

UNITED STATES 88210
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Fred Pool Drilling, Inc. ✓

3. ADDRESS OF OPERATOR

P.O. Box 1393, Roswell, N.M. 88201

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

At surface

660' FWL and 810 FSL

At proposed prod. zone

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

17.5 miles N E of Carlsbad, N.M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drilg. unit line, if any)

510'

16. NO. OF ACRES IN LEASE

400

19. PROPOSED DEPTH

5000'

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3321' Gr

22. APPROX. DATE WORK WILL START*

Sept. 30, 1990

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	75#	350'	Sufficient to circulate
14 3/4	11 3/4	47#	1200'	" CIRCULATE "
11"	7"	23#	3200'	" ? see slips
6 1/2	4 1/2	11.6#	5000'	

Attachments: 1) C-102; Form 3160-3

Post ID-1
6-22-90
New Loc + RPI

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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

Fred Pool

TITLE Vice President

DATE 2-13-90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

AREA MANAGER

CARLSBAD RESOURCE AREA

Orig. Signed by Richard L. Morris

TITLE

DATE

6-14-90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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.

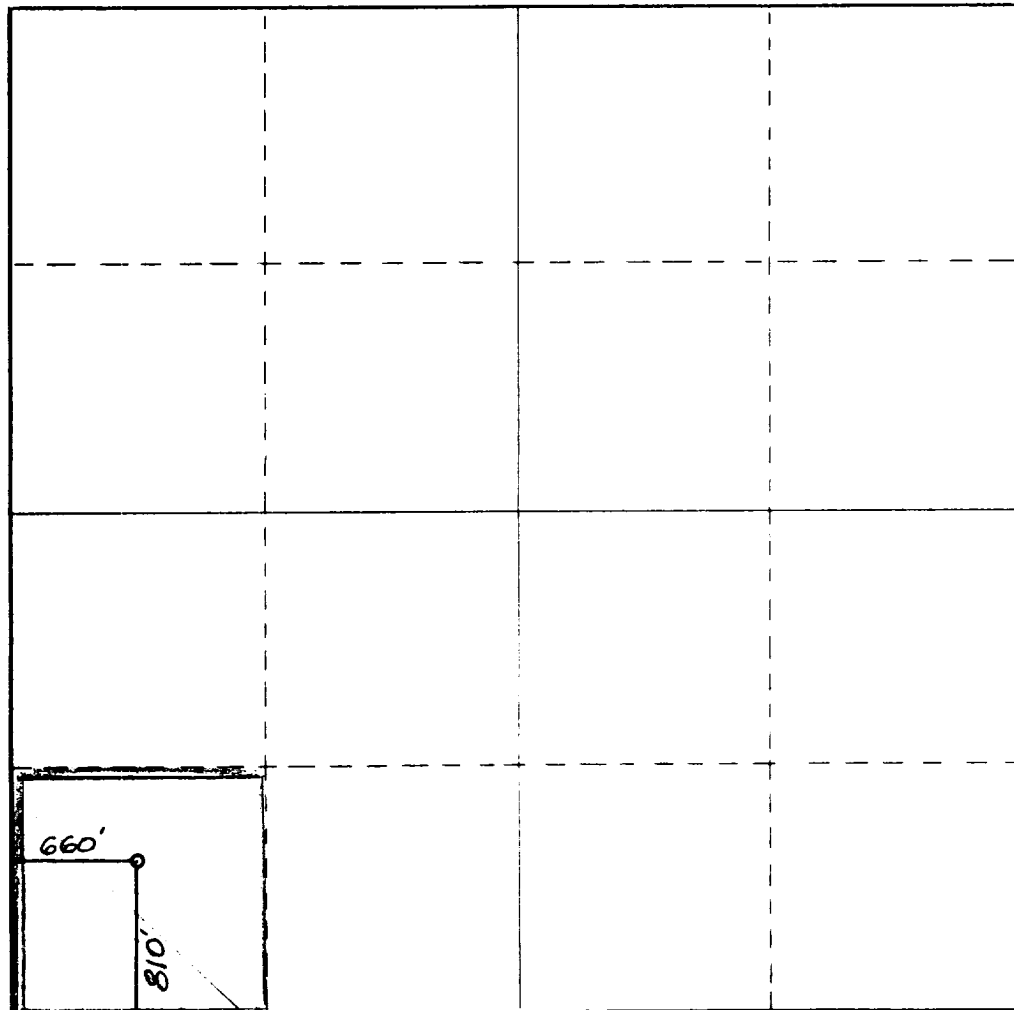
Operator FRED POOL DRILLING, INC.			Lease Ronadero Federal			Well No. 4		
Unit Letter M	Section 31	Township 19 South		Range 30 East	County Eddy County, N.M.			
Actual Footage Location of Well: 660 feet from the West line and 810 feet from the South line								
Ground Level Elev. 3321.	Producing Formation Delaware		Pool Wildcat			Dedicated Acreage: 40 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.

