

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | | |
|---|--|---|--|
| 1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. LC-065928-A | |
| b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | |
| 2. NAME OF OPERATOR GEORGE H. MITCHELL | | 7. UNIT AGREEMENT NAME | |
| 3. ADDRESS OF OPERATOR P. O. BOX 50682, MIDLAND, TEXAS 79710 | | 8. FARM OR LEASE NAME LITTLEFIELD BO FEDERAL | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1610' FNL AND 1650' FEL OF SECTION 34 At proposed prod. zone | | 9. WELL NO. 5 | |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 16 AIR MILES SOUTH-SOUTHEAST OF MALAGA, NEW MEXICO | | 10. FIELD AND POOL, OR WILDCAT BRUSHY DRAW DELAWARE | |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 330' | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA LOT 11, SEC. 34, T. 26 S., R. 29 E. | |
| 16. NO. OF ACRES IN LEASE 419.41 | | 12. COUNTY OR PARISH EDDY | |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL 23.13 | | 13. STATE NEW MEXICO | |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 660' | | 20. ROTARY OR CABLE TOOLS ROTARY | |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 2877.6' GL | | 22. APPROX. DATE WORK WILL START* UPON APPROVAL | |

| 23. PROPOSED CASING AND CEMENTING PROGRAM | | | | |
|---|----------------|-----------------|---------------|-------------------------|
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
| 12-1/4" | 8-5/8" | 24# | 350' | SUFFICIENT TO CIRCULATE |
| 7-7/8" | *4-1/2" | 9.5# | 5200' | 500 SACKS? |
| | *OR 5-1/2" | 14# | 5200' | 400 SACKS |

*Whether production casing will be 4-1/2" OD or 5-1/2" OD will be decided prior to reaching total depth.

RECEIVED

AFTER SETTING PRODUCTION CASING, PAY ZONE WILL BE PERFORATED AND STIMULATED AS NECESSARY.

JUL 13 '90

SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA
BOP SKETCH
SURFACE USE AND OPERATIONS PLAN

O. C. D.

ARTESIAN OFFICE

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. SIGNATURE Arthur P. Brown (392-5642) TITLE Agent DATE May 29, 1990
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE 7-12-90
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**MEXICO OIL CONSERVATION COMMI.
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.

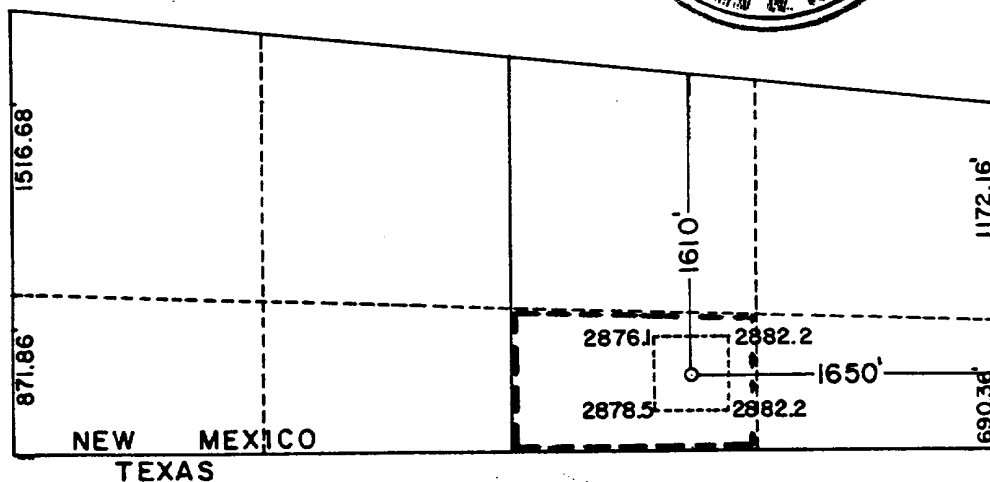
| | | | | | |
|--|--|-------------------------------------|--|-----------------------|----------------------|
| Operator GEORGE H. MITCHELL | | | Lease Littlefield B.O. Federal | | Well No. 5 |
| Unit Letter G | Section 34 | Township 26 South | Range 29 East | County Eddy | |
| Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 1610 feet from the North line and 1650 feet from the East line </div> | | | | | |
| Ground Level Elev. 2877.6 | Producing Formation DELAWARE | Pool BRUSHY DRAW DELAWARE | Dedicated Acreage: 23.13 Acres | | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Name Arthur R. Brown

