

*(December 1989)

**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 TRIPLICATE1. Type of Well: oil well _____ gas well **X** other _____

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

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

4. Location of Well: (Footage, Sec., T., R., M., or Survey Description)

1756' FSL, 1442' FEL - Section 25, ~~SW~~, NW

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

5. Lease Designation & Serial #:

SF-079010

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.# 491

9. API Well No.:

30-039-24659

10. Field & Pool/Expltry Area:

Basin Fruitland Coal

11. County or Parish, State:

Rio Arriba, New Mexico

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

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

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 tight open hole "stress relieve" type coal operation.

RECEIVED
SEP 13 1990
OIL CON. DIV.
DIST. 3

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

Signed: ROY W. WILLIAMS

ROY W. WILLIAMS

Title: ADMINISTRATIVE MANAGER

Date: 8/20/90

(This space for Federal or State office use)

Approved By _____ Title _____ Date _____
Conditions of approval, if any:

BLACKWOOD & NICHOLS CO., LTD.

P.O. BOX 1237

DURANGO, COLORADO 81302-1237

(303) 247-0728

Completion Report

Northeast Blanco Unit No. 491 - Basin Fruitland Coal

LOCATION: 1756' FSL, 1442' FEL
Section 25, T31N, R7W
Rio Arriba County, New Mexico

4-24-90 Picking up drill collars from basket.

Move in and rig up Big "A" Rig No. 25, 4-23-90.

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4-25-90 7" casing at 2887'; open hole 2887-3032'.

Drilling Fruitland coal at 3032'; 10' flare.

Pick up eleven 4-3/4" drill collars and 90 jts 3-1/2" drill pipe, strap and tally. Test blind rams and casing to 2000 psi, held OK.

RIH with 6-1/4" Smith FDT SN# KM6774 (jets: 24-24-24) with float 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, F nipple (2.25" ID), 1 safety sub (333.50' length) and 80 jts 3-1/2" drill pipe. Install wear ring in tubing head, cut drill line, pick up swivel.

Pressure test 3-1/2" pipe rams to 2000 psi for 30 minutes - held OK.

Drill cement, plug at 2839', float at 2842'. Drill cement to shoe at 2887', rig up mud loggers.

Drill Fruitland coal 2887-3032' with 8000# WOB, 100 RPM, and 600 psi with 5 BPM water.

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LOCATION: 1756' FSL, 1442' FEL
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4-26-90 7" casing at 2887'; open hole 2887-3190'.

Working pipe at TD with 3 BPM water. Through 1 blooie line, 20' flare.

Drill Fruitland coal and circulate samples. TD hole at 3190', 8000# WOB, 100 RPM, 1600 psi @ 7.5 BPM water.

Work pipe at TD with 7.5 BPM water.

Lay down 1 jt drill pipe, work pipe from 3175' with 6 BPM water lowering pump rate by 1/2 Bbl every 3 hours. Returns light coal flakes and coal dust (100%) in clear water.

Coal Intervals:	2910-2912'	2'
	2915-2916'	1'
	2959-2962'	3'
	2990-2994'	4'
	3043-3056'	13'
	3063-3064'	1'
	3065-3072'	7'
	3082-3083'	<u>1'</u>
	Total Coal	32'

TD - 3190'
PC Tongue - 3085'
Main PC - 3188'

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LOCATION: 1756' FSL, 1442' FEL
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4-27-90 7" casing at 2887'; open hole 2887-3190'.

Working pipe at TD with 2 MM air and 5 Bbl water sweeps every 1/2 hr.

Work pipe at TD with 1.5 BPM water, decreasing pump rate 1/2 BPM every 3 hours. Returns light coal and coal dust (100%) in clear water.

Work pipe at TD with 1 MM air and 5 BPM water, decreasing pump rate 1/2 BPM every hour. Returns light coal and dust (90%), shale in clear water. Stand pipe pressure 550 psi decreasing to 350 psi.

Work pipe at TD with 2 MM air and 5 BPM water, decreasing pump rate 1/2 BPM per hour. Returns same as above.

Work pipe at TD with 2 MM air and 5 Bbl water sweeps every 1/2 hr. Returns light coal, 1/4" and less, moderate coal dust, small amount of large brown shale in black water on sweeps.

Estimated 300 MCFD.

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LOCATION: 1756' FSL, 1442' FEL
Section 25, T31N, R7W
Rio Arriba County, New Mexico

4-28-90 7" casing at 2887'; open hole 2887-3190'.

Running sweep, preparing to pull into 7" casing.

Work pipe at 3175' with 2 MM air and various sweeps ranging from 5 to 15 Bbls water per hour. Returns light to moderate coal and coal dust (90%) with shale and black water on sweeps, then small amounts of black water.

Bucket test - 131 BPD water.

Lay down 10 jts drill pipe, bit at 2834'. Run 1 hr pitot test and shut in test. Pitot test #1, 2" line: 1/4 hr - 19 oz., 667 MCFD; 1/2 hr - 17 oz., 628 MCFD; 3/4 hr - 16 oz., 615 MCFD; 1 hr - 15 oz., 600 MCFD (all gauges dry).

Shut in test #1: 1/4 hr - 190 psi; 1/2 hr - 340; 3/4 hr - 470; 1 hr - 585 psi.

