

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Submit in Triplicate*

Form approved
Budget Bureau No. 1004-0435
Expires August 31, 1985

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. Type of Well: oil well ___ gas well X other SURFACE - 2 ANTI: 3

2. Name of Operator: Blackwood & Nichols Co., Ltd.

3. Address of Operator: P.O. Box 1237, Durango, Colorado 81302-1237

4. Location of Well: (Report location clearly, in accordance with any State requirements)*
At surface
At top prod. interval reported below 840' FSL, 1725' FWL
At total depth

5. Lease Designation & Serial #: SF-079045

6. If Indian, Allottee/Tribe Name

7. Unit Agreement Name: Northeast Blanco Unit

8. Farm or Lease Name: Northeast Blanco Unit

9. Well No.: 412

10. Field and Pool, or Wildcat: Basin Fruitland Coal

11. Sec., T., M., or Block and Survey or Area: Sec. 29, T31N, R7W

12. County or Parish: San Juan 13. State: NM

14. Permit No.: 30-045-27354

15. Elevations (Show whether DF, RKB, RT, GR, Etc) 6289' GL

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

- | | |
|--|---|
| NOTICE OF INTENTION TO:
- Test Water Shut-off _____
- Fracture Treat _____
- Shoot or Acidize _____
- Repair Well _____
- Other _____ | SUBSEQUENT REPORT OF:
- Water Shut-off _____
- Fracture Treatment _____
- Shooting or Acidizing _____
- Other: Completion _____X____
(Note: Report results of multiple completion on Well Completion or Recompletion Report 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.)*

- 1-17-90 Move on and rig up
- 1-18-90 Pick up 6-1/4" Smith FDT bit, bit sub, one drill collar, N nipple, 9 4-3/4" drill collars then 3-1/2" drill pipe and TIH.
Found cement at 2843'. Pressure test 7" casing and BOP pipe rams to 2000 psig for 30 minutes - held OK.
- 1-19-90 Drilled cement and shoe at 2892' then drilled Fruitland formation from 2892' to 3189'. Fruitland coal intervals: 2913-2916; 3023-3033, 3035-3058, 3060-3062, 3077-3082, 3091-3093, 3108-3109, 3114-3115, 3164-3171, and 3173-3186 for a total of 62'.
Circulated well with 8.0 BPM of water decreasing to 4.4 BPM; added 1.0 MM air. Returns moderate to very heavy coal. Very strong water production, estimated at 200 BWH.
- 1-20-90 Work pipe and circulate open hole with 1.0 MM air and 3.5 BPM water. Returns moderate to very heavy coal. Work pipe and blow open hole with 1.0 MM air and 4.4 decreasing to 2.6 BPM water Returns light coal.

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

Signed: William F. Clark William F. Clark Title: Operator MAR 16 1990

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

Accepted For Record
MAR 16 1990
Chief, Branch of Mineral Resources
Farmington Resource Area

