

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-005-60456

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
ZONES ☐

2. NAME OF OPERATOR

SUNDANCE OIL COMPANY

3. ADDRESS OF OPERATOR

Suite 510, 1776 Lincoln St., Denver, CO 80203 SEP 6 1977

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

At surface

660' FNL, 660' FWL, Section 29, T. 6S., R. 29E.

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 drig. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

1227

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.

4400'

19. PROPOSED DEPTH

3000'

20. ROTARY OR CABLE TOOLS

Rotary

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

4147' GR

22. APPROX. DATE WORK WILL START*

October 1, 1977

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, logged and evaluated by drill stem tests for full evaluation of the San Andres formation. If warranted, completion will be made in same formation.

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OCT 18 1977

O. C. C.
ARTESIA, OFFICE

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 Chief Engineer

DATE September 1, 1977

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

THIS APPROVAL IS REVOKED IF OPERATIONS
ARE NOT COMPLETED WITHIN 3 MONTHS.
SEP 17 1977
See Instructions On Reverse Side

N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 1
 Supersedes G.O.C. 1-1
 effective 1-1-68

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

Owner Sundance Oil Corp.			Lease Boaz Fed.		Well No. 1
Section D	Section 29	Township 6 South	Range 29 East	County Chaves	
Acreage Location of Well: 660 feet from the North line and 660 feet from the West line.					
Ground Level Elev. 4146.9	Producing Formation <i>San Andres</i>	Pool <i>Wildcat</i>	Estimated Acreage 40		

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 owners and interests (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 _____

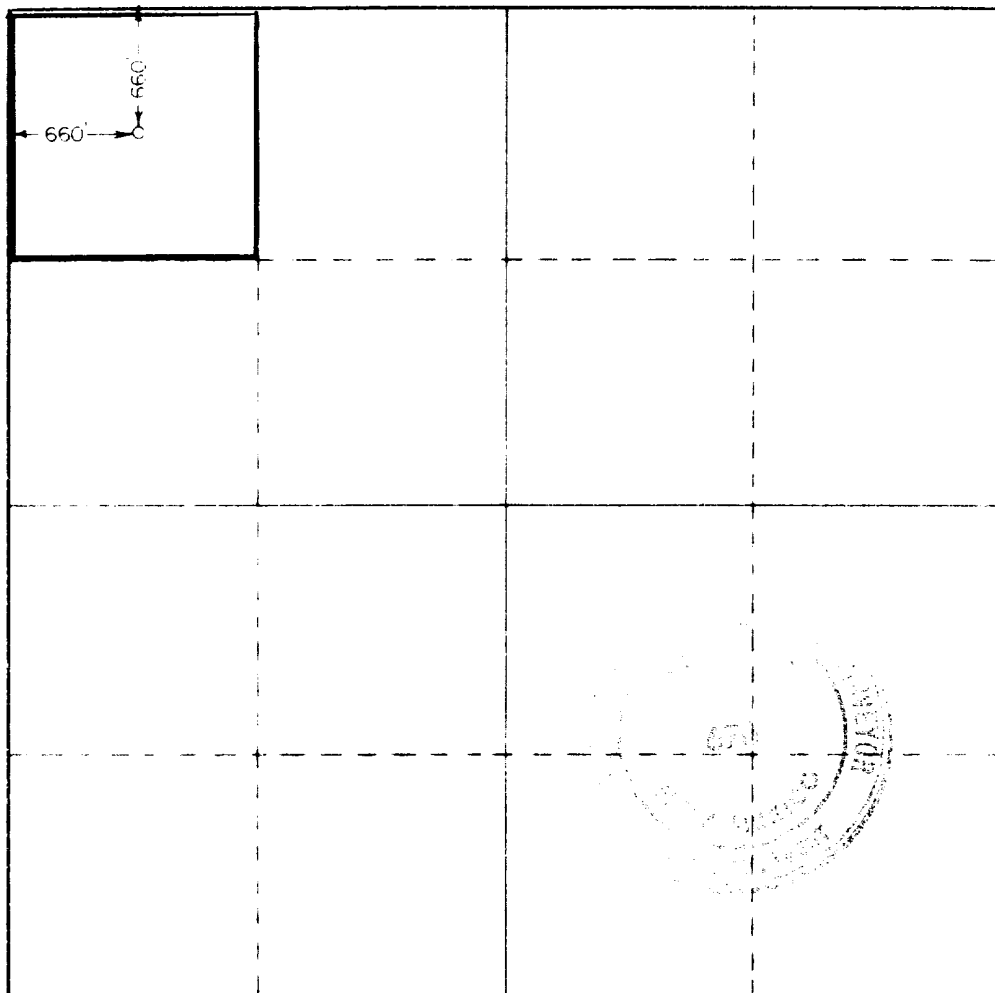
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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.

