

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-23868

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

FULLER PETROLEUM, INC.

(Ph. 817-336-2020)

3. ADDRESS OF OPERATOR

2020 Fort Worth National Bank Bldg., Fort Worth, Texas 76102

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

At surface

990' FNL & 1980' FWL of Sec. 24-26S-29E JUL 15 1981

At proposed prod. zone

Same

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

32 air miles south-southeast of Carlsbad, N. M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

990'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

700'

19. PROPOSED DEPTH

15000' Morrow

20. ROTARY OR CABLE TOOLS

Rotary

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

2977 G. L.

22. APPROX. DATE WORK WILL START*

8-1-81 (Spud)

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	94#	350	Circulate cement to surface
17½"	13 3/8"	61#, 54.5#	3500	Circulate cement to surface
12¼"	9 5/8"	53.5, 47, 43.5#	11500	500-1000 sacks
8½ & 7 7/8"	5½" liner	20#	11100-15000	Circulate liner

ALTERNATE LINER PROGRAM*

8½"	7 5/8" liner	39#	11100-13500	Circulate liner
6½"	5 1/2" liner	23#	13100-15000	Circulate liner

* If abnormal pressures are encountered in the Lower Wolfcamp and/or Atoka formations, the Alternate Liner Program will be followed.

Well will be drilled to the base of the Morrow formation and all potential pay zones below 5000' will be evaluated. If commercial production is indicated well will be selectively perforated and stimulated. Gas is dedicated. See attached for:

1. Well Location and Acreage Dedication Plat
2. Supplemental Drilling Data
3. Surface Use Plan

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

C. W. Downey, Jr.

TITLE

Operations Manager

DATE

June 30, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

JUL 14 1981

FOR

JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-85

All distances must be from the outer boundaries of the Section

Fuller Petroleum Inc.				Brushy Draw Deep				1	
C	24	26	South	29	East	Eddy			
990		north		1980		west			
2977.3		Wolfcamp & Morrow		Wildcat		320			

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty)
Federal Oil & Gas Lease LC 061581 is only lease involved.
- 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, force-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.

C. W. Downey, Jr.

C. W. Downey, Jr.

Operations Manager

Fuller Petroleum, Inc.

June 30, 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
5/28/81

Registered Professional Engineer
and Land Surveyor

John W. West

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6668
Ronald J. Eidson 3239

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

SUPPLEMENTAL DRILLING DATA

FULLER PETROLEUM, INC.
WELL NO. 1 BRUSHY DRAW DEEP FEDERAL
990' FNL & 1980' FWL SEC. 24-26S-29E
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Sandy soils of Quaternary Age

2. ESTIMATED GEOLOGIC TOPS:

Anhydrite	350'	1st B.S. Sand	7910'
Salado	470'	2nd B.S. Sand	8560'
Base Lower Salt	2950'	3rd B.S. Sand	8790'
Delaware Lime	3155'	Wolfcamp Shale	9410'
Trap	3190'	Wolfcamp Lime	11680'
Ramsey	3200'	Strawn	13130'
Ford	3250'	Atoka	13270'
Olds	3270'	Morrow	13800'
Cherry Canyon	4110'	Morrow Clastics	13950'
Brushy Canyon	5260'	Barnett	14350'
Bone Springs	7000'	Miss. Lime	14850'

3. POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

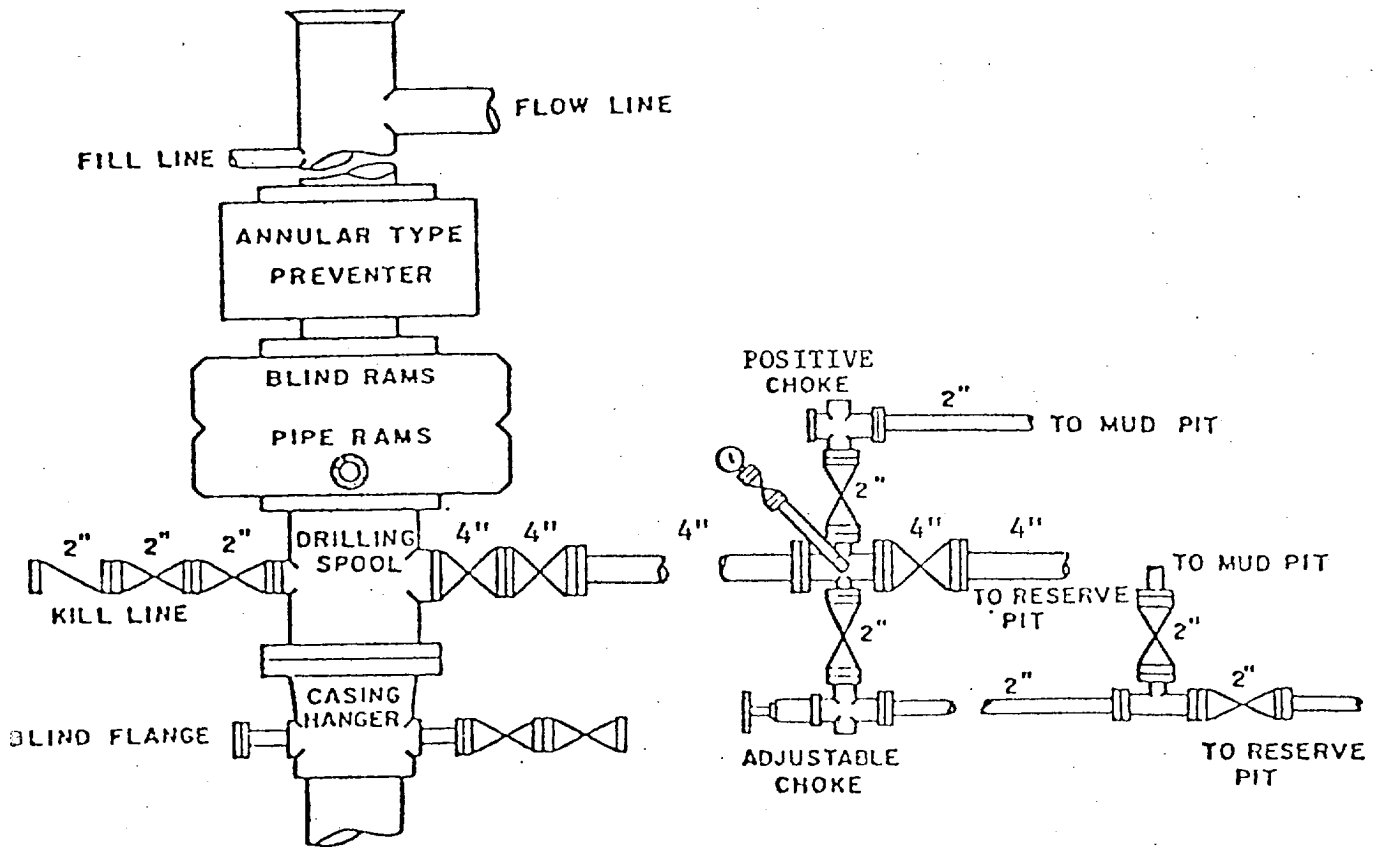
Water: Above 200'
Gas: Bone Springs, Wolfcamp, Atoka, Morrow

4. PROPOSED CASING PROGRAM:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Condition</u>
20"	00000 - 00350'	94#	J-55	STC	New
13 3/8"	00000 - 00800'	61#	S-80	STC	New
	00800 - 01600'	61#	K-55	STC	New
	01600 - 03500'	54.5#	K-55	STC	New
9 5/8"	00000 - 01500'	53.5#	S-95	LTC	New
	01500 - 03500'	47.0#	S-95	LTC	New
	03500 - 11500'	43.5#	S-95	LTC	New
7 5/8"	11100 - 13500'	39.0#	S-95	FJ	New
5 1/2"	13100 - 15000'	23.0#	S-105	FJ	New

