

UNITED STATES  
DEPARTMENT OF THE INTERIOR

STUDY IN THE CATER  
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P. 100-100

Form approved  
Bureau No. 42 B1423

30-015-22547

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APPLICATION FOR PERMIT TO DRILL, DEEVEN, OR PLUG BACK

DRILL IN

MAY 4 1978

PLUG BACK

U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

DEPARTMENT OF THE INTERIOR

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gas is not collected.

N5L-939

NO ABOVE DRILLING OPERATIONS PROGRAM: If proposal is to drill or plug back, place in on present productive zone and proposed new production zone. If it is to be drilled, direction of new, efficient drain - submergence - surface and bottom and true vertical depth - etc. etc.

Edward N. Lara

5/3/78

MAY 15 1978

ACTING DISTRICT ENGINEER

MAY 15 1978

THIS APPROVAL IS RESCINDED IF OPERATIONS  
ARE NOT COMMENCED WITHIN 3 MONTHS.

EXPIRES AUG 15 1978

\*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 <b>Beard Oil Co.</b>			Lease <b>Bridge USA</b>			Well No. <b>1</b>		
Section <b>L</b>	Section <b>30</b>	Township <b>25 South</b>	Range <b>22 East</b>	County <b>Eddy</b>				
Actual Borehole Location of Well: <b>1345</b> feet from the <b>South</b> line and <b>680</b> feet from the <b>West</b> line								
Ground Level Elev. <b>6221.6</b>	Producing Formation <b>Horrow</b>		Pool <b>Wildcat</b>		Estimated Acreage <b>320</b> Acres			

- 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 owner (as far as to working interest and royalty)
- 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?

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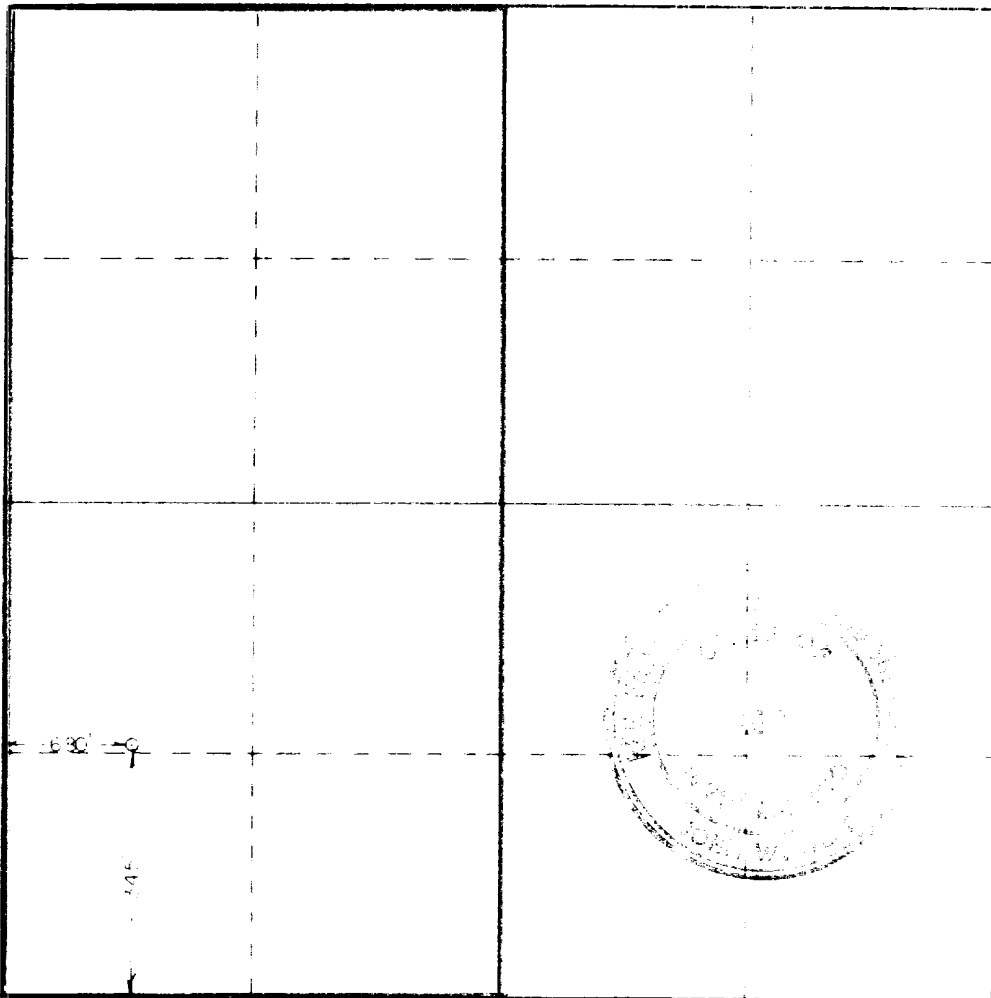
**MAY 4 1978**

**U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO**

☐ 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.

*Edward N. Lucking*

Edward N. Lucking  
Agent for  
Beard Oil Company

Date  
**1/10/78**

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.

**4/4/78**

Registered Professional Engineer  
and Professional Surveyor

*John W. West*

Certificate No. **John W. West**

**676**

**Ronald J. Eidson**

**3239**

# APPLICATION FOR DRILLING

Beard Oil Company  
Ridge USA Well No. 1  
Section 30-T25S-R22E  
Eddy County, New Mexico

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MAY 4 1978

U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Beard Oil Company submits the following ten items of pertinent information in accordance with USGS requirements:

1. The geologic surface formation is Permian - Queen.
2. The estimated tops of geologic markers are as follows:
 

Delaware	779' (+5442')	Canyon	6378' (- 157')
Leonard	1871' (+4350')	Strawn	6918' (- 697')
Glorietta	1974' (+4247')	Atoka	7120' (- 899')
Abo	4390' (+1831')	Morrow	7607' (-1386')
Wolfcamp	4938' (+1283')	Top of Miss.	8288' (-2067')
Cisco	6328' (- 107')	Total Depth	8350' (-2129')
3. The depths at which anticipated water, oil or gas formations are expected to be encountered:
  - Water: Approximately 500'-600'
  - Oil or Gas: Abo - approximately 4390'-4938'
  - Strawn - approximately 6918'-7120'
  - Morrow - approximately 7607'-8288'
4. Proposed casing program: See Form 9-331C.
5. Pressure control equipment: See Form 9-331C and Exhibit E.
6. Mud program: See Form 9-331C.
7. Auxiliary equipment: Blowout preventer, Inside blowout preventer, Kelley cock.
8. Testing, logging and coring programs:
  - Drill stem tests will be taken if shows are encountered and hole conditions permit drill stem tests.
  - Open hole logging: A Dual Induction Laterolog and CNL-Density Log will be run from the base of the intermediate to total depth.
  - Mud logging: A manned mud logging unit will be on the well from below the 8-5/8" casing until total depth.
  - Coring: No coring is anticipated.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: As soon as possible after approval.

## MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Beard Oil Company  
Ridge USA Well No. 1  
1345' FSL and 680' FWL  
Section 30-T25S-R22E  
Eddy County, New Mexico  
(Exploratory Well)

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, so that a complete appraisal can be made of the environmental effects associated with the operation.

### 1. EXISTING ROADS.

- A. Exhibit A is a portion of BLM quad-color map no. SE-23, on a scale of  $\frac{1}{2}$ " to a mile, showing (in red) a portion of the route from Carlsbad, New Mexico to the proposed location. The remainder of the route to the location is shown in red in Exhibit B, also on a scale of  $\frac{1}{2}$ " to a mile. The access roads in the immediate vicinity of the proposed drillsite are shown in Exhibit C, which is a topographic map on a scale of 2 inches to a mile. The proposed location is situated in the Lincoln National Forest, approximately 27 miles west and 22 miles south of Carlsbad, New Mexico (a straight-line distance of about 35 miles southwest of Carlsbad).
- (1) Proceed north from Carlsbad on U. S. Highway 285 to Route 137, which dead-ends into Route 285 from the west. This point is about 10 miles northwest of Carlsbad and the intersection with Route 137 may be recognized by the Conoco gasoline station on the west side of Route 285.
  - (2) Turn left (southwest) on Route 137 and continue in a generally south- and west-bound direction for approximately 40 miles, at which point the access route turns left on Forest Road no. 540. A landmark to identify the location of this road is a church camp ground on the north side of Route 137, approximately  $\frac{1}{4}$  miles before reaching Forest Road 540. Route 137 is heading in a generally southbound direction when it intersects with Forest Road 540.
  - (3) Turn left (southeast) onto Forest Road 540 and continue for slightly more than  $\frac{1}{4}$  miles to Forest Road 69, which dead-ends into Road 540 from the left. Forest Road 540 is southbound at the point of intersection with Road 69.

- (4) Turn left (east) onto Road 69, which is a relatively primitive dirt road and which winds considerably in a generally southbound, changing to eastbound, direction. Continue on this road for approximately 3 miles, then turn right (south) on a trail road marked by several red surveyor's ribbons tied to trees.
    - (5) Continue on the trail road for approximately  $\frac{1}{2}$  mile, to the proposed location on the left (east) side of the road. A newly constructed access road to the drilling pad will begin at this point.
  - B. The existing access route includes both blacktop road and well-maintained dirt road for most of its length until reaching Forest Road 69, although there are several areas of Road 540 which will require repair or improvement. Forest Road 69 will require considerable re-work, repair, and caliche fill at various points. A portion of this road passes through two areas of privately owned land surface, belonging to Mrs. John McCollaum, and an agreement has been reached with Mrs. McCollaum's representative (her son, Ben McCollaum) concerning Beard Oil Company's use and improvement of this portion of the road.
  - C. The trail road which will be used for access after leaving Road 69 is very winding, rough, and rocky, and will require considerable improvement and widening to make it satisfactory to handle traffic to and from the drillsite.
  - D. All road improvement work performed on the existing access roads will be in conformity with U. S. Forest Service - Region 3 "Minimum Standards for Single Lane Fair Weather Road," a copy of which is attached as Exhibit F. Such work will be closely coordinated with Mr. Allan L. Hinds, District Ranger, Guadalupe Ranger District.
2. PLANNED ACCESS ROAD.
  - A. The proposed new access road will be only 50-75 feet in length, from its origin at the trail road to the point at which it joins the drilling pad. The road will lie in a generally west-to-east direction and will lead to the southwest corner of the drilling pad.
  - B. The new road will be 12 feet in width, except at its point of origin, where enough additional width will be provided to allow heavy equipment and trucks to turn. It will be covered with the necessary depth of compacted caliche to make it serviceable.
  - C. Construction of the new access road will conform with U. S. Forest Service - Region 3 "Minimum Standards for Single Lane Fair Weather Road," and will be closely coordinated with Mr. Allan L. Hinds, District Ranger, Guadalupe Ranger District.
  - D. The route of the new road has been flagged and is clearly visible from each flag to the next.

3. LOCATION OF EXISTING WELLS.

- A. There is no production within several miles of the proposed location. A dry hole, drilled in Section 7-T25S-R22E, was plugged and abandoned in 1974.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive of oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas. However, a pipeline will be necessary to transport the gas, if the well is productive, and in that event, the development of the routing and other details of the construction of such a pipeline will be coordinated with the District Ranger, Guadalupe Ranger District, Carlsbad, New Mexico, so as to meet with the approval of the U. S. Forest Service.

5. LOCATION AND TYPE OF WATER SUPPLY.

- A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from privately owned or commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibits A, B, and C.

6. SOURCE OF CONSTRUCTION MATERIALS.

- A. It is planned to obtain some of the caliche required for drilling pad and road construction from the surface cuts mentioned below in paragraph 9.B. The remainder of the necessary caliche will be obtained from an existing pit, located on U. S. Forest Service land in Section 26-T24S-R21E. This pit is located at a driving distance of approximately 10 miles north and west of the proposed location.
- B. Caliche obtained from the caliche pit located in Section 26-T24S-R21E will be hauled to the location over the existing and proposed roads shown in Exhibits A, B, and C.
- C. An alternate source of caliche was located in Section 17-T25S-R22E, but access to this pit is available only by crossing privately owned land and it was determined that it will be more economical to obtain caliche from the pit located in Section 26-T24S-R21E.

- D. Payment for caliche from the pit in Section 17-T25S-R22E will be made to the U. S. Forest Service, Carlsbad, New Mexico, by the dirt contractor, Sweatt Construction Company. Sweatt Construction will estimate the quantity of caliche from this pit which will be used for road and drilling location construction and will submit payment to the Forest Service at the rate of 16¢ per cubic yard, in advance of the performance of the work.

7. METHODS OF HANDLING WASTE DISPOSAL.

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system or separate disposal application will be submitted to the USGS for appropriate approval.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. 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.
- G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- H. In the process of improving and constructing the access roads and in constructing the drilling pad and pits, it will be necessary to remove several trees and considerable underbrush. The underbrush will be collected at suitable locations, to be designated by the Forest Service, where it will be left for burning at a later date, also to be designated by the Forest Service, when rain has reduced the dangers of burning. The actual burning will either be handled by Beard Oil Company or its representatives or, at the option of Beard Oil Company, Beard may request Mr. Allan L. Hinds, District Ranger, to arrange for burning by Forest Service personnel, at Beard Oil Company's expense. Logs resulting from removal of trees during construction work will be cut into 4-foot lengths and stacked neatly at various points adjacent to the access roadway. All equipment used in the cutting of trees will be turbo-charged or will have spark arresters approved by the Forest Service. Suitable fire fighting equipment will be available at the work site at all times during the performance of this work.