* 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 or the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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- 1-21-90 Work pipe and blow open hole with air and water. Returns light coal.
Work pipe 3057' to 3089' and blow open hole with air and water. Hole very sticky. Pipe got stuck at 3054'.
Work stuck pipe, hole flowing gas and heavy water with minor amounts of coal. Very strong water production, 250 BWH, or 6000 BWD.
- 1-22-90 Working pipe and cleaning out from 3050' to 3089' with air and water; strong gas and very strong water production.
Circulate hole with air and water. Moderate to heavy coal returns. No gas gauge; estimated 3 to 4 MMCFD. Water production very strong.
- 1-23-90 Work pipe and blow open hole with air and water. Returns moderate to light coal. Hole getting increasingly free.
Clean out to TD with air and water. Returns moderate to light with periods of extremely heavy coal. Work pipe and blow open hole with air and water. Returns light coal.
- 1-24-90 Worked pipe and circulated hole at TD with air and water. Returns light coal. Pulled into 7" casing and gauged well, 2" pitot: 1 hour - 30 psig, 3,758 MCFD (very wet).
TIH and found a bridge at 3094'. Washed down to 3120' with air and water; hole very sticky. Pipe stuck at 3091'.
Worked pipe, able to rotate but cannot move up. Shut in well, pipe free.
POOH to 2994'. Unable to circulate down drill pipe, plugged. Called for Cudd Pressure Control. Rigging up BOP stack to snub out of hole.
- 1-25-90 Strip 3-1/2" drill pipe and snub drill collars out of hole, bottom two drill collars plugged with coal. Left 6-1/4" Smith FDT bit and 3-1/2" regular box x 3-1/2" IF box double bored for floats, and bit sub in hole. Bit sub 2.57' x 4-11/16" OD and bit (.75' long). Total length of fish 3.32'. Bottom drill collar pin not broken off.
- 1-26-90 Pick up 6-1/4" bit rerun, one 4-3/4" drill collar with bit sub double bored for float. Snub N nipple and nine 4-3/4" drill collars. Rig down snubbing equipment and rig up to strip 3-1/2" drill pipe. Strip 3-1/2" drill pipe in hole to 2842'. Circulate well with air at 2842'. Returns moderate to light coal.
Clean out 3019-3050' with air and water. Returns heavy coal.
- 1-27-90 Work pipe 3050-3092' and blow open hole with air and water. Returns heavy coal fines and black water. Circulate and work 1 jt of pipe out, pipe sticky. Close well in, pressure built to 320 psi, rotate and work 2 more jts pipe out, try to work jt, pipe became very sticky.
- 1-28-90 Work pipe at 2960'. Surge well, no pipe movement. Well unloaded, pipe started rotating, able to move pipe up and down. Lay down 5 jts 3-1/2" drill pipe to be inside 7" casing, lost 8000# weight.
Mix mud, wait on chemical to mix calcium carbonate.
- 1-29-90 Mixing mud, building volume. Pick up 5-3/4" overshot with drill collars. RIH to top of fish. Circulate 1 hour. Returns small coal over shaker, tag top of fish at 2032'.
Try to get over fish, could not. TOOH. Overshot lip bent in, overshot skirt egg-shaped. TIH with mill, ten drill collars to top of fish at 2032'. Mill off top of fish from 2032-2035'. Returns fine coal and metal.
- 1-30-90 Mix mud, build volume. POOH with 6-1/8" mill. TIH with overshot. Unable to catch fish at 2035'. POOH with fishing tools. TIH with 6-1/8" mill. Mill 3' to 2038'. POOH with mill. TIH with overshot. Tag fish at 2038'. Work 1 hour trying to latch on to fish. Jar one hour, fish came loose. Lay down 6 jts drill pipe. Circulate and mix mud.
- 1-31-90 Mix mud, build volume. POOH to top of fish at 510', bit at 1480'. Well kicked. Pick up power swivel and circulate out gas.
POOH to fish and release overshot. Pull fish out of hole, recover entire fish. Break and lay down fishing tools and lay down drill collars.
- 2-01-90 TIH to 2736'. Circulate 30 minutes. TIH to 2934', tag bridge at 2934'. Wash and ream 2934-3058'; well kicking, mud weight and viscosity dropping.
Pull into 7" casing, shut well in. SI. Circulate pit and condition mud. Kill well with 11.2 ppg mud weight and 56 sec. viscosity.
- 2-02-90 Pull into 7" casing; shut well in. Circulate pit and build mud weight and volume. Kill well with bit @ 2902', 11.3 ppg weight. POOH, lay down bit and bit sub. Pick up impression block. TIH to 2030', set 4000# on obstruction.
POOH, block shows 1-1/2" wide by 1/2" long impression on side of block.
- 2-03-90 Pick up 7" casing roller and TIH to ~~3029~~². Roll and work on damaged casing ~~3029-3033~~². TIH with 6-1/4" tapered cutrite mill. Mill on tight spot ~~3029-3033~~². Work casing until mill passed freely. TIH to 2844' and circulate 42 vis and 10.5-10.8 ppg mud. POOH to 1350'_± and well started flowing back.

2-04-90 Kill well and check well for flow 45 minutes.

POOH and lay down 6-1/4" tapered cutrite mill. Pick up and make up 7" RTTS packer and TIH to 2083'. Test casing; set packer at 2085'. Test to 800 psi for 10 minutes - OK. Reset packer at 2020' and test backside to 950 psi for 10 minutes - OK. Reset packer at 2052' and test backside to 900 psi for 10 minutes - OK.

2-04-90 POOH and lay down 7" RTTS. TIH with bit, ten 4-3/4" drill collars, and 3-1/2" drill pipe to 2812'.

2-05-90 Circulate and build mud volume. TOH and lay down drill pipe and drill collars. Picked up one joint 2-7/8" tubing, open ended then 2.25" F nipple with a pump-out plug then 2-7/8" tubing.

2-06-90 Nipple down BOP and blooie lines and nipple up upper tree. Flow well up tubing through 3/4" fixed choke. Flowing pressure: 1/2 hr - 35 psi; 3/4 hr - 40 psi; 1 hr - 30 psi. Well making heavy stream of water and some gas. Unable to obtain a meaningful final gauge.

Completion gauge from 1-24-90: 2" pitot, after 1 hr - 30 psig, 3758 MCFD (very wet). Then flowed well through 3/4" fixed choke, after 1 hour FCP - 185 psig, 2436 MCFD (wet), calculated by $((FCP+12) * 12.365)$. Water production - 4500 BWD.

Shut well in and rig down. Released rig.