

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

2310' FSL and 1980' FEL

Unit J

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 drlg. unit line, if any)

330'

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

660'

## 16. NO. OF ACRES IN LEASE

40

## 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.)

4414.8' GL

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

December 25, 1978

## 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 Class C
7 7/8	4 1/2	11.6 & 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.

**FORM 9-331 IS REQUIRED  
IN QUANTIFICATION**

Unless Drilling Operations Have  
Commenced, this drilling approval  
Expires 3 1978

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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*  
Richard O. Dimit

TITLE

Vice President, Production

DATE 9/14/78

(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

APPROVED  
AS AMENDEDSEP 28 1978  
James F. Sims  
JAMES F. SIMS  
DISTRICT ENGINEER

100 100

R/BU - 8 100

RECEIVED

NEW 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.

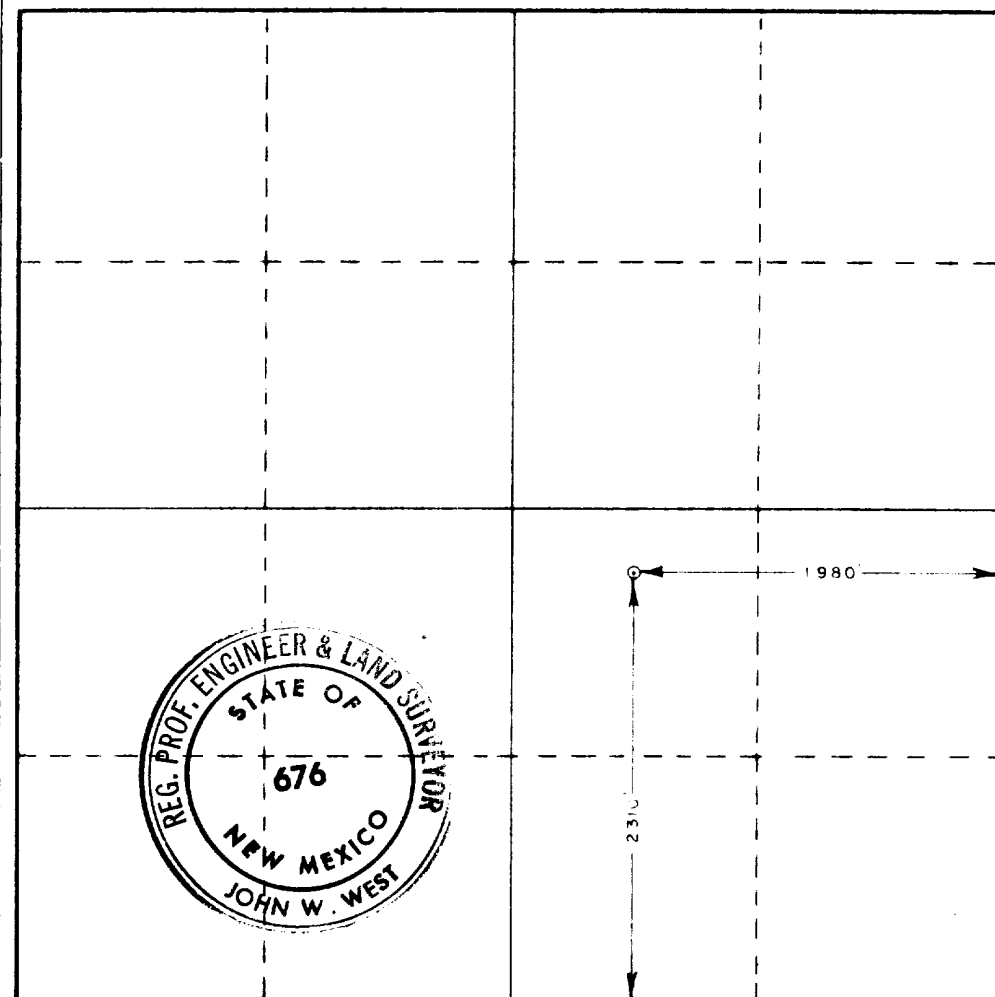
Operator <b>Sundance Oil Co.</b>			Lease <b>Langlie Federal</b>			Well No. <b>1</b>
Unit Letter <b>J</b>	Section <b>30</b>	Township <b>7 South</b>	Range <b>32 East</b>	County <b>Roosevelt</b>		
Actual Footage Location of Well: <b>2310</b> feet from the <b>South</b> line and <b>1980</b> feet from the <b>East</b> line						
Ground Level Elev. <b>4414.8</b>	Producing Formation <b>San Andres</b>		Pool <b>Tomahawk</b>		Dedicated Acreage: <b>40</b> 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.

