

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)

1477' FNL, 793' FEL - Section 25, T31N, R7W

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.# 493

9. API Well No.:

30-039-24620

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	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> 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: 8/16/90

(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. 493 - Basin Fruitland Coal

LOCATION: 1477' FNL, 793' FEL
Section 25, T31N, R7W,
Rio Arriba County, New Mexico

5-13-90 Drilling cement at 2885'.

Move in and rig up Big "A" Rig No. 25. Wait on blade to cut part of bank away to fit air compressors. Pick up drill collars from basket, inspect collars and subs, had 4 bad collar connections. Pressure test blind rams, casing, and manifold to 2000 psi, held OK.

Pick up Smith 6-1/4" FDT bit SN# KM9752 (jets: 24-24-24), float sub, 1 drill collar, N nipple (1.875" ID), and 6 drill collars.

Wait on 4 drill collars from Land & Marine.

Pick up and strap 4 drill collars, 1 jt drill pipe, F nipple (2.25" ID), safety sub, bottomhole assembly (333.71'). RIH with 3-1/2" drill pipe. Tag cement at 2871'.

Test pipe rams and manifold to 2000 psi - held OK.

Clean out to 2879'. Drill plug and insert float @ 2880' and cement to 2885' with 15,000# WOB, 100 RPM @ 1200 psi with 6.5 BPM water.

5-14-90 7" casing at 2926'; open hole 2926-3208'.

Working pipe at TD.

Drill cement to 2926'.

Work on #1 pump.

Drill Fruitland coal with 8000# WOB, 100 RPM @ 100 psi with 6 BPM water. TD at 3208'.

(Cont'd)

5-14-90 Circulate and work pipe at TD with 6 BPM water, no flare.
Circulate and work pipe at TD with 5.5 BPM water, no
flare.

Coal Intervals:	2953-2960'	(7')
	2985-2987'	(2')
	2997-3003'	(6')
	3046-3049'	(3')
	3070-3074'	(4')
	3076-3077'	(1')
	3081-3083'	(2')
	3093-3103'	(10')
	3190-3191'	(1')
	3193-3195'	(2')
	3198-3205'	<u>(7')</u>

Total 45'

PC Tongue 3119'

Main PC 3206'

TD 3208' All coal very fine.

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Completion Report

Northeast Blanco Unit No. 493 - Basin Fruitland Coal

LOCATION: 1477' FNL, 793' FEL
Section 25, T31N, R7W,
Rio Arriba County, New Mexico

5-15-90 7" casing at 2926'; open hole 2926-3208'.

Working pipe at TD.

Work pipe at TD with 5.5 BPM decreasing to 2 BPM water; drop rate 1/2 Bbl every 2 hours. Returns light coal dust and small amount of gas burning inside muffler on one blooie line.

Work pipe at TD with 1 mm air and 5 BPM decreasing to 3.5 Bpm water; reduce pump rate 1/2 Bbl every 2 hours. Returns light coal 1/4" and less (95%), shale and coal dust in gray water; small amount of gas.

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LOCATION: 1477' FNL, 793' FEL
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5-16-90 7" casing at 2926'; open hole 2926-3208'.

Working pipe at TD with 2 MM air and 5 Bbl water sweeps each hour.

Work pipe at TD with 1 MM air and 3.5 BPM decreasing to 1/2 BPM water, decreasing rate 1/2 BPM every 2 hours. Returns moderate to light 1/4" and less coal (80%), shale and siltstone in brown and gray water, gas increasing.

Work pipe at TD with 2 MM air and 1/2 BPM water. Returns light 1/4" coal (80%), shale and siltstone in gray water.

Work pipe at TD with 2 MM air and 5 Bbl water sweeps every 15 minutes. Returns moderate to heavy 1/2" and less coal (80%), shale and siltstone in black water on sweeps.

Work pipe at TD with 2 MM air and 5 Bbl water sweeps every 30 minutes. Returns moderate to heavy 1/4" and less coal (80%), shale and siltstone in black water on sweeps.

Work pipe at Td with 2 MM air and 5 Bbl water sweeps every hour. Returns moderate to heavy 1/4" and less coal (90%) in black water.

Bucket test - 411 BPD water.

Estimate gas @ 1 MMCFD.

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LOCATION: 1477' FNL, 793' FEL
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5-17-90 7" casing at 2926'; open hole 2926-3208'.

Preparing to pull into 7" to gauge well.