8. ANCILLARY FACILITIES.

- A. None required.

9. WELLSITE LAYOUT.

- A. Exhibit D shows the relative location and dimensions of the well pad and the reserve pits.
- B. The ground surface at the well pad location and over the route of the new access road is relatively flat, with only minor variations in elevation requiring cut and fill. This is in contrast to the surrounding area, which is very mountainous, with constant major changes in elevation. However, the reserve pit area adjacent to the northwest edge of the pad will require a cut of 8 to 10 feet, and the lay-down rack adjacent to the northeast edge of the pad will require a cut of 3 to 4 feet. The material removed in the cutting process will be used in construction of the drilling pad and access road.
- C. The reserve pits will be plastic lined.
- D. The pad and pit area has been surveyed and staked.

10. PLANS FOR RESTORATION OF THE SURFACE.

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk in order to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have been filled.
- C. If the well is non-productive, all pits will be filled and leveled within 90 days after abandonment.
- D. If the well is non-productive, all rehabilitation and/or vegetation requirements of the U. S. Forest Service and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. This will include the removal of all caliche from the drilling location and the newly constructed access road; the placement of an adequate quantity of topsoil, as determined by the Forest Service, over the area previously occupied by the drilling pad, reserve pits, and newly constructed access road; and re-seeding of this same area with a quantity and type of grass seed specified by the Forest Service. The caliche removed in this process will be used in part to restore the surface cuts made during construction operations (see paragraph 9.B., above), and the remainder will be returned to the caliche pit in Section 26-T24S-R21E, from which it was obtained. However, if the Forest Service wishes to



utilize this caliche for any purpose, it will be made available to the Forest Service rather than being returned to its source.

11. OTHER INFORMATION.

- A. Topography: The wellsite and proposed new access road are located in a relatively flat location, surrounded by a very mountainous area with major variations in elevation.
- B. The topsoil at the wellsite is moderately soft loam, with rocky areas nearby (see the archaeological report submitted on April 12, 1978 by the Agency for Conservation Archaeology, Eastern New Mexico University, Portales, New Mexico). The vegetation cover is relatively heavy, consisting of oak, alligator juniper and pine trees, and miscellaneous prairie grasses and weeds. No wildlife was observed, but it is likely that the area is inhabited by deer, rabbits, and other animal life common to arid mountain regions. There is evidence of the area having been used for cattle grazing.
- C. There is an earthen watering tank within a short distance of the location, although the tank was almost dry when it was observed late in March 1978. There are no lakes, streams or rivers in the vicinity of the location.
- D. The nearest occupied dwelling is the McCollaum ranch house, located about a mile west of the location in Section 25-T25S-R21E.
- E. The surface at the wellsite is federally-owned by the U. S. Forest Service and is located within the Lincoln National Forest.
- F. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.
- G. The proposed drilling location and access route were selected with the cooperation and assistance of Mr. Allan L. Hinds, District Ranger, Guadalupe Ranger District, Carlsbad, New Mexico, and Mr. Charles Flaherty, Environmental Scientist, USGS, Artesia, New Mexico.

12. OPERATOR'S REPRESENTATIVE.

The field representative responsible for assuring compliance with the approved surface use plan is:

James W. Vater, Jr.  
Vice President - Operations  
Beard Oil Company  
Suite 200  
2000 Classen Building  
2000 Classen Boulevard  
Oklahoma City, Oklahoma 73106  
Telephone: 405-528-2323 (office)  
405-751-4738 (home)

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 Beard Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

