

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)

1658' FSL, 957' FWL - Section 30, ~~10N, 10E~~

5. Lease Designation & Serial #:

MM-03357

6. If Indian, Allottee/Tribe Name

7. If Unit or CA, Agmt. Design.:

Northeast Blanco Unit

8. Well Name and No.:

M.E.B.U.# 495

9. API Well No.:

30-039-24621

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 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 11 1990
OIL CON. DIV
DIST. 8

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

Signed: R.W. Williams

ROY W. WILLIAMS

Title: ADMINISTRATIVE MANAGER

Date: 8/28/90

(This space for Federal or State office use)

Approved By _____

Title _____

Date _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

SEP 05 1990

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency or the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

BY 22

BLACKWOOD & NICHOLS CO., LTD.

P.O. BOX 1237

DURANGO, COLORADO 81302-1237

(303) 247-0728

Completion Report

Northeast Blanco Unit No. 495 - Basin Fruitland Coal

LOCATION: 1658' FSL, 957' FWL
Section 30, T31N, R6W
Rio Arriba County, New Mexico

5-02-90 7" casing at 2982'.

Picking up power swivel.

Move in and rig up Big "A" Rig No. 25. Test blind rams, 7" casing, inside and outside blooie line valves, and manifold valves, to 2000 psi - all held OK.

Pick up Smith 6-1/4" FDT SN# KM9722 (jets: 24-24-24), float, one 4-3/4" drill collar, F nipple (1.875" ID), ten 4-3/4" drill collars, 1 jt 3-1/2" drill pipe, F nipple sub (2.25" ID), and TIH with 3-1/2" drill pipe. Tag cement at 2959'.

Pick up power swivel. (JB/AR)

Estimated daily cost: \$17,909

Estimated cumulative cost: \$17,909

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5-03-90 Circulating and conditioning hole while mixing mud.

Test 2 sets of 3-1/2" pipe rams to 2000 psi for 30 minutes - held OK. Test HCR and 4-1/16" manual valves to 2000 psi for 30 minutes - held OK.

Drill cement 2959-2965' (float); drill float and cement to 3006'.

Wait on mud material.

Unload mud material, mix mud, displace hole with mud.
Circulate and condition hole. (MLS/MD)

Est. daily cost:	\$12,461	Daily mud:	\$3,137
Est. cumulative cost:	\$30,370	Cum. mud:	\$3,137

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Completion Report

Northeast Blanco Unit No. 495 - Basin Fruitland Coal

LOCATION: 1658' FSL, 957' FWL
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5-04-90 7" casing at 3004'; open hole 3004-3109'.

Mud capacities: 130 Bbls in hole
350 Bbls in pit
480 Bbls total

Mud properties: weight 10.0 ppg, viscosity 52 sec, water
loss 6.4, ph 8.0

Drilling Fruitland formation at 3109'.

Circulate and condition hole and mix mud.

#1 and #2 pumps down. Wait on parts and replacement
pump.

Circulate and condition hole and build volume.

Drill Fruitland formation 3004-3109'; 10,000# WOB, 100
RPM @ 1200 psi and 7 BPM. (MLS/MD)

Est. daily cost:	\$11,526	Daily mud:	\$5,906
Est. cumulative cost:	\$41,896	Cum. mud:	\$9,043

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LOCATION: 1658' FSL, 957' FWL
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5-05-90 7" casing at 2980'; open hole 2980-3234'.

Making up DST #1.

Drill Fruitland formation to 3084' with 10.0 ppg, 54 sec viscosity mud.

Shale shaker down. Pick up and circulate. Rig down, wait 8 hours on parts for shale shaker.

Drill Fruitland formation with 10,000# WOB, 100 RPM, @ 120 psi and 7 BPM water. TD at 3204'.

Circulate and condition hole; raise mud weight to 10.7 ppg and 63 sec viscosity. Short trip, found 2' fill.

Circulate and condition hole. Strap out of hole. Unload and make up DST #1 tools. (MLS)

Est. daily cost:	\$10,587	Daily mud:	\$ 4,928
Est. cumulative cost:	\$52,483	Cum. mud:	\$13,971

5-06-90 7" casing at 2980'; open hole 2980-3276'.

TIH with DST #1. Upper Pictured Cliffs Sand (tongue) from 3172-3204' on 5-05-90; packer set at 3172'. Mud weight 10.7 ppg; viscosity - 54 sec; bottom choke 3/4". Initial mud hydrostatic - 1758.7 psig. Initial flow - 10 minