

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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 ☒ re-entrySINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

James L. Ludwick

## 3. ADDRESS OF OPERATOR

P.O. Box 70  
Farmington, New Mexico 87401

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

At surface

660' SW, 660' SW

At proposed prod. zone

Same

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

2 miles NE Star Lake Compressor Station

## 15. DISTANCE FROM PROPOSED\*

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

660'

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

6930'

## 16. NO. OF ACRES IN LEASE

2560

## 19. PROPOSED DEPTH

2650'

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL 40

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6710' or

## 22. APPROX. DATE WORK WILL START\*

When approved

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

(SEE ATTACHMENTS)



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.

Original Signed By:

SIGNED CLAUDE C. KENNEDY

TITLE

Agent

DATE 2-27-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

MAR 1 1979

U. S. GEOLOGICAL SURVEY  
DURANGO, COLO.

\*See Instructions On Reverse Side

2/11/104 for [illegible]  
ok Frank

JAMES L. LUDWICK

FORMATION INFORMATION AND DRILLING PRACTICES

WELL:

STAR LAKE #1

LOCATION:

660' FNL & 660' FEL  
Sec. 26 - T20N-R6W  
McKinley Co., NM

LEASE NUMBER:

NM-5981

RECEIVED

MAR 1 1979

U. S. GEOLOGICAL SURVEY  
DURANGO, COLO.

1. Surface Formation: Kirtland

2. Tops from E. Log:   Pictured Cliffs       412  
                          Chacra               785  
                          Menefee           1545  
                          Point Lookout     2510

3. Estimated depths of expected oil, gas, or water.  
    Will test zone: 2468-78

4. Proposed casing program:

    Casing as presently in the well:

    New 8-5/8 @ 83' cemented 85 sacks

    New 4-1/2 @ 2640' cemented 350 sacks

5. Specifications for pressure control equipment.

    The attached schematic shows the type of blow out prevention to be used while drilling. The unit will be tested to 800 PSI with rig pump prior to drilling from under surface. Both blind and pipe rams will be tested.

6. Drilling Fluid:     Clear Water

7. Auxiliary equipment:

- a. Bit float
- b. Full opening stabbing valve to be used when Kelly is not in string.

8. Logging - Coring - Testing: NONE

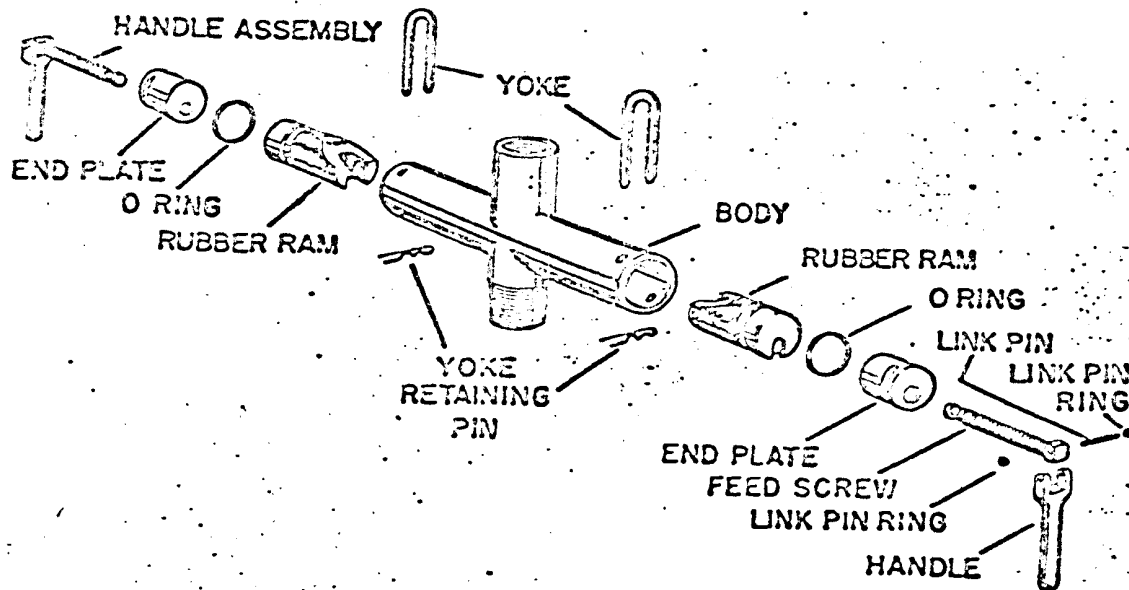
9. Abnormal temperatures, pressure, or hazardous conditions:

    None expected.

10. Starting date:

    Anticipated starting date will be 4-1-1979 or when approved Re-entry and zone test will require about 6 days.

# BLOWOUT PREVENTERS



ATTACHMENT TO POINT 5  
API SERIES 5" 600

JAMES L. LUDWICK

SURFACE DEVELOPMENT PLAN

WELL:

STAR LAKE #1

LOCATION:

660° FNL & 660° FEL  
Sec. 26 - T20N - R6W  
McKinley Co., NM

LEASE NUMBER;

NM-5981

1) Existing roads. (Shown in green)

The attached topographic map shows all existing roads within three (3) miles of the proposed location. All roads are in fair condition and will require a minimal amount of work to upgrade them to handle normal drilling activity traffic.

2) Planned access road. (Shown in red)

The new access road will be approximately 20' wide and 1 mile long. No cut, fill, turnouts, or culverts will be needed. No fences, gates or cattle guards will be crossed. Maximum grade will be 5%. Water bars will be used where needed to aid drainage and help prevent erosion.

3) Location of existing wells.

All wells (water, abandoned, disposal, and drilling) are shown and so labeled on the attached topographic map.

4) Location of existing production facilities.

All production facilities are to be contained within the proposed location.

James L. Ludwick does not own or control any tank batteries, production facilities or production, gathering and service lines within three miles of the proposed location.

5) Location and type of water supply.

Water for drilling will be trucked from Chapman's water hole, approximately 35 miles northwest of the location. This water is privately owned.

6) Source of construction material.

Any construction material required for road or location will be excess material accumulated during building of such sites.

7) Methods of handling waste material.

(Refer to attached well site layout.)

All material that can be safely burned will be so disposed when weather conditions permit.

All nonburnable waste (drilling fluids, cuttings, chemicals, etc.) will be held in the reserve pit until dry, and then buried. Any oil that accumulates on the pit will be removed prior to leaving the pit to dry. Pits will be fenced during dry out, then completely back-filled with dirt prior to preparing the location for production or abandonment.

- 7) Any solid waste that can not be buried will be taken from the location and properly destroyed.

All portable chemical toilet will be supplied for human waste.

- 8) Ancillary facilities.

None planned.

- 9) Well site layout.

The attached layout shows the drilling rig with all supporting facilities. Cut and fill, required for pad construction, is also shown.

- 10) Plans for restoration of surface.

Restoration of the well site and access road will begin within 90 days of well completion, weather permitting.

Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed and leveled. Both road and location will have top soil replaced and will be reseeded when germination can occur.

Should the well be commercial, that portion of location not needed for operation will be repaired as above. The portion of the location needed for daily production operations, and the access road, will be kept in good repair and clean.

In either case, cleanup of the site will include burning any safely burnable material, filling of all pits, and proper disposal of any nonburnable material that can not be safely buried. Any oil that has accumulated on the pits will be trucked away.

- 11) Other information.

General topography of the area may be seen on the attached map.

This location is one mile west of the Continental Divide at Cebra Del Raton Mesa. The site has a small westerly slope. The area is sandy and is covered with sage brush and native grasses. There is evidence of sheep and small animal life in the area.

Surface at this location belongs to the State of New Mexico.

There are no occupied dwellings in the area.

There were no archaeological or cultural sites visible on the location. The archaeologist's report has been approved as in the well file.

12.