*Richard O. Dimit*  
Name

Richard O. Dimit

Position

Vice President, Production

Company

Sundance Oil Company

Date

September 14, 1978

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 30, 1978

Registered Professional Engineer and/or Land Surveyor

*John W. West*

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



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

Sundance Oil Company, Langley Federal #1  
2310' FSL and 1980' FEL 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	1760'
Salado	1800'
Yates	2200'
San Andres	3350'
P-1	4055'
P-2	4135'
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	1760' salt
San Andres	3350' oil and gas
P-1	4055' oil and gas
P-2	4135' 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.

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:

0-1800' 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 December 25, 1978. Estimated duration of drilling operations is 10 to 12 days.

## MULTI-POINT SURFACE USE & OPERATIONS PLAN

Sundance Oil Company, Langley Federal #1  
2310' FSL and 1980' FEL 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 2310' FSL and 1980' FEL 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 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 not located on this lease.

- B. If commercial production is established, production facilities will be constructed near the well site (see Exhibit "C"). 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 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

- 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 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 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

9/14/78

Richard O. Dimit

Vice President, Production



O I L   C O M P A N Y

September 14, 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  
Langley Federal #1  
NW SW Section 30, T.7S., R.32E.  
Roosevelt County, New Mexico

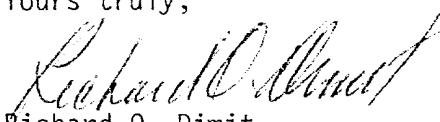
Gentlemen:

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 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 at the landowner's option.