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**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.

Richard O. Dimit

Name
Richard O. Dimit

Position
Chief Engineer

Company
Sundance Oil Company

Date
September 1, 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
July 22, 1977

Registered Professional Engineer and Oil Land Surveyor

John W. West

Certificate No.
676



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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

U.S. GEOLOGICAL SURVEY
ARTESIA, 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 lb/ft., ST&C
Production - New 4 1/2", 10.5 lb/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 1,000 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 lbs./gal.
350-2500'	native mud	9.0 - 9.5 lbs./gal.
2500-T.D.	salt gel	9.0 - 10.0 lbs./gal.

7. The auxilliary 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.

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

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 October 1, 1977. Estimated duration of drilling operations is 8 to 10 days.

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SURFACE USE PLAN

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

U.S. GEOLOGICAL SURVEY
ARTESIA, 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. Width and Length: New road required will be 12 feet wide and 4400' long. This new road is labeled on Exhibits "A" and "B".
- B. Turnouts: None.
- C. Drainage Design: New road will have a drop of 6 inches from center line on each side.
- D. Culverts, Cuts and Fills: Culverts - None. The location and pits will be constructed as shown on Exhibit "D".
- E. Surfacing Material: Six inches of caliche, bladed, watered and compacted.
- F. Gates, Cattleguards, Fences: Cattleguards will be required at all existing fences.
- G. None

3. Location of Existing Wells

See Exhibit "B".

4. Location of Existing and/or Proposed Facilities

- A. No existing facilities.
- B. If commercial production is established, facilities and lines will be constructed as shown on Exhibit "D". 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

Caliche will be obtained from the closest existing pit.

7. Methods for Handling Waste Disposal

Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. See Exhibit "D" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted to the survey for appropriate approval.

8. Auxillary Facilities

None

9. Well Site Layout

Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, trash barrel, etc. The reserve pit will be lined with plastic.

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 Operator's Representative

Jim Akin
Sundance Oil Company

Richard O. Dimit
Sundance Oil Company
Suite 510, 1776 Lincoln St.
Denver, CO 80203

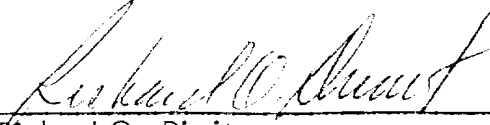
Business Phone: (303) 825-7657
Home Phone: (303) 770-4067

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 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

9/1/77


Richard O. Dimit
Chief Engineer

Supplement to Surface Use & Operations Plan
Sundance Oil Company Boaz Federal No. 1
660' FNL and 660' FWL of Section 29, T. 6S., R. 29E.
Chaves County, New Mexico

Agreement has been reached with the surface owner as follows for routing of road and restoration of surface for the subject well:

1. Road will be routed as shown on Exhibits "A" and "B".
2. Road will remain after completion of drilling operations or be ripped up at land owners discretion.
3. Pad will either remain or be ripped up. To be at the land owners discretion.
4. All pits will be back-filled and leveled.

Agreement has been reached with the surface owner as to settlement costs for surface damages. A copy of the agreement is attached.

