

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

Blackwood and Nichols Co., Ltd.

## 3. ADDRESS OF OPERATOR

P. O. Box 1237, Durango, Colorado 81301

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

At surface

790' F/NL - 790' F/EL

At proposed prod. zone

Same

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

Ten miles

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

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

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

## 16. NO. OF ACRES IN LEASE

2040.00

## 19. PROPOSED DEPTH

6230'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

E/320

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6592' GL

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

May 24, 1981

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH   | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|-----------------|--------------------|
| 12 1/4"      | 9 5/8"         | 36.00# H-40     | 250' New        | Circulate          |
| 8 3/4"       | 7"             | 23.00# K-55     | 3735' New       | Cover Ojo Alamo    |
| 6 1/4"       | 4 1/2"         | 10.50# K-55     | 3535'-6230' New | To-top of liner    |

NTL-6

(3) San Jose

(6) Ojo Alamo 2330'; Kirtland 2635'; Lewis 3650'; Cliffhouse 5175'; Mancosque 6040';

(7) Fruitland 3140'; Pictured Cliffs 3420'; Massive Cliffhouse 5475'; Menefee 5530';

Point Lookout 5780'.

(9) 9 5/8" surface; 250 sacks Class B cement with 2% CaCl<sub>2</sub>; circulate to surface.  
7" intermediate; 200 sacks Lite cement with 1/4# flocele per sack followed with  
100 sacks Class B cement with 2% CaCl<sub>2</sub> and 1/4# flocele/sack in order to bring  
cement up behind 7" casing to approximately 1600' to cover the Ojo Alamo formation.  
4 1/2" liner; 300 sacks 50-50 Pozmix with 2% Gel, 0.6% CFR, 1/4# flocele per sack  
and 6 1/4# Gilsonite per sack to circulate cement at top of liner at 3210'.

(10) A 3000 PSI WP; Series 10" - 900 - adapted to Series 10" - 600 and 6" - 600 hydraulic  
blowout preventer equipped with blind and necessary pipe rams will be used with

(Over) adequate kill and bleed off lines. Blowout preventer will be pressure tested after

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 DeLasso LoosTITLE District ManagerDATE January 5, 1981

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY

NMOC

\*See ... 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.

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-781-025/VIII-239

(continued)

- (11) 9 5/8" and 7" casing is set and will be tested as to operating condition during each trip while drilling. A rotating blowout preventer will be used while drilling with gas. (See schematic diagram)
- (12) A water base drilling mud of sufficient weight to control the Fruitland Formation will be used while drilling the 8 3/4" hole.
- (13) Compensated Density Gamma Ray-Neutron logs will be run in open hole. No testing or coring is anticipated.
- (14) Normal Fruitland field pressures are anticipated to be controlled with sufficient weighted mud. No hydrogen sulfide is anticipated.

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.

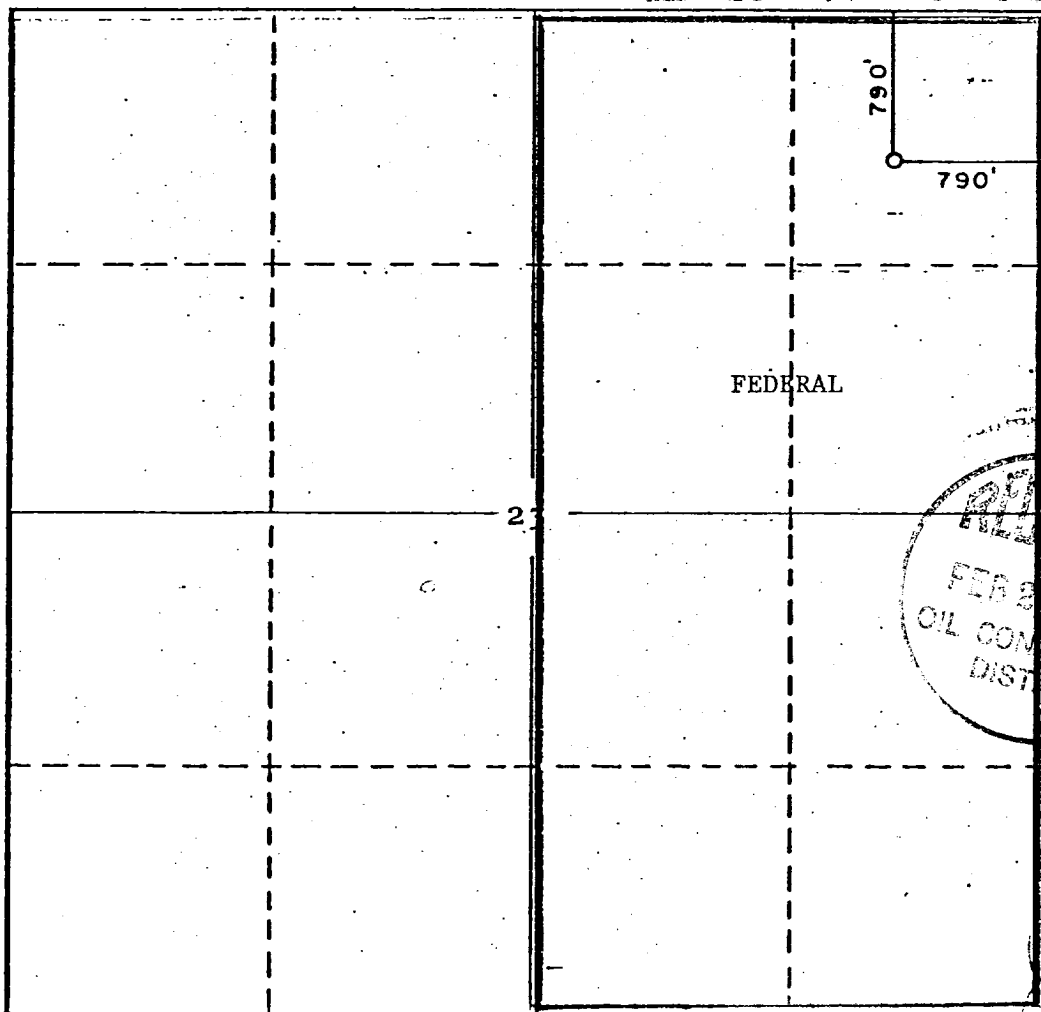
|                                                                                                                              |                                         |                                 |                                       |                           |                       |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------|---------------------------------------|---------------------------|-----------------------|
| Operator<br><b>BLACKWOOD &amp; NICHOLS</b>                                                                                   |                                         |                                 | Lease<br><b>NORTHEAST BLANCO UNIT</b> |                           | Well No.<br><b>71</b> |
| Unit Letter<br><b>A</b>                                                                                                      | Section<br><b>23</b>                    | Township<br><b>31 N.</b>        | Range<br><b>7W., N.M.P.M.</b>         | County<br><b>SAN JUAN</b> |                       |
| Actual Footage Location of Well:<br><b>790</b> feet from the <b>north</b> line and <b>790</b> feet from the <b>east</b> line |                                         |                                 |                                       |                           |                       |
| Ground Level Elev.<br><b>6592 U.G.</b>                                                                                       | Producing Formation<br><b>Mesaverde</b> | Pool<br><b>Blanco-Mesaverde</b> | Dedicated Acreage<br><b>320</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 Unitization

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.



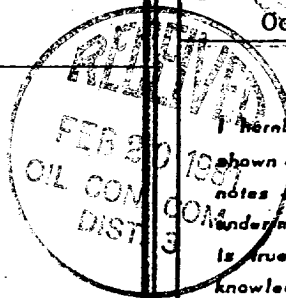
CERTIFICATION

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

*DeLasso Loos*

Name  
**DeLasso Loos**  
Position  
**District Manager**  
Company  
**Blackwood & Nichols Co., Ltd.**

Date  
**October 22, 1980**



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  
**October 14, 1980**

Registered Professional Engineer and/or Land Surveyor  
*John A. Kroeger*  
**John A. Kroeger, L.S.**

Certificate No.

**1941**

