

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Street, Denver, CO 80203

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

At surface

660' FSL and 660' FWL

Unit M

At proposed prod. zone

Same

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

15½ miles south of Kenna, New Mexico

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

660

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

1870

16. NO. OF ACRES IN LEASE

560

19. PROPOSED DEPTH

4350

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

4410.9' GL

22. APPROX. DATE WORK WILL START*

September 1, 1978

5. LEASE DESIGNATION AND SERIAL NO.

NM-15019

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Cone Federal

9. WELL NO.

6

10. FIELD AND SURVEY OR WILDCAT

Tomahawk, San Andres

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

Section 30, T.7S., R.32E.

12. COUNTY OR PARISH

Roosevelt

13. STATE

New Mexico

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11	8 5/8	28	1800	300 sx Econ & 100 sx C1
7 7/8	4 1/2	11.60 & 10.5	4350	300 sx 50/50 Poz

Well will be drilled to TD and evaluated by running logs and DST's when necessary.
Casing will be run when logs and DST's indicate possible commercial production.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

RECEIVED

JUN 20 1978

"APPROVAL TO FLARE GRANTED
WHILE DRILLING AND TESTING."

Unless Drilling Operations have
Commenced, this drilling approval
Expires Oct 5, 1978

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

Richard O. Dimit

TITLE Vice President, Production DATE June 13, 1978

(This space for Federal or State office use)

PERMIT NO.

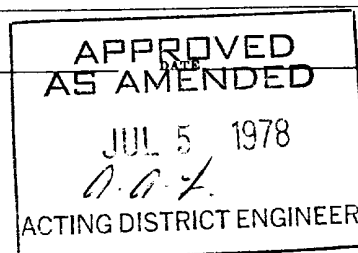
APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 10-1
Superseded 6-12-8
1-10-10-10-10-10

Sundance Oil Co.

Federal Cone

6

M

30

7South

32East

Roosevelt

660

South

660

West

4410.9

San Andres

Tomahawk

40

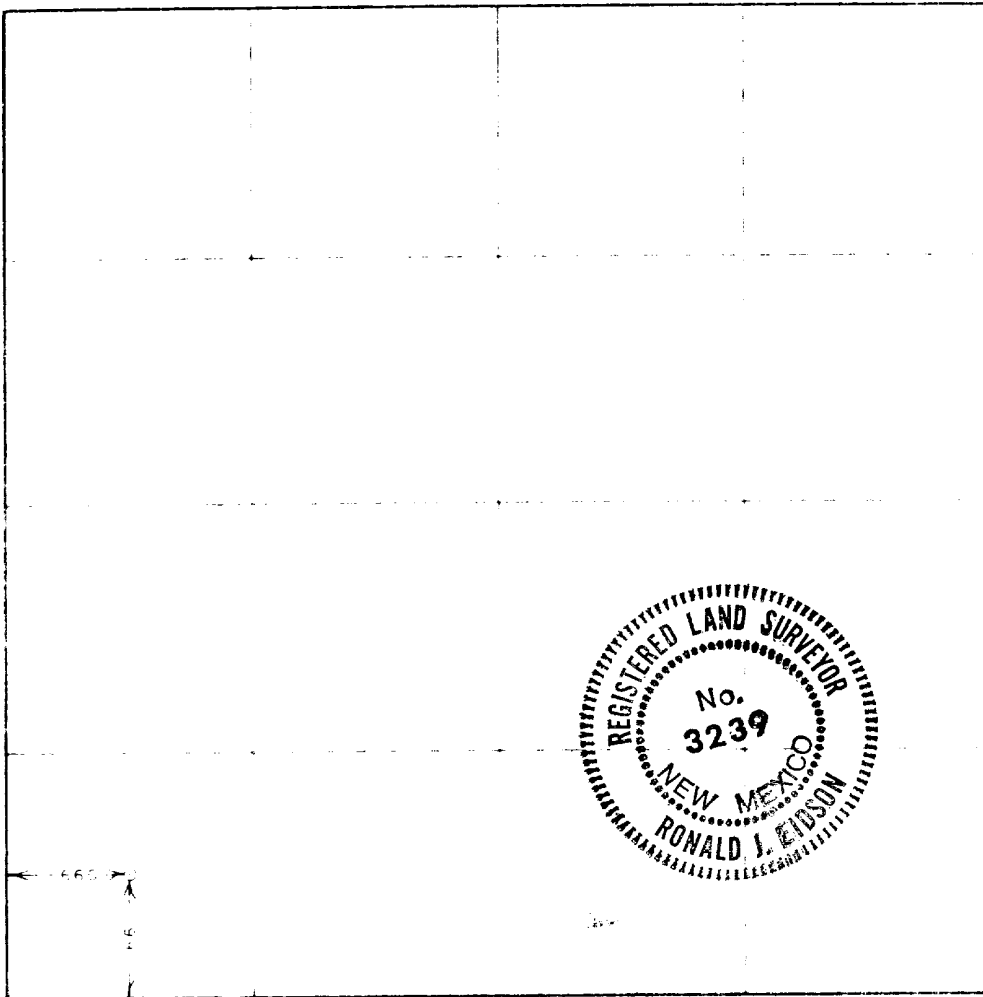
Outline the acreage dedicated to the subject well by colored pencil or machine marks on this plat below.