Position
Agent

Company
GEORGE H. MITCHELL

Date
MAY 29, 1990

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
May 7, 1990

Registered Professional Engineer and/or Land Surveyor

Certificate No. **JOHN W. WEST 676**

Ronald J. Eldson 3239

SUPPLEMENTAL DRILLING DATA

GEORGE H. MITCHELL

WELL NO.5 LITTLEFIELD BO FEDERAL

1. SURFACE FORMATION: Quaternary.
2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

| | |
|---------------|-------|
| Delaware | 2870' |
| Delaware Sand | 2920' |
| Bell Canyon | 3820' |
| Cherry Canyon | 4810' |
| Brushy Canyon | 5200' |

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

| | |
|---------------|-----|
| Delaware Sand | Oil |
| Cherry Canyon | Oil |

4. PROPOSED CASING AND CEMENTING PROGRAM:

| CASING SIZE | SETTING DEPTH | | WEIGHT | GRADE | JOINT |
|-------------|---------------|-------|--------|-------|-------|
| | FROM | TO | | | |
| 8-5/8" | 0 | 350' | 24# | K-55 | STC |
| 4-1/2" | 0 | 5200' | 9.5# | K-55 | STC |
| OR 5-1/2" | 0 | 5200' | 14# | K-55 | STC |

Whether production casing will be 4-1/2" OD or 5-1/2" OD will be decided prior to reaching total depth.

8-5/8" casing will be cemented with approximately 150 sacks of Class "C" with 2% CaCl. Cement to circulate.

5-1/2" casing will be cemented with sufficient Light cement, tailed-in with 200 sacks of POZMIX A, to fill back to ~~the base~~ above the top of the salt section.

5. PRESSURE CONTROL EQUIPMENT:

SJS

A 3000 psi working pressure, double ram type preventer will be in use while drilling below the surface casing.

A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 350 feet: Fresh water with lime or gel as needed for
for viscosity control. Viscosity: 28 - 30.

350 feet to 4800 feet: Brine conditioned as necessary for control of
seepage, pH, and viscosity.
Viscosity: 28 - 32.

4800 feet to 5200 feet: Brine conditioned as necessary for control of
seepage, pH, and viscosity.
Viscosity: 35 - 40.

7. AUXILIARY EQUIPMENT:

Drill string safety valves will be maintained on the rig floor while
drilling operations are in progress.

8. TESTING, LOGGING, AND CORING PROGRAMS:

No drill stem tests are planned.

Electric logs will include GR-CNL logs.

