

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-27817

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
 DRILL ☒ DEEPEN ☐ PLUG BACK ☐
 2. TYPE OF WELL
 OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐
 3. NAME OF OPERATOR
 Blackwood & Nichols Co., Ltd.
 4. ADDRESS OF OPERATOR
 P.O.Box 1237, Durango, Colorado, 81302-1237
 5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 1360' FNL - 1670' FEL
 At proposed prod. zone
 Same
 6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
 12 1/2 miles NE of Blanco, New Mexico
 7. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
 (Also to nearest drilg. unit line, if any)
 1360'
 8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 130'
 9. NO. OF ACRES IN LEASE
 320
 10. NO. OF ACRES ASSIGNED TO THIS WELL
 320
 11. PROPOSED DEPTH
 3249'
 12. ROTARY OR CABLE TOOLS
 Rotary
 13. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6358' GL
 14. APPROX. DATE WORK WILL START
 May 1, 1990

This action is subject to technical and procedural review pursuant to 43 CFR 3165.4 and appeal pursuant to 43 CFR 3165.4.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	GENERAL REQUIREMENTS
12 1/4"	9 5/8"	36#	300'	295 cuft, circ to surface
8 3/4"	7"	23#	3020'	940 cuft, circ to surface
6 1/4"	5 1/2"	17#	2920' - 3249'	39 cuft, circ to liner top

Propose to spud in the San Jose formation. Drill a 12 1/4" hole to a TD of 300'. Run and cement surface casing with cement returns to surface. WOC 12 hours. Test to 600 psi/30 mins. Drill an 8 3/4" hole to a TD of 3020' using fresh water mud. No abnormal pressures or poisonous gases are anticipated. Run and cement intermediate casing with cement returns to surface. WOC 12 hours. Test to 1500 psi/30 mins. Drill a 6 1/4" hole to a TD of 3249' using water and air. A mudlogging unit will be used while drilling this interval. Run the production liner. The liner will be cemented if the need for fracture stimulation is indicated.

RECEIVED
MAY 21 1990

Surface is Bureau of Land Management

OIL CON. DIV.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on productive zone and proposed new production zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give a prevention program, if any.

SIGNED William F. Clark TITLE Operations Manager DATE 9 April 90

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

MAY 10 1990
AREA MANAGER

Hold 2-104 for P&M on conversion of the 441

*See Instructions On Reverse Side

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102
Energy Office
Oil Lease - 4 copies
Gas Lease - 3 copies

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesa, NM 88210

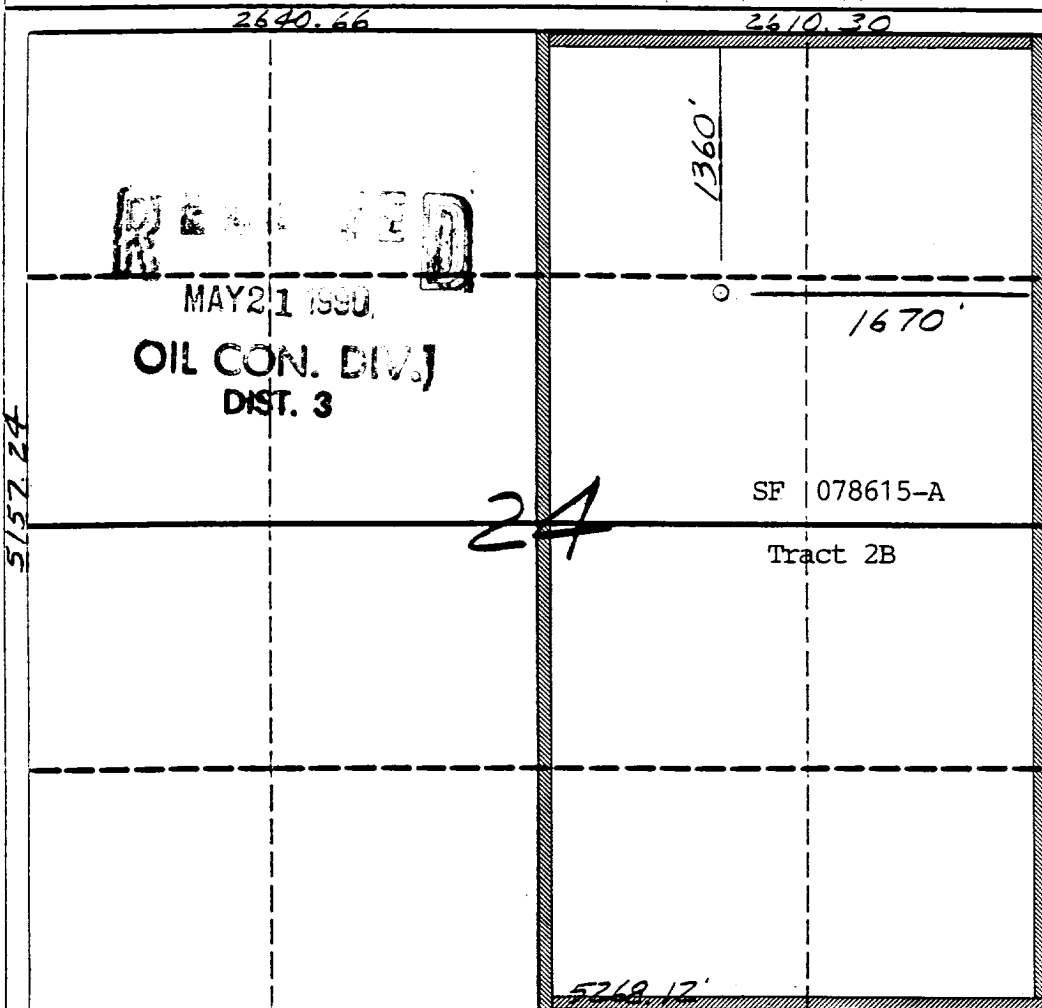
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Blackwood & Nichols Co., LTD.		Lease Northeast Blanco Unit		Well No. 441 R
Unit Letter G	Section 24	Township 30 North	Range 8 West	County San Juan
Actual Footings Location of Well: 1360 feet from the North line and 1670 feet from the East line				
Ground level Elev. 6358'	Producing Formation Fruitland Coal	Pool Basin Fruitland Coal	Dedicated Acreage 320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or machine marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? **NA**
☐ 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 allowance 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature William F. Clark
Printed Name **William F. Clark**
Position **Operations Manager**
Company **Blackwood & Nichols Co.**
Date **4-9-90**

SURVEYOR CERTIFICATION

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 **3-20-90**
Signature of Surveyor Neale O. Edwards
Professional Surveyor

Certificate No. **6857**