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 O. Dimit

Richard O. Dimit

Vice President, Production

Sundance Oil Company

June 13, 1978

I hereby certify that the well location shown on this plat was plotted from the 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.

May 24, 1978

Ronald J. Eidson

Certify to John W. West 676
Ronald J. Eidson 3239

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

Sundance Oil Company, #6 Cone Federal
660' FSL and 660' FWL of Section 30, T. 7S., R. 32E.
Roosevelt 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:

Rustler	1800'
Salado	1830'
Yates	2220'
San Andres	3380'
P-1	4080'
P-2	4165'
T.D.	4350'

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

Ogalala	150' water
Salado	1830' salt
San Andres	3380' oil and gas
P-1	4080' oil and gas
P-2	4165' oil and gas

4. The proposed casing program is as follows:

Surface - New 8 5/8", 28 #/ft., ST&C, Secondary 45 (J&L).
Production - New 4 1/2", 10.5 #/ft., ST&C, K-55 and 11.6 #/ft., ST&C, JCW-36 (J&L).

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:

0-1800' spud mud	8.5 - 9.0 lbs./gal.
1800-3500' native mud	9.0 - 9.5 lbs./gal.
3500-T.D. salt gel	9.0 - 10.0 lbs./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 1800'.

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

10. The anticipated starting date for this well is September 1, 1978. Estimated duration of drilling operations is 10 to 12 days.

MULTI-POINT SURFACE USE & OPERATIONS PLAN

Sundance Oil Company: Cone Federal #6
660' FSL and 660' FWL of Section 30, T. 7S., R. 32E.
Roosevelt County, New Mexico

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 15½ miles south of Kenna, 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' FSL and 660' FWL of Section 30, T. 7S., R. 32E., Roosevelt County, New Mexico.
- B. Exhibit "A" is 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 15½ miles south of Kenna, New Mexico.
- C., D. & E. Access roads are shown on Exhibit "A".
- F. No improvement or maintenance is anticipated for the existing roads.

2. Planned Access Roads

- A. Length & Width: New road required will be 2640' 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 six (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 and maximum fill will be 3' on the location, other than leveling sand dunes.
- G. Gates, Cattleguards, Fences: None.

3. Location of Existing Wells

- A. See Exhibit "B".

4. Location of Existing and/or Proposed Facilities

- A. The tank battery and production facilities are located on this lease at or near the Cone Federal #1 location (NE NE Section 31).
- B. If commercial production is established, a flow line will be connected to the existing tank battery and no additional surface disturbance will occur. 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 well at Kenna and/or Crossroads.
- B. Water will be transported by truck.

6. Source of Construction Materials

- A. Caliche will be obtained from a pit in Section 7, T. 7S., R. 32E.

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 twenty-four (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.

9. Well Site Layout (cont.)

- 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

- A. 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 forty-five (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 within one mile.
- F. Water Wells: One mile northwest of location.
- G. Residences and Buildings: One mile northwest of location.
- H. Arroyos, Canyons, Etc.: Caprock escarpment approximately one mile west of location.
- 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

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

Business phone (303) 861-4694

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

13. Certification (cont.)

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.

