

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY30-005-60625  
5. LEASE DESIGNATION AND SERIAL NO.

NM-27978

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Boaz Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat SA

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

NW NW

Section 29, T.6S., R.29E.

12. COUNTY OR PARISH 13. STATE

Chaves

New Mexico

## 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

SUNDANCE OIL COMPANY

## 3. ADDRESS OF OPERATOR

Suite 510, 1776 Lincoln St., Denver, CO 80203

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

At surface

660' FNL, 660' FWL, Unit D

At proposed prod. zone

Same

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

7 miles northeast of Elkins

## 15. DISTANCE FROM PROPOSED\*

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

660

## 16. NO. OF ACRES IN LEASE

1227

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

4400

## 19. PROPOSED DEPTH

3000

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

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

4147' GL

## 22. APPROX. DATE WORK WILL START\*

January 1, 1980

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24	350'	300 sx
7 7/8"	4 1/2"	10.5	3000'	300 sx

The well will be drilled to total depth, logged and evaluated by drill stem tests for full evaluation of the San Andres Formation. If warranted, completion will be made in the same formation.

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ARTESIA, 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

Richard O. Dimit

TITLE

Vice President, Production

DATE 11/26/79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

12-11-79

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**N MEXICO OIL CONSERVATION COMMISS**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form O-121  
 Supersedes O-128  
 Effective 1-1-65

All distances must be from the outer boundaries of the Section

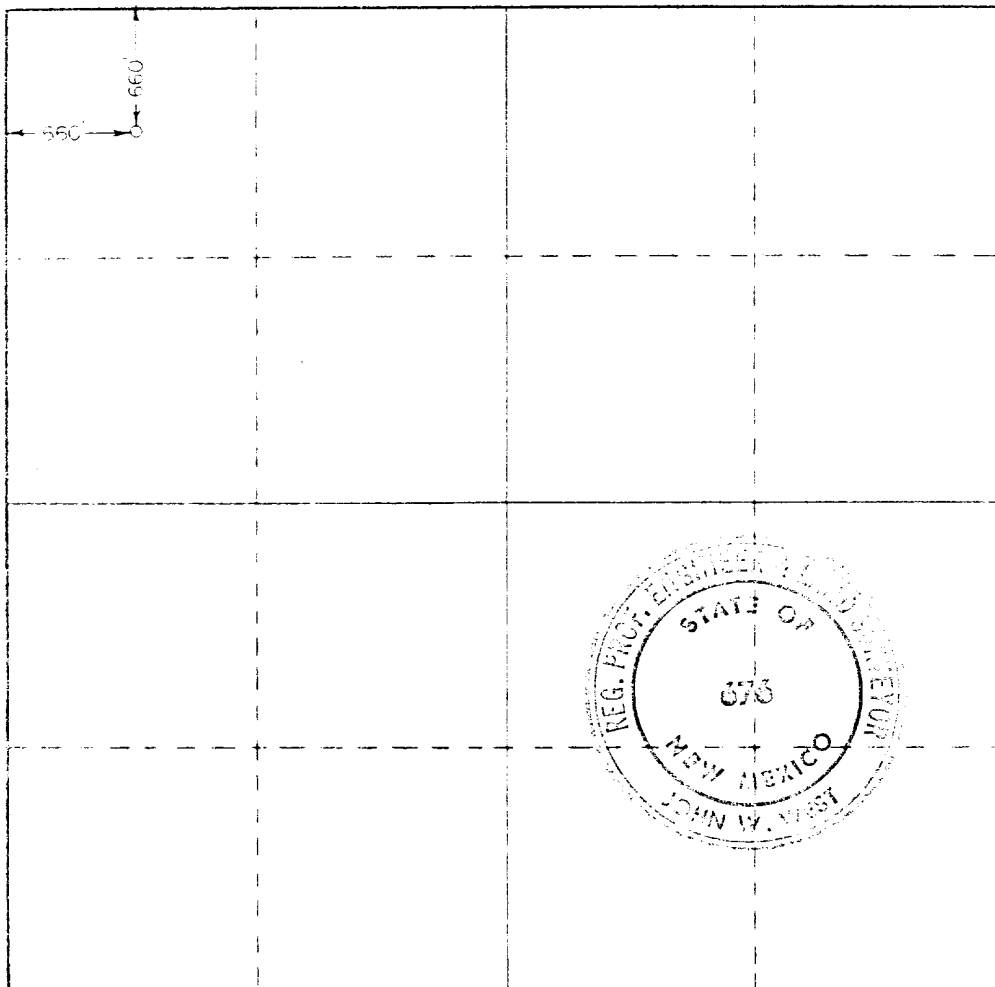
Operator <b>Sundance Oil Corp.</b>			Lease <b>Boaz Fed.</b>			Well No. <b>1</b>		
Section <b>D</b>	Section <b>29</b>	Township <b>6 South</b>	Range <b>29 East</b>	County <b>Chaves</b>				
Distance from the North line and			Distance from the West line and					
<b>660</b>			<b>660</b>					
Section <b>4146.9</b>		Producing Formation <b>San Andres</b>		Pool <b>Wildcat</b>		Well Spacing <b>40</b>		

