

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

C/SF

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

THE SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P.O. Box 4500 The Woodlands, Texas 77380

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

At surface

1980' FSL & 1980' FWL of Sec. 18, T14S-R24E

At proposed prod. zone

Straight Hole

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

17 miles West of Hagerman, New Mexico

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

2312.24

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

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19. PROPOSED DEPTH

6500'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40 NE of SW

20. ROTARY OR CABLE TOOLS

Rotary

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

3730' GL, 3745' KB

22. APPROX. DATE WORK WILL START\*

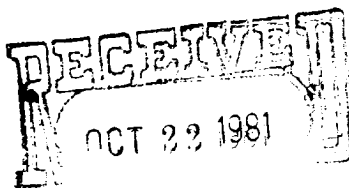
11-1-81

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5# K-55	50 CIRCULATE	Redi-Mix
11"	8-5/8"	24# K-55	1,100' CIRCULATE	975 sxs Class "C"
7-5/8"	5-1/2"	15.5# K-55	6,200'	250 sxs Class "C" & 1,080 sxs Lite

SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA - (10 Point Plan)  
BOP SKETCH  
SURFACE USE AND OPERATIONS PLAN (13 Point Plan)  
ARCHAEOLOGICAL CLEARANCE REPORT



Posted ID-1  
API + NL Book  
11-13-81

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

G. Bannantine

TITLE Regulatory Group Manager

DATE 10/20/81

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

AS AMENDED

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL

NOV 9 1981

JAMES A. GILLHAM  
DISTRICT SUPERVISOR

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.

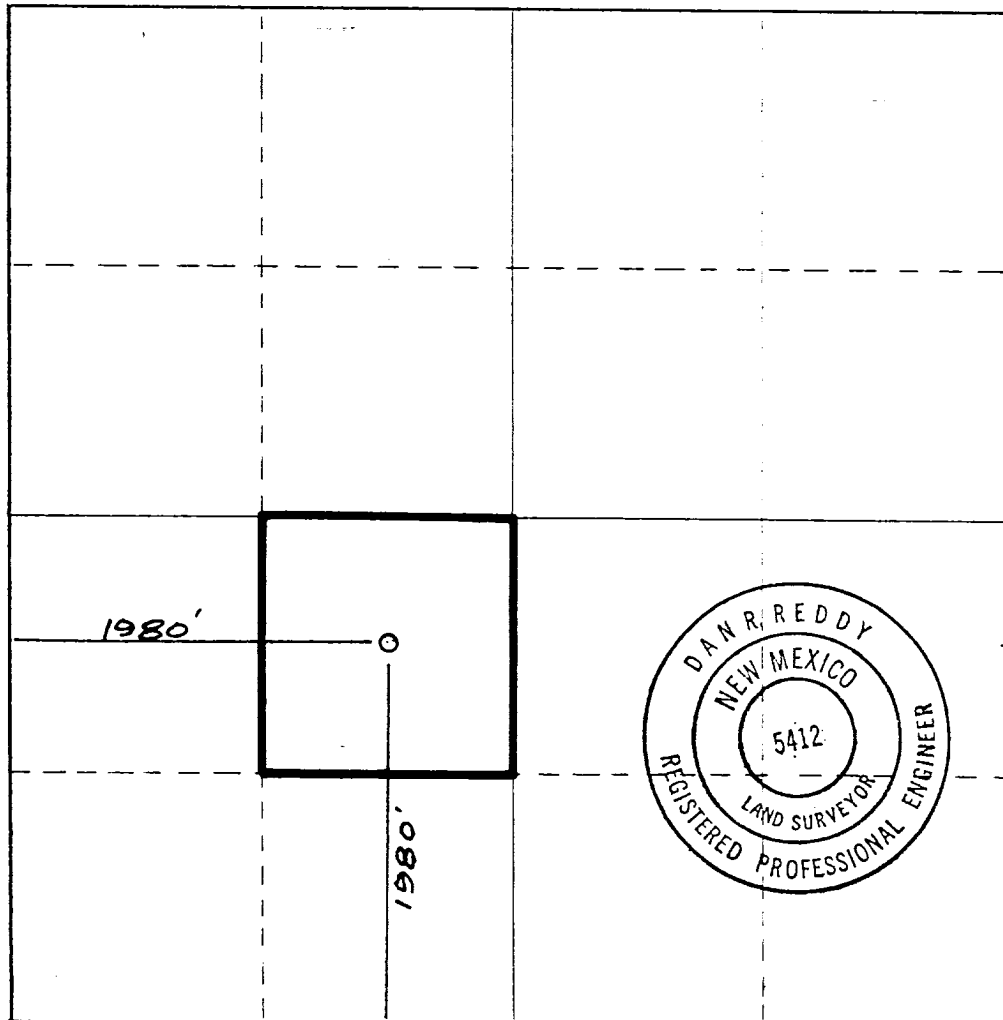
Operator <b>THE SUPERIOR OIL COMPANY</b>			Lease <b>Federal 18</b>		Well No. <b>1</b>
Unit Letter <b>K</b>	Section <b>18</b>	Township <b>14 South</b>	Range <b>24 East</b>	County <b>Chaves</b>	
Actual Footage Location of Well: <b>1980</b> feet from the <b>South</b> line and <b>1980</b> feet from the <b>West</b> line					
Ground Level Elev: <b>3746</b>	Producing Formation <b>Pre-Cambrian Grainite</b>	Pool <b>Wildcat</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.

