

**UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT**

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

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)

890' FSL, 790' FWL - Section 15, T31N, R7W

5. Lease Designation & Serial #:
NM-03356

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.# 482

9. API Well No.:
30-045-27582

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 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: *R.W. Williams* **ROY W. WILLIAMS** Title: **ADMINISTRATIVE MANAGER** Date: 8/16/90

(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. 482 - Basin Fruitland Coal

LOCATION: 890' FSL, 790' FWL
Section 15, T31N, R7W,
San Juan County, New Mexico

4-11-90 7" casing at 3117'.

Picking up drill pipe, putting on racks and tallying.

Move in and rig up Big "A" Well Service Rig No. 23. Test blind rams and 7" casing to 2000 psi for 15 minutes - held OK. Test inside and outside casing valves - held OK.

Pick up drill pipe and drill collars from basket, put on pipe racks and tally.

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LOCATION: 890' FSL, 790' FWL
Section 15, T31N, R7W,
San Juan County, New Mexico

4-12-90 7" casing at 3117'.

Working pipe at TD with 7 BPM water @ 250 psi.

Pick up Smith 6-1/4" FDT SN# KM6732, 4-3/4" bottom hole drill collar with float, F nipple (1.87" ID), ten drill collars, 1 jt drill pipe, and F nipple (2.25" ID) - total 359.72'.

Pick up 3-1/2" drill pipe, tag cement at 3048', test 3-1/2" rams and manifold valves to 1500 psi for 15 minutes - held OK.

Pick up power swivel, break circulation. Drill cement at 3048-3116', insert float at 3071', shoe at 3116'.

Drill Fruitland formation with 8000# WOB @ 60 RPM with 7 BPM water. Open hole 3116-3422'. Circulate hole with 7 BPM water at 650 psi. Work pipe 3422-3388', returns clear water with light 1/16" coal. Total coal 42'.

Coal Intervals:	3123-3124'	1'	
	3141-3152'	11'	
	3221-3222'	1'	
	3234-3235'	1'	
	3237-3238'	1'	
	3247-3260'	13'	
	3267-3269'	2'	
	3282-3290'	8'	
	3292-3293'	1'	
	3300-3301'	1'	
	3305-3306'	1'	
	3398-3399'	1'	Basal
	Total Coal	42'	

TD - 3422'

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LOCATION: 890' FSL, 790' FWL
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4-13-90 7" casing at 3117'; open hole 3117-3422'.

Working pipe at TD, blowing open hole with air and 7 BPM water @ 650 psi.

Work pipe at TD with 7 BPM water @ 650 psi.

Work pipe at TD with 4.5 BPM water @ 550 psi; returns moderate to light 1/4" to 1/16" coal (99%), shale and siltstone in clear water.

Work pipe at TD with 3 BPM water @ 50 psi; returns moderate to light 1/4" to 1/16" coal (98%), shale and siltstone in clear water.

Work pipe at TD with 2 BPM water @ 0 psi; returns moderate 1/4" to 1/16" coal (98%), shale and siltstone in clear water.

Work pipe at TD with 1 MM air and 4 BPM water @ 300 psi; returns moderate 1/4" coal (98%), shale and siltstone in clear water.

Estimated gas - 2000 MCFD.

4-14-90 7" casing at 3117'; open hole 3117-3422'.

Working pipe at TD with 1 MM air and 4 BPM water; returns moderate to light 1/4" to 1/16" coal in clear water.

Work pipe at TD with .85 MM air and 2 BPM water @ 300 psi; returns light 1/4" coal (60%), shale and siltstone in clear water.

Work pipe at TD with .85 MM air and 2 BPM water @ 300 psi, returns light 1/4" coal (60%), shale and siltstone in clear water.

(Cont'd)

4-14-90

Lost circulation at TD, pipe stuck, pressure up on bottom with water, pressure up on back side with air, pipe came free, bled back side down to 200 psi, open bleed line, circulating with 7 BPM water, returns heavy 1-1/2" to 1-3/4" coal in black water.

Work pipe at TD with 7 BPM water @ 600 psi; returns moderate 1-3/4" to 1/2" coal (98%), shale and siltstone in clear water.

Work pipe at TD with 5 BPM decreasing to 2 BPM water @ 550 decreasing to 0 psi; returns heavy 1/16" to 1/4" coal (95%), shale and siltstone.

Work pipe at TD with .85 MM air and 4 BPM water @ 300 psi; returns heavy to moderate 1/4" to 1/16" coal (95%), shale and siltstone.

Estimated gas - 2500 MCFD.

4-15-90

7" casing at 3117'; open hole 3117-3422'.

Work pipe at TD with 2.5 MM air and 5 BPM water @ 750 psi; moderate to heavy coal, hole sticky and tight.

Work pipe at TD with 1 MM air and 4 BPM water @ 300 psi; returns light 1/8" to 1/16" coal (98%), shale and siltstone.

Work pipe at TD with 1 MM air and 2 BPM water @ 200 psi; returns light 1/16" coal (98%), shale and siltstone.

Work pipe at TD with 1 MM air and 10 Bbl water sweeps every 30 minutes; returns very light 1/16" coal (98%), shale and siltstone.

Hole sloughed, lost returns, shut well in; pressure built to 500 psi, shut air off. Pump 7 BPM water, circulate heavy coal out, bleed back side down to 50 psi, circulate hole with 7 BPM water; returns heavy with black water.

(Cont'd)

4-15-90 Work pipe at TD with 1.5 MM air and 7 BPM decreasing to 1 BPM water @ 350 psi; returns heavy coal and shale in black water.

Work pipe at TD with 1.75 MM air and 4 BPM water @ 300 psi; returns light 1/16" coal (98%), shale in clear water.

Work pipe at TD with 2.5 MM air and 5 BPM water @ 750 psi. Reduce water 10 strokes/hr, heaving coal, reduce air to 1.5 MM and 5 BPM water, hole stabilized; returns moderate to light 1/4" to 1/16" coal and shale.

Estimated gas - 3000 MCFD.

4-16-90 7" casing at 3117'; open hole 3117-3422'.

Working pipe at TD with 1 MM air and 2.5 BPM water; returns light 1/16" coal (99%), shale and siltstone, no hole problems.

Work pipe at TD with 2.5 MM air and 4.5 BPM water @ 750 psi; returns moderate to heavy 1/2" to 1/16" coal (95%), shale and siltstone, hole sloughing coal, hole sticky.

Work pipe at TD with 7 BPM water @ 300 psi; returns moderate to light 1/4" to 1/16" coal (95%), shale and siltstone in clear water.

Work pipe at TD with 1.5 MM air and 4 decreasing to 3 BPM water @ 400 psi; returns light 1/16" coal (98%), no hole problems.

Lay down 9 jts, pull into 7" casing. Pitot test through 2" line, all gauges wet: 1/4 hr - 29 psig, 3660 MCFD; 1/2 hr - 30 psig, 3750 MCFD; 3/4 hr - 35 psig; 4770 MCFD; 1 hr - 35, 4770 MCFD.

Shut in test: 1/4 hr - 630 psig; 1/2 hr - 930; 3/4 hr - 1050; 1 hr - 1090 psig.

Bucket test - 340 BPD water.

RIH, had 2' fill, started circulating with 7 BPM water, hole started sloughing heavy coal, tight and sticky;

(Cont'd)
4-16-90

returns heavy with black water. Pull and lay down 6 jts, work back to bottom, had 90' bridge, reached TD. Returns reduced to light, hole free.

Work pipe at TD with 1 MM air and 7 decreasing to 2.5 BPM water @ 300 psi; returns moderate to light 1/4" to 1/16" coal (99%), no torque, no drag, clear water.

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LOCATION: 890' FSL, 790' FWL
Section 15, T31N, R7W,
San Juan County, New Mexico

4-17-90 7" casing at 3117'; open hole 3117-3422'.

Washing to TD with 7 BPM water @ 350 psi.

Work pipe at TD with 1 MM air and 2.5 BPM water @ 300 psi; returns light 1/4" to 1/16" coal (90%), shale and siltstone in clear water.

Pull 9 jts to run flow test, 2" pitot (all gauges wet):
1/4 hr - 35 psi, 4205 MCFD; 1/2 hr - 4205; 3/4 hr - 37 psi, 4384 MCFD; 1 hr - 37 psi, 4384 MCFD.

Bucket test - 348 BPD water.

Wash to TD with 7 BPM water; returns heavy to moderate 1/2" to 1/16" coal (98%), shale and siltstone in black to gray water.

Work pipe at TD with 1 MM air and 5 decreasing to 2 BPM water @ 300 psi; returns light to heavy 1/8" to 1/16" coal (98%), shale and siltstone.

Work pipe at TD with 1 MM air, 5 Bbl water sweeps on the half hour; returns light to heavy 1/8" to 1/16" coal and dust (98%), shale and siltstone.

Hole became tight and sticky, pull 5 jts; circulate with 7 BPM water @ 400 psi; returns heavy 1-1/2" to 1/16" coal (98%), in black water.

Work pipe and circulate tight spot at 3267' with 7 BPM water @ 400 psi; returns heavy coal (99%), shale and siltstone, very tight and sticky.

Wash to TD with 7 BPM water @ 350 psi; returns heavy to moderate 1/4" to 1/16" coal (98%), shale and siltstone in black to gray water.

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Completion Report

Northeast Blanco Unit No. 482 - Basin Fruitland Coal

LOCATION: 890' FSL, 790' FWL
Section 15, T31N, R7W,
San Juan County, New Mexico

4-18-90 Work pipe at 3246 to 3277 with 6 BWPM.