6/13/78
Date

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



SUNDANCE OIL COMPANY

June 13, 1978

U.S.G.S.
P.O. Box 1157
205 N. Linam Street
Hobbs, NM 88240

RE: Agreement with Surface Landowner
and Sundance Oil Company
Cone Federal #6
SW SW Section 30, T.7S., R.32E.
Roosevelt County, New Mexico

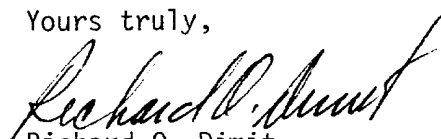
Gentlemen:

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.

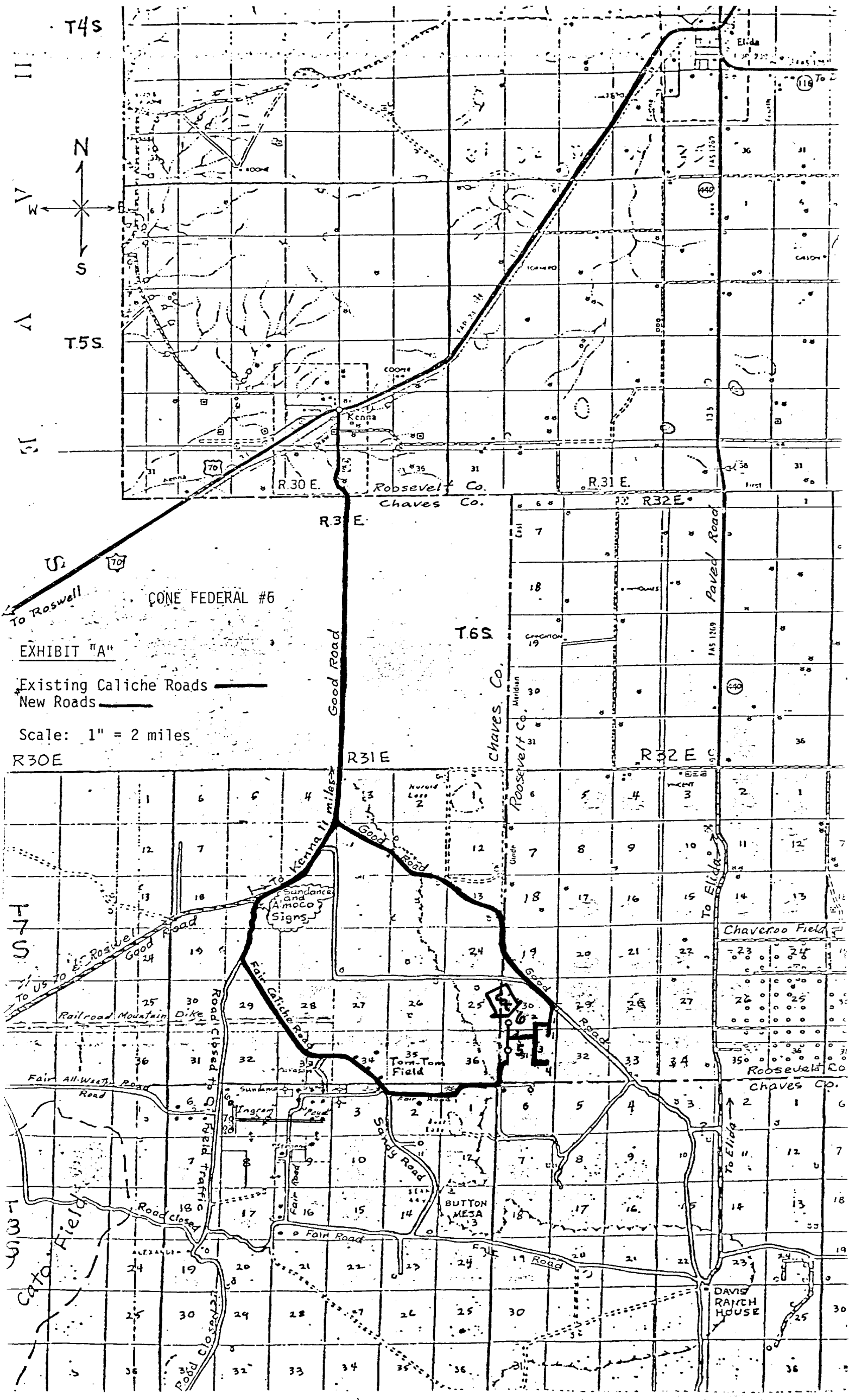
If this well is completed as a producing well, the pits are to be filled and covered and the location cleaned of all trash and junk in order to leave the wellsite in an aesthetically pleasing condition. Prior to the filling of the pits, any unguarded pit containing fluid will be fenced.