Surge well through 1 blooie line @ 600 psi. RIH, had 35' of fill including 15' of hole from bottom of bit to TD.

Clean out to TD, lay down 1 jt drill pipe.

Work pipe at 3175' with 2 MM air and 5 to 15 Bbl sweeps per hour. Returns moderate to light coal and coal dust (90%) and shale on sweeps, 3/8" coal and less with some 1-1/2" pieces.

4-29-90 7" casing at 2887'; open hole 2887-3190'.

Running pitot test #4.

Lay down 10 jts drill pipe. Run 1 hr pitot test and shut in test. Pitot test #2: 1/4 hr - 19 oz., 667 MCFD; 1/2 hr - 20 oz., 687 MCFD; 3/4 hr - 18 oz., 646 MCFD; 1 hr - 17 oz., 628 MCFD (all gauges dry).

(Cont'd)

4-29-90 Shut in test: 1/4 hr - 140 psi; 1/2 hr - 290; 3/4 hr - 510; 1 hr - 690; 1-1/4 hrs - 800; 1-1/2 hrs - 880 psi.

Surge well with 880 psi through 1 blooie line. RIH to TD, had 1' fill.

Work pipe at 3175' with 2 MM air and various sweeps from 5 to 15 Bbls water per hour. Returns moderate to light coal and coal dust (90%) and shale in black water on sweeps.

Lay down 10 jts drill pipe. Run 1 hr pitot test and 2 hr shut in test. Pitot test #3: 1/4 hr - 20 oz., 687 MCFD; 1/2 hr - 19 oz., 667 MCFD; 3/4 hr - 18 oz., 646 MCFD; 1 hr - 17 oz., 628 MCFD (all gauges dry).

Shut in test: 1/4 hr - 225 psi; 1/2 hr - 400; 3/4 hr - 550; 1 hr - 700; 1-1/4 hrs - 800; 1-1/2 hrs - 880 psi; 1-3/4 hrs - 950 psi; 2 hrs - 1000 psi.

Surge well with 1000 psi through 2 blooie lines. RIH, had 5' fill.

Clean out to TD.

Work pipe at 3175' with 2 MM air and various sweeps from 5 to 15 Bbls water per hour. Returns moderate to light coal and coal dust, some large 1 to 1-1/2" coal.

Run 15 Bbl water sweep. Lay down 10 jts drill pipe.

4-30-90 7" casing at 2887'; open hole 2887-3190'.

Working pipe at TD.

Run 1 hr pitot test and 2 hr shut in test. Pitot Test #4 on 2" line: 1/4, 1/2, and 3/4 hr - 19 oz., 667 MCFD; 1 hr - 18 oz., 646 MCFD (all gauges dry).

Shut in test: 1/4 hr - 275 psi; 1/2 hr - 370; 3/4 hr - 525; 1 hr - 660; 1-1/4 hrs - 810; 1-1/2 hrs - 880 psi; 1-3/4 hrs - 945 psi; 2 hrs - 1000 psi.

RIH to TD, had 7' fill.

(Cont'd)

4-30-90 Work pipe at 3175' with 2 MM air and 5 to 15 Bbl water sweeps per hour. Returns light 1/8" and smaller coal with occasional 1 to 1-1/2" pieces of coal.

Short trip to 7" to flow test well. Pitot test #5 through 2": 1/4 hr - 18 oz., 646 MCFD; 1/2 and 3/4 hr - 16 oz., 615 MCFD; 1 hr - 15 oz., 600 MCFD (all gauges dry).

Shut in test: 1/4 hr - 200 psi; 1/2 hr - 375; 3/4 hr - 500; 1 hr - 650; 1-1/4 hrs - 775; 1-1/2 hrs - 875 psi; 1-3/4 hrs - 920 psi; 2 hrs - 1000 psi.

Surge well. TIH, had 5' fill.

Work pipe at 3175' with 2 MM air and 5 Bbl water sweeps every hour. Returns light 1/8" and less coal on sweeps.

Shut in well, build pressure to 1000 psi, surge well.

TIH, had 1' fill.

Work pipe at 3175' with 2 MM air and 5 Bbl water sweeps. Returns very light 1/8" and less coal in clear water.

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Section 25, T31N, R7W
Rio Arriba County, New Mexico

5-01-90 7" casing at 2887'; open hole 2887-3190'.

Waiting on trucks to move rig.

Work pipe at TD with 2 MM air and 5 Bbl water sweeps hourly. Returns very light 1/8" and less coal on sweeps.

Lay down 3-1/2" drill pipe and 4-3/4" drill collars.

Tally and rabbit 2-3/8" tubing.

Pick up expendable check, 1 jt tubing, F nipple (1.81" ID), TIH with 2-3/8" tubing.

Run 87 jts (2858.14') 2-3/8" 4.7# J-55 FBN TRI tubing, set at 2872' with F nipple at 2828'.

Nipple down BOPs, nipple up tree, pump off expendable check, test well: 1/4 and 1/2 hr - 16 oz., 615 MCFD; 3/4 hr - 15 oz., 600 MCFD; 1 hr - 14 oz., 582 MCFD (all gauges dry).

Water bucket test - 140 BPD.

Rig down to move.

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5-02-90 Rig released at 6:00 a.m., 5-01-90.