5/3/78

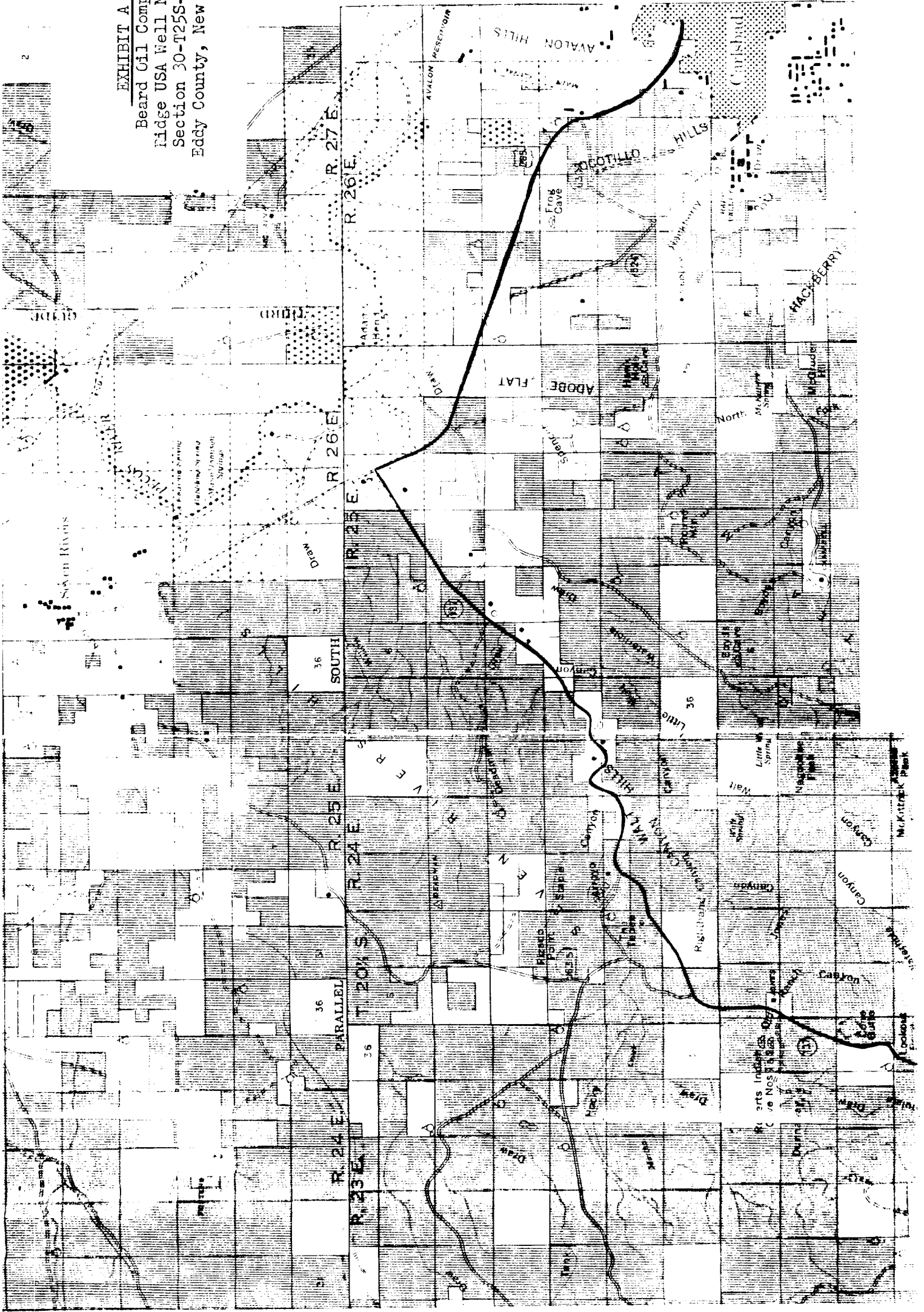
Date

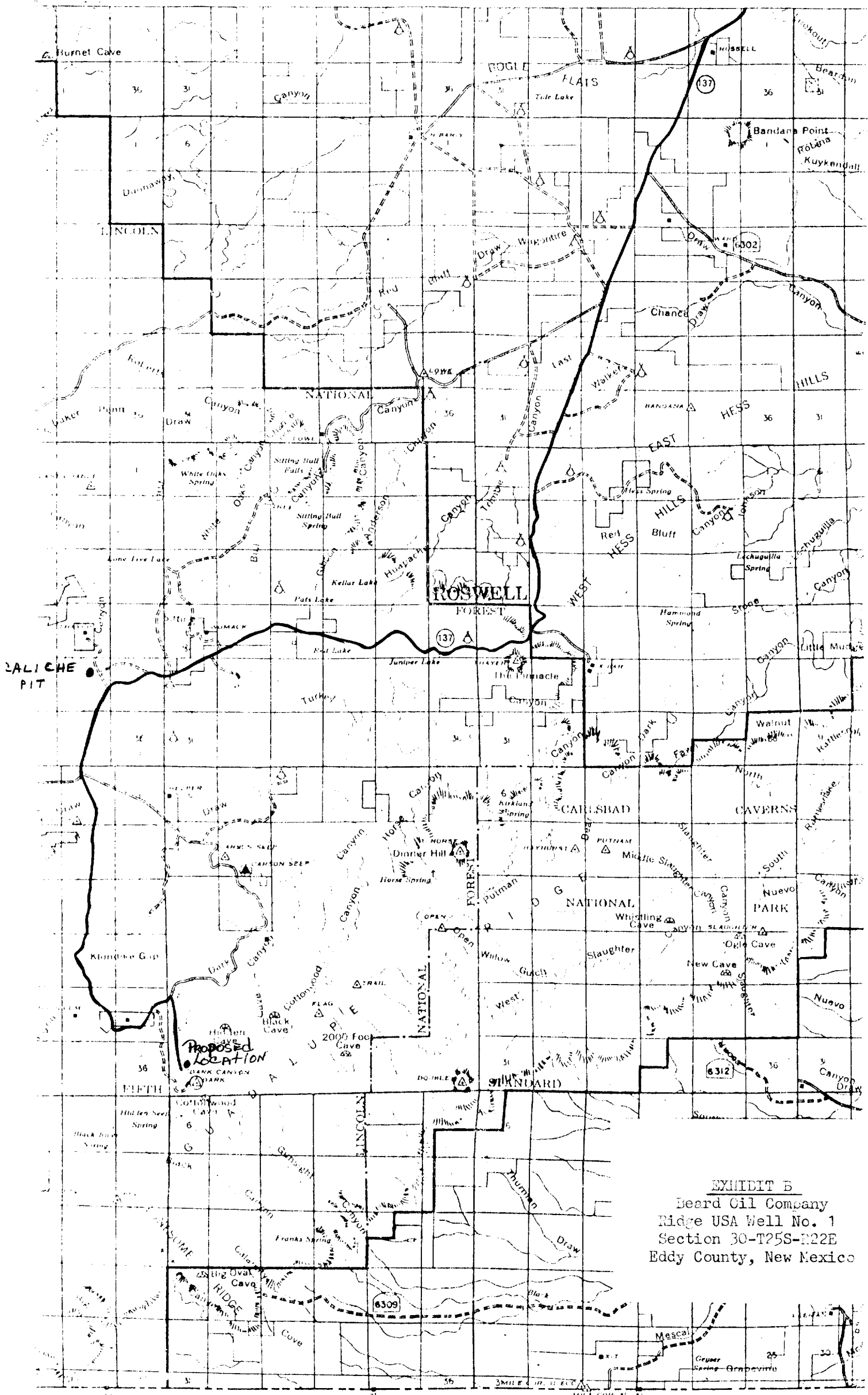
Edward N. Lucking

Edward N. Lucking

Agent for Beard Oil Company

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# **EXHIBIT B**

Beard Oil Company  
 Ridge USA Well No. 1  
 Section 30-T25S-R22E  
 Eddy County, New Mexico

EXHIBIT C  
Beard Oil Company  
Ridge USA Well No. 1  
Section 30-T25S-R22E  
Eddy County, New Mexico

