

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)

860' FNL, 1845' FEL, Section 34, T31N, R7W

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.# 466

9. API Well No.:

30-045-27721

10. Field & Pool/Explry 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: R. W. Williams ROY W. WILLIAMS Title: ADMINISTRATIVE MANAGER Date: 9/17/90

(This space for Federal or State office use)

ACCEPTED FOR RECORD

Approved By \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_ SEP 24 1990

FARMINGTON RESOURCE AREA

BY RET

BLACKWOOD & NICHOLS CO., LTD.

P.O. BOX 1237

DURANGO, COLORADO 81302-1237

(303) 247-0728

Completion Report

Northeast Blanco Unit No. 466 - Basin Fruitland Coal

LOCATION: 860' FNL, 1845' FEL  
Section 34, T31N, R7W  
San Juan County, New Mexico

8-25-90 7" casing at 2799'.

Drill cement and float.

Move rig and rig up.

Nipple up BOP's. Manifold and blooie lines.

Pressure test 7" casing. Blind rams, manifold valves to 2000 psi, held ok.

Pick up 6 1/4" Smith FDT SN# KP5111, bit sub, 4-3/4" drill collar, N nipple (1.875" ID), 10 4-3/4" drill collars, 1 jt drill pipe, F nipple (2.25" ID) (overall length 337.71') and 86 jts 3-1/2" drill pipe. Tag cement 2744'.

Pressure test 3-1/2" rams and HCR valves to 2000 psi, held ok.

8-26-90 7" casing at 2795'; open hole to 3197'.

Circulate and work pipe at TD.

Drill cement and shoe at 2795'.

Drill Fruitland coal 2795' to 3197' with 7 BPM water, 10,000# WOB, 100 RPM, 1200 psi.

Circulate and work pipe at TD with 7 BPM water. Returns 1/8" and smaller coal in clear water. 15' flare through two blooie lines.

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Section 34, T31N, R7W  
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(cont'd)

8-26-90 7" casing at 2795'; open hole to 3197'.

Coal intervals:

2890-92'	(2)
2898-99'	(1)
2914-15'	(1)
2928-29'	(1)
3026-34'	(8)
3036-37'	(1)
3039-44'	(5)
3045-63'	(18)
3093-04'	(11)
3105-07'	(2)
3126-27'	(1)
3173-76'	(3)
3179-94'	<u>(15)</u>
	69

Top of PC Tongue	3142'
Main PC	3194'
Total Depth	3197'

8-27-90 Circulate and work pipe at TD with .7 MM air and 7 BPM water.

Circulate and work pipe at TD with 7 BPM water. Decreasing pump rate 1/2 BPM water every 2 hrs. Returns light coal 1/2" and less with splintered shale in clear water. Pump rate down to 1 BPM water.

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San Juan County, New Mexico

(cont'd)

8-27-90 7" casing at 2795'; open hole to 3197'.

Circulate and work pipe at TD. Increase pump rate to 5 BPM water. Cleaned hole. Returns some as above except moderate coal. Put one compressor on hole at 6 A.M.

30 to 40 foot flare from both blooie lines.

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LOCATION: 860' FNL, 1845' FEL  
Section 34, T31N, R7W  
San Juan County, New Mexico

8-28-90      Circulating and working pipe at TD with 1.4 MM air and 5 BPM 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 to light 3/8" and less coal, shale and siltstone in clear water. Reduced pump rate to 1/2 BPM.

Circulate and work pipe with 1.4 MM air and 5 BPM water, reducing pump rate 1/2 Bbl every 2 hours. Returns same as above.

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Completion Report

Northeast Blanco Unit No. 466 - Basin Fruitland Coal

LOCATION: 860' FNL, 1845' FEL  
Section 34, T31N, R7W  
San Juan County, New Mexico

8-29-90 Circulating and working pipe at TD with 1.4 MM air and 1/2 BPM water with hourly water sweeps.

Circulate and work pipe at TD with 1.4 MM air and 5 BPM water reducing pump rate 1/2 Bbl per hour. Returns light 1/8" and less coal in clear water.

Circulate and work pipe at TD with 1.4 MM air and 1/2 BPM water, alternating 5 and 20 Bbl water sweeps per hour. Returns moderate to heavy coal (98%), shale and siltstone in black water on sweeps; light coal in clear water between sweeps. Hole unloaded heavy coal fines at 1:00, 4:00, and 11:00 p.m., and 4:00 and 5:00 a.m.

Estimate 6 MMCFD.

Estimate 600-800 BPD water.

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Northeast Blanco Unit No. 466 - Basin Fruitland Coal

LOCATION: 860' FNL, 1845' FEL  
Section 34, T31N, R7W  
San Juan County, New Mexico

8-30-90 Circulating and working pipe at TD with 1.4 MM air and 1/2 BPM water alternating 5 to 20 Bbl water sweeps every hour.

Circulate and work pipe at TD with 1.4 MM air and 1/2 BPM water alternating 5 to 20 Bbl water sweeps every hour. Returns moderate to light 1/8" and less coal with shale and siltstone in clear water.

Pull into 7" casing for pitot test #1 through 2" line:  
1/4 hr - 84 psi, 8590 MCFD; 1/2 hr - 120 psi, 11811; 3/4  
and 1 hr - 125 psi, 12258 MCFD (all gauges wet).

Run shut-in test: 1/4 hr - 1000 psi; 1/2 hr - 1100; 3/4  
hr - 1200; 1 hr - 1300 psi. Bleed well down slowly.  
RIH, no fill.

Circulate and work pipe at TD with 1.4 MM air and 5 to 20 Bbl water sweeps each hour. Returns heavy to light 1/8" and less coal (95%), shale and siltstone in black to clear water.