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

*Richard C. Minut*

Chief Engineer

Position

Sundance Oil Company

Company

September 1, 1977

Date

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

July 22, 1977

Registered Professional Land Surveyor

*John W. West*

Certified True

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ORIGINAL COPY  
United States Department of the Interior

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

December 11, 1979

Sundance Oil Company  
Suite 510, 1776 Lincoln Street  
Denver, Colorado 80203

Gentlemen:

SUNDANCE OIL COMPANY	
Boaz Fed. No. 1	
660 FNL 660 FWL	Sec. 29 T.6S R.29E
Chaves County	Lease No. NM 27978
Above Data Required on Well Sign	

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 3,000 feet to test the San Andres 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. Cement behind the 8-5/8" casing must be circulated.
6. 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,

George H. Stewart  
Acting District Engineer



Attachment to Form 9-331 C  
Application for Permit to Drill

Sundance Oil Company, #1 Boaz Federal  
660' FNL, 660' FWL of Section 29, T.6S., R.29E.  
Chaves County, New Mexico

1. The geologic name of the surface information is Triassic red beds overlain by wind blown sands.

2. The estimated tops of important geologic markers are as follows:

Yates	800'
San Andres	2000'
P-1	2670'
P-2	2760'
P-3	2885'
T.D.	3000'

3. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations will be encountered are as follows:

San Andres	2000'	oil and gas
P-1	2670'	oil and gas
P-2	2760'	oil and gas
P-3	2885'	oil and gas

4. The proposed casing program is as follows:

Surface: New 8 5/8", 24#/ft., ST&C  
Production: New 4 1/2", 10.5#/ft. ST&C, K-55

5. A sketch of an API Series 900 Blowout Preventer is attached. Pipe rams and blinds will be checked to 1000 psi for 30 minutes when BOP is installed. BOP will be checked when casing is set and operated daily for checks.

6. The proposed mud program is as follows:

0- 350'	spud mud	8.5 - 9.0#/gal.
350-2500'	native mud	9.0 - 9.5#/gal.
2500-T.D.	salt gel	9.0 - 10.0#/gal.

