

Form 9-331 C  
(May 1964)

SUBMIT IN TRIPLICATE\*

(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.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

Jerome P. McHugh

## 3. ADDRESS OF OPERATOR

Box 234, Farmington, NM 87401

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

At surface

790' FSL - 1850' FWL

At proposed prod. zone

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

30 miles south of Dulce, NM

## 15. DISTANCE FROM PROPOSED\*

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

1020'

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.Approx.  
1 1/2 mi.

## 16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL.

350.60

## 19. PROPOSED DEPTH

6200'

## 20. ROTARY OR CABLE-TOOLS

Rotary

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

7011' GR

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

6-15-78

## 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"         | 32.30#          | 200'          | 200 sx             |
| 7-7/8"       | 4-1/2"         | 10.5#           | 6200'         | 1000 sx (2 stages) |

Plan to drill well with mud thru Mesaverde formation, set 4-1/2" casing and cement to surface in two stages, selectively perforate and frac Mesaverde formation, cleanout after frac, run 1-1/4" tubing and complete well.

Will use hydraulic blowout preventer furnished by rig while drilling, Shaffer double-gate manual BOP while completing, and 600 series screwed API wellhead.

NMERB Requirement: Gas is not dedicated at this time.

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

Thomas A. Dugan

TITLE Agent

DATE 5-3-78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

MAY 8 1978

U. S. GEOLOGICAL SURVEY  
DURANGO, COLO.

\*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes  
Effective 1-

All distances must be from the outer boundaries of the Section.

|   |  |                             |                       |                        |                                     |                       |  |  |
|---|--|-----------------------------|-----------------------|------------------------|-------------------------------------|-----------------------|--|--|
| Operator<br><b>Jerome P. McHugh</b>   |  |                             | Lease<br><b>Chris</b> |                        |                                     | Well No.<br><b>4A</b> |  |  |
| Unit Letter<br><b>N</b>   | Section<br><b>9</b>                      | Township<br><b>27 North</b> |                       | Range<br><b>3 West</b> | County<br><b>Rio Arriba</b>         |                       |  |  |
| Actual Footage Location of Well:<br><b>790</b> feet from the <b>South</b> line and <b>1850</b> feet from the <b>West</b> line |  |                             |                       |                        |                                     |                       |  |  |
| Ground Level Elev.<br><b>7011</b>   | Producing Formation<br><b>Mesa Verde</b> |                             | Pool<br><b>Blanco</b> |                        | Dedicated Acreage:<br><b>350.60</b> |                       |  |  |

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 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  
**Thomas A. Dugan**  
Position  
**Agent**  
Company  
**Jerome P. McHugh**  
Date  
**5-3-78**

REGISTERED LAND SURVEYOR  
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 are true and correct to the best of my knowledge and belief.  
**ESTHER V. ECHOHAWK**

Date Surveyed  
**April 26, 1978**  
Registered Professional Engineer and/or Land Surveyor  
**E.V. Echohawk**  
Certificate No. **3602**  
**E.V. Echohawk LS**