Claude C. Kennedy  
Consultant  
4949 San Pedro, N.E.  
Suite 47  
Albuquerque, New Mexico 87109  
Phone: 883-9624

13. 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 presently exist; that the statements made in the 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 E. Coleman, and his contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

~~December 10, 1978~~

Original Signed By:

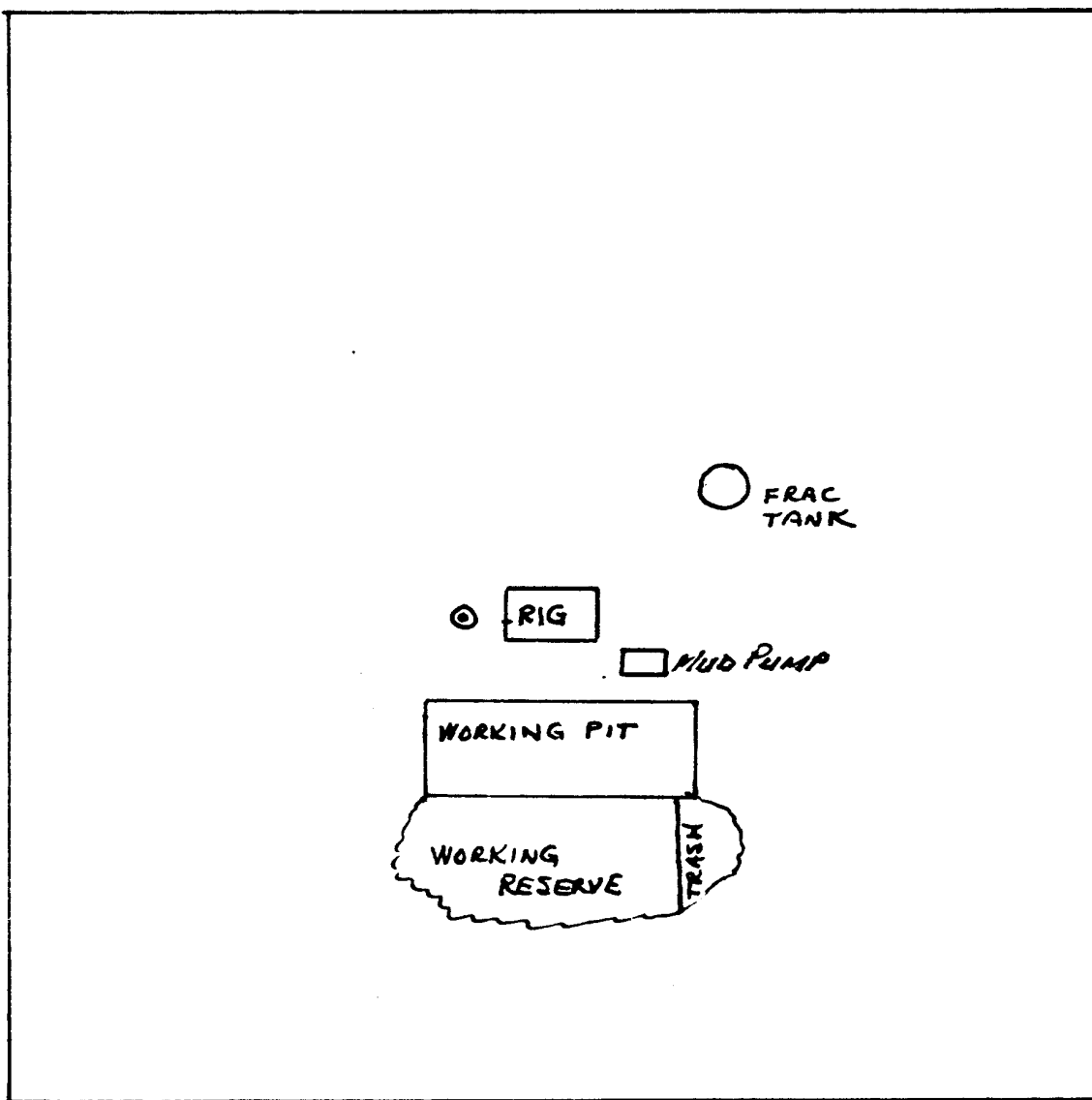
CLAUDE C. KENNEDY

\_\_\_\_\_  
Claude C. Kennedy

2-27-79

Original Signed By:  
CLAUDE C. KENNEDY





ACCESS ROAD LOW

LOCATION AS - BUILT  
EAST & WEST SIDE WAS LEVEL  
SOUTH SIDE REQUIRED 2' FILL  
NORTH SIDE REQUIRED 2' TO 5' CUT

WELL SITE LAYOUT:

JAMES L. LUDWICK (RE-ENTRY)

\*1 STAR LAKE

SEC. 26, T20N, R6W  
660' FNL, 660' FEL

