

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill, deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals:

SUBMIT IN TRIPLICATE

1. Type of Well: oil well _____ gas well ☒ other _____
2. Name of Operator: Blackwood & Nichols Co., A Limited Partnership
3. Address of Operator: P.O. Box 1237, Durango, CO 81302-1237
4. Location of Well: (Footage, Sec., T., R., M., or Survey Description)

1500' FSL, 790' FML - Section 13, T31N, R7W

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

5. Lease Designation & Serial #:

NM-03358

6. If Indian, Allottee/Tribe Name

7. If Unit or CA, Agmt. Design.:

Northeast Blanco Unit

8. Well Name and No.:

N.E.B.U.# 498

9. API Well No.:

30-045-27710

10. Field & Pool/Expltry Area:

Basin Fruitland Coal

11. County or Parish, State:

San Juan, New Mexico

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other: COMPLETION
	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection

13. 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.)*

See Addendum for a full description of the open hole "stress relieve" type coal completion.

RECEIVED
NOV 16 1990
BLM CON. DIV.
NMTG

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

Signed: R. W. Williams ROY W. WILLIAMS Title: ADMINISTRATIVE MANAGER Date: 11/6/90

(This space for Federal or State office use)

ACCEPTED FOR RECORD

Approved By _____ Title _____ DATE NOV 16 1990

Conditions of approval, if any:

FARMINGTON RESOURCE AREA
BY 27

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.

BLACKWOOD & NICHOLS CO., LTD.

P.O. BOX 1237

DURANGO, COLORADO 81302-1237

(303) 247-0728

Completion Report

Northeast Blanco Unit No. 498 - Basin Fruitland Coal

LOCATION: 1500' FSL, 790' FWL
Section 13, T31N, R7W
San Juan County, New Mexico

10-25-90 7" casing at 3074'.

Circulating at 7" casing shoe; waiting on mud loggers.

Move in and rig up Big "A" Rig No. 25. Strap drill collars and drill pipe. Pressure test 7" casing and blind rams to 2000 psi - held OK.

Pick up new 6-1/4" Smith Tool Co. FDTL (jets: 20-20-20), SN# KP8875, bit sub, one 4-3/4" drill collar, N nipple (1.875" ID), ten 4-3/4" drill collars, 1 jt 3-1/2" drill pipe, and F nipple (2.25" ID). OAL = 367.59'. TIH with 85 jts 3-1/2" drill pipe, Pressure test pipe rams, HCR valves, casing valves, manifold and choke manifold to 2000 psi - held OK.

Tag float at 3029', drill float and 39' cement. Circulate and wait on mud loggers.

10-26-90 7" casing at 3074'; open hole 3074-3385'.

Circulating hole with 3 BPM water. Returns light 1/8" coal (90%) and shale in clear water. Have 3' flare. Water TSTM.

Drill Fruitland formation with 10,000# WOB and 90 RPM @ 800 psig. TD at 3385'; total coal thickness 37'.

Coal Intervals:	3108-3109'	1'
	3121-3124'	3'
	3125-3130'	5'
	3131-3132'	1'
	3196-3201'	9'
	3202-3203'	1'
	3204-3207'	3'
	3209-3210'	1'
	3211-3221'	10'
	3247-3251'	4'
	3254-3255'	1'
	3256-3257'	1'
	3375-3376'	1'
	Total	37'

(Cont'd)

10-26-90 Top P.C. Tongue - 3267'
Top Main P.C. - 3384'
Total Depth - 3385'

10-27-90 Circulating hole with 5 BPM water. Returns light 1/8" coal (90%) and shale in clear water.

Circulate and work pipe at TD with 1 MM air and 3 BPM water. Returns heavy 1-1/2" and less coal and fines in black water. Have 8' flare. Hole tight and sticky.

Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water. Returns heavy to moderate 1/4" coal and coal powder in black to gray water.

Correction (addition)

to footages:	3164-3165'	1'
	3234-3236'	2'
	3263-3265'	2'

Gives total of 42' of coal.

10-28-90 Circulating and working pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbls water sweeps hourly. Returns light 1/8" coal (98%) in clear water.

Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water. Returns light 1/4" and less coal (98%) in gray water.

Lay down 6 jts drill pipe for pitot and shut in tests. Pitot test #1: 1/4 hr - 20 oz., 673 MCFD; 1/2 hr - 11 oz., 506, 3/4 hr - 2 psi, 869; 1 hr - 7 psi, 1644 MCFD.

Shut in test #1: 1/4 hr - 140 psi; 1/2 hr - 220; 3/4 - 280; 1 hr - 380 psi.

Build up annulus pressure to 1000 psi with air and surge well.

Wash to bottom, hit bridge at 3249'. Circulate through bridge and circulate to TD. Returns heavy 1/2" and less coal (97%) in black water.

Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water. Returns moderate to light 1/4" and less coal (98%) in gray water.

Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps hourly. Returns on sweeps, heavy coal in black water; between sweeps returns moderate to light 1/4" and less coal (98%) in gray water.

