

**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 **X** other \_\_\_\_\_  
 2. Name of Operator: **Blackwood & Nichols Co., A Limited Partnership**  
 3. Address of Operator: **P.O. Box 1237, Durango, CO 81302-1237**  
 4. Location of Well: (Footage, Sec., T., R., M., or Survey Description)

1904' FNL, 790' FEL - Section 14, T31N, R7W

5. Lease Designation & Serial #: **NM-03358**  
 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.# 490**  
 9. API Well No.: **30-045-27567**  
 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: <b>COMPLETION</b>
	(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**  
 JAN 8 1991

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: 11/28/90

**ACCEPTED FOR RECORD**

(This space for Federal or State office use)

Approved By \_\_\_\_\_ Title \_\_\_\_\_ Date JAN 04 1991  
 Conditions of approval, if any: \_\_\_\_\_

FARMINGTON RESOURCE AREA  
 PY JL

Completion Report

Northeast Blanco Unit No. 490 - Basin Fruitland Coal

LOCATION: 1904' FNL, 790' FEL  
Section 14, T31N, R7W  
San Juan County, New Mexico

10-14-90 Picking up drill pipe.

Move in and rig up Big "A" Rig No. 25. Nipple up BOP. Pressure test blind rams and 7" casing to 2000 psig for 30 minutes - held OK.

Pick up 6-1/4" Smith FDTL bit, SN# KT6001 (jets: 20-20-20), float sub, 1 drill collar, F nipple (1.871" ID), 10 drill collars, 1 jt 3-1/2" drill pipe, and F nipple (2.25" ID).

10-15-90 7" casing at 3001'; open hole 3001-3390'.

Drilling Fruitland coal formation with 6-1/2 BPM water, 10,000# WOB, and 70 RPM @ 800 psi.

Pick up drill pipe, tag cement at 2961'. Dig out blow pit with back hoe.

Drill cement 2961' to shoe at 3001'. Drill Fruitland coal 3001-3390'; 388' in 12-1/2 hours. Have 3-5' flare.

10-16-90 7" casing at 3001'; open hole 3001-3413'.

Circulating and working pipe at TD with 2 MM air and 1 BPM water. Returns light 1/8" coal in clear water.

Drill Fruitland coal to TD with 6-1/2 BPM water, 6000# WOB, and 90 RPM @ 800 psi. Had 5' flare.

(Cont'd)

10-16-90	Coal Intervals:	3033-3034'	1'
		3095-3096'	1'
		3106-3107'	1'
		3112-3114'	2'
		3128-3131'	3'
		3137-3141'	4'
		3142-3148'	6'
		3232-3142'	10'
		3244-3246'	2'
		3247-3248'	1'
		3249-3260'	11'
		3276-3278'	2'
		3291-3292'	1'
		3293-3301'	8'
		3311-3314'	3'
		3401-3411'	10'
		Total	66'
	Top P.C. Tongue	- 3316'	
	Top Main P.C.	- 3411'	
	Total Depth	- 3413'	

Circulate hole with 6-1/2 BPM water, drop pump rate 1 BPM hourly to 3-1/2 BPM. Returns very light 1/8" coal (98%) in clear water.

Circulate and work pipe at TD with 1 BPM water. Returns light 1/4" and smaller coal (98%) in black to clear water.

10-17-90 7" casing at 3001'; open hole 3001-3413'.

Circulating and working pipe at TD with 2 MM air and 1 BPM water. Returns light 1/8" coal in clear water.

Circulate and work pipe at TD with 2 MM air and 1 BPM water with 10 Bbl water sweeps hourly. Returns heavy coal on sweeps, reducing to light 1/8" coal (98%) in black to clear water.

Have 12-15' flare.

10-18-90 7" casing at 3001'; open hole 3001-3413'.

Circulating and working pipe at TD with 2 MM air and 1 BPM water with 20 Bbl water sweeps hourly. Returns light 1/8" and smaller coal (98%) in clear water.

(Cont'd)

10-19-90 Circulate and work pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps hourly. Returns on sweeps heavy 1/4" and smaller coal in black water.

Have 25' flare.

10-20-90 7" casing at 3001'; open hole 3001-3413'.

Circulating and working pipe at TD with 3 MM air and 1 BPM water with 20 Bbl water sweeps hourly. Returns 1/8" and less coal (95%) in gray water.

Circulate and work pipe at TD with 3 MM air and 1 BPM water with 20 Bbl water sweeps hourly. Returns on sweeps heavy to moderate; between sweeps light 1/8" and less coal (99%) in gray water.

10-21-90 7" casing at 3001'; open hole 3001-3413'.

Changing rams to 5-1/2".

Circulate and work pipe at TD with 2 MM air and 1 BPM water with 20 Bbl water sweeps hourly. Returns heavy to moderate coal on sweeps; returns between sweeps moderate 1/4" and smaller coal (95%) in black to gray water.

