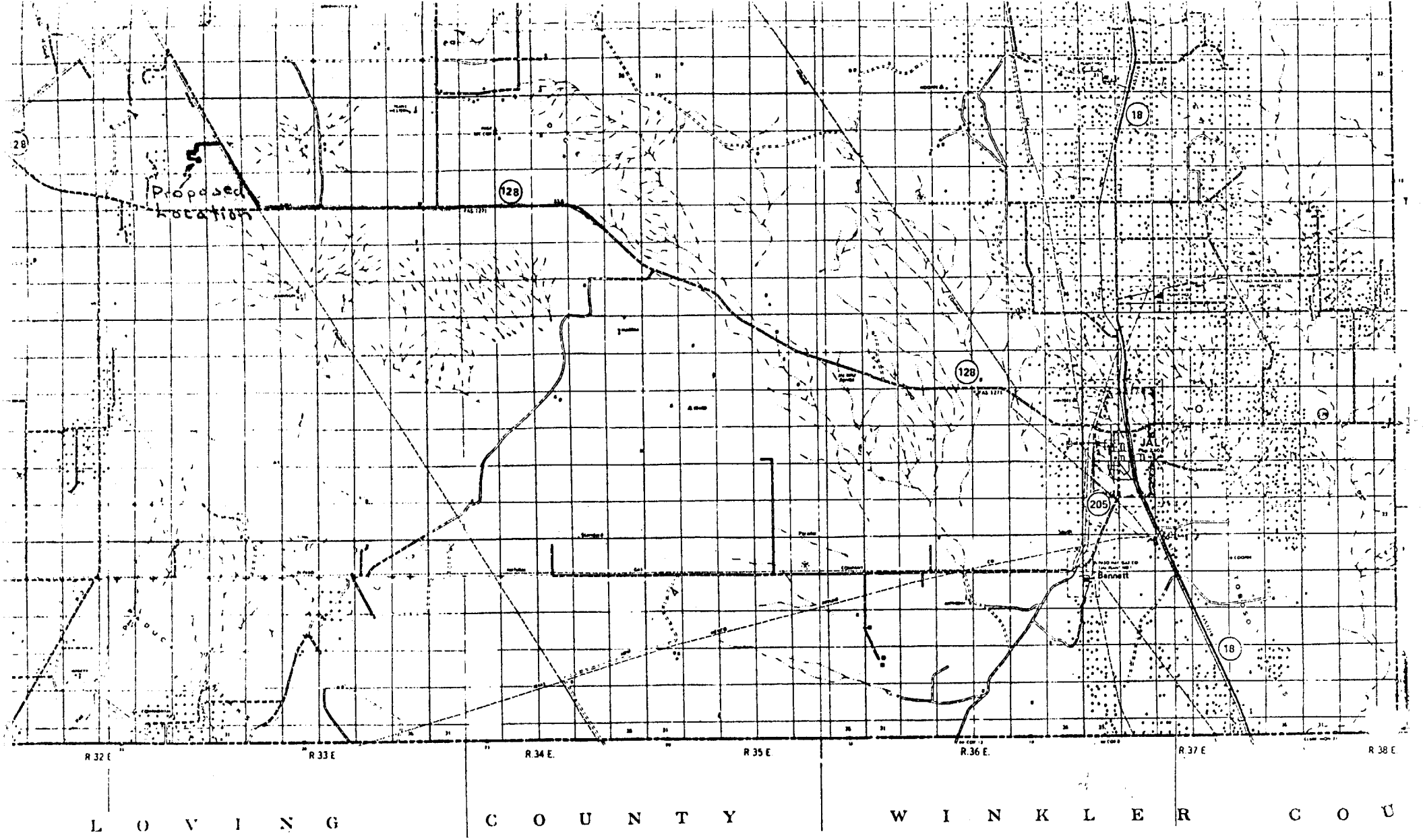


Exhibit "A"