*G. Bannantine*

Name

G. Bannantine

Position

Regulatory Group Manager

Company

The Superior Oil Company

Date

October 19, 1981

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

Oct 3, 1981

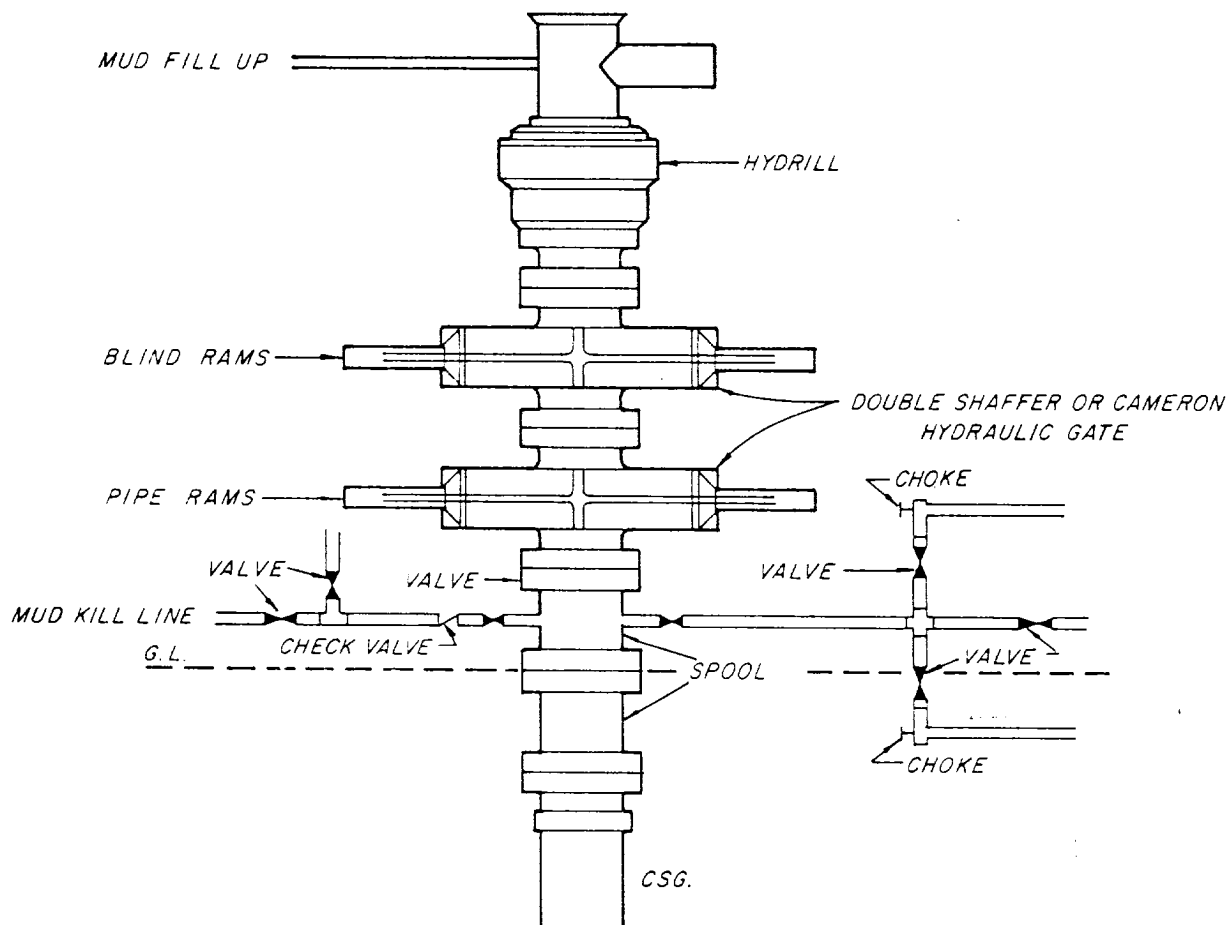
Registered Professional Engineer and/or Land Surveyor

*Dan R. Reddy*

Certificate No.

NMPE&LS 5412

330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500



## API SERIES 900

FEDERAL 18, WELL NO 1

EXHIBIT "A"

### NOTE:

Manual and Hydraulic controls with closing unit no less than 75' from well head.  
Remote controls on rig floor.

THE SUPERIOR OIL CO.		S
WESTERN DIVISION		
BLOW-OUT PREVENTER SPECIFICATIONS		
BY	DATE	

SUPPLEMENTAL DRILLING DATA

THE SUPERIOR OIL COMPANY  
FEDERAL "18" WELL NO. 1

1. SURFACE FORMATION - Recent Alluvium

2. ESTIMATED TOPS OF GEOLOGIC MARKERS

San Andres	100'
Glorieta	1,000'
Yeso	1,185'
Drinkard	2,485'
Abo	3,185'
Permo-Penn	3,639'
Pre-Mississippi	5,070'
Arkosic	5,595'
Pre-Cambrian Granite	5,895'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES

Abo	Oil or Gas
Pre-Mississippi	Oil or Gas

4. PROPOSED CASING AND CEMENTING PROGRAM

See Form 9-331C

5. PRESSURE CONTROL EQUIPMENT

Blowout prevention equipment, while drilling to the 8-5/8" casing seat will be a 3,000 psi working pressure preventer.

Blowout prevention equipment, while drilling below the 10-3/4" casing seat, will consist of 3,000 psi working pressure, double ram preventers and choke manifold and a 3,000 psi working pressure annular type preventer.

BOP sketch "Exhibit A" attached.

6. MUD PROGRAM

<u>APPROX.</u> <u>INTERVAL</u>	<u>TYPE MUD</u>	<u>WEIGHT</u> <u>#1 gal.</u>	<u>VISCOSITY</u> <u>Sec. API</u>	<u>WL</u> <u>cc/30M</u>
50-1,000'	Fresh Water	8.4-9.4	28-35	NC
1,000-6,200'	Fresh Water	9.0-9.4	35-50	8-15

7. AUXILIARY EQUIPMENT

- a. Kelly cock
- b. Flow show indicator
- c. Pit level indicator
- d. Full opening valve on floor for drill pipe being used inside BOP
- e. Gas detector
- f. Geolograph
- g. Mud loggers
- h. Mud gas separator
- i. De-gasser
- j. De-sander
- k. De-silter

8. TESTING, LOGGING AND CORING PROGRAMS

- a. Drill Stem Test:
  - 5,200' - 5,300'
  - 5,500' - 5,600'
- b. Logging:
  - Mud logger operational from Surface to 6,200'.
- c. Electric Log Program:
  - Sonic / DLL
  - CNL - FDC
  - Dipmeter
  - Velocity Survey
- d. Coring:
  - None

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS

None anticipated.

10. ANTICIPATED STARTING DATE

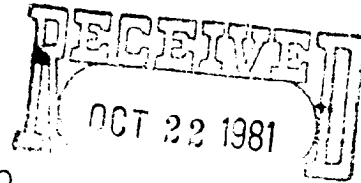
It is anticipated that operations will commence on or about November 1, 1981, with drilling and completion operations lasting about 30 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

THE SUPERIOR OIL COMPANY

FEDERAL 18, WELL NO. 1  
1980' FSL & 1980' FWL  
Section 18  
T14S-R24E

CHAVES COUNTY, NEW MEXICO



OIL & GAS  
U.S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

This plan is submitted with Form 9-331C, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations.

1. EXISTING ROADS:

- A. The proposed well location as staked is 1980' FSL and 1980' FWL of Section 18, T14S-R24E, Chaves County, New Mexico.
- B. Exhibit "A" is a portion of a road map of the area showing the location of the proposed wellsite and roads in the vicinity. The proposed location is situated 17 miles West of Hagerman, New Mexico.
- C. Travel North out of Artesia for 20 miles on State Hwy. 285 to intersection of State Hwy. 13. Turn West on Hwy. 13 and go approximately 8-1/2 miles to a County road. Turn right and proceed North-east approximately 2 miles to ranch road. Turn East and go approximately 3,000' and turn to the North 200' to proposed wellsite. See Exhibit "B".

2. PLANNED ACCESS ROAD:

- A. The existing ranch road will be upgraded and approximately 200' of new access road will be built. All access roads into the proposed location will be constructed to be 12 feet wide with 20' clearance. These roads will be crowned with six (6") inches of compacted caliche with drainage to both sides. The center line of the proposed road has been staked and flagged.

- B. A cattle guard will be installed at the intersection of the ranch road with the access road. No turnouts will be necessary. See Exhibit "B".

3. LOCATION OF EXISTING WELLS:

- A. The proposed well is an exploratory well and there are no existing wells within a two (2) mile radius of this location. See Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are no producing wells on this lease at this time. In the event that the proposed well is productive, the necessary production facilities will be installed on the drilling pad.
- B. All produced liquids will be contained in steel or fiberglass tanks and locking devices will be placed on all production equipment. No unattended open pits or reservoirs will be left at the wellsite and no additional surface disturbance will be necessary.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. No water well will be drilled. The water necessary for drilling operations will be purchased from a commercial source and trucked over existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

- A. Caliche required for construction of the drilling pad and new access roads will be excavated and hauled from an existing caliche pit on Fee Land located in the NW 1/2 of SW 1/4 of Section 13, T14S-R24E. See Exhibit "B".

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 test 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 pits is shown on Exhibit "D". (Alternate - all trash, junk and other waste material will be contained to prevent scattering and will be removed and deposited in an approved sanitary landfill.)
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drill and/or completion operations.

8. ANCILLARY FACILITIES:

- A. None required.

9. WELL SITE LAYOUT:

- A. See Exhibit "D" for dimensions and wellsite layout of proposed location.

10. PLANS FOR RESTORATION OF SURFACE:

- A. All pits will be back filled and all waste material removed or buried in pits. Land adjacent to drilling pad will be levelled.
- B. Re-vegetation and rehabilitation to be completed as per BLM recommendations.
- C. Prior to rig release, pits will be fenced so maintained until clean up.
- D. Any oil in pit will be transferred to steel stock tank and separated and sold.
- E. All clean up should be completed within 6 months of well completion.

11. OTHER INFORMATION:

- A. See Archaeological Clearance Report attached.
- B. The well location is situated entirely in Section 18 which is Federally owned. No lake, water well, or streams will occupy dwellings exist in this area.

12. OPERATOR's REPRESENTATIVES:

G.E. Tate  
Operations Superintendent  
Midland Division  
The Superior Oil Company  
P.O. Box 3901  
Midland, Texas 79702  
Telephone: (915) 684-0884

R.W. True  
Drilling Superintendent  
Midland Division  
The Superior Oil Company  
P.O. Box 3901  
Midland, Texas 79702  
Telephone: (915) 684.0884

G. Bannantine  
Regulatory Affairs Manager  
The Superior Oil Company  
P.O. Box 4500  
The Woodlands, Texas 77380  
Telephone: (713) 363-5190

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 Successful Bidder and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