Bucket test - 1400 BPD water.

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LOCATION: 860' FNL, 1845' FEL  
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8-31-90 Circulating and working pipe at TD with 2.0 MM air and 1/2 BPM water with 10 Bbl water sweeps hourly.

Circulate and work pipe at TD with 1.4 MM air and 1/2 BPM water alternating 5 to 20 Bbl water sweeps hourly. Returns light 1/8" and less coal (95%) in clear water.

Pull into 7" casing for pitot test #2: 1/4 hr - 120 psi, 11811 MCFD; 1/2 hr - 130 psi, 12706; 3/4 hr - 135 psi, 13004; 1 hr - 140 psi, 13601 MCFD (all gauges wet).

Run shut-in test: 1/4 hr - 1025 psi; 1/2 and 3/4 hr - 1150; 1 hr - 1175 psi. Bleed well down slowly. TIH, had 1' fill.

Circulate and work pipe at TD with 1.4 MM air and 1/2 BPM water, alternating 5 to 20 Bbl water sweeps per hour. Returns heavy coal fines in black viscous water.

Circulate and work pipe at TD with 2.0 MM air and 1-1/2 BPM water with 10 Bbl water sweeps hourly. Returns moderate to light 1/8" and less coal in clear water.



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Northeast Blanco Unit No. 466 - Basin Fruitland Coal

LOCATION: 860' FNL, 1845' FEL  
Section 34, T31N, R7W  
San Juan County, New Mexico

9-01-90 7" casing at 2795'; open hole 2795-3197'.

Circulating and working pipe at TD with 4.0 MM air and 1/2 BPM water. Returns light 1/16" and smaller coal in clear water.

Circulate and work pipe at TD with 2.1 MM air and 1-1/2 BPM water with 10 Bbl water sweeps hourly. Returns 1/8" and less coal in clear water; on sweeps water gray to brown.

Lay down 12 jts, run pitot test #2 on 2-1/2" line: 1/4 and 1/2 hr - 82 psi, 12264 MCFD; 3/4 hr - 85 psi, 12932; 1 hr - 90 psi, 13599 MCFD (all gauges mist).

Shut in well for 30 minutes, pressure built to 1000 psi; bled well down.

Estimate 430 BPD water.

TIH, clean out with 2.8 MM air and 3 BPM water. Returns heavy coal and coal fines in black water.

Circulate and work pipe at TD with 2.8 MM air and 1-1/2 BPM water with 10 Bbl water sweeps hourly. Returns moderate to light 1/8" and smaller coal in gray to clear water. Returns decreased to light coal in clear water.

9-02-90 7" casing at 2795'; open hole 2795-3197'.

Circulating and working pipe at TD with 2.8 MM air and 1/2 BPM water with 10 Bbl water sweeps hourly. Returns light 1/16" coal in clear water.

(Cont'd)

9-02-90 Circulate and work pipe at TD with 2.8 MM air and 1-1/2 BPM water with 10 Bbl water sweeps hourly. Returns light 1/16" coal in clear water.

Lay down 12 jts, run pitot test #3: 1/4, 1/2, and 3/4 hr - 90 psi, 12932 MCFD; 1 hr - 95 psi, 14065 MCFD (all gauges mist).

Shut in well to pressure up to 100 psi, surge well.

Bucket test - 402 BPD water.

TIH with 12 jts drill pipe, clean out to TD. Returns heavy to moderate coal in black to gray water.

9-03-90 7" casing at 2795'; open hole 2795-3197'.

Waiting on daylight to snub liner.

Circulate and work pipe at TD with 2.8 MM air and 1-1/2 BPM water with 10 Bbl water sweeps hourly. Returns light 1/16" coal in clear water.

Kill well with water, circulate through manifold, pump across stack with 200 psi.

Set swivel back, pull 30 stands, land 3-1/2" drill pipe in top pipe rams.

Rig up Cudd snubbing equipment, pressure test stack - held OK.

POOH with 3-1/2" drill pipe and 11 drill collars.

Change rams, rig up to snub liner, wait on daylight.

9-04-90 7" casing at 2795'; open hole 2795-3197'.

Milling on liner plugs at 3100'.

Wait on daylight to snub liner.

(Cont'd)

9-04-90 Snub 5-1/2" liner in hole. Strip 3-1/2" drill pipe in hole.

Hang liner hanger and pack-off, pack-off held OK.

Lay down 3 jts 3-1/2" drill pipe, hang off drill pipe in rams, rig down Cudd.

Nipple up stripping head, lay down 3-1/2" drill pipe.

Change rams, rig up to run 2-7/8" tubing.

Run 85 jts 2-7/8" tubing.

Pick up swivel and circulate hole.

Mill on liner plugs from 2998-3100'.

Ran 11 jts full and one 20' jt 5-1/2" 23# L-80 LT&C casing. Ran 5 full perfed; 1 half jt perfed; 5 full non-perfed jts. Perfs (8 HPF): 2867-2909' and 2998-3195'.

Final pitot test: 14 MMCFD. Water rate 402 BPD.

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9-05-90 7" casing at 2795'; 5-1/2" liner 2683-3197'.

Rig released.

Mill liner plugs 3100-3192'.

Lay down 2 jts 2-7/8" tubing. Land tubing in wellhead.  
2-7/8" set at 3125.30' with Baker F nipple (2.25" ID) 1  
jt up at 3093.74'.

Nipple up tree. Drop ball and pump off expendable mill  
check with 2000 psi.

Unload well. Flow well through tubing.

Rig down. Release rig at 12:00 noon, 9-04-90.