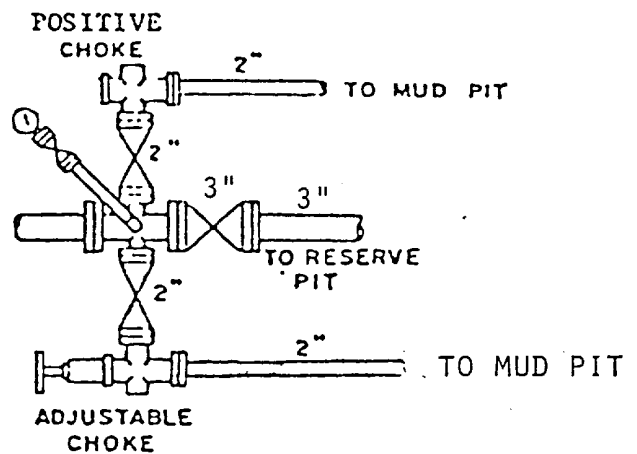
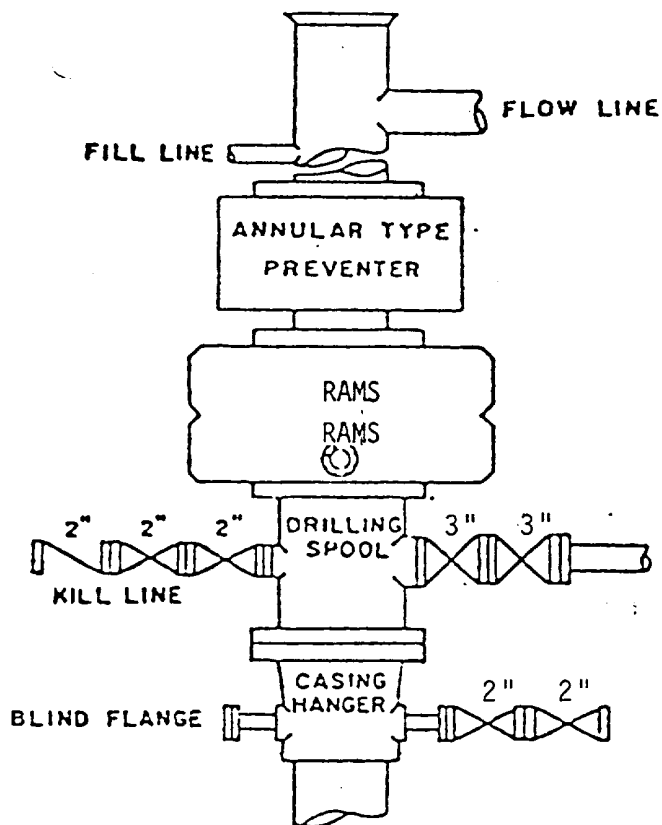
No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES, OR HYDROGEN SULFIDE GAS:

No abnormal pressures or temperatures are anticipated.

10. ANTICIPATED STARTING DATE:

It is planned that work will commence upon approval of this
application with drilling and completion operations lasting about
30 days.



BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

SURFACE USE AND OPERATIONS PLAN

FOR

GEORGE H. MITCHELL
WELL NO.5 LITTLEFIELD BO FEDERAL
1610'FNL & 1650'FEL SEC.34. T.26 S., R.29 E.
EDDY COUNTY, NEW MEXICO

LOCATED: 16 air miles south-southeast of Malaga, New Mexico.

FEDERAL LEASE NUMBER: LC-065928-A.

LEASE ISSUED: July 1, 1951. Lease is in producing status.

ACRES IN LEASE: 419.41.

RECORD LESSEE: George H. Mitchell.

SURFACE OWNERSHIP: Federal.

POOL: Brushy Draw Delaware.

POOL RULES: Statewide. 40 acre spacing for oil.

EXHIBITS: A. Road Map
B. Plat Showing Existing Wells and Existing Roads
C. Drilling Rig Layout
D. Topo Plat

1. EXISTING ROADS:

A. Exhibit "A" is a portion of a road map showing the location of the proposed well as staked. The well site can be reached from the west or from the east. Point "A" on the plat is on US 285 between Mileposts 3 and 4, approximately 13 miles south of Malaga, New Mexico, where a paved road goes east. To go to the proposed well site from this point, exit US 285 to the east onto the paved road and go 4.2 miles, crossing the Pecos river at 3.7 miles, to where a good caliche road goes south. Go south on Eddy County road 725 3.1 miles to where a caliche road goes westerly. Turn west and go westerly and southeasterly (also see Exhibits "B" and "D") 1.5 miles to where the road turns east. Turn east and go about 500 feet and the proposed well site will be on the right at a distance of about 400 feet.

Point "B" on the plat is on State highway 128, at Milepost 22.5, approximately 32 miles west of Jal, New Mexico, where a paved road goes south to Orla, Texas. To go to the proposed well site from this point, go south 15 miles to where a caliche road goes west. Turn west and go 15 miles to a point about 500 feet east of where the road turns north. The proposed well site is about 400 feet south of this point.