Hanagan "D" Federal No. 1

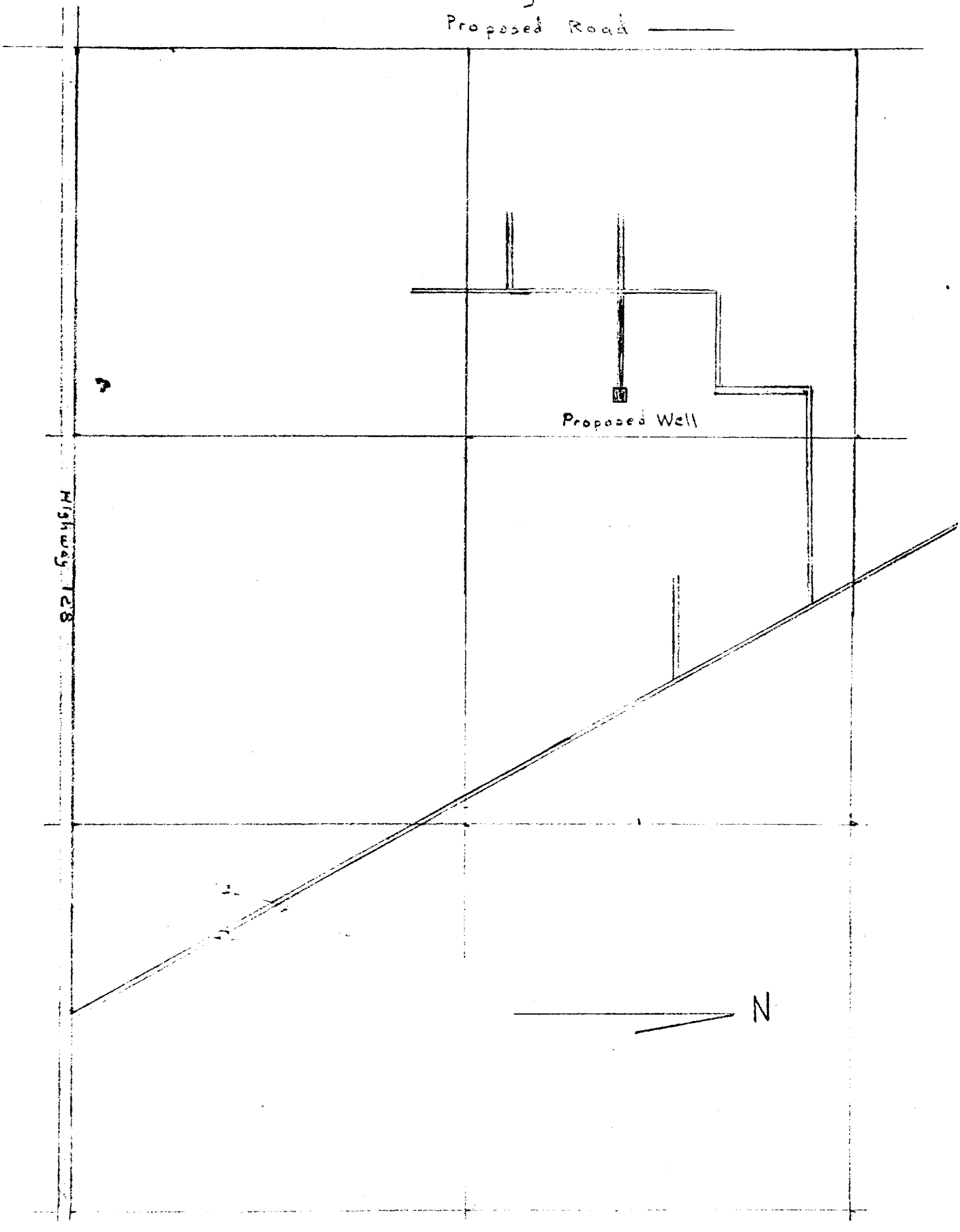
Sec 12, T 24 S, R 36 E

Lea Co., New Mexico

Exhibit "D"

