

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

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

JOHN E. SCHALK

## 3. ADDRESS OF OPERATOR

BOX 2078, FARMINGTON, NEW MEXICO

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

At surface

790' FR. N. LN, 1650' FR. E. LN.

At proposed prod. zone

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

## 15. DISTANCE FROM PROPOSED\*

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

790'

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

2640'

## 16. NO. OF ACRES IN LEASE

320

## 19. PROPOSED DEPTH

3000'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

ROTARY

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

7177 GR.

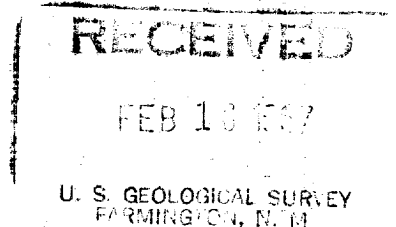
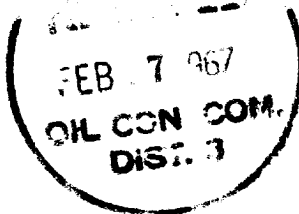
## 22. APPROX. DATE WORK WILL START\*

2-15-67

## 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              | 100           | 90 SKS             |
| 7 7/8        | 4 1/2          | 9.5             | 3000          | 150 SKS            |

PROPOSE TO SET 4 1/2" CASING TO BASE OF PICTURED CLIFFS SAND AT  
APPROXIMATELY 3000', WITH SUFFICIENT CEMENT TO COVER OJO ALAMO  
SAND. WILL PERFORATE AND SAND-WATER FRAC PICTURED CLIFFS SAND.  
BOP WILL BE USED.



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

V. L. WIEDERKEHR

TITLE

CONSULTANT

DATE

2-9-67

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

|                                                                                                                               |                                               |                             |                               |                                        |                      |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------|-------------------------------|----------------------------------------|----------------------|
| Operator<br><b>JOHN E. SCHALK</b>                                                                                             |                                               |                             | Lease<br><b>CINCO DIABLOS</b> |                                        | Well No.<br><b>4</b> |
| Unit Letter<br><b>B</b>                                                                                                       | Section<br><b>9</b>                           | Township<br><b>23 NORTH</b> | Range<br><b>4 WEST</b>        | County<br><b>RIO ARRIBA</b>            |                      |
| Actual Footage Location of Well:<br><b>790</b> feet from the <b>NORTH</b> line and <b>1650</b> feet from the <b>EAST</b> line |                                               |                             |                               |                                        |                      |
| Ground Level Elev.<br><b>7177.0</b>                                                                                           | Producing Formation<br><b>Pictured Cliffs</b> |                             | Pool<br><b>Ballard</b>        | Dedicated Acreage:<br><b>160</b> 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 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.

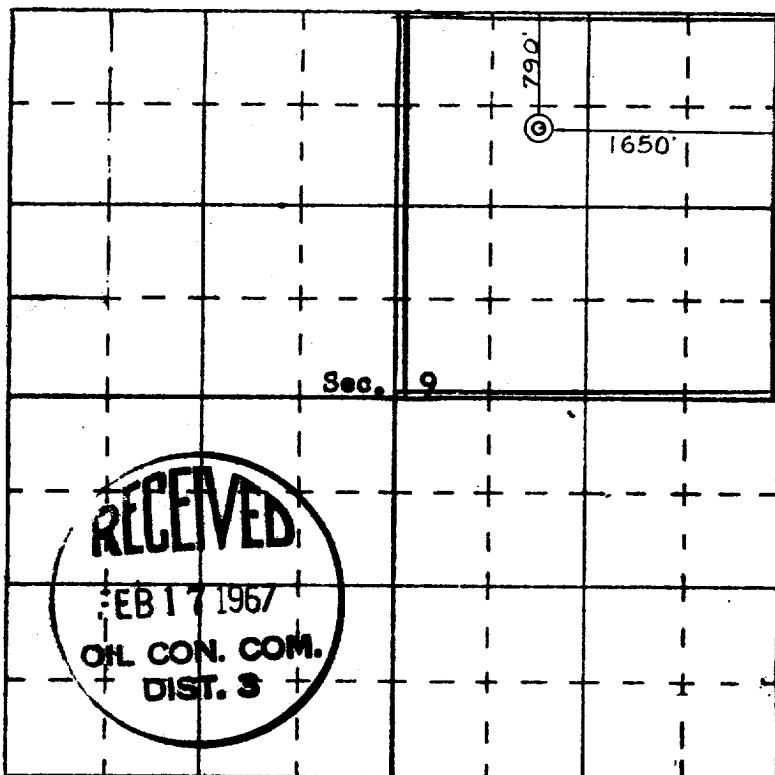
**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name V. L. Wiederkehr  
 Position Consultant  
 Company \_\_\_\_\_  
 Date 2-9-67

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 \_\_\_\_\_  
 Registered Professional Engineer  
 State of New Mexico  
 No. \_\_\_\_\_  
 Seal of the State Engineer  
 Certified \_\_\_\_\_



SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

*Well file*

ARAPAHOE DRILLING CO.

P.O. BOX 2078 • FARMINGTON, NEW MEXICO 87401

JOHN E. SCHALK  
MANAGING PARTNER

AREA CODE 505  
TELEPHONE 325-5015

HOLE DEVIATION AFFIDAVIT

Operator: John E. Schalk  
Well Name: Cinco Diablos #4  
Description of Lease: 790' Fr. N. Ln., 1650' Fr. E. Ln.  
Section 9, Township 23 North, Range 4 West  
Rio Arriba County, New Mexico

| <u>From</u> | <u>To</u>         | <u>Deviation</u> |
|-------------|-------------------|------------------|
| -0-         | 115'              | 1/4°             |
| 115'        | 615'              | 1°               |
| 615'        | 1110'             | 3/4°             |
| 1110'       | 1600'             | 3/4°             |
| 1600'       | 2100'             | 1/2°             |
| 2100'       | 2500'             | 1/2°             |
| 2500'       | 2930' Total Depth | 1/2°             |

I hereby swear (or affirm) that the statements made are a full and correct report.

  
Arapahoe Drilling Co.

*William H. Hallcroft*  
William H. Hallcroft  
Office Manager

Subscribed and Sworn to Before Me This 21st Day of March 1961

\*My commission expires August 12, 1961

My commission expires

*Stanley W. [Signature]*  
Notary Public