B. Exhibit "B" is a plat showing existing pertinent roads in the vicinity of the proposed well site. Existing roads are color coded.

2. PLANNED ACCESS ROAD:

A. Length and Width: The new road needed for access will be 12 feet wide and about 500 feet long, and is shown labeled and color coded red on Exhibit "B". The centerline of the proposed new road is staked and flagged. All of the proposed new road is within the lease boundary.

B. Surfacing Material: Plans are to grade the access road and use in-place material for the road surface. If additional surfacing material is needed, caliche will be used.

C. Maximum Grade: One percent.

D. Turnouts: None needed.

E. Drainage Design: The new road will be crowned with drainage to the side.

F. Culverts: None necessary.

G. Cuts and Fills: None necessary.

H. Gates and Cattle Guards: None needed. No fences involved.

3. LOCATION OF EXISTING WELLS:

A. Existing wells in the immediate area are shown on Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. This well will produce into the existing tank battery, located as shown on Exhibit "B", near well No. 2. The flow line will be laid on the ground alongside the proposed and existing road, and will extend, as shown on Exhibit "B" from the well to the existing tank battery.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is not planned that a water well will be drilled. Water needed for drilling operations will be purchased and trucked to the well site, or will be moved to the well site by temporary pipeline laid on the ground alongside existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Well site construction will utilize on-site material as much as possible. Any additional caliche needed for construction work will be taken from an existing pit on Federal land in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 26, T.26 S., R.29 E., Eddy County, New Mexico.

7. METHODS OF HANDLING WASTE MATERIAL:

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 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 the trash pit is shown on Exhibit "C".

F. All trash and debris will be buried or removed from the well site within thirty days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELL SITE LAYOUT:

A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, and trash pit, and the location of major drilling rig components.

B. The well site is in a broad, shallow drainage area lying in an east to west direction. A berm is to be constructed to divert drainage from the east around the south side of the well pad and back to the normal drainage area west of the well site.

C. Any cut and fill necessary will be minimal. However, clearing and levelling of the pad and pit area will be required. The pad and pit area is staked and flagged.

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 will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.

B. Any unguarded pits containing fluids will be fenced until the pits are dry.

C. After abandonment, all equipment, trash and junk will be removed and the well site will be cleaned. Any special rehabilitation and/or special revegetation requirements of the surface management agency will be complied with and will be accomplished as rapidly as possible.

11. OTHER INFORMATION:

A. Topography: The land surface in the area is gently undulating. In the immediate area of the proposed drill site, the land surface slopes gently to the west. Regionally, drainage is to the west toward the Pecos River.

B. Soil: Top soil in the area is a gravelly loam.

C. Flora and Fauna: The vegetative cover is moderate and includes mesquite, yucca, weeds, and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles,

dove, and quail.

D. Ponds and Streams: The Pecos River is about a half-mile west of the proposed drill site. There are no other ponds or streams.

E. Residences and Other Structures: There are no occupied dwellings within a mile of the proposed well site.

F. Archaeological, Historical, and Cultural Sites: None observed in the area.

G. Land Use: Oil and gas production, grazing, and wildlife habitat.

H. Surface Ownership: Federal.

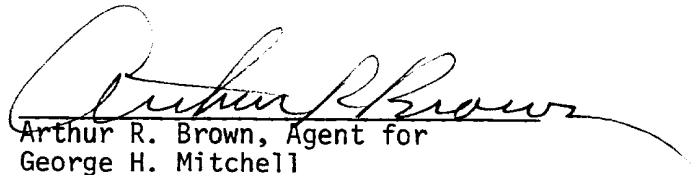
12. OPERATOR'S REPRESENTATIVE:

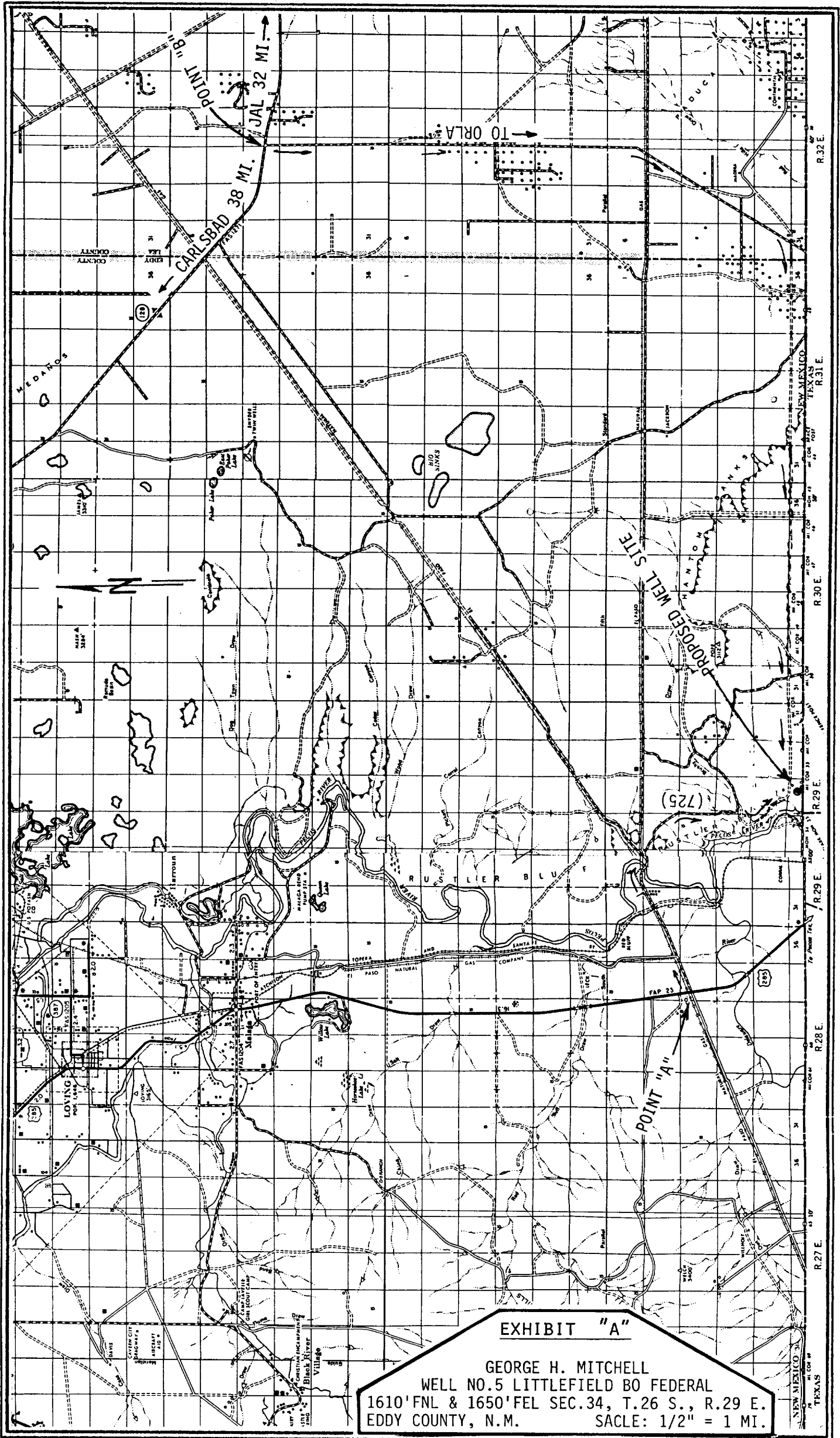
George P. Mitchell, Agent for
George H. Mitchell
P. O. Box 50682
Midland, Texas 79710
Phone: 915-684-4748