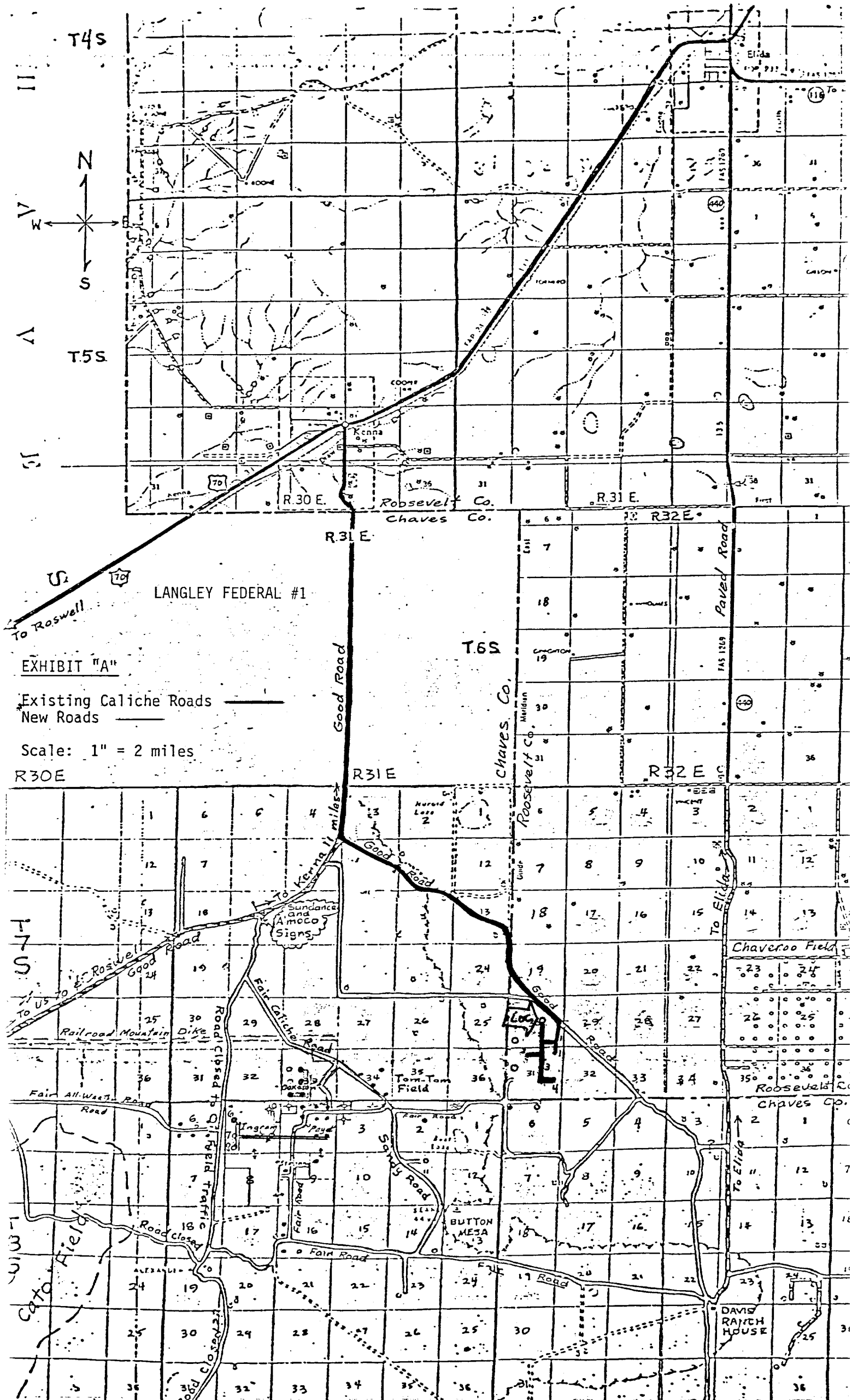
Yours truly,

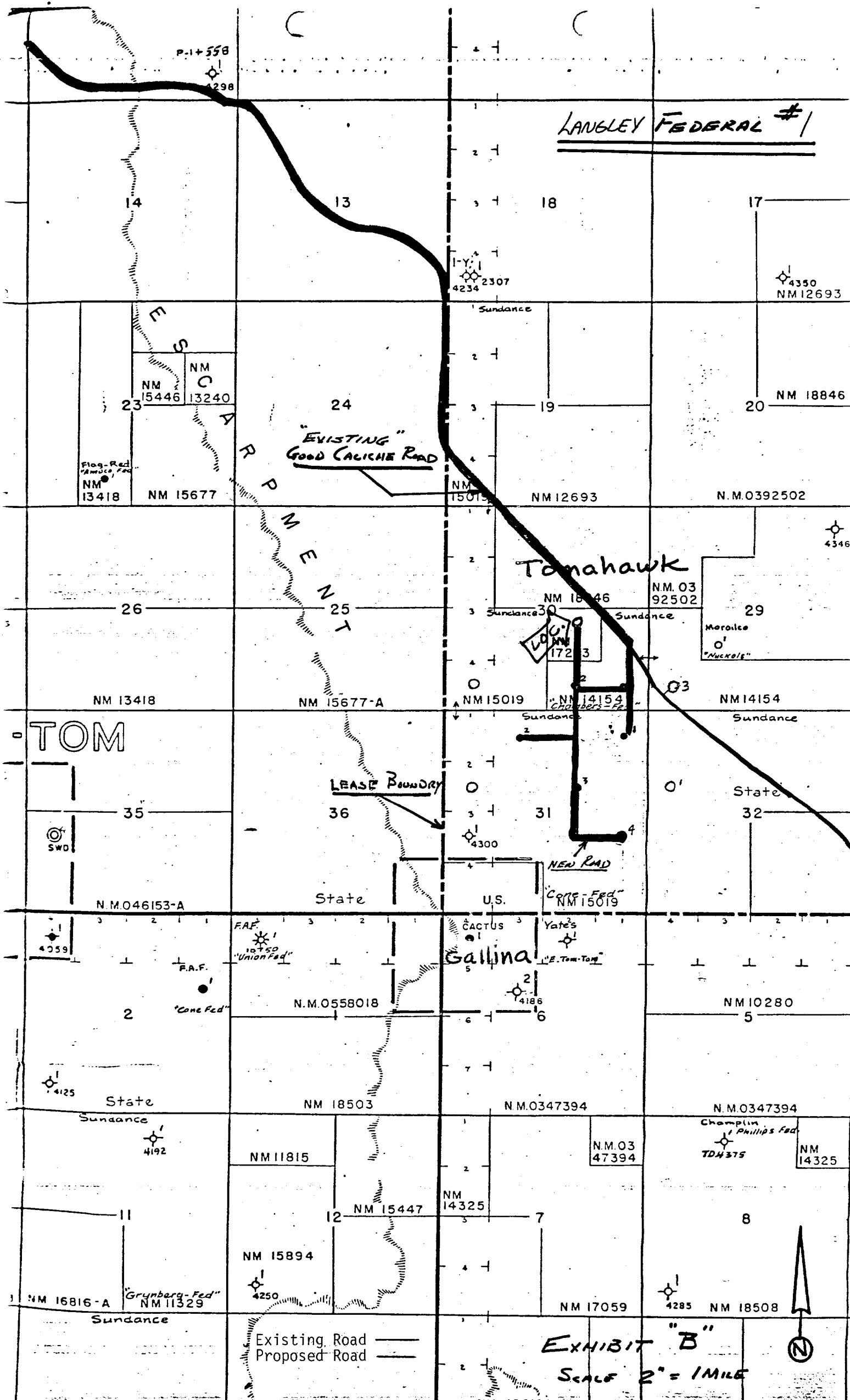
  
Richard O. Dimit  
Vice President, Production