Penta Pool

Name

Vice President

Position

Fred Pool Drllg. Inc.

Company

Feb. 13, 1990

Date

Penta Pool

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

January 26, 1990

Registered Professional Engineer and/or Land Surveyor

Dan R. Reddy

Certificate No.

NM PE&PS NO. 5412

RECEIVED

SUPPLEMENTAL DRILLING DATA

FRED POOL DRILLING, INC.
 RONADERO FEDERAL NO.4
 SW/4 SW/4 SEC. 31, T19S, R30E
 Eddy County, New Mexico

MAY 16 10 53 AM '90
 CARLOS J. ROSE
 AREA SUPERVISOR

1) SURFACE FORMATION: Artesia Group of Permian Age. Elevation 3321 ft.

2) ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	340
Base Salt	1150
Yates	1300
Seven Rivers	1610
Delaware Sand	3515

3) ANTICIPATED POROSITY ZONES:

Fresh Water	250
Capitan Reef	2000 to 3200
Oil and Gas	3900 to 4800

4) CASING PROGRAM DESIGN:

INTERVAL	SIZE	WEIGHT	GRADE
0 - 350	16"	75#	K-55
0 - 1200	11 3/4"	47#	K-55
0 - 3200	7"	23#	K-55
0 - 5000' TD	4 1/2"	10.5#	K-55

5) SURFACE CONTROL EQUIPMENT:

A double-ram type BOP will be used.

6) CIRCULATING MEDIUM:

Fresh water mud conditioned as necessary for control of viscosity and water loss, except the salt section, which will be drilled with brine water.

7) AUXILLIARY EQUIPMENT: None considered necessary.

8) TESTING, LOGGING, AND CORING:

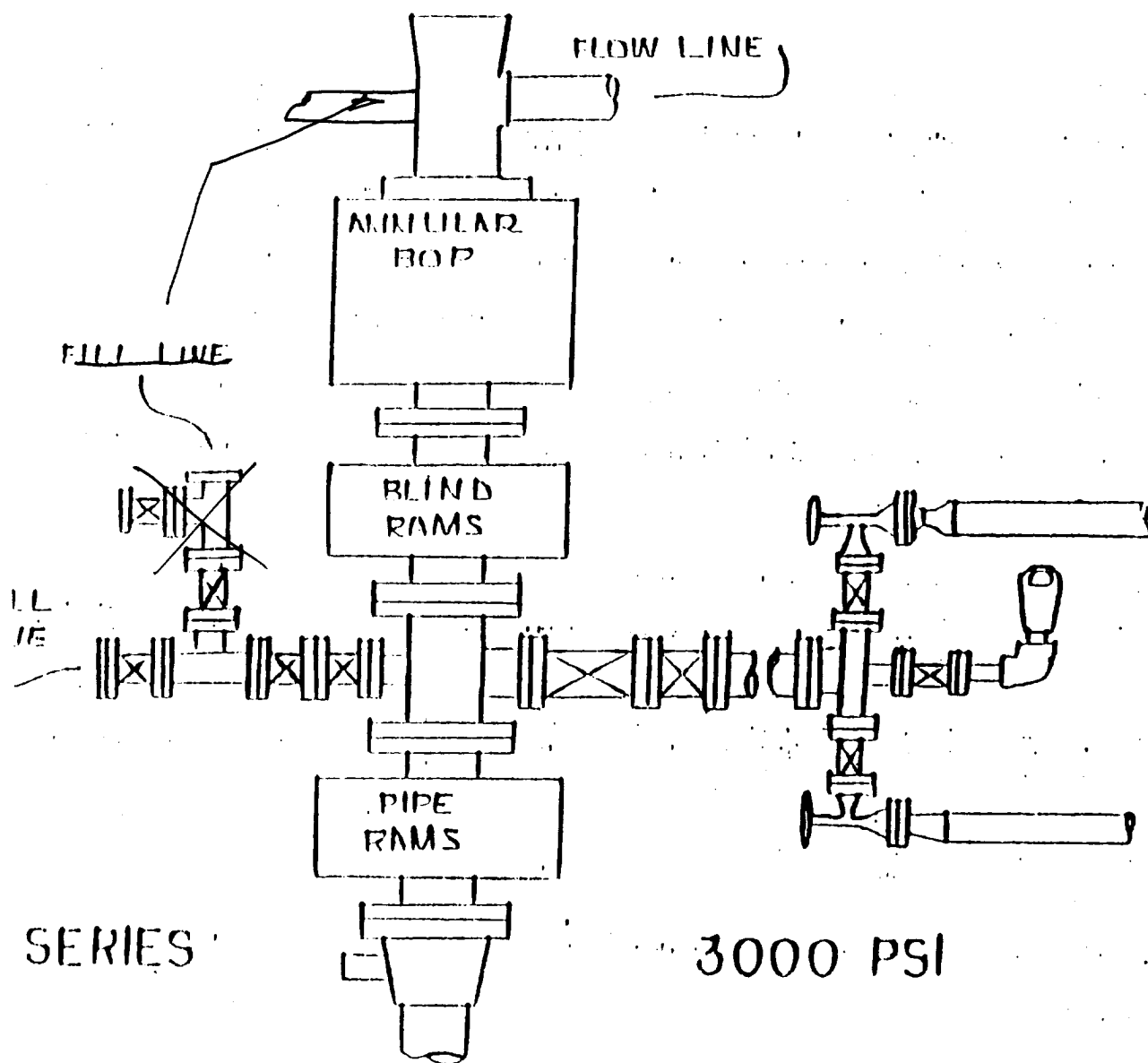
No coring or DST's are planned. A mudlogging unit will be used. Electric logs will include a CNL-FDC and a DLL-RXO with GR and hole caliper.

9) ABNORMAL PRESSURES, TEMPERATURES OR CASES: None Anticipated.

10) ANTICIPATED STARTING DATE:

It is planned that operations will commence about July 1, 1990. Duration of drilling, completion, and testing operations could be two to six weeks.

BOP



ROAD LOG TO PROPOSED DRILL SITE
ROMADERO FEDERAL NO. 4

Starting Point is approximately 12.5 miles east of Carlsbad, NM at the junction of US 62 - 180 with NM 31.

- 0.00 Exit US 62-180 to the north and proceed northeast on paved NM-31 for approximately 6.0 miles to the junction of NM-31 and 360.
- 6.00 At this point turn left on county road and continue northwest for 4.0 miles.
- 10.00 Turn left and go south 1/2 mile on dirt road, turn right and go west 1/2 mile on dirt road, turn left and go south again 1/2 mile on dirt road to the start of the proposed new access road.
- 11.50 Go East for 3/4 mile to well pad of Romadero Federal #1, Go South for approximately 1/4 mile to proposed well pad.
- 12.50 Drillsite.