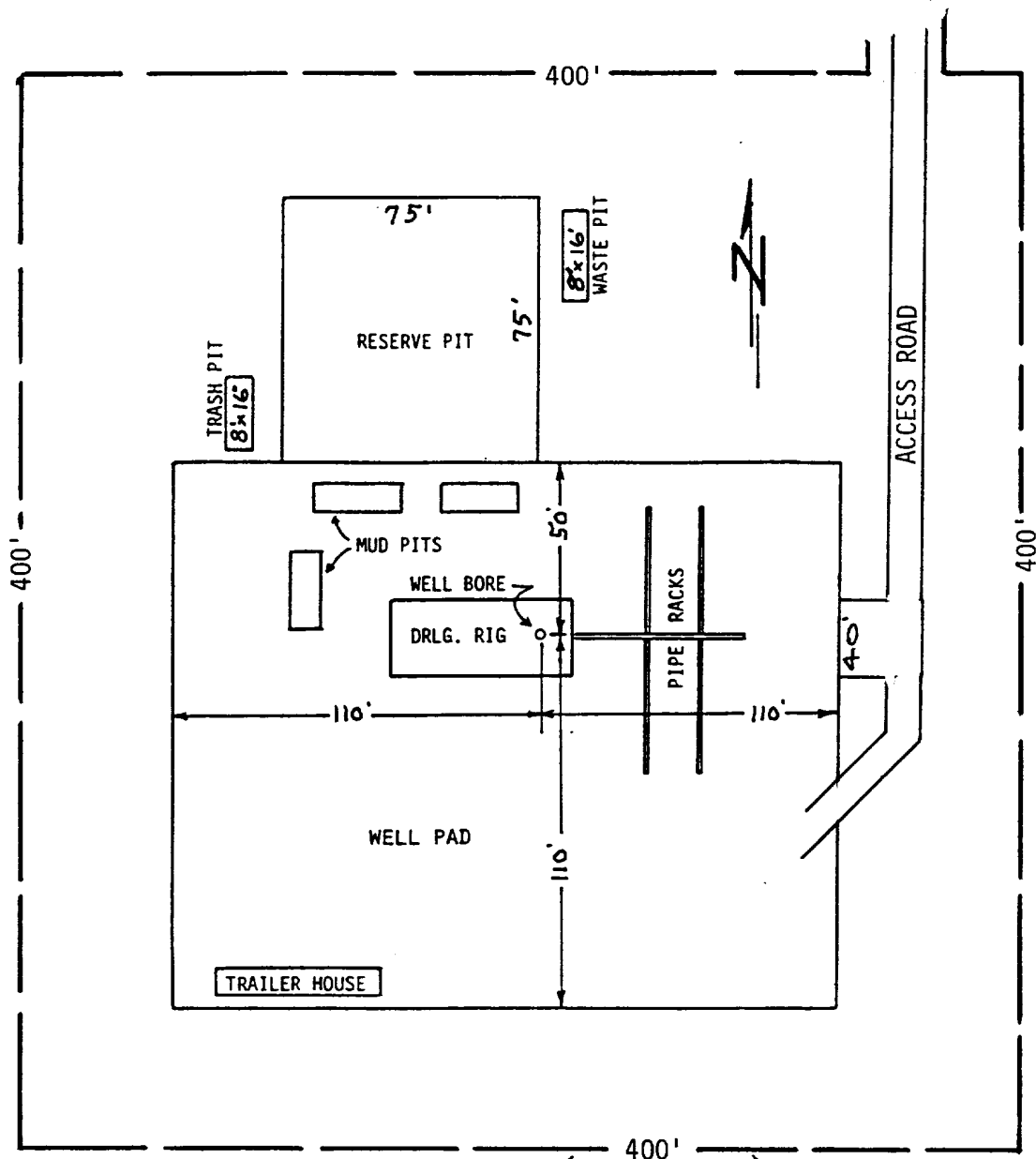
13. CERTIFICATION:

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 currently 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 George H. Mitchell and his contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

May 26, 1990
Date: _____


Arthur R. Brown, Agent for
George H. Mitchell





AREA ARCHAEOLOGICALLY CLEARED

EXHIBIT "C"