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 at the landowner's option.

Yours truly,


Richard O. Dimit
Vice President, Production

RD:dh



T4S

T5S

T6S

EXHIBIT "A"

Existing Caliche Roads
New Roads

Scale: 1" = 2 miles

R30E

R31E

R32E

H
S

Cato Field

Chaveroo Field

Roosevelt Co.
Chaves Co.

DAVIS RANCH HOUSE

To Roswell

CONE FEDERAL #6

Good Road

Good Road

Fair Caliche Road

Sandy Road

Road closed

Chaves Co.

Roosevelt Co.

Paved Road

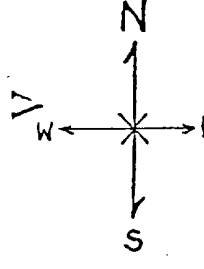
To Elida

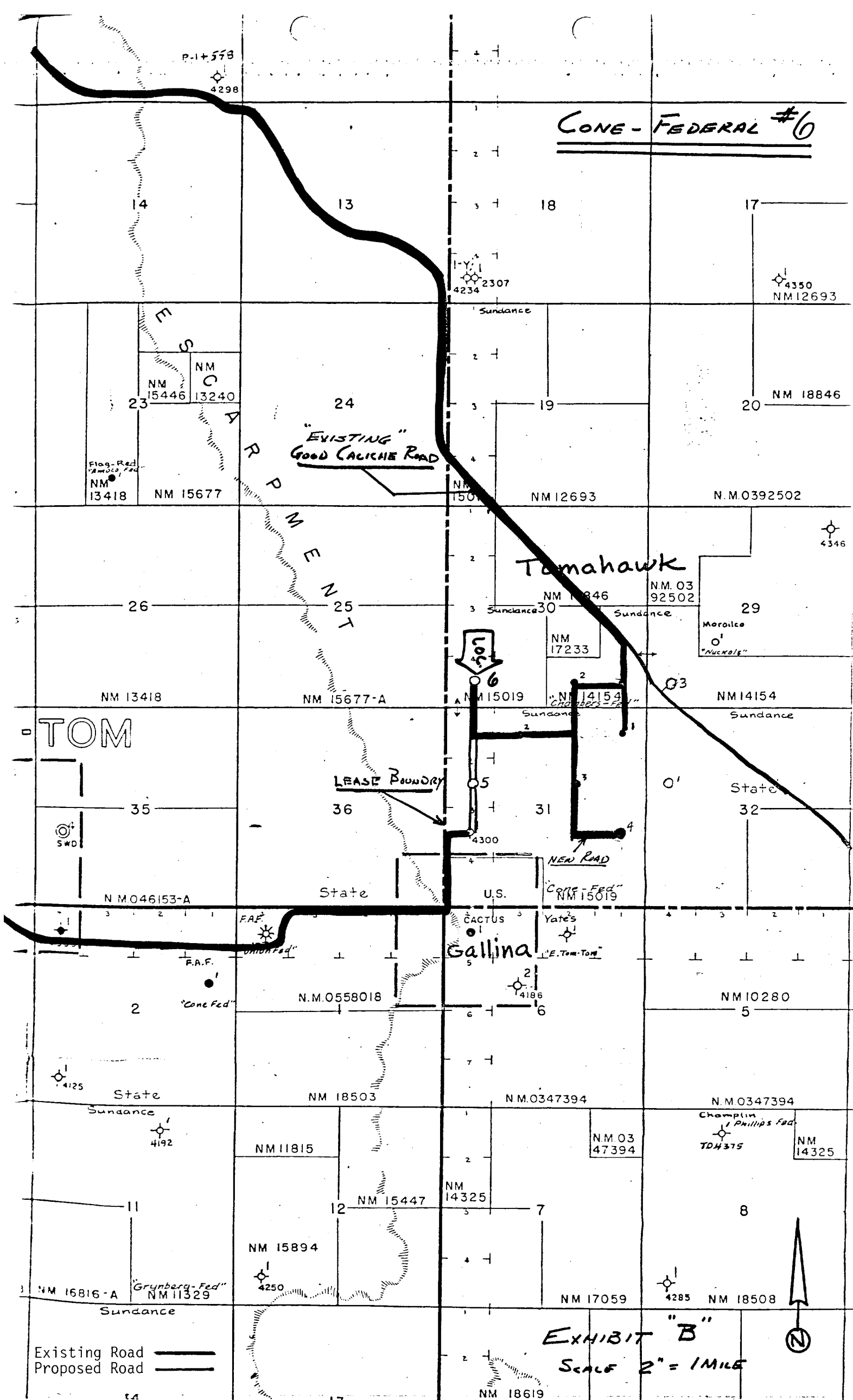
To Elida

To Elida

To Elida

To Elida





LOCATION, MUD PIT AND
PROPOSED TANK BATTERY
AREA SPECIFICATIONS

Lines from well To
batteries facilities will
long direct To with
from well head.