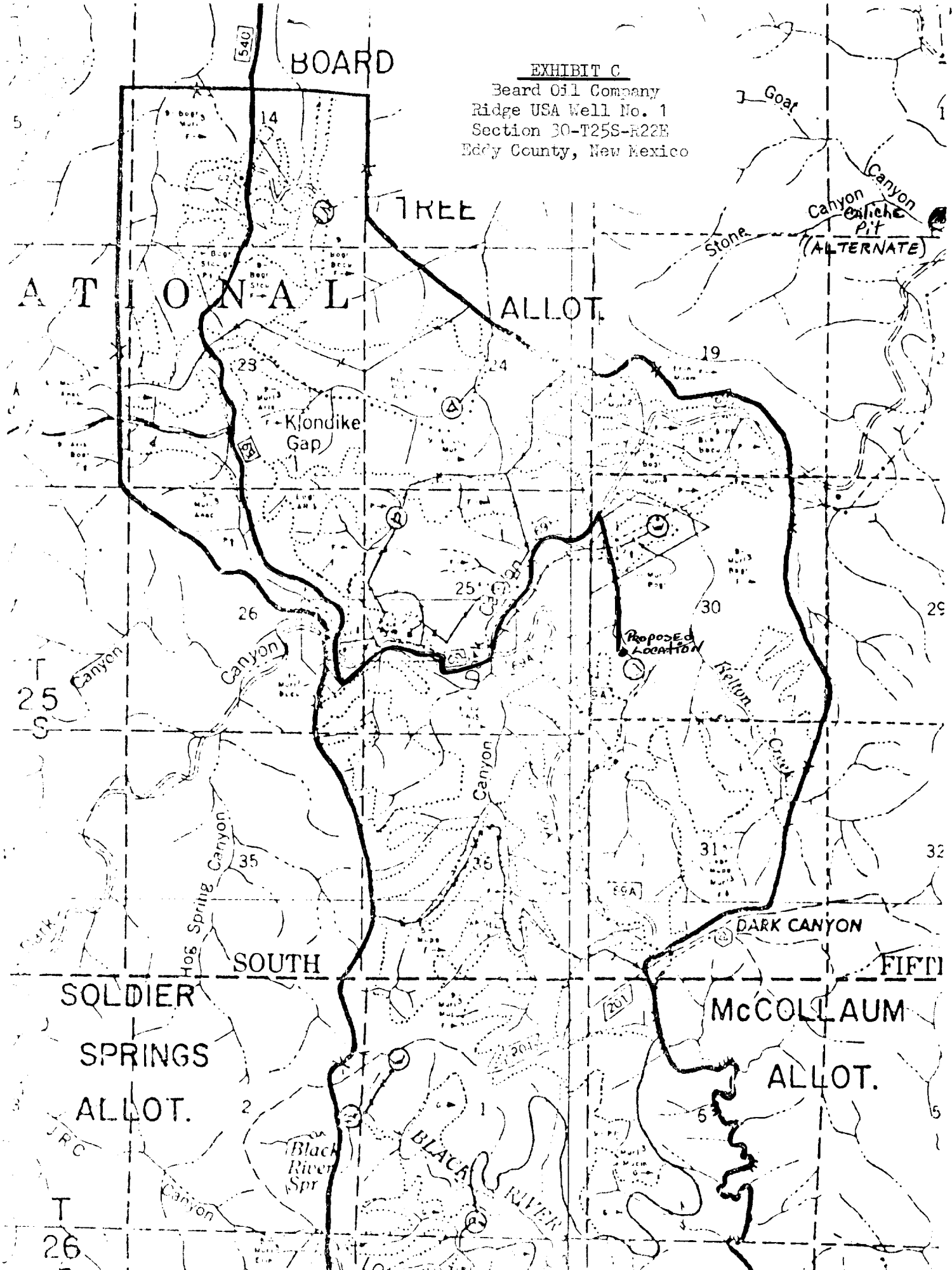


EXHIBIT D  
 Beard Oil Company  
 Ridge USA Well No. 1  
 Section 30-T25S-R22E  
 Eddy County, New Mexico

