

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0130
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO

SF 079042

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME NEBU

Agmt. I, Sec. 929

8. FARM OR LEASE NAME

Northeast Blanco Unit

9. WELL NO.

423

10. FIELD AND POOL, OR WILDCAT

Basin Fruitland Coal

11. SEC., T., R., M., OR BLE. AND
SURVEY OR AREA

Sec. 8, T30N, R7W

12. COUNTY OR PARISH 13. STATE

Rio Arriba New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐
2. NAME OF OPERATOR Blackwood & Nichols Co., Ltd.
3. ADDRESS OF OPERATOR P. O. Box 1237, Durango, CO 81301-1237
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface 655' FNL - 740' FEL
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6133' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

Completion

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

01-31-89 Move in and rig up. Nipple down wellhead, nipple up 4-3/4' bit and 2 7/8" tubing. Tag cement at 2584' with 80 jts of tubing. Drill 6' of cement to DV tool at 2590'. Drill out DV tool.

02-01-89 Clean out to PBTD. Run VDL-CBL-CCL logs. Ran bond logs under pressure of 1200 psi. Pressure tested casing to 1500 psig for 15 minutes - held OK. Perf under lubricator 3023'-3033' (10'), total 40 shots @ 4 JSPF, 22.5 grams, .48". Prepare to frac.

02-02-89 1st stage frac job Summary: Stimulated well with 36,680# 40/70 Arizona sand and 68,250# 12/20 Brady sand with 50,190 gals 30# ultra frac gel and 4956 gals of crosslinker. Treatment averaged 41 BPM @ 2800 psig. Maximum - 3248 psig @ 42 BPM. Minimum - 2710 psig @ 41 BPM. ISIP - 2020 psig. Shut in after 5 minutes - 1800 psig, 10 minutes - 1749 psig, 15 minutes - 1701 psig. Job completed 2-1-89. Shut in well.

(Continued on next page)

18. I hereby certify that the foregoing is true and correct)

SIGNED William F. Clark TITLE Operations Manager

DATE March 6, 1989

William F. Clark
(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

*See Instructions on Reverse Side

- 02-03-89 Run in hole with 2 7/8" sawtooth collar and 2 7/8" tubing. Tagged fill at 3020'. Clean out to 3075'. Run Howco 5-1/2" drillable bridge plug, set at 3010'. Pressure test casing to 1000# for 10 minutes. Plug held pressure. Perfed in two runs under lubricator: 1st: 2974'-2990' (16'); 2nd: 2934'-2949' (15'). Net of 31', total of 124 shots @ 4 JSPF, 22.5 grams, .48". 2nd stage job Summary: Stimulated well with 28,300# 40/70 Arizona sand and 198,000# 12/20 Brady sand with 83,400 gal. 30# Ultra frac gel and 7,600 gal. cross linker. Treatment averaged 49 BPM @ 3000 psig. Maximum - 3410 psig @ 50 BPM; minimum - 2575 psig @ 49 BPM. ISIP - 2002 psig. Shut in after 5 minutes 1750 psig, 10 minutes - 1710 psig, 15 minutes - 1700 psig. Job completed 2-2-89. Shut well in for night.
- 02-04-89 Pick up 4 3/4" bit and 2 7/8" tubing. Tag sand at 3003', top of bridge plug at 3008'. Drill out plug and clean out to PBTD of 3191'. Run double tracer log under lubricator. Run scandium-iridium tracer. Second stage iridium frac stayed in interval between 2932' and 2990' with major entries into coal zones at 2972'-2982' and 2932'-2948'. First stage scandium confined to perforated interval at 3021'-3031' with spike at 2952' in shaly interval. Run in hole with Howco 5 1/2" drillable bridge plug under lubricator and set plug at 2928'. Pressure test plug to 900 psig for 10 minutes, held pressure.
- 02-07-89 Perforate under lubricator. Make two runs: 1st, 2890'-2916' with 4 JSPF, net 26' and 104 shots; 2nd, 2976'-2988' with 2 JSPF, net 12' and 24 shots. Total of 38' and 128 shots. Frac, 3rd stage job summary: Stimulated well with 36,500# 40/70 Arizona sand and 225,500# 12/20 Arizona sand with 100,300 gal. 30# X-linked gel. Treatment averaged 50 BPM @ 2050 psig. Treating rates lower due to freezing. Maximum pressure - 2390 psig @ 52 BPM, minimum pressure - 1502 psig @ 51 BPM. ISIP - 2030 psig. Shut in 5 minutes - 1856 psig, 10 minutes - 1740 psig, 14 minutes - 1600 psig. Nolte slope positive throughout job. Successful frac; job completed 2-6-89. Shut well in for night.
- 02-08-89 SICP - 600 psig. Pick up 4 3/4" mill-tooth bit and 2 7/8" tubing. Tag fill at 2921'. Clean out 6' of sand to top of bridge plug at 2927'. Drill plug out. Clean out to PBTD of 3191'. Circulate hole clean. Shut down for night.
- 02-09-89 SICP - 700 psig. Trip in hole to PBTD of 3191'. No fill. Run tracer log. Log indicates 3rd stage frac contained in zone from 2870' - 2922'. Pick up notched collar, 1 jt. tail pipe, seating nipple and 98 jts. 2 7/8" tubing. Total of 3052.17 feet tubing. Tubing landed at 3063' seating nipple at 3033'. Nipple down BOP, nipple up wellhead. Rig down.

RECEIVED

MAR 11 1989

CENTRAL DIV