NOTE -

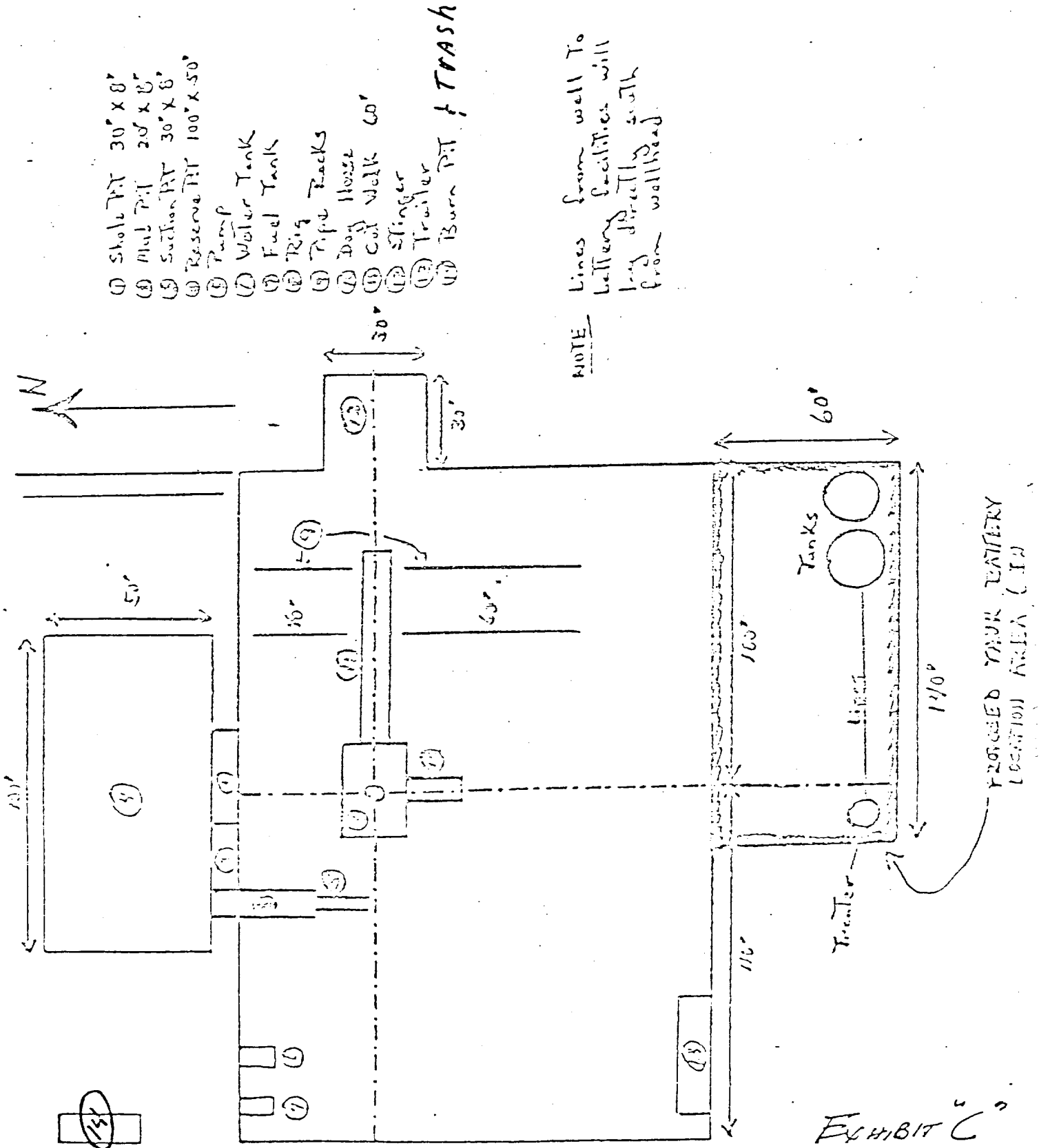
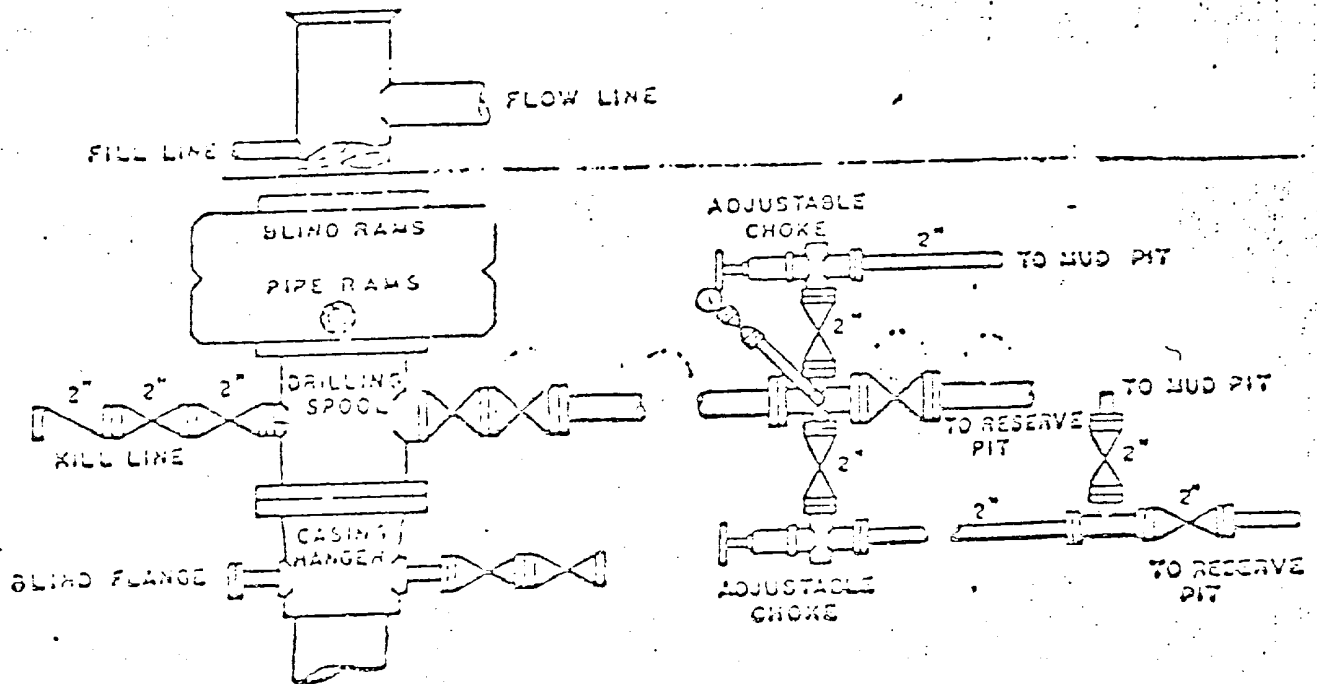


EXHIBIT C

BLOWOUT PREVENTER & CHOKE MANIFOLD

API 3M-8410-R&S



U. S. Geological Survey

HOBBS DISTRICT

Sundance Oil Company
No. 6 Cone Federal
Lot 4 sec. 30-7S-32E
Roosevelt County, NM

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plug-back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
6. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.
7. Minimum required fill of cement behind the 4-1/2" casing is to the base of the salt section.
8. In the event the oil or gas test results in a dry hole, the drill pad and access road will be ripped in accordance with "BLM Roswell District's Ripping Recommendations for Caliche or Compacted Drill Pads and Access Roads". (Reseeding of the affected areas may be required at the discretion of the BLM authorized officer).