5. PRESSURE CONTROL EQUIPMENT: Blowout preventer stack will consist of an annular-type preventer and a dual ram-type preventer with 5000 psi working pressure. A sketch of BOP is attached.
6. PROPOSED MUD PROGRAM:
 - 00000-00350' Fresh water with gel added as needed for viscosity control. For seepage control, paper will be added.
 - 00350-03500' Brine with salt gel added as needed for viscosity control and lime added as needed for pH control.
 - 03500-11500' Cut brine treated as necessary for control of weight, viscosity, and pH.
 - 11500-13500' Controlled brine weighted as necessary for well control. Sufficient weighting material will be kept on location to handle anticipated pressures.
 - 13500-15000' Brine or Benex-type drilling fluid, conditioned as necessary for control of viscosity and water loss.
7. AUXILIARY EQUIPMENT: Drill string safety valves will be maintained on the rig floor in the open position at all times while drilling operations are in progress.
8. TESTING, LOGGING AND CORING PROGRAMS:
 - A. Possible DST's in Bone Springs, Wolfcamp, Atoka, and Morrow.
 - B. No coring is anticipated.
 - C. CNL-FDC w/GR and caliper; DIL w/Rxo, 3500' to TD.
9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS: Abnormal pressures, requiring mud up to 15½# for well control, may be encountered in the lower Wolfcamp and/or Atoka formations. Sufficient weighting material will be kept on location to handle any anticipated pressures.
10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:
 - A. Road and pad construction: July 25, 1981
 - B. Spud well: August 1, 1981
 - C. Duration of drilling and completion operations should be about 120-150 days.

BLOWOUT PREVENTOR SKETCH



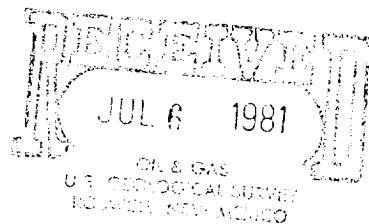
5000 lb. WP BOP

SDD EXHIBIT "A"
 FULLER PETROLEUM, INC.
 WELL NO. 1 BRUSHY DRAW DEEP FEDERAL
 990' FNL & 1980' FWL SEC. 24-26S-29E

SURFACE USE PLAN

FOR

DRILLING, COMPLETING AND PRODUCING



FULLER PETROLEUM, INC.
WELL NO. 1 BRUSHY DRAW DEEP FEDERAL
990' FNL & 1980' FWL SEC. 24-26S-29E
EDDY COUNTY, NEW MEXICO

LOCATED: 32 air miles south-southeast of Carlsbad, N. M.
2 air miles north of Texas State line.

FEDERAL LEASE NUMBER: L. C. 061581

LEASE ISSUED: 6-1-49 for a primary term of 5 years and is in
its extended term by production.

RECORD LESSEE: Gulf Oil Corporation

OPERATOR'S AUTHORITY: Designation of Operator from Gulf Oil Corp.

BOND COVERAGE: Gulf's \$150,000 Nation-wide Bond

ACRES IN LEASE: 640

SURFACE OWNERSHIP: Federal

GRAZING PERMITTEE: Herman Lindley
P. O. Box 213, Mentone, Texas 79754

POOL: Wildcat (320-acre spacing/Morrow Gas).

EXHIBITS:

- A. Portion of Eddy County Road Map
- B. Portion of Ross Ranch Quadrangle
- C. Portions of USGS Lease Maps #26 & #27
- D. Sketch of Well Pad

ROAD LOG TO PROPOSED DRILLSITE

STARTING POINT is on Federal Highway US-285 at Milepost 3.8. This point is 27 miles south of Carlsbad, N. M. and is at the intersection of a paved county road and US-285.

