

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., 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)

1840' FSL - 1015' FWL, Section 35, T31N, R7W

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

5. Lease Designation & Serial #:

SF-079003

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.# 487

9. API Well No.:

30-045-27723

10. Field & Pool/Expltry Area:

Basin Fruitland Coal

11. County or Parish, State:

San Juan, New Mexico

12. CHECK APPROPRIATE BOX(S) 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

OCT 1 1990

OIL CON. DIV.

DIST. 3

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

Signed: ROY W. WILLIAMS

Title: ADMINISTRATIVE MANAGER Date: 9/17/90

ACCEPTED FOR RECORD

(This space for Federal or State office use)

SEP 24 1990

Approved By _____
Conditions of approval, if any:

Title _____ FARMING-RESOURCE AREA

BY 28

BLACKWOOD & NICHOLS CO., LTD.

P.O. BOX 1237

DURANGO, COLORADO 81302-1237

(303) 247-0728

Completion Report

Northeast Blanco Unit No. 487 - Basin Fruitland Coal

Location: 1840' FSL, 1015' FWL
Section 35, T31N, R7W
San Juan County, New Mexico

8-12-90 Finish pipe inspection.

Wait on daylight to move.

Move in and rig up, inspect pipe. Nipple up BOP, lay
blooie lines.

8-13-90 Drill cement at 2737'.

Finish rigging up - change rams.

Test blind rams, 7" casing, repair leaks, held 2000 psi
for 15 minutes.

Rig down light plant. Strap drill collars and drill
pipe. Change out light plant.

Pick up new 6-1/4" Smith FDTL SN# TA 2356, float sub, 1
4-3/4" drill collar, N nipple (1.871" ID), 9 drill
collars, 1 jt drill pipe, 1 F nipple (2.25" ID), stop
sub, OAL 307.79' and 76 jts 3-1/2" drill pipe. Tag
cement at 2696'.

Pick up swivel, pressure test pipe rams to 2000 psi -
held OK.

Drill cement plug, insert float and cement to 2737'.

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8-14-90 7" casing at 2740'; open hole 2740-3039'.

Circulating and working pipe at TD with 5-1/2 BPM water.

Drill cement and 7" shoe to 2740'.

Drill Fruitland coal 2740-3039' with 8000# WOB, 100 RPM,
and 7 BPM water @ 1200 psi.

Circulate and work pipe at TD with 7 BPM water.

Circulate and work pipe at TD with 7 BPM decreasing to
5-1/2 BPM water, reduce pump rate 1/2 BPM each 1/2 hour.
Returns light to moderate floating coal dust, 30-40'
flare through one blooie line.

Coal Intervals:	2775-2776'	1'
	2779-2780'	1'
	2785-2786'	1'
	2798-2800'	2'
	2826-2828'	2'
	2834-2836'	2'
	2853-2854'	1'
	2858-2863'	5'
	2879-2884'	5'
	2888-2915'	27'
	2931-2932'	1'
	2934-2937'	3'
	2939-2940'	1'
	3006-3008'	2'
	3017-3021'	4'
	3023-3037'	<u>14'</u>

Total 72'

P. C. Tongue -	2977'
Top Main P. C. -	3037'
Total Depth -	3039'

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**LOCATION: 1840' FSL, 1015' FWL
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8-15-90 7" casing at 2740'; open hole 2740-3039'.

Circulating and working pipe at TD; preparing to put 1 compressor on hole with 5 BPM water.

Circulate and work pipe at TD with 5-1/2 BPM water, reducing pump rate 1/2 Bbl every 2 hours. Returns heavy to light 1/2" and less coal (95%), with shale up to 1/2" in size, some floating coal dust in clear water.

Started getting heavy coal returns, ran four 5 Bbl water sweeps, cleaned wellbore up, no torque or drag. Opened second blooie line, had two 40' flares with 1/2 BPM circulating rate.

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8-16-90 7" casing at 2740'; open hole 2740-3039'.

Circulating and working pipe at TD with .7 MM air and 5 BPM water.

Circulate and work pipe at TD with .7 MM air and 5 BPM water. Returns moderate 1/2" and less coal (95%) in clear water.