GEORGE H. MITCHELL
WELL NO.5 LITTLEFIELD BO FEDERAL

DRILLING RIG LAYOUT
SCALE: None

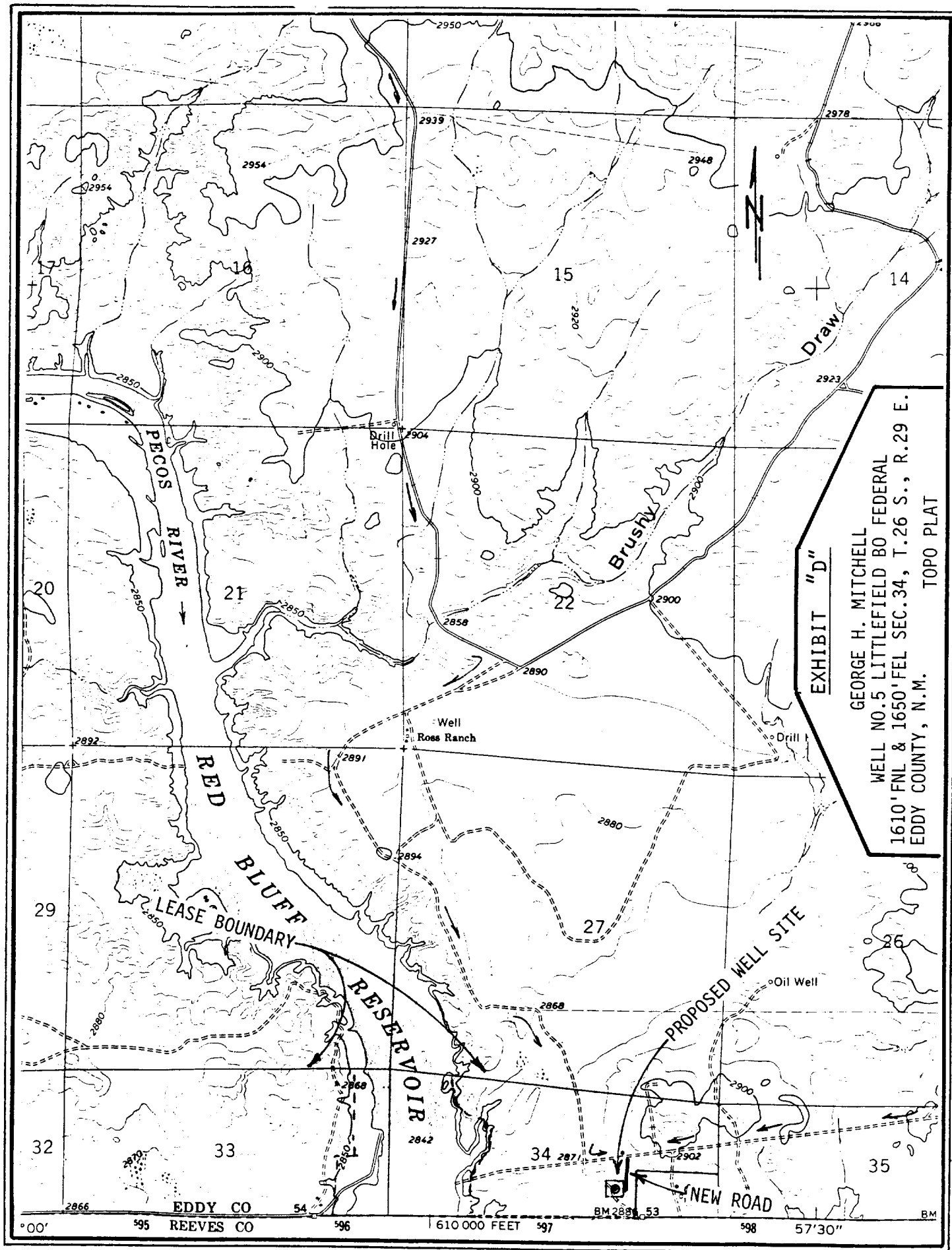


EXHIBIT "D"

GEORGE H. MITCHELL
 WELL NO. 5 LITTLEFIELD BO FEDERAL
 1610' FNL & 1650' FEL SEC. 34, T. 26 S., R. 29 E.
 EDDY COUNTY, N.M.

TOPO PLAT