Work pipe at TD with 2 MM air and 5 Bbl water sweeps every hour. Returns heavy to moderate 1/2" and less coal (90%), shale and siltstone in black water on sweeps.

Pull into 7" casing; bit at 2895'. Run 1 hour 2" pitot test and 1 hr shut in test. Pitot test: 1/4 hr - 23 oz., 745 MCFD; 1/2 hr - 18 oz., 646 MCFD; 3/4 hr - 15 oz., 600 MCFD; 1 hr - 12 oz., 539 MCFD (all gauges dry). Shut in test: 1/4 hr - 320 psi; 1/2 hr - 420; 3/4 hr - 510; 1 hr - 575 psi.

Bleed well down to 80 psi, open blooie lines. RIH, had 10' fill.

Work pipe at TD with 2 MM air, alternating 5 and 10 Bbl water sweeps every hour. Returns heavy to moderate 1/2" and less coal (90%), shale and siltstone in black water on sweeps. Last sweeps had light coal returns.

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Completion Report

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5-18-90 7" casing at 2926'; open hole 2926-3208'.

Pull into 7" casing. Pitot test well through 2" line:
initial - 28 oz., 801 MCFD; 1/4 hr - 16 oz., 615 MCFD;
1/2 hr - 13 oz., 565 MCFD; 3/4 hr - 11 oz., 514 MCFD;
1 hr - 9 oz., 464 MCFD (all gauges dry).

Shut in test: 1/4 hr - 50 psi; 1/2 hr - 200; 3/4 hr -
300; 1 hr - 500 psi.

Surge well @ 500 psi. TIH, clean out 8' fill to TD.

Work pipe at TD with 2 MM air alternating 5 and 10 Bbl
water sweeps per hour. Returns moderate 1/2" and less
coal (90%), shale and siltstone in clear water; between
sweeps, no coal.

Pull into 7" casing. Shut in well for 75 minutes -
pressure built to 675 psi.

Flow well back through variable choke holding 700 psi
down to 0 psi back pressure.

TIH, tag bridge at 3148' and 3' of fill to TD. Blow well
on bottom with 1.2 MM air and hourly 10 Bbl water sweeps.
Returns on sweeps, moderate to light 1/4" and less coal
(90%), shale and siltstone in black water.

Bucket test - 601 BPD water.

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5-19-90 7" casing at 2926'; open hole 2926-3208'.

Laying down 4-3/4" drill collars.

Work and rotate pipe 3208-3168'±. Blow well with 1.2 MM air and no water. Returns black water.

Pull into 7" casing. Pitot test #2 well through 2" line: instant - 27 oz., 799 MCFD; 1/4 hr - 15 oz., 600; 1/2 hr - 10 oz., 492; 3/4 hr - 9 oz., 464; 1 hr - 8 oz., 434 MCFD.

TIH. Clean out 12' of fill to TD. Work and rotate pipe 3208-3168'±. Blow well with 1.2 MM air and no water with hourly 15 Bbl water sweeps. Returns between sweeps: very light 1/16" and less coal (100%). Returns on sweeps: moderate to light 1/2" and less coal (98%), shale and siltstone in black decreasing to clear water.

Hang back power swivel and lay down 3-1/2' drill pipe and 4-3/4" drill collars.

5-20-90 7" casing at 2926'; open hole 2926-3208'; 2-7/8" tubing set at 2920'.

Rigging down.

Lay down 4-3/4" drill collars.

Change over to pick up and run 2-7/8" tubing.

Pick up expendable check valve, 1 jt of 2-7/8" tubing, F nipple, and 93 jts 2-7/8" tubing. Land 2-7/8" tubing.

Nipple down BOPs and nipple up upper tree.

(Cont'd)

5-20-90 Drop ball, pump off expendable check valve with air and unload well. Change over and pump down casing and up tubing, out 2" line to pit.

Pitot test well through 2" line: initial - 8 psi, 1756 MCFD (very wet); 1/4 hr - TSTM; 1/2 hr - TSTM; 3/4 hr - 0.5 oz., 112 MCFD (dry); 1 hr - 15 oz., 600 MCFD (wet).

Rig down. Released rig at 8:00 a.m., 5-20-90.

Tubing summary: run 94 jts (2906.28') of 2-7/8" 6.5# J-55 8rd EUE FBNAU USS tubing. Set at 2920' with a Baker expendable check valve on bottom. A Baker F nipple (2.25" ID) was run 1 jt off bottom, set at 2887'.

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