SURFACE USE PLAN
FOR
DRILLING, COMPLETING AND PRODUCING

FRED POOL DRILLING, INC.
RONADERO FEDERAL NO.4
SW/4SW/4 Sec. 31, T19S, R30E
EDDY COUNTY, NEW MEXICO

LOCATED: 17 air miles Northeast of Carlsbad, New Mexico.

OIL AND GAS LEASE: NM 58815

RECORD LESSEE: Nancy Hanagan

OPERATOR'S AUTHORITY: Designation of Operator from Lessee.

BOND COVERAGE: Fred Pool Drilling, Inc. Blanket Bond #AR 7138939.

ACRES IN LEASE: 160 acres.

SURFACE OWNER: U.S. Government with a grazing permit issued to Snyder Ranches, Box 2158, Hobbs, NM 88241

WELL SPACING: 40-acres (Parkway Delaware).

EXHIBITS:

- A. County Road Map
- B. Plat of Proposed New Road
- C. Oil and Gas Map
- D. Sketch of Well Pad

THIRTEEN POINT PROGRAM

- 1) Existing roads: Existing roads which lead to the proposed drillsite are shown on Exhibit "A".
- 2) Proposed New Road: The proposed new road is shown on Exhibits "A" & "B".
- 3) Location of Existing Wells: Existing wells in the vicinity of the proposed drillsite are shown on exhibit "C".
- 4) Location of Existing and/or Proposed Facilities: This is a new lease and production facilities will be placed on the well pad.
- 5) Location and Type of Water Supply: Fresh water will come from a supply well 1/4 mile north. Brine water will be purchased.
- 6) Source of Construction Materials: Materials needed for construction of the wellpad and road will be obtained from material found in place.
- 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 the pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits.
 - D. Oil produced during tests will be stored in test tanks until sold.
 - E. Trash, waste paper, garbage, and junk will be buried in a 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 the trash pit is shown on Exhibit "D".
 - F. All trash and debris will be buried or removed from the wellsite within 45 days after finishing drilling and/or completion operations.
- 8) Ancillary Facilities: None Anticipated.
- 9) Wellsite Layout:
 - A. The wellsite has been surveyed and a 400' x 400' area has been staked and flagged.
 - B. The dimensions and relative location of the drill pad, mud pit, and trash pit with respect to the well bore are shown on Exhibit "D".
 - C. The well pad will be surfaced with material found in place.

10) Plans for Restoration of the Surface:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, all equipment, trash and junk will be removed and the location cleaned.

11) Other Information:

- A. Topography: The undisturbed wellsite is at an elevation of 3321 ft.
- B. Soil: Top soil at the wellsite is gypsy loam.
- C. Land Type & Use: The vacinity surrounding the drillsite is semi-arid rangeland and its primary use is for grazing and for the production of oil and gas.
- D. Flora: Vegetative cover is sparse. Flora consists primarily of grass interspersed with mesquite and desert weeds.
- E. Fauna: No wildlife was observed, however fauna for this type of habitat normally consists of lizards, snakes, rabbits, rodents, quail, dove and other small birds.
- F. Ponds & Streams: None.
- G. Water Wells: Nearest water well is 1/4 mile to the North.
- H. Residences & Other Structures: There are no occupied dwellings in the vicinity.
- I. Archaeological, Historical & Cultural Sites: An archaeological survey has been done by Archaeological Survey Consultants, ASC report has been sent under separate cover.