Circulate and work pipe at TD with .7 MM air and 5 BPM water, reducing pump rate 1/2 Bbl every 2 hours. Returns moderate (increasing to heavy as water rate decreased) 1/2" and less coal and shale; fine floating coal increased to heavy when water rate got down to 1 BPM. Well sloughed at 7:00 p.m., 10:00 p.m., and 5:00 a.m. Hole sticky, unloaded heavy coal in black viscous water. gas increasing each time well sloughed, increase water to 5 BPM each time hole sloughed, reduce water rate to 1 BPM after well cleaned up.

Estimate 6 MMCFD gas.

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8-17-90 7" casing at 2740'; open hole 2740-3039'.

Circulating and working pipe at TD with .7 MM air and 5 BPM water.

Circulate and work pipe at TD with .7 MM air and 5 BPM water reducing pump rate 1 Bbl per hour. Returns moderate 1/4" and less coal (95%) in gray water.

Well heaved, sticky. Stuck at 9:00 and 11:00 a.m., 2:00, 6:00, and 9:00 p.m., and 12:00, 2:00, and 5:00 a.m. Stuck when pump rate is down 1-2 BPM. Kick pump rate up to 5 BPM - well unloads, usually in 15 to 30 minutes, heavy 1/2" and less coal (95%) with shale in black viscous water with floating coal fines. Then pipe free, no torque, no drag with moderate to light coal in gray water until water rate below 2-3 BPM, stuck again.

Gas increasing, estimated at 7 MMCFD; water estimated at 800 BPD. 50' flare through both blooie lines.

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8-18-90 7" casing at 2740'; open hole 2740-3039'.

Circulating and working pipe at TD with 1.4 MM air and 1/2 BPM water with 5 to 20 Bbl water sweeps each hour.

Circulate and work pipe at TD with .7 MM air and 5 BPM decreasing to 1/2 BPM water. Returns moderate 1/4" and less coal (95%), shale and siltstone in black water with floating coal dust. Pipe sticky at 8:00 a.m. and 2:00 p.m.; hole unloaded heavy coal and coal dust in black viscous water.

Circulate and work pipe at TD with .7 MM air and 1/2 BPM water with 5 to 20 Bbl water sweeps every hour. Returns moderate 1/4" and less coal (95%), in black water; on sweeps had heavy 1/2" and less coal in black viscous water with floating coal dust.

Circulate and work pipe at TD with 1.4 MM air and 1/2 BPM water with 5 to 20 Bbl water sweeps. Returns same as above.

8-19-90 7" casing at 2740'; open hole 2740-3039'.

Circulating and working pipe at TD with 1.4 MM air and 1/2 BPM water with hourly sweeps.

Circulate and work pipe at TD with 1.4 MM air and 1/2 BPM water with 5 to 20 Bbl water sweeps every hour. Returns moderate coal 1/4" and less in clear water; moderate to heavy coal returns on sweeps in black viscous water with floating coal dust.

Pull into 7" casing for pitot test #1, bit at 2732' (first two gauges with 2" pitot; second two with 2-1/2" pitot):
1/4 hr - 120 psi, 11811 MCFD; 1/2 hr - 125 psi, 12258;
3/4 hr - 80 psi, 12266; 1 hr - 82 psi, 12533 MCFD (all gauges wet).

(Cont'd)

8-19-90 Shut in test #1: 1/4 hr - 880 psi; 1/2 hr - 1040; 3/4 hr - 1100; 1 hr - 1150 psi. Bleed well down through manifold and blooie lines to 40 psi. RIH, hit bridge at 2915', 3' fill at TD.

Circulate and work pipe at TD with 1.4 MM air and 1/2 BPM water with 5 to 20 Bbl water sweeps each hour. Returns moderate 1/4" and less coal in clear water; moderate to heavy returns on sweeps in black viscous water with floating coal dust.

Water production - 790 BPD.

8-20-90 7" casing at 2740'; open hole 2740-3039'.

Circulating and working pipe at TD with 1.4 MM air and 1/2 BPM water with hourly sweeps.