RD:dh

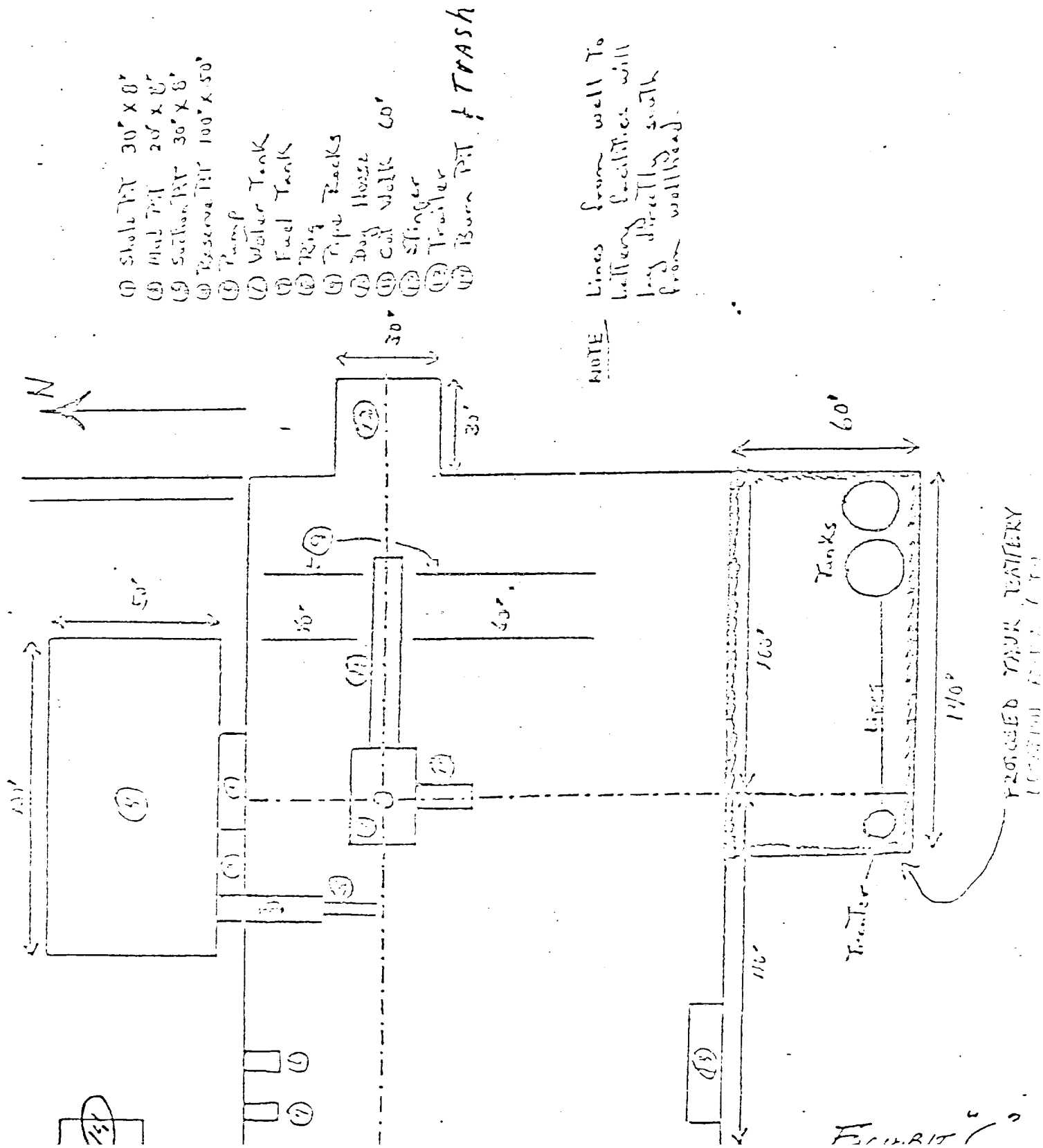
1776 Lincoln street, suite 510  
denver, colorado 80203  
telephone (303) 861-4894