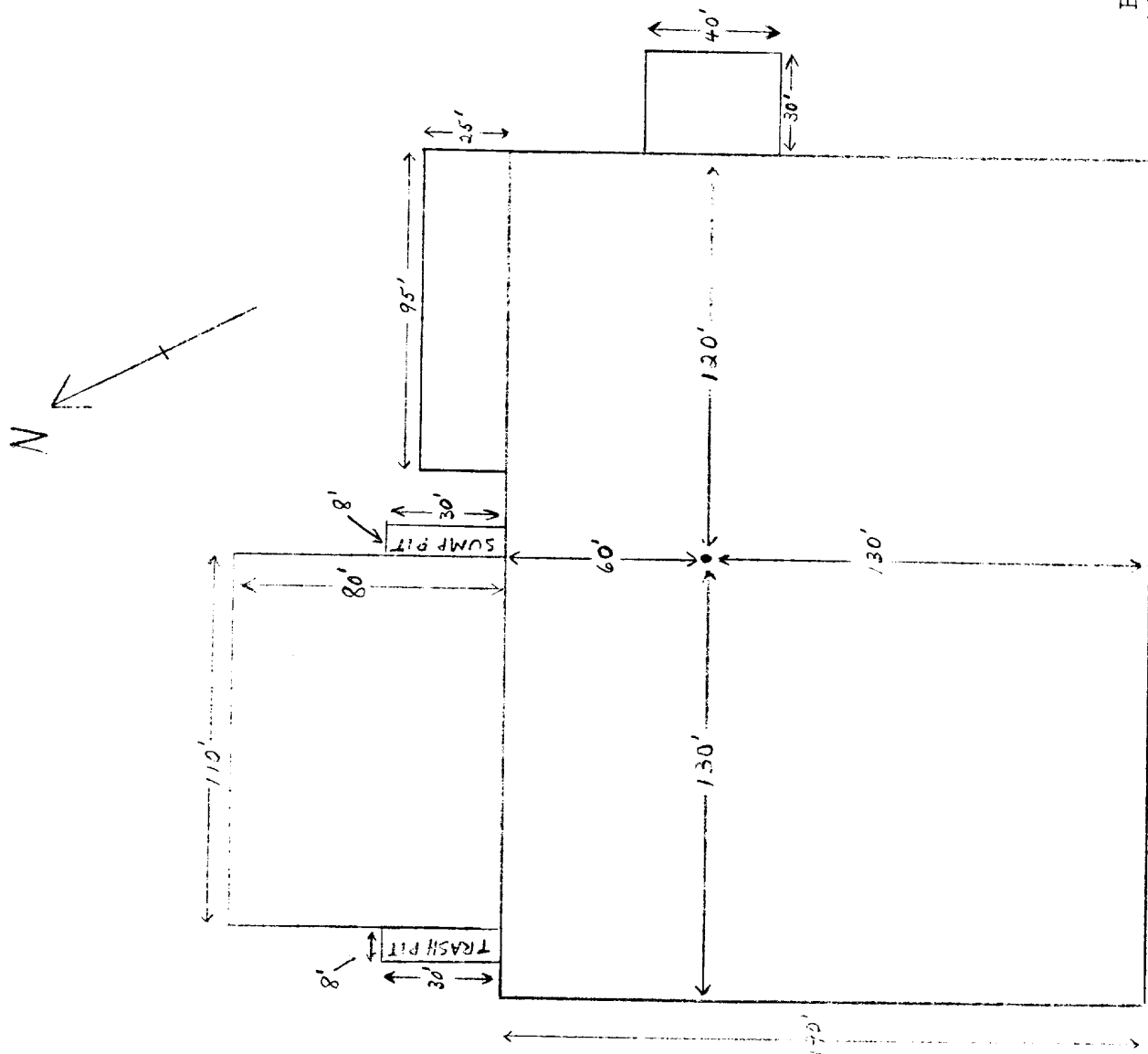
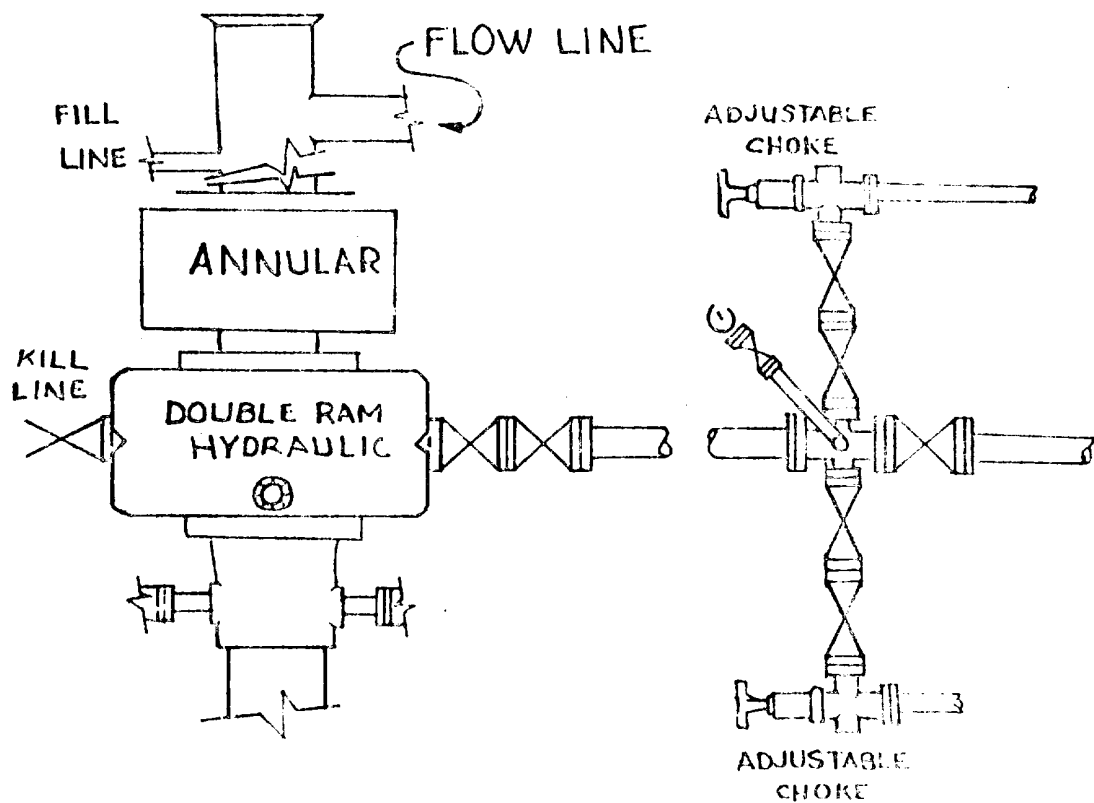


EXHIBIT E  
Beard Oil Company  
Ridge USA Well No. 1  
Section 30-T25S-R22E  
Eddy County, New Mexico



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