Load hole with water, pump across stack with 300 psi. Pull 20 stands and rig up Cudd.

Strip out of hole with 3-1/2" drill pipe and 4-3/4" drill collars. Change rams to 5-1/2". Rig up to run 5-1/2" liner.

10-22-90 7" casing at 3001'; open hole 3001-3413'.

Washing to bottom with 5-1/2" liner at 3084'.

Pick up and snub 5-1/2" liner in hole.

Wait on 1 jt 5-1/2" csg (damaged threads on 1 jt casing).

Finish snubbing 5-1/2" liner, change rams to 3-1/2" and strip drill pipe in hole. Hit bridge at 3066'. Pick up swivel.

Wash 5-1/2" liner from 3066-3084'.

10-23-90 7" casing at 3001'; 5-1/2" liner 2963-3412' (37.69' overlap).

Picking up swivel to mill liner plugs.

(Cont'd)

10-18-90 Lay down 12 jts drill pipe for pitot test #1: 1/4 hr - 6 oz., 372 MCFD; 1/2 hr - 5 oz., 354; 3/4 and 1 hr - 10 psi, 1948 MCFD (all gauges wet).

Shut in test: 1/4 hr - 150 psi; 1/2 hr - 325; 3/4 hr - 450; 1 hr - 600; 1-1/4 hrs - 750 psi.

Bucket test - 690 BPD water.

Surge well with 750 psi, TIH, tag bridge @ 3262', wash through bridge. Returns heavy coal and powder. Clean out to TD, returns at TD heavy to light 1/4" and smaller coal (98%) in black to clear water.

Circulate and work pipe at TD with 2 MM air and 1 BPM water alternating 10 and 20 Bbl water sweeps each hour. Returns on sweeps moderate coal; between sweeps light 1/8" and smaller coal in gray to clear water.

Load hole with water, pump 200 Bbls in formation @ 6-1/2 BPM @ 1800 psi, let well unload.

Circulate and work pipe at TD with 2 MM air and 1 BPM water running 20 Bbl water sweeps hourly. Returns moderate to light 1/4" and smaller coal (98%) in gray to clear water.

10-19-90 7" casing at 3001'; open hole 3001-3413'.

Circulating and working pipe at TD with 3 MM air and 1-1/2 BPM water with 20 Bbl water sweeps hourly. Returns moderate 1/8" and smaller coal (99%) in gray water.

Circulate and work pipe at TD with 2 MM air and 1 BPM water with 20 Bbl water sweeps hourly. Returns light 1/8" and smaller coal (99%) in clear water.

Circulate and work pipe at TD with 3 MM air and 1 BPM water with 20 Bbl water sweeps hourly. Returns light 1/8" and smaller coal (99%) in gray water.

Pull into 7" for pitot test #2: 1/4 hr - 50 oz., 1150 MCFD; 1/2 and 3/4 hr - 8 psi, 1756; 1 hr - 7 psi, 1644; 1-1/4 hrs - 6 psi, 1520 MCFD.

Shut well in 1 hr: ISIP -170 psi; 1/4 hr - 370 psi; 1/2 hr - 515; 3/4 hr - 750; 1 hr - 850 psi. Surge well with 850 psi.

TIH, hit bridge at 3375', wash to TD with 3 MM air and 3 BPM water. Returns heavy coal fines in black water.

(Cont'd)

10-23-90 Wash to TD with 5-1/2" liner.

Set and pack off Baker hydraulic liner hanger; release from liner.

Run 14 jts (439.63') 5-1/2" 17# K-55 casing, set at 3412'; top of liner hanger at 2963.31'; 37.69' overlap. Perforations (4 HPF): 3047-3066'; 3104-3161'; 3216-3332'; and 3391-3409'.

Circulate hole for 1/2 hour, tag top of liner, lay down 3 jts drill pipe, hang drill pipe in pipe rams. Rig down Cudd. Nipple up stripping head.

Lay down drill pipe and drill collars, rabbit and strap tubing.

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

Pick up 4-3/4" expendable mill/check, 1 jt tubing, and F nipple (2.25" ID). TIH with tubing, tag liner top at 2963.31', tag top perf at 3046.93'. Pick up swivel.

10-24-90 7" casing at 3001'; 5-1/2" liner 2963-3412'.

Waiting on daylight to move rig.

Pick up swivel and circulate hole with water.

Mill liner plugs.

Lay down 3 jts 2-7/8" tubing, land tubing.

Run 106 jts (3328.70') 2-7/8" J-55 FBNAU USS tubing, set at 3340.70' with Baker F nipple (2.25" ID) at 3308.04'. Nipple down BOP stack, nipple up tree. Pump 10 Bbls water, drop ball, pump mill and check off with 2000 psi. Flow well back up tubing to unload water. Rig released 5:00 p.m., 10-23-90.

10-18-90: 2" pitot gauge - 1948 MCFD  
water production - 690 BPD