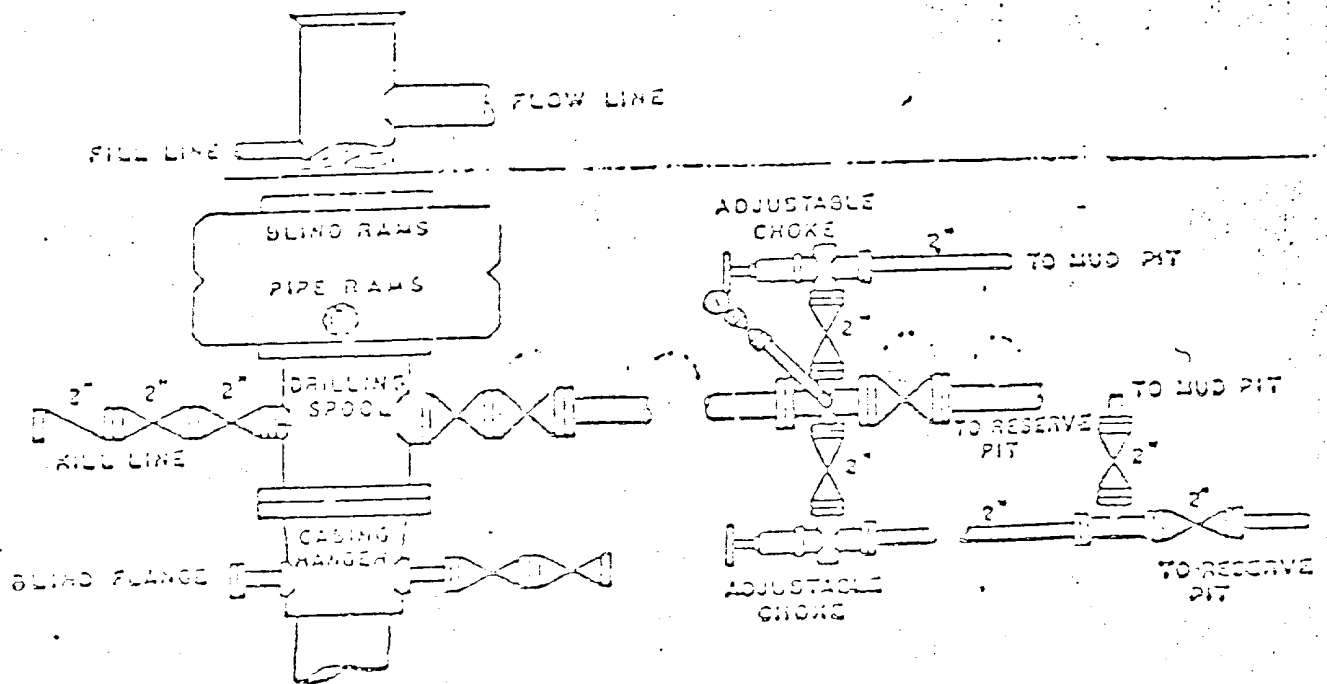


LOCATION, MUD PIT AND  
PROPOSED TANK BATTERY  
AREA SPECIFICATIONS



# BLOWOUT PREVENTER A CHOKE MANIFOLD

API 3M-8410-RdS



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