- 0.00 Turn left (east-northeast) through a cattleguard and follow paved road for a distance of 2.96 miles to end of paved road. (Route crosses railroad at Milepoint 2.48.)
- 2.96 Continue straight ahead on unpaved pipeline road and proceed in an easterly direction for a distance of 4.09 miles to a "D. B. Baxter Ross Draw Unit" sign. (Route crosses Pecos River at Milepoint 3.75 and passes ranch house at Milepoint 6.48.)
- 7.05 Turn right (south through cattleguard) on a ranch road and proceed in a southerly direction for a distance of 1.78 miles to a fork in the road.
- 8.83 Turn right (south) on ranch road and proceed in a south-southwesterly direction for a distance of 0.55 miles.
- 9.38 Turn left (east) on ranch road and proceed in an easterly direction for a distance of 1.34 miles (Route passes Hankamer's #1 Batie Well in NW-NW 24-26S-29E at Milepoint 10.47.)
- 10.72 New road will start at this point. Turn left (northeast) and proceed in a northeasterly direction for a distance of 0.14 miles to the southwest corner of the proposed well pad.
- 10.86 PROPOSED DRILLSITE (Well #1 Brushy Draw Deep Federal).

THIRTEEN POINT PROGRAM

1. EXISTING ROADS:

- A. Existing roads, which lead to the proposed drillsite, are shown on Exhibits "A" & "B".

2. PROPOSED NEW ACCESS ROAD:

- A. Dimensions: Proposed new road will be 0.14 mile in length and proposed route is shown on Exhibit "B". It will originate at Milepoint 10.72 on the road log and will terminate at the southwest corner of the proposed well pad. The center of the proposed new road has been staked and flagged.

- B. Width: 12 feet with a 20-foot R-O-W.
 - C. Surfacing Material: The new road will be surfaced with caliche.
 - D. Maximum Grade: Less than one percent.
 - E. Turnouts: None are necessary.
 - F. Drainage Design: New road will be crowned with drainage to the side.
 - G. Culverts: None are necessary.
 - H. Gates, Cattleguards: None are necessary.
3. LOCATION OF EXISTING WELLS:
- A. Existing wells in the vicinity of the proposed drillsite are shown on Exhibit "C".
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
- A. Fuller Petroleum, Inc. has no production facilities on the leasehold.
 - B. If the well is productive, production and storage facilities will be located on the well pad.
5. LOCATION AND TYPE OF WATER SUPPLY:
- A. It is not planned to drill a water supply well. Water for leasehold operations will be purchased from a commercial water hauler.
6. SOURCE OF CONSTRUCTION MATERIALS:
- A. Material for construction of the proposed road and well pad will be obtained from a Federal pit located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 24-26S-29E.
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 produced into temporary test tanks.
- 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 30 days after finishing each drilling and/or completion operation.

8. ANCILLARY FACILITIES:

- A. None anticipated.

9. WELLSITE LAYOUT:

- A. The wellsite has been surveyed and a 500' x 500' well pad 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 area slopes to the east. There will be about 3 feet of cut on the west side and about 2 feet of fill on the east side.
- D. The well pad will be surfaced with caliche.

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. Any special rehabilitation and/or special revegetation requirements of the surface management agency will be complied with and accomplished as expeditiously as possible.

11. OTHER INFORMATION:

- A. Topography: Location is in an area of small rolling hills. Regional slope is to the southwest toward the Pecos River.
- B. Soil: Sandy
- C. Flora and Fauna: The vicinity surrounding the drillsite is semi-arid desert rangeland. Vegetative cover is moderately sparse. Flora consists of mesquite, greasewood, javalena and other desert plants with some grass. Dove, lizards and rabbits were observed; however, fauna for this type of habitat also includes quail, rodents, skunks, coyotes, and snakes.
- D. Ponds and Streams: The Pecos River lies 3 miles to the west.
- E. Residences and Other Structures: Nearest occupied dwelling is $2\frac{1}{2}$ miles to the northwest. Nearest water well is $1\frac{3}{4}$ miles to the west.
- F. Archaeological, Historical and Other Cultural Sites: None were observed in the area. An archaeological reconnaissance of the well pad and road area was made by New Mexico Archaeological Services, Inc. on June 1, 1981 and no cultural resources were found.
- G. Land Use: Grazing and occasional hunting.