Work pipe at TD with 7 BPM water @ 350 psi; returns light 1/4" to 1/16" coal (98%), shale and siltstone.

Work pipe at TD with 6 BPM water and 1 MM air. Returns light coal shale and siltstone.

Work pipe at TD with 1 MM air and 5 BPM water. Hole sticky. Light coal, shale and siltstone in return.

Work pipe at TD with 1 MM air and 6 BPM water.

Work pipe at TD with 2 MM air and 6 BPM water decreasing to 2 BPM water. Returns light 1/4" and less coal, shale and siltstone. Some samples were 20% shale.

Short trip 9 jts. of drill pipe.

TIH. Tag at 3269'.

Circulate and work pipe at 3270-3277'. High torque. High pump pressure. Returns light coal and shale.

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Completion Report

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LOCATION: 890' FSL, 790' FWL
Section 15, T31N, R7W,
San Juan County, New Mexico

4-19-90 Changing rams in BOP to snub drill collars out of hole.

Circulate and work pipe at 3246-3277' with 6 BPM water. Attempt to put one compressor on, no rotation, 12,000# drag, hole very sticky, took compressor off.

Work pipe to 3308' with 6 BPM water, stuck pipe, shut in. Build 250 psi on annulus, at 3270' pipe came free.

Circulate and work pipe from 3270' to TD with 6 BPM water with 300 psi back pressure; light coal in returns. Lay down 9 jts drill pipe, hang drill pipe on donut.

Nipple down stripper rubber, top BOP; nipple up Cameron BOP and Cudd snubbing unit.

Strip out of hole with 3-1/2" drill pipe. Change 3-1/2" rams to 4-3/4" rams.

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LOCATION: 890' FSL, 790' FWL
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4-20-90 POOH and laying down 3-1/2" drill pipe.

Rig up to lay down 4-3/4" drill collars. Lay down eleven 4-3/4" drill collars. Change ram and rig up to snub liner.

Pick up and snub 6-1/4" bit and crossover, 11 jts 5-1/2" 17# K-55 casing, and Brown 7" x 5-1/2" liner hanger. Change rams and snubbing equipment to 3-1/2". Snub 2 stands of 3-1/2" drill pipe in well.

Strip in hole with 3-1/2" drill pipe, tag at 3255'. Pick up swivel and circulate and rotate liner 3255-3422' (167'). Set liner hanger with bottom of line at 3422'.

Ran 11 jts (352.05') 5-1/2" 17# K-55 STC casing and Brown 7" x 5-1/2" liner hanger. Ran 3 half-perfed jts; 3 full-perfed jts; 1 half-blank jt; and 4 full blank jts. Total liner length 360.16'.

Liner Summary:	Perforations (4 HPF)
Shoe - 3422'	3419-3400'
Top of liner - 3061.84'	3324-3225'
Overlap - 55.16'	3186-3128'

Rig up to lay down 3-1/2" drill pipe. POOH and lay down 3-1/2" drill pipe.

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LOCATION: 890' FSL, 790' FWL
Section 15, T31N, R7W,
San Juan County, New Mexico

4-21-90 7" casing at 3117'; 5-1/2" liner 3061-3422'.

Nippling down BOPs.

POOH and lay down 3-1/2" drill pipe and two 4-3/4" drill collars. Rig up to run 4-3/4" plug mill on 2-3/8" tubing.

Pick up tubing, tag plugs at 3151' and pick up power swivel.

Drill on perf plugs. Well flowing gas and water. Clean out to 3419'. Strip tubing and mill out of hole and lay down 4 jts.

TIH with 2-3/8" expendable check valve, F nipple, 1 jt up and 100 jts (101 total) 2-3/8" tubing and land tubing at 3316'.

Nipple down BOPs and Cudd Pressure Control.

4-22-90 7" casing at 3117'; 5-1/2" liner 3061-3422'.

Blowing well to pit through 2" line. Rigging down and preparing to move to NEBU #470.

Nipple down BOP and load out Cudd equipment. Nipple up BOP. Pull tubing hanger (upside down), re-land tubing hanger. Nipple up upper tree.

Shut well in, rig down blooie lines and rig up and pump check.

NEBU #482 - Completion Report
April 23, 1990

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(Cont'd)
4-22-90

Pressure casing to 1200 psi with air. Well making 2" stream of water out tubing and no gas.

Well unloaded up tubing, blow with air 2 hours. Well making heavy mist. shut well in. Change out hose (leaking). Casing pressure 1280 psi.

Let well flow on 2" line, well kicking 2" stream of water and some gas. Well began unloading. Making gas with heavy mist. Pitot test well through 2": 1/4 hr - 30 psi, 3758 MCFD; 1/2 hr - 3758; 3/4 hr - 3758; 1 hr - 35 psi, 4116 MCFD.

Released rig at 6:00 a.m., 4-22-90.