12) Operator's Representative: Representative responsible for assuring compliance with the approved surface use plan:

Fred F. Pool, III - Box 1393, Roswell, New Mexico 88202
Phone: office - (505) 623-8202 or home - (505) 622-4818

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 Fred Pool Drilling, Inc. and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

F. F. Pool III

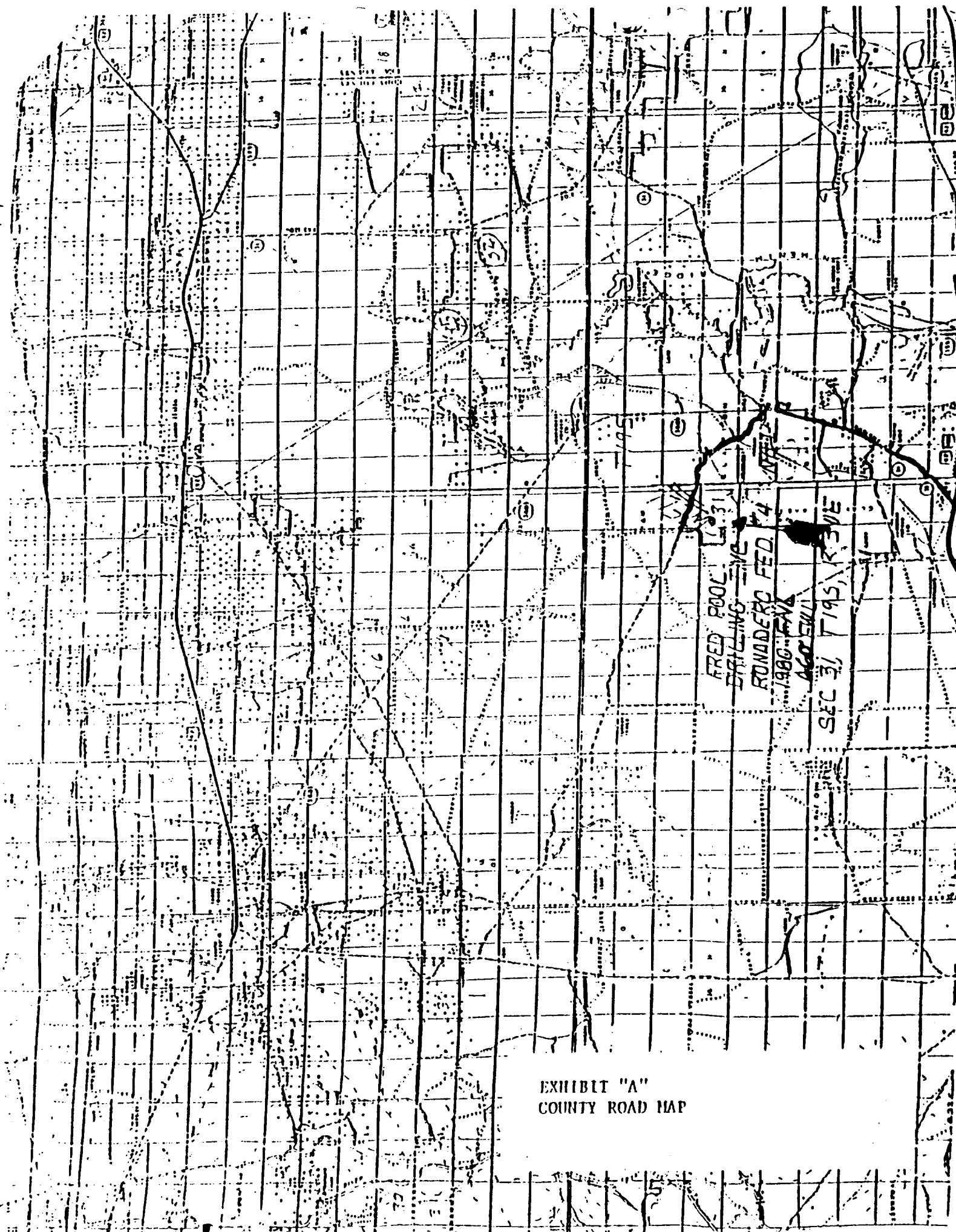
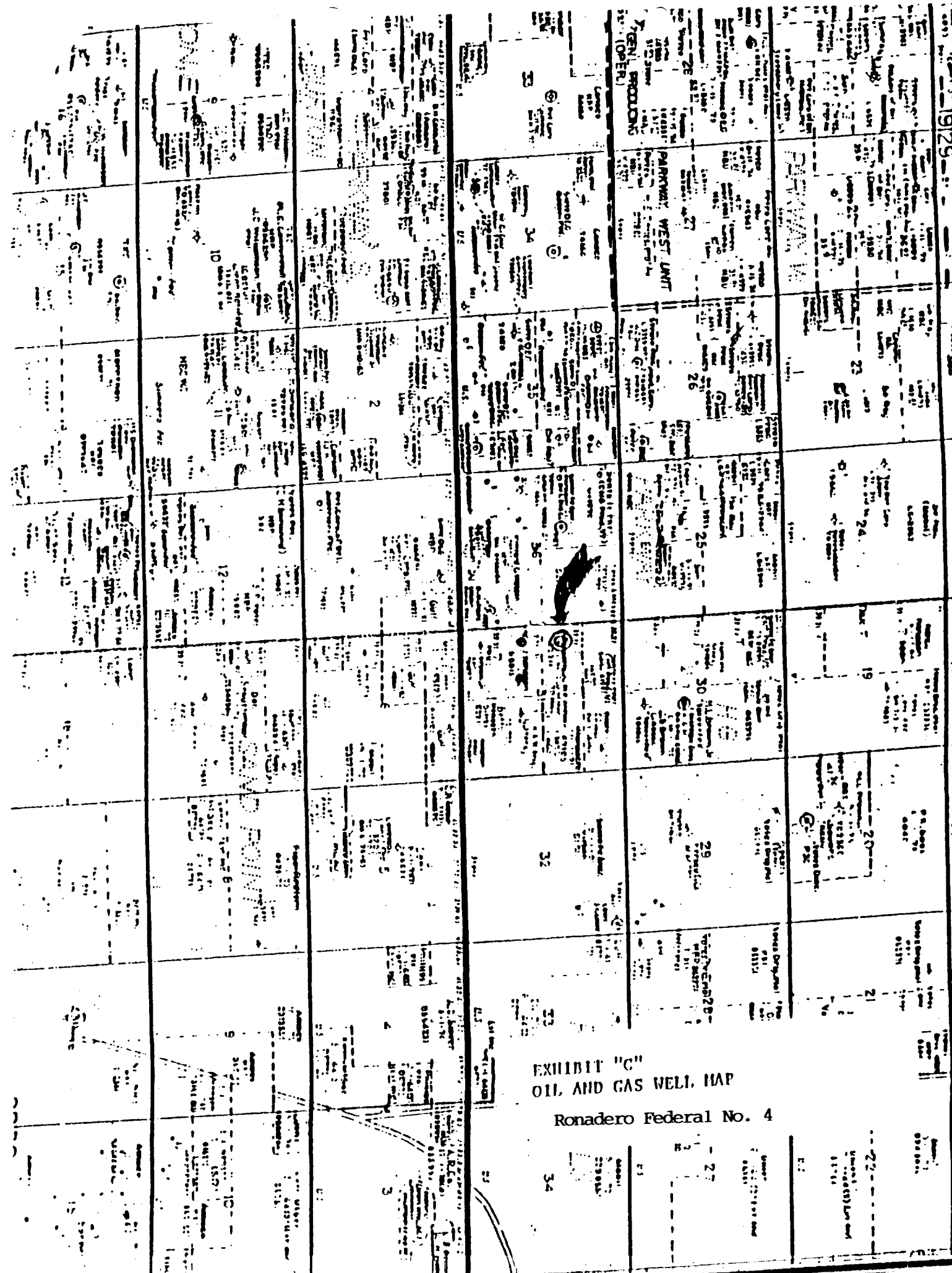