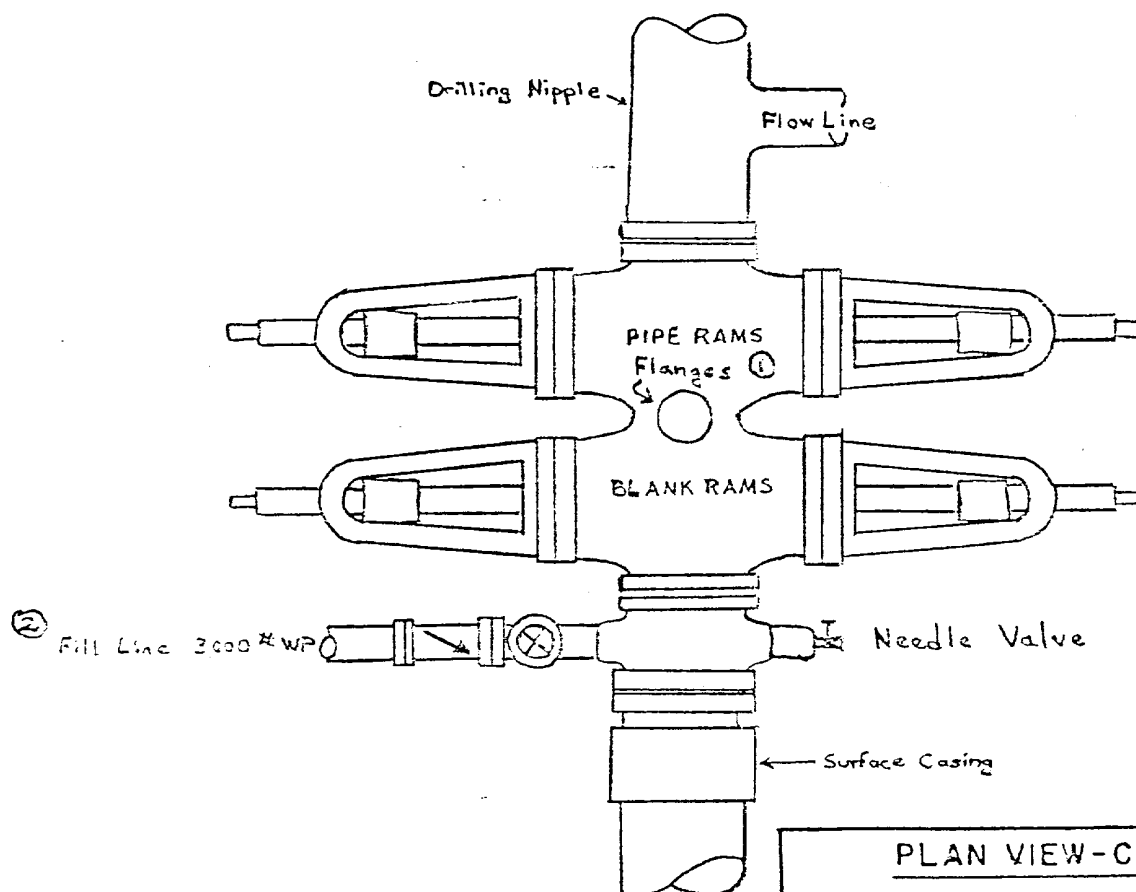
Date

9/1/77

Richard O. Dimit
Chief Engineer

B. O. P. HOOK-UP

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



NOTES:

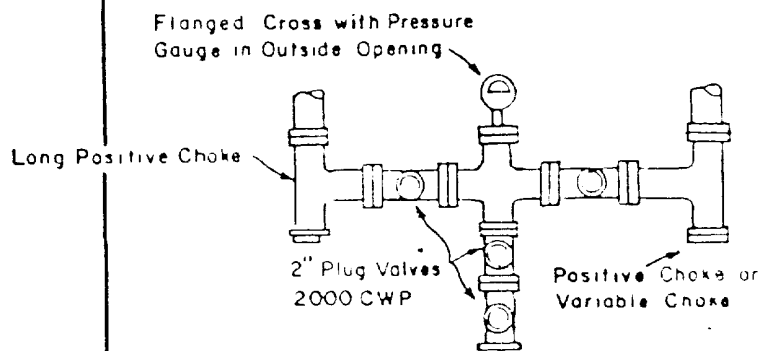
① 1 Flange on each side of BOP Stack. Choke Manifold connects To one side. Other side has full opening pipe and valves connected To it. KILL LINES.