7. The auxiliary equipment to be used is:

1. Kelly cocks.
2. Floats at the bit.
3. Stabbing valve on rig floor with sub to fit drill pipe.

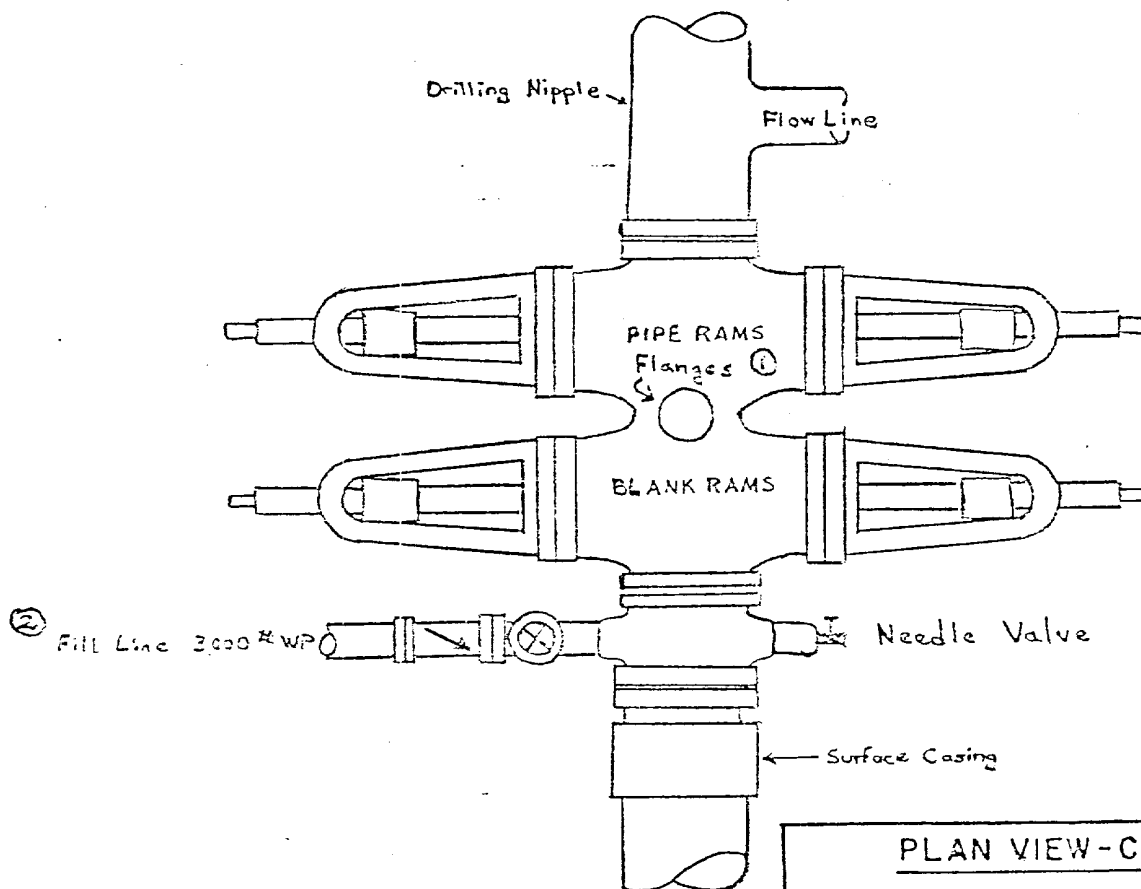
8. It is proposed to run 2" and 5" GR, CNL, FDC, DLL/MLL logs from TD to 350'.

9. No abnormal pressures or temperatures are expected to be encountered in this well.

10. The anticipated starting date for this well is January 1, 1980. Estimated duration of drilling operations is 8 to 10 days.

## B. O. P. HOOK-UP

Schaeffer Type E 10" Series 900 Hydraulic BOP. (3,000 PSI W.P.)



### NOTES:

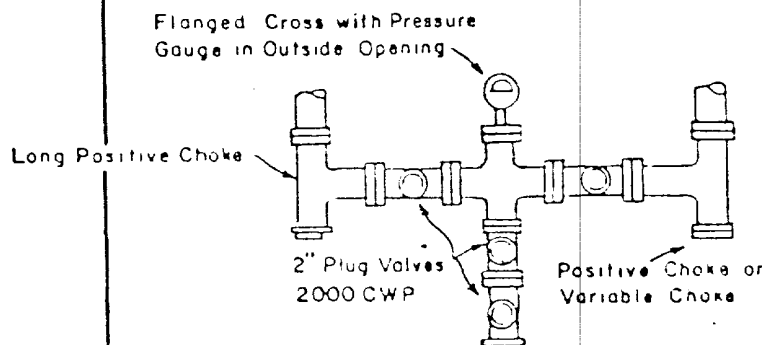
① 1 Flange on each side of BOP Stack. Choke Manifold connects To one side. Other side has full opening pipe and valves connected To it. KILL LINES.

② Fill line also has valve in it at rig floor level.

BOP Stack will be equipped To operate with both hydraulic and manual controls.

All equipment, piping and valves in BOP arrangement is 900 Series, i.e. 3,000 psi working pressure.

### PLAN VIEW-CHOKES MANIFOLD



## MULTI-POINT SURFACE USE & OPERATIONS PLAN

Sundance Oil Company, #1 Boaz Federal  
660' FNL and 660' FWL of Section 29, T.6S., R.29E.  
Chaves County, New Mexico

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately seven miles northeast of Elkins, New Mexico. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage.