10 - 20 - 81


Date

G. Bannantine

G. Bannantine  
Regulatory Affairs Manager

**THE SUPERIOR OIL CO.**

**WESTERN DIVISION**

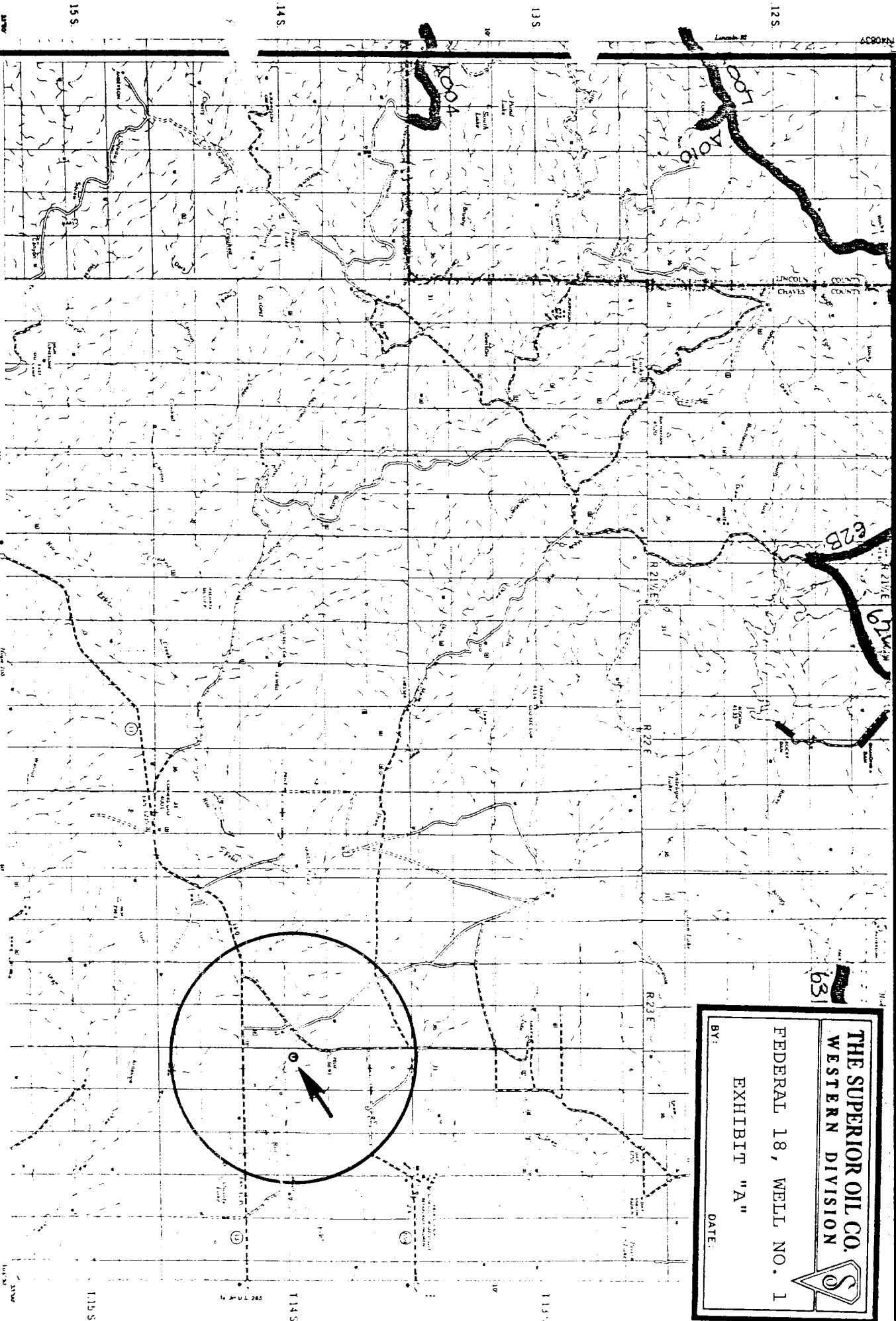


FEDERAL 18, WELL NO. 1

EXHIBIT "A"

BY:

DATE:



1975

Scale: 1 inch = 3 miles

QUADRANGLE 93

ROSWELL, NEW MEXICO

LINCOLN COUNTY, NEW MEXICO

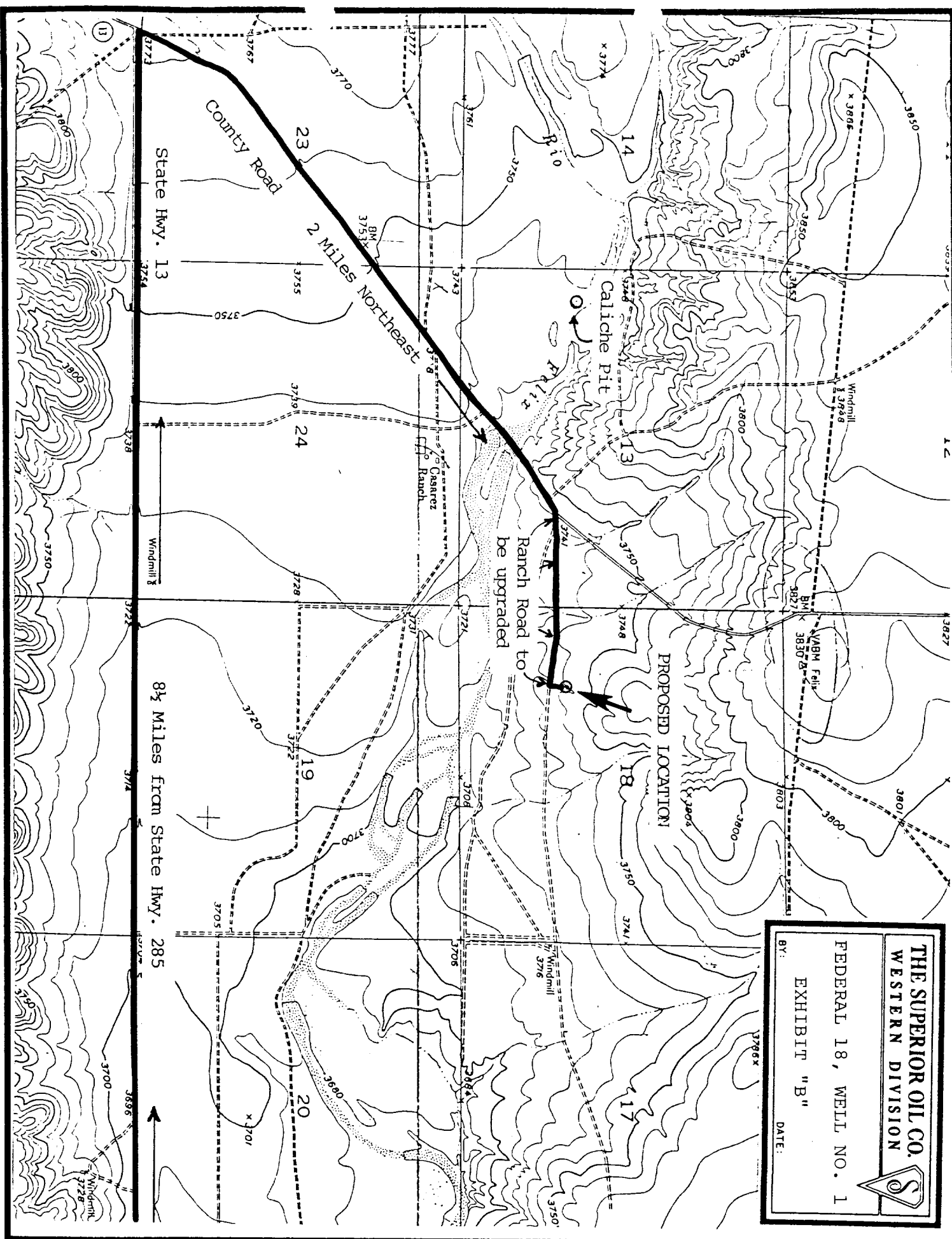
CHAVES COUNTY, NEW MEXICO

FEDERAL 18, WELL NO. 1

EXHIBIT "A"

BY:

DATE:



**THE SUPERIOR OIL CO.**

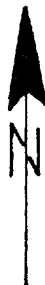
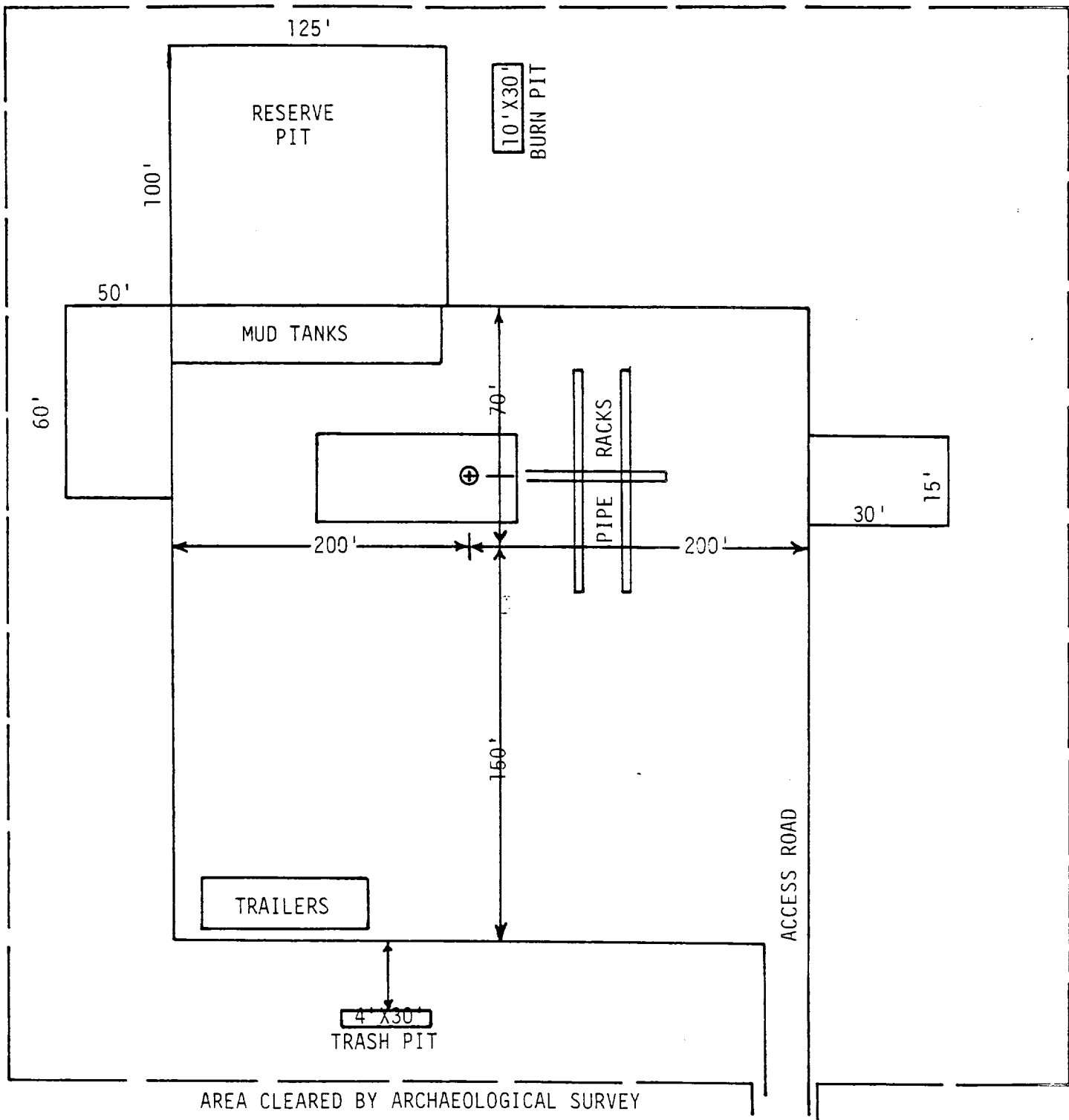
**WESTERN DIVISION**

**FEDERAL 18, WELL NO. 1**

**EXHIBIT "B"**

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



<b>THE SUPERIOR OIL CO.</b> <b>WESTERN DIVISION</b>		
FEDERAL 18, WELL NO. 1		
EXHIBIT "D"		