12. OPERATOR'S REPRESENTATIVE:

Representative responsible for assuring compliance with the approved Surface Use Plan:

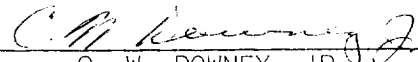
C. W. Downey, Jr.
Operations Manager
2020 Fort Worth National Bank Bldg.
Fort Worth, Texas 76102
Office Phone 817-336-2020
Home Phone 817-294-7810

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 FULLER PETROLEUM, INC. and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

June 30, 1981

Date



C. W. DOWNEY, JR.

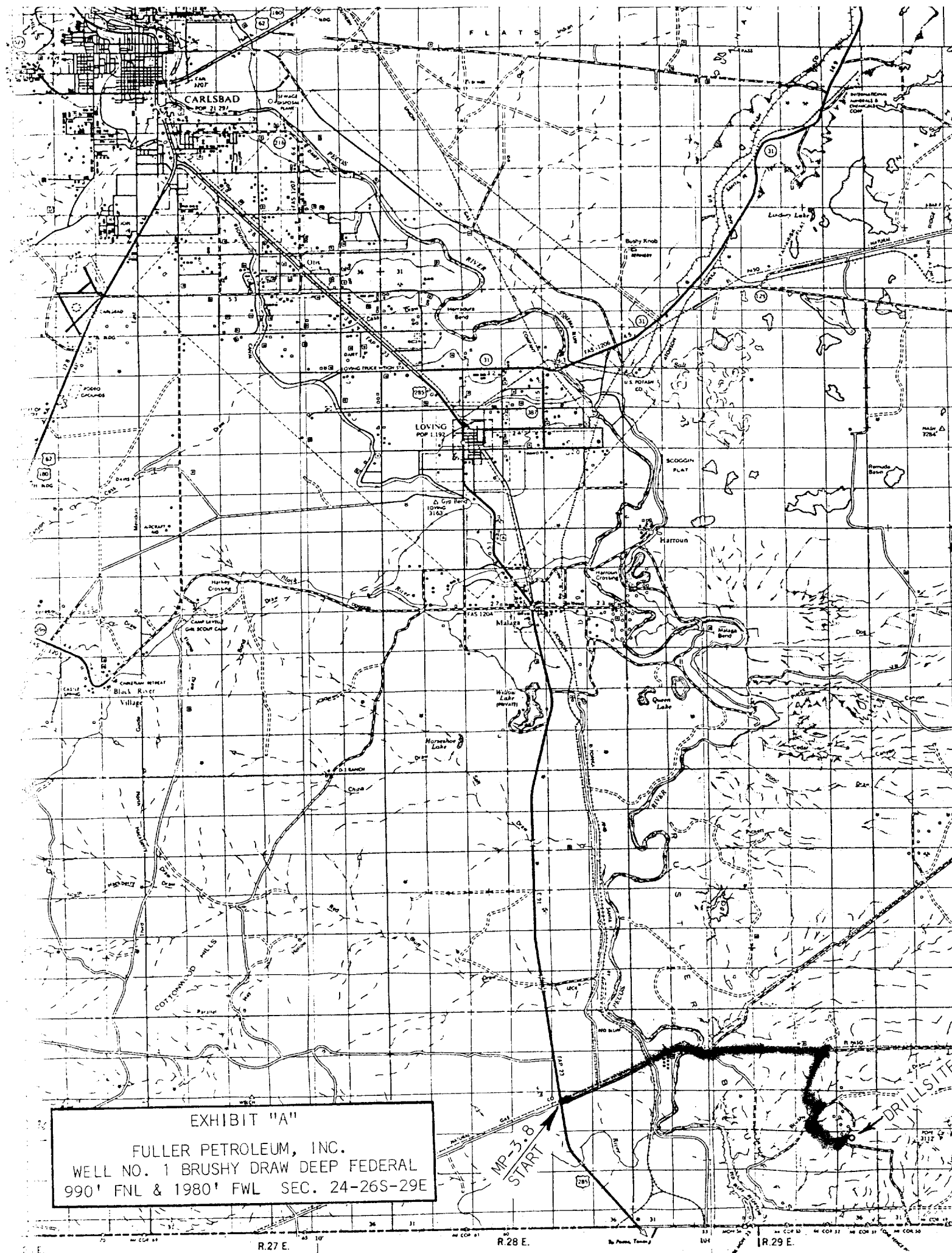


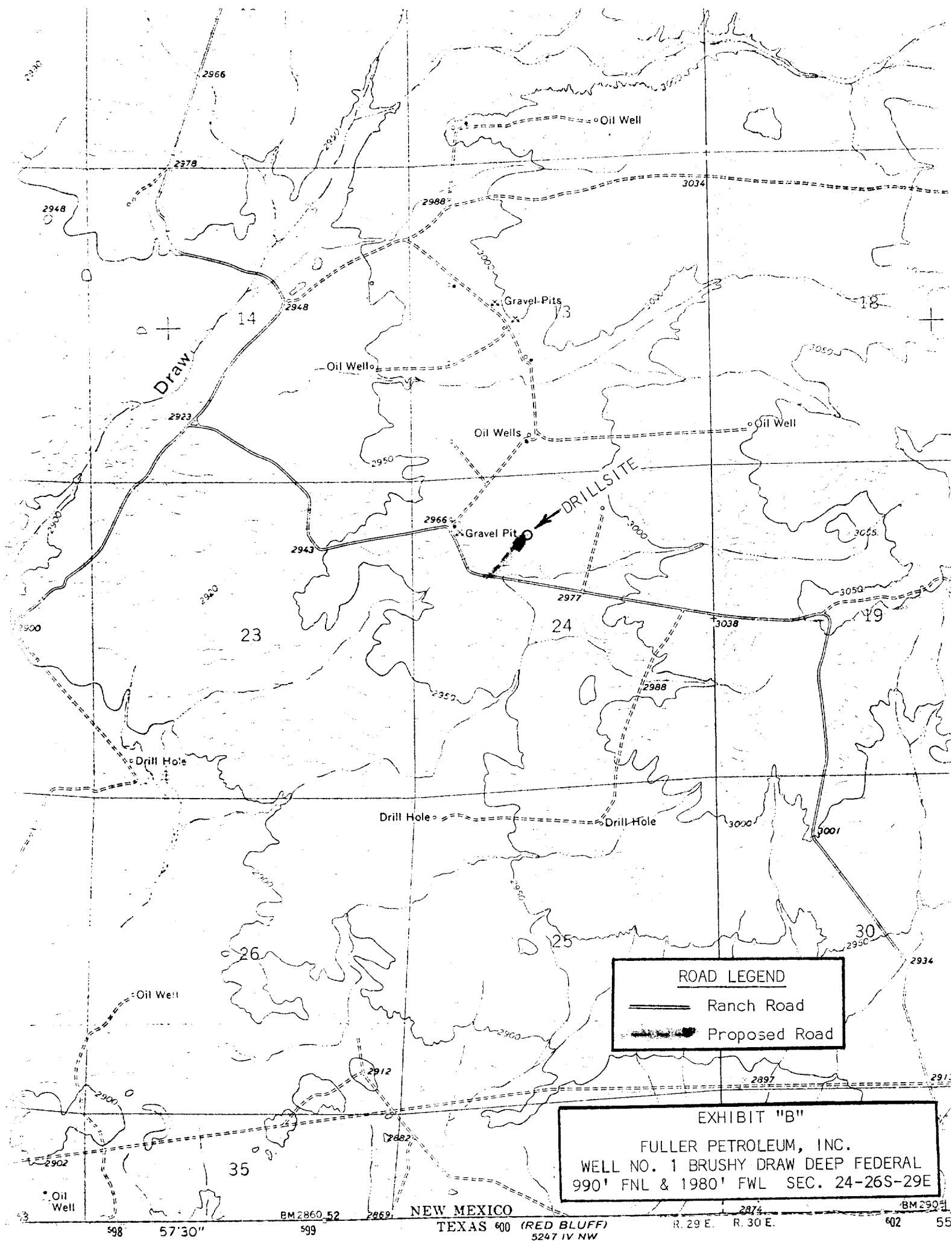
EXHIBIT "A"

FULLER PETROLEUM, INC.
WELL NO. 1 BRUSHY DRAW DEEP FEDERAL
990' FNL & 1980' FWL SEC. 24-26S-29E

R.28 E.

R.28 E.

R.29 E.