10-29-90 Circulating and working pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps hourly. Returns moderate to light 1/8" and less coal (98%) in gray to clear water.

Load hole with water, pump 150 Bbls into formation @ 6-1/2 BPM and 1800 psi. Surge well, circulate with 3 MM air. Unload hole. Returns heavy to moderate 1/2" and less coal (98%) in black water.

Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps hourly. Moderate coal on sweeps; between sweeps moderate to light 1/8" and less coal in gray water.

Lay down 6 jts drill pipe. Run pitot and shut in tests. Pitot test #2: 1/4 hr - 29 oz., 815 MCFD; 1/2 hr - 22 oz., 707; 3/4 hr - 21 oz., 700; 1 hr - 15 oz., 600 MCFD (all gauges dry).

Shut in test #2: 1/4 hr - 200 psi; 1/2 hr - 340; 3/4 hr - 460; 1 hr - 500 psi.

Pressure up on well with air to 1000 psi, displace air with water, repeat twice more. Pressure on back side built to 1200 psi. Surge well through both blooie lines.

TIH, had 7' fill. Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps hourly. Returns moderate coal on sweeps; between sweeps moderate to light 1/8" and less coal (98%) in gray water.

10-30-90 7" casing at 3074'; open hole 3074-3385'.

Circulating and working pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps hourly. Returns on sweeps light 1/8" and less coal (98%) in gray water.

Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water alternating 20 to 30 Bbl water sweeps hourly. Returns heavy to moderate coal on sweeps, between sweeps returns moderate to light 1/4" and less coal (98%) in black to gray water.

Have 12-15' flare. Water rate TSTM.

10-31-90 7" casing at 3074'; open hole 3074-3385'.

Circulating and working pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps hourly. Returns light 1/8" and less coal (98%) in gray water.

Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water alternating 20 and 30 Bbl water sweeps hourly. Returns heavy coal on sweeps; between sweeps returns heavy to light 1/4" and less coal (98%) in black to gray water.

Lay down 6 jts drill pipe, shut well in for 2 hours. Pressure built up to 1060 psi, open both blooie lines and surge well.

TIH with drill pipe, had 24' fill, wash and blow to TD.

Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps hourly. Returns heavy to moderate 1/8" and smaller coal (99%) in gray water.

11-01-90 7" casing at 3074'; open hole 3074-3385'.

Circulating and working pipe at TD with 2 MM air and 1 BPM water. Returns light 1/8" coal (99%) in clear water.

Circulate and work pipe at TD with 2 MM air and 1-1/2 BPM with 20 Bbl water sweeps hourly. Returns on sweeps moderate coal; between sweeps light 1/8" coal (98%) in clear water.

Lay down 6 jts drill pipe, run pitot test #3 and 2 hr shut in test. Pitot test: 1/4 hr - 42 oz., 985 MCFD; 1/2 hr - 39 oz., 952; 3/4 hr - 34 oz., 900; 1 hr - 31 oz., 891 MCFD (all gauges dry).

Shut in test: 1/4 hr - 170 psi; 1/2 hr - 320; 3/4 hr - 450; 1 hr - 550; 1-1/4 hrs - 660; 1-1/2 hrs - 750; 1-3/4 hrs - 830; 2 hrs - 900 psi.

Surge well. TIH, had 3' fill.

Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps. Returns heavy to moderate coal on sweeps; between sweeps moderate to light 1/4" and smaller coal (97%) in black to gray water.

(Cont'd)

11-01-90 Circulate and work pipe at TD with 1 MM air and 1 BPM water with 20 Bbl water sweeps hourly. Returns on sweeps moderate to light; between sweeps returns moderate to light 1/4" coal (98%) in clear water.

Circulate and work pipe at TD with 2 MM air and 1 BPM water with 20 Bbl water sweeps hourly. Returns light 1/16" coal (99%) in clear water.

11-02-90 7" casing at 3074'; open hole 3074-3385'.

Rigging down, waiting on trucks.

Circulate and blow well with 2 MM air and 1 BPM water with 20 Bbl water sweeps hourly. Returns light on sweeps; between sweeps light 1/8" coal (99%) and siltstone in clear water.

TOOH laying down 3-1/2" drill pipe and drill collars. Change rams from 3-1/2" to 2-7/8". Tally and rabbit tubing. Rig up to run 2-7/8".

Pick up expendable check, 1 jt 2-7/8" tubing, F nipple (2.25" ID), and 97 jts 2-7/8" 6.5# J-55 EUE 8rd USS tubing. Total tubing run was 3063.10'. Landed at 3077.10' with F nipple at 3044.62'. Land tubing in tubing head.

Nipple down BOP and set off. Nipple up upper tree. Drop ball, pump expendable check off with 20 Bbls water followed by air.

Put air on backside and blow around. Took 950 psi to unload water. Final gauge 36 oz., 919 MCF. Blow well for 2 hours.

Release rig at 6:00 a.m., 11-2-90.