Circulate and work pipe at TD with 1.4 MM air and 1/4 BPM water with 5 to 20 Bbl water sweeps every hour. Returns moderate to light 1/4" and less coal (95%) with light floating coal dust; heavy coal fines in black viscous water on sweeps.

Pull into 7" casing for pitot test #2: 1/4 hr - 130 psi, 12706 MCFD; 1/2 and 3/4 hr - 125 psi, 12258; 1 hr - 130 psi, 12706 MCFD (all gauges mist).

Bleed well down slowly. TIH, had 4' fill. Cleaned up with air and water.

Circulate and work pipe at TD with 1.4 MM air and 1/2 BPM water with 5 to 20 Bbl water sweeps every hour. Returns moderate to light 1/4" and less in gray water with light floating coal dust; on sweeps heavy coal fines in black viscous water. Hole fell in at 1:00 a.m., cleaned up with water sweeps. Returns heavy coal fines in black viscous water. No torque, no drag.

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8-21-90 7" casing at 2740'; open hole 2740-3039'.

Changing rams and slips. Rigging up to run 5-1/2" liner.

Circulate and work pipe from TD with 1.4 MM increasing to 2 MM air and 1/2 BPM water with 5 to 20 Bbl water sweeps each hour. Returns light 1/4" and less coal (95%) with shale and siltstone in gray water; on sweeps, moderate coal fines with floating coal dust.

Kill well with water. Blow pipe dry. Hang swivel. POOH with 11 jts drill pipe and hang drill pipe in Cameron BOPs.

Rig down stripping head and rig up snubbing equipment.

Strip and strap drill pipe out of hole and snub out drill collars and lay down same.

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8-22-90 7" casing at 2740'; open hole 2740-3039'.

Waiting on daylight to snub in liner hanger.

Make up V-set shoe and RIH with 9 jts 5-1/2" 8rd LT&C casing on Baker hydraulic hanger. Snub liner and hanger and drill pipe, hit bridge at 2915'. Circulate and rotate through 4' bridge, then RIH to TD, clean out 3' fill. Attempt to set hydraulic liner hanger, hanger would not set.

Strip and snub out to top of liner hanger.

Snub out liner hanger and release pressure under hanger. Break out hanger and lay down. Make up mechanical set hanger on 1 jt drill pipe.

Wait on daylight.

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8-23-90 7" casing at 2740'; open hole 2740-3039'.

Milling plugs.

Pick up 5-1/2" Brown mechanical set hanger, make up on liner. Snub in hole. TIH with 3-1/2" drill pipe.

Rig down snubbing equipment.

Strip in hole with 5-1/2" liner on 3-1/2" drill pipe, pick up swivel, circulate 125' to bottom.

Set 5-1/2" liner. Bleed pressure off backside - good pack-off.

Lay down 2 jts 3-1/2" drill pipe. Rig down Cudd. Nipple down stripping stack, lay down 3-1/2" drill pipe.

Change rams. Rabbit tubing. Pick up 2-7/8" tubing. TIH with expendable check, mill on bottom, F nipple (2.25" ID) 1 jt off bottom.

Mill on plugs.

Liner detail: 9 jts 5-1/2" 23# L-80 USS with Baker V-shoe left-hand set hanger set at 3037'; top of liner 2630.34'; overlap 109.66. Overall length = 406.66'.

Perforations: 2729.94-2948.49' and 2995.77-3034'.

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8-24-90 7" casing set at 2740'; 5-1/2" liner 2630-3037'.

Rig released.

Mill on plugs; clean out to 3037'.

Land tubing.

Nipple down BOPs and blooie lines, nipple up upper tree;
pump off expendable check.

Final gauges: 12,700 MCFD through 2" pitot
8,548 MCFD through 3/4" choke
800 BPD water

Rig down. Release rig at 12:01 a.m., 8-24-90. Wait on
daylight to move.

Ran 94 jts (2917.84') 2-7/8" 6.5# J-55 EUE 8rd FBNAU USS
tubing, set at 2931.84' with F nipple (2.25" ID) at
2902.01'.