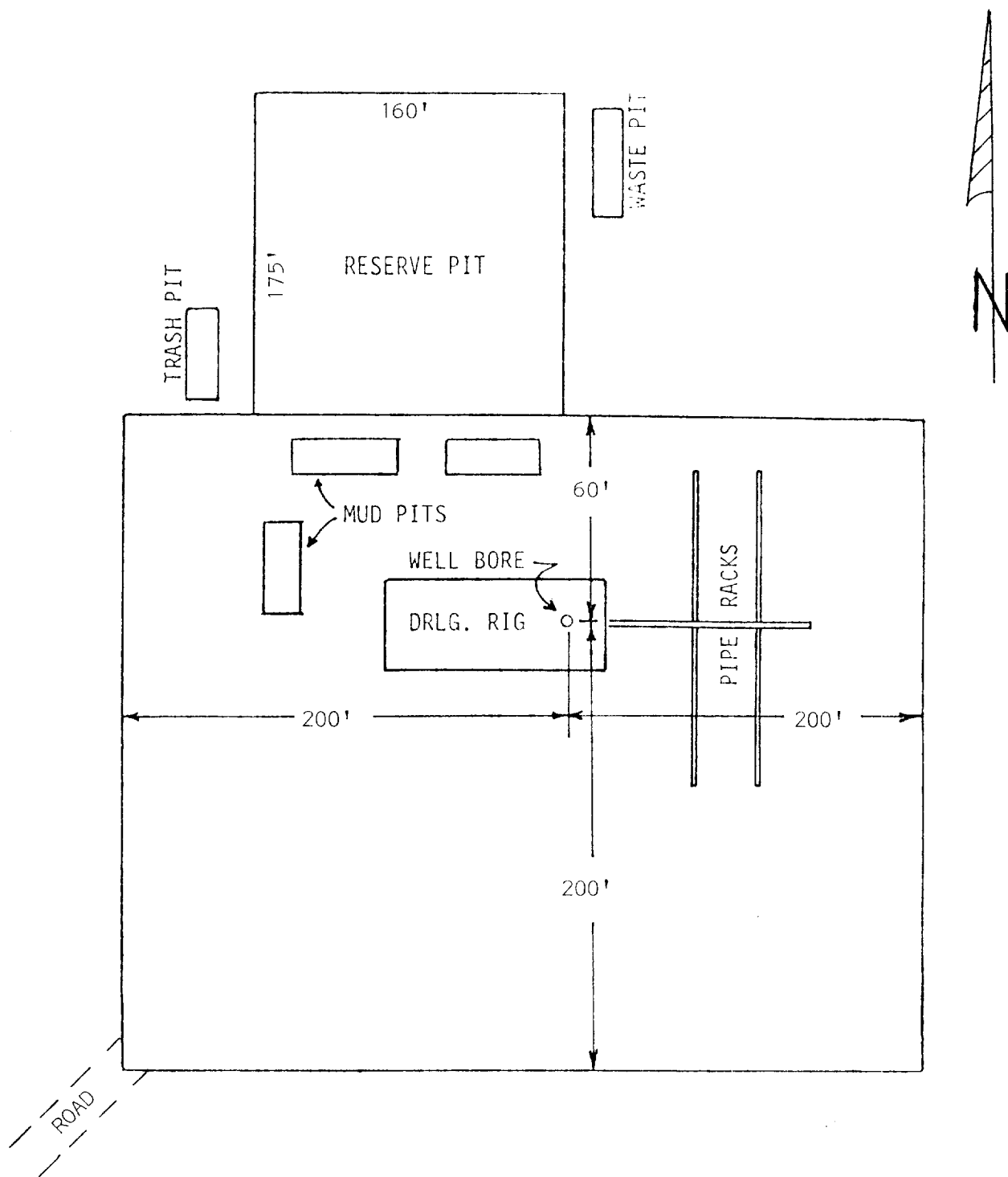


EXHIBIT "D"

FULLER PETROLEUM, INC.

WELL NO. 1 BRUSHY DRAW DEEP FEDERAL

990' FNL & 1980' FWL SEC. 24-26S-29E