### 1. Existing Roads

- A. The proposed well site is 660' FNL and 660' FWL of Section 29, T.6S., R.29E., Chaves County, New Mexico.
- B. Exhibit "A" is a portion of a map showing existing roads with directions to the location from Kenna, New Mexico. The route to the location is marked in red along side of roads to be used. The well location is approximately 7 miles northeast of Elkins, New Mexico.
- C., D. & E. Access roads are shown on Exhibit "A" and "B".
- F. No improvement or maintenance is anticipated for the existing roads.

### 2. Planned Access Roads

- A. Length & Width: New road required will be 4400' long and 12' wide. This new road is labeled and color coded RED on Exhibits "A" and "B". The center line of the proposed new road has been flagged and staked with the stakes being visible from one to the next.
- B. Surfacing Material: Six inches of caliche, watered, compacted and graded.
- C. Drainage Design: New road will have a drop of 6 inches from center line on each side.
- D. Culverts: None.
- E. Turnouts: None.
- F. Cuts and Fills: The location and pits will be constructed as shown on Exhibit "C". Maximum cut will be 3' on the east and maximum fill will be 3' on the west of the location, other than leveling sand dunes.
- G. Gates, Cattleguards, Fences: Cattleguards will be required at all existing fences.

### 3. Location of Existing Wells

- A. See Exhibit "B".

### 4. Location of Existing and/or Proposed Facilities

- A. There are no existing facilities on this lease.

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ALBUQUERQUE, NEW MEXICO

- B. If commercial production is established, facilities and lines will be constructed as shown on Exhibit "C". Pads for equipment will be made with caliche. Facilities will be fenced and/or covered to protect livestock and wildlife.
- C. All unused areas disturbed by construction will be restored to natural terrain profile after construction is completed.

5. Location and Type of Water Supply

- A. Water will be obtained from wells at Kenna and/or Crossroads.
- B. Water will be transported by truck.

6. Source of Construction Materials

- A. Caliche will be obtained from the closest existing pit.

7. Methods for Handling Waste Disposal

- A. Drill cuttings will be disposed of in the reserve pit.
- 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 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "C". If well is productive, maintenance waste will be placed in special trash cans and hauled to an approved sanitary landfill, periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the Survey for appropriate approval.

8. Ancillary Facilities: None.

9. Well Site Layout

- A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit and location of major rig components.
- B. The reserve pit will be lined with plastic.
- C. The pad and pit area has been flagged and staked.

10. Plans for Restoration of Surface

Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

11. Other Information

- A. Terrain: Low rolling sand hills.
- B. Soil: Sandy.
- C. Vegetation: Scrub oak, bear grass and very sparse vegetation.
- D. Surface Use: Grazing.
- E. Ponds and Streams: None.
- F. Water Wells: One-half mile northwest of location.
- G. Residences and Buildings: One mile north of location (see Exhibit "B").
- H. Arroyos, Canyons, Etc.: None.
- I. Well Sign: Sign identifying and locating well will be maintained at drill site with the spudding of the well.
- J. Open Pits: All pits containing mud or other liquids will be fenced.
- K. Archaeological Resources: None observed.

12. Lessee's or Operators Representative

Richard O. Dimit                      Business Phone (303) 861-4694  
Sundance Oil Company  
Suite 510, 1776 Lincoln Street  
Denver, CO 80203

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 SUNDANCE OIL COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date

11/26/79

Richard O. Dimit  
Richard O. Dimit  
Vice President, Production





# O I L   C O M P A N Y

November 26, 1979

U.S.G.S.  
P.O. Drawer U  
Artesia, NM 88210

RE: Agreement with Surface Landowner  
and Sundance Oil Company  
Boaz Federal #1  
NW NW Section 29, T.6S., R.29E.  
Chaves County, New Mexico

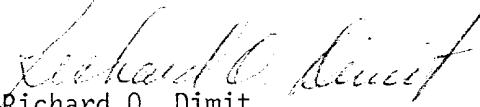
Gentlemen:

This is to certify that in regard to captioned well, Sundance Oil Company has an agreement with the surface owner in regard to the surface restoration.

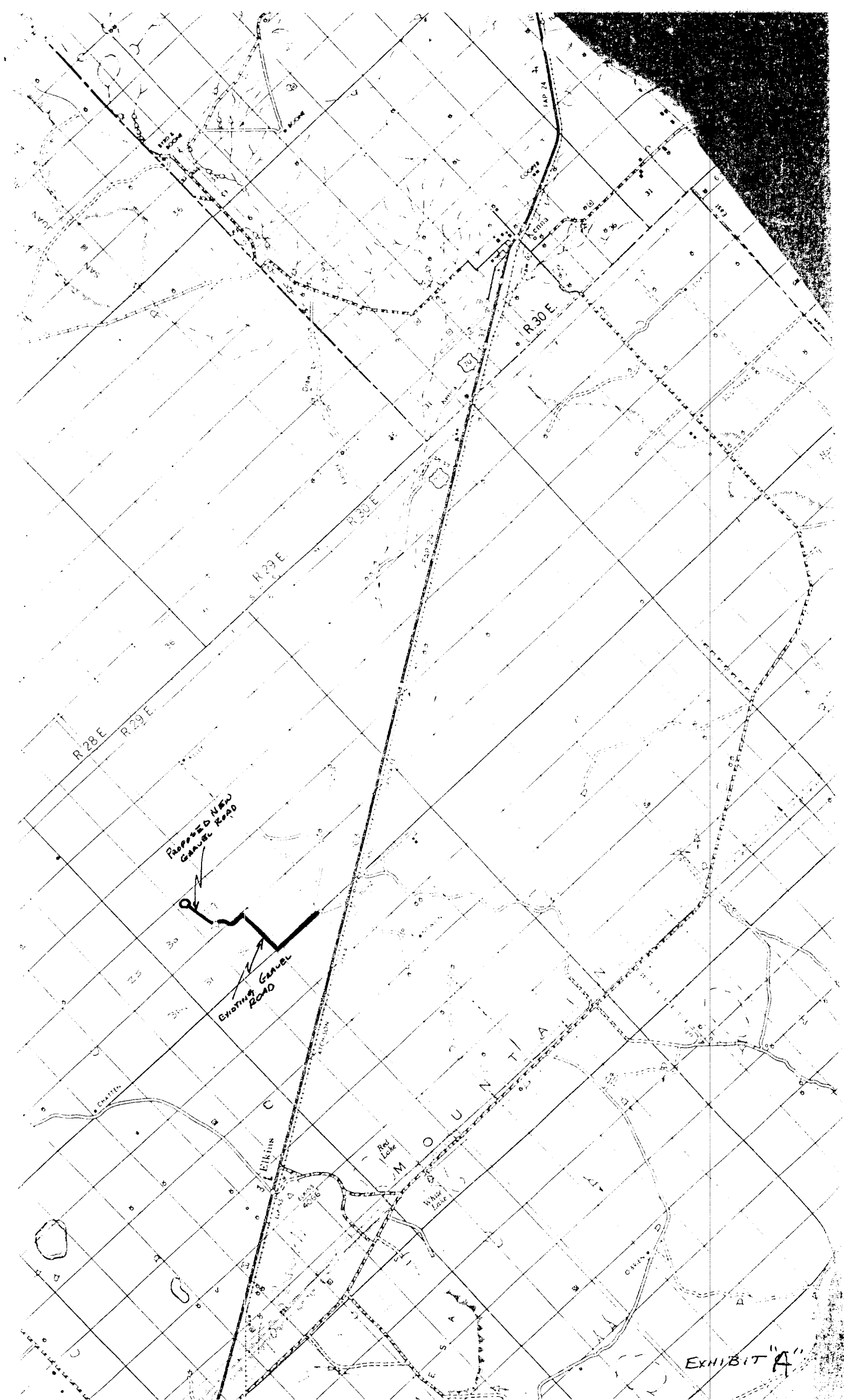
If this well is completed as a producing well, the pits are to be filled and covered and the location cleaned of all trash and junk in order to leave the well site in an aesthetically pleasing condition. Prior to the filling of the pits, any unguarded pit containing fluid will be fenced.

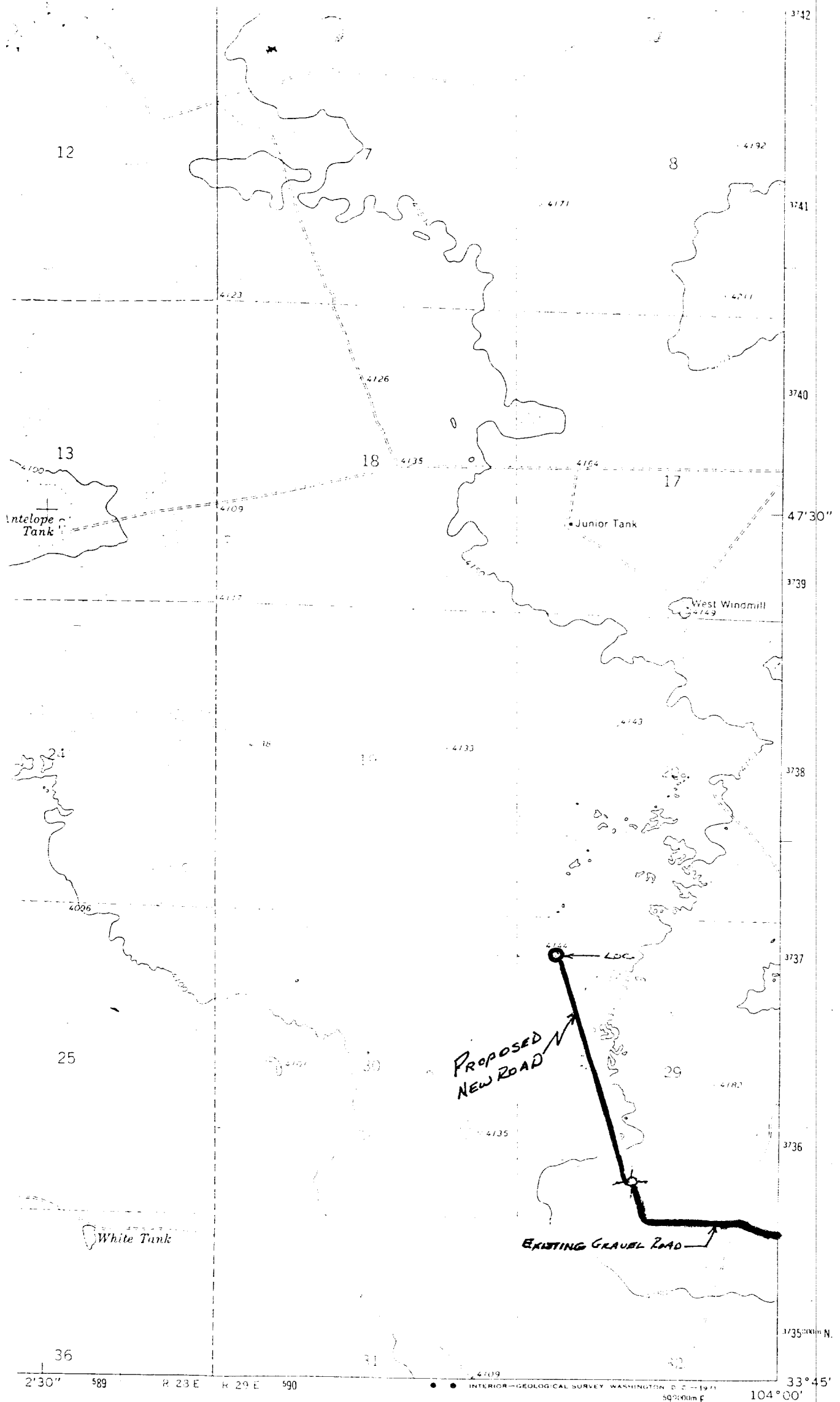
If the well is completed as a dry hole and plugged and abandoned, pits will be covered and location cleaned of all trash and junk. The road will remain in place. The drilling pad will either remain or be ripped as the landowner's option.

Yours truly,

  
Richard O. Dimit  
Vice President, Production

RD:ds





ROAD CLASSIFICATION  
Unimproved dirt



N1 13-8 EXHIBIT "B"

LOCATION, MUD PIT AND  
PROPOSED TANK BATTERY  
AREA SPECIFICATIONS

- ① Shale Pit 30' x 8'
- ② Mud Pit 20' x 8'
- ③ Suction Pit 30' x 8'
- ④ Reserve Pit 100' x 50'
- ⑤ Pump
- ⑥ Water Tank
- ⑦ Fuel Tank
- ⑧ Rig
- ⑨ Pipe Racks
- ⑩ Dog House 60'
- ⑪ Cat Walk 60'
- ⑫ Stinger
- ⑬ Trailer
- ⑭ Burn Pit

NOTE - Lines from well to  
battery facilities will  
lay directly south  
from wellhead.

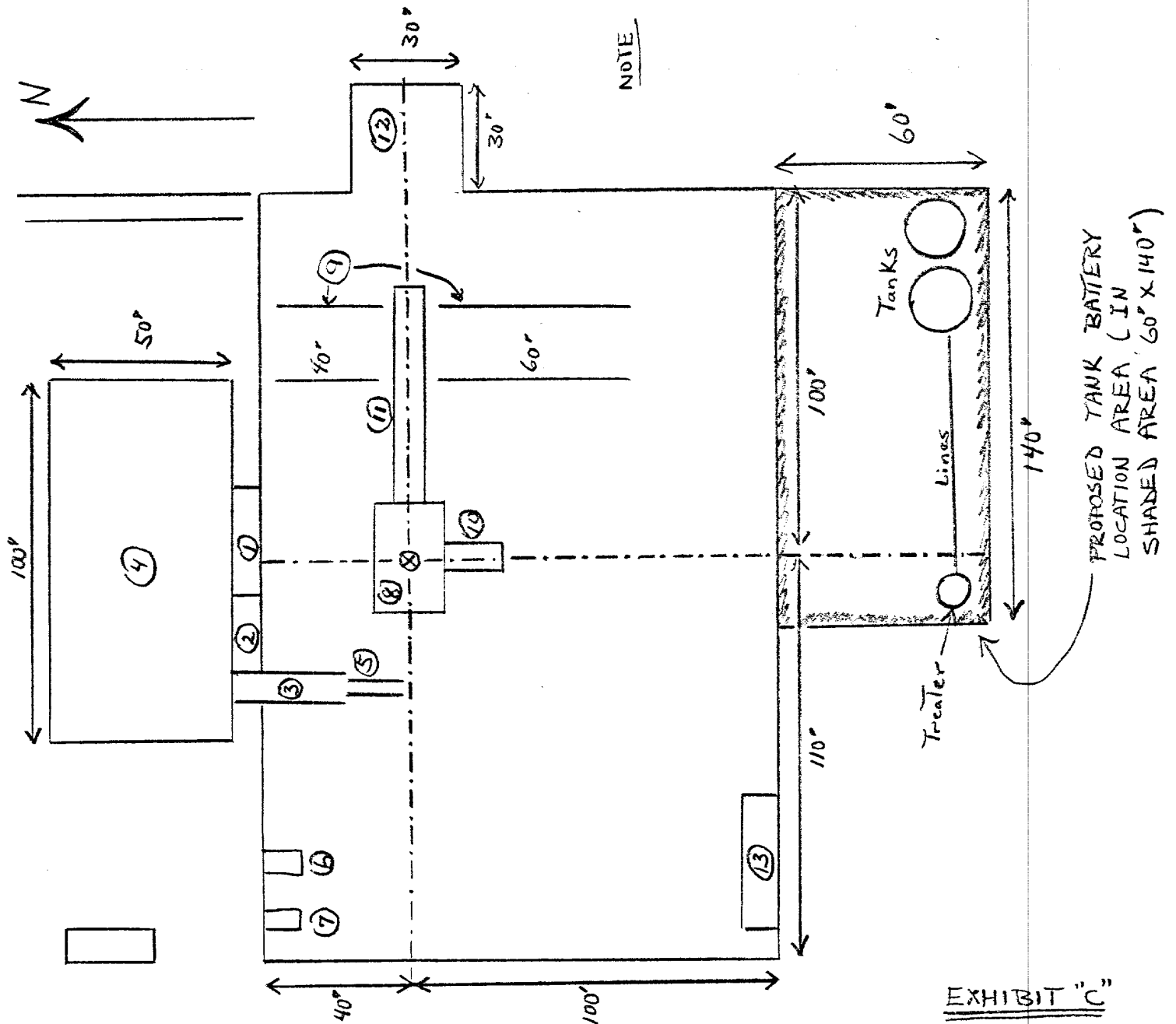


EXHIBIT "C"