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-CHOKE MANIFOLD



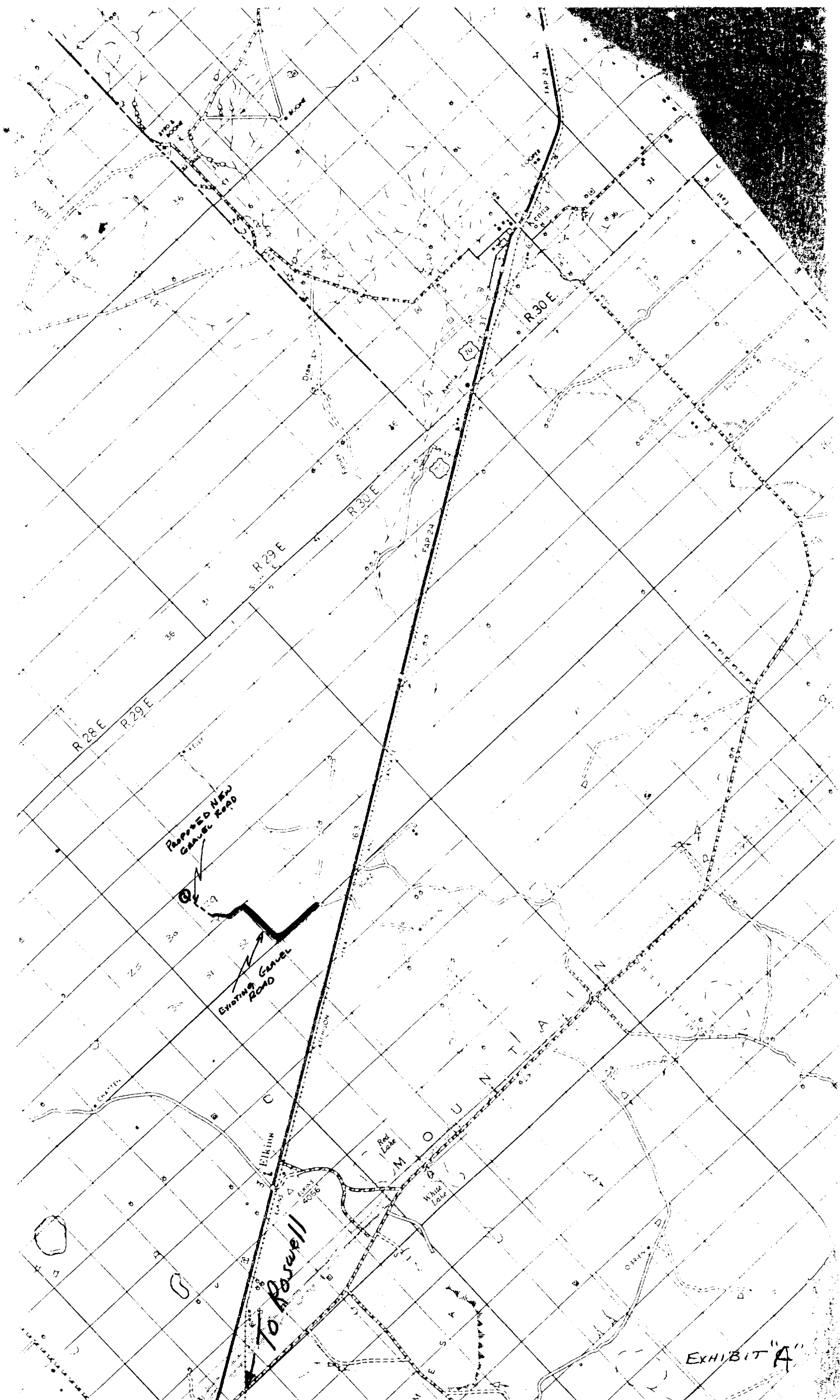


EXHIBIT "A"

LOCATION, MUD PIT AND
PROPOSED TANK BATTERY
AREA SPECIFICATIONS

- ① Shale PIT 30' x 8'
- ② Mud PIT 20' x 8'
- ③ Section 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
- ⑪ Cat Walk 60'
- ⑫ Stinger
- ⑬ Trailer
- ⑭ Burn Pit