EXHIBIT "A"
COUNTY ROAD MAP

1925

EXHIBIT "C"
OIL AND GAS WELL MAP

Ronadero Federal No. 4



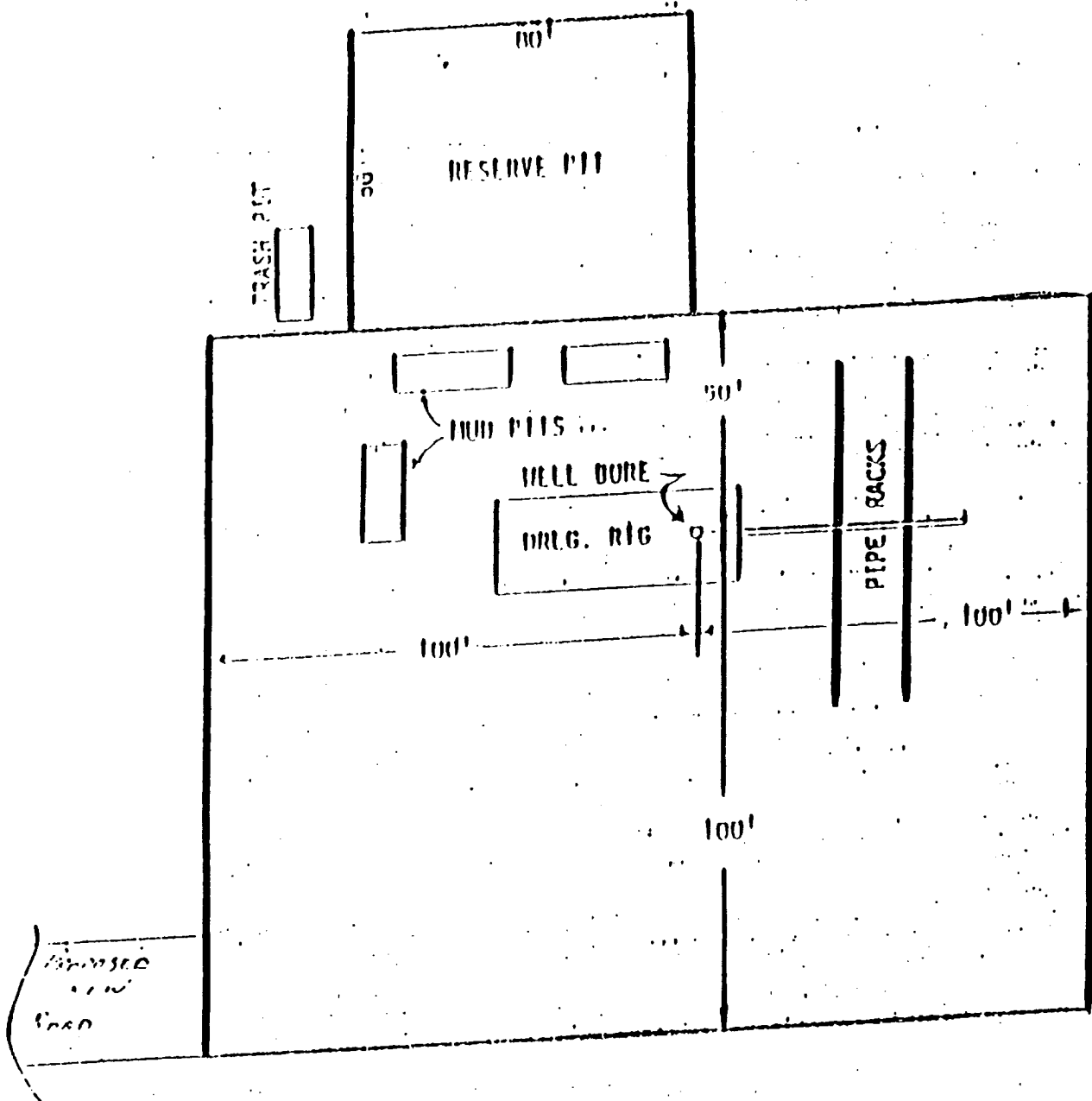


EXHIBIT "D"
SKETCH OF WELL PAD