

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 & Nichols Co., Ltd.

3. ADDRESS OF OPERATOR

P. O. Box 1237, Durango, CO 81302

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

At proposed prod. zone 810' FNL, 1155' FEL

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

18 miles SE of Ignacio, Colorado

10. DISTANCE FROM PROPOSED*

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

1155'

16. NO. OF ACRES IN LEASE

2560

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 acres

18. DISTANCE FROM PROPOSED LOCATION*

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

296'

19. PROPOSED DEPTH

3195'

20. ROTARY OR CABLE TOOLS

Rotary

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

6531' GL

22. APPROX. DATE WORK WILL START*

November 30, 1989

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#	300'	207 cf/circulate to surface
8-3/4"	7"	23#	3050'	744 cf/circulate to surface
6-1/4"	5-1/2" or 4-1/2"	17#, 11.6#	2950'-3195'	30 cf/circulate to liner top

Propose to spud in the San Jose formation. Will drill a 12-1/4" surface hole to a TD of 300'. Surface casing will be run and cemented with cement returns to surface. WOC 12 hours. Test to 600 psi/30 minutes. Drill an 8-3/4" hole to a TD of 3050' using fresh water mud. No poisonous gasses or abnormal pressures are anticipated. Run intermediate casing and cement with cement returns to surface. WOC 12 hours. Test to 1500 psi/30 minutes. Drill a 6-1/4" hole to a TD of 3195', using water and air. Run a mudlogging unit while drilling this interval. Run the production liner. A 4-1/2" liner will be cemented if the well's natural flow capacity indicates the need for fracture stimulation.

Surface ownership is Bureau of Land Management.

RECEIVED
OCT 19 1989

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 indicated depths. Do not blowout preventer program, if any.

24.

SIGNED William F. Clark

TITLE Operations Manager

DATE Sept 18, 1989

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

OCT 17 1989

AREA MANAGER

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Santa Fe, New Mexico 87504-2088

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

All Distances must be from the outer boundaries of the section

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 interest, has been approved by the Division.

Certificate No.

6857