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

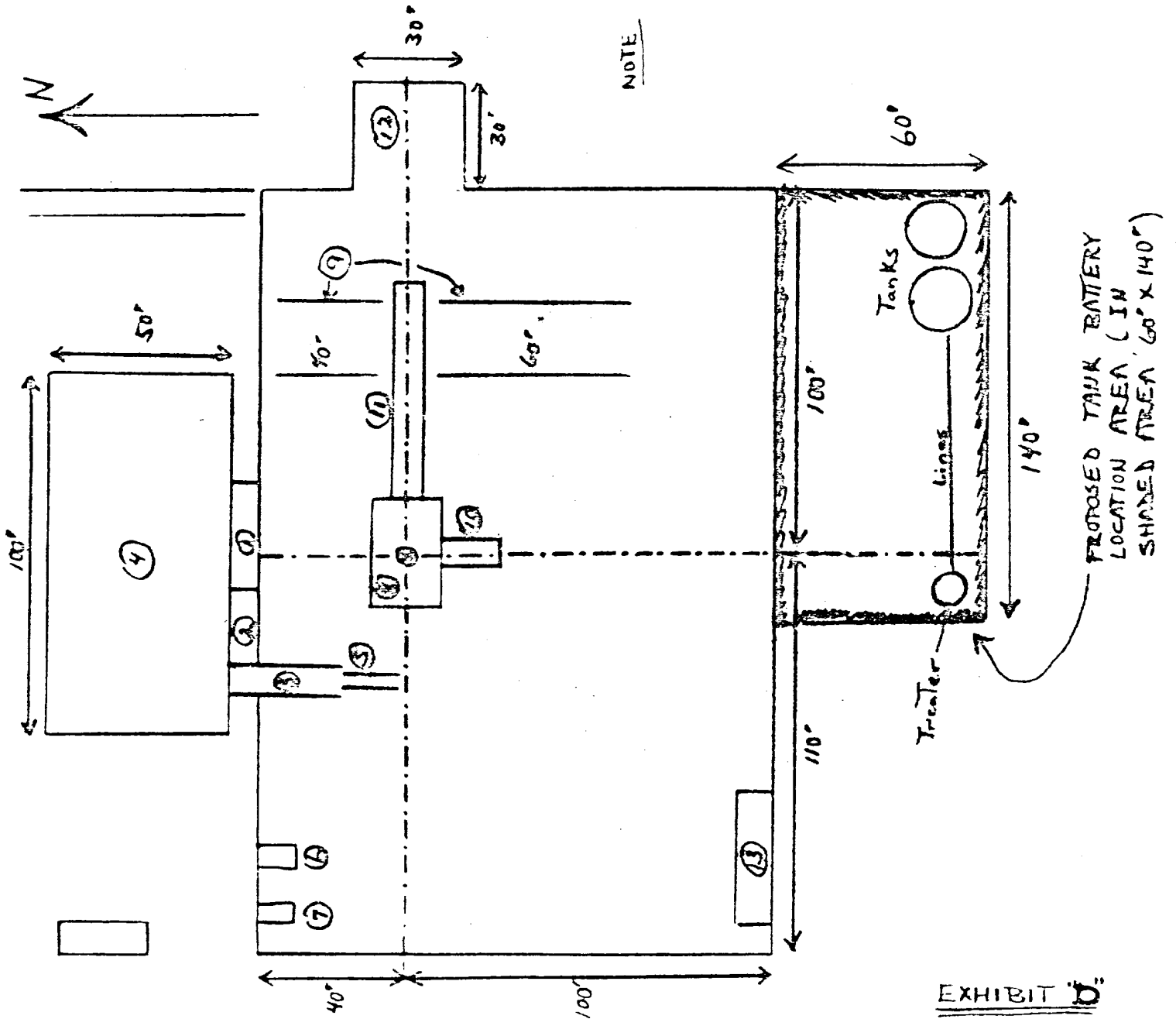


EXHIBIT "D"