Hanagan "D" Federal No. 1
Sec 12, T24S, R32E
Lea Co. New Mexico

Existing Road
Proposed Road ———



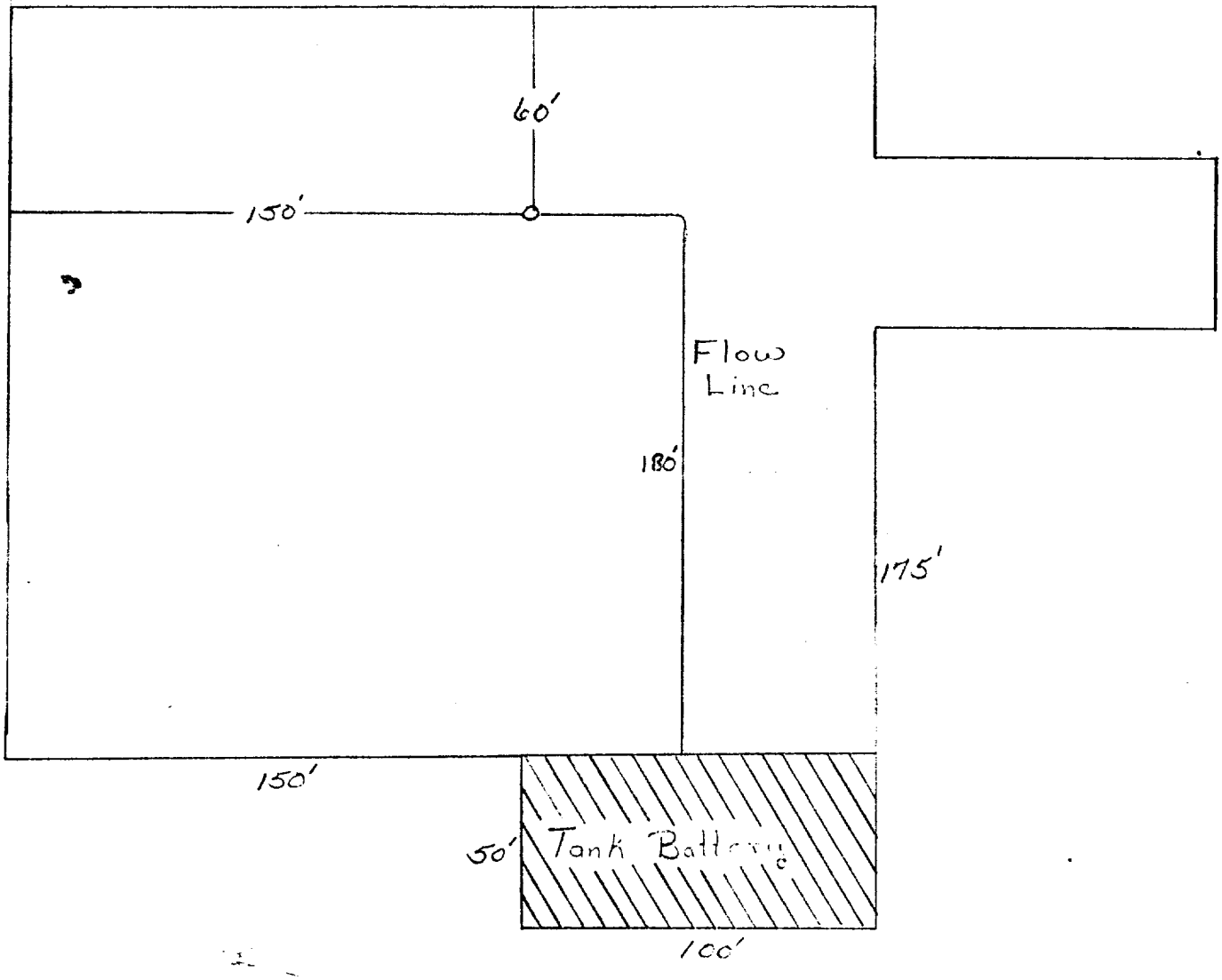


Exhibit "C"

Hanagan "D" Fed #1

Sec 12, T 24 S, R 32 E

Lea Co., New Mexico

Drilling Pad Layout

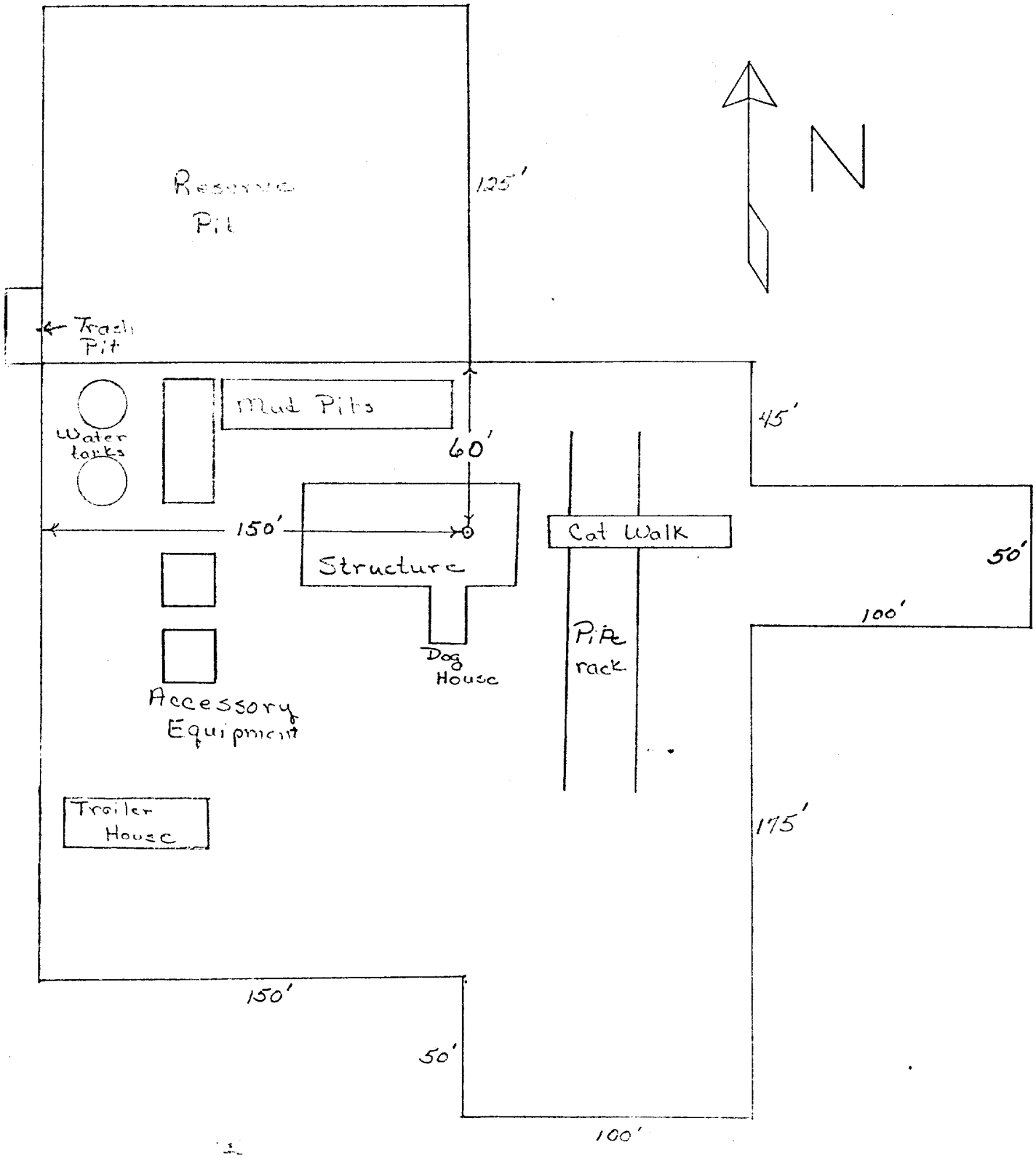


Exhibit "D"

Hanagan "D" Fed #1

Sec 12, T25S, R32E

Lea Co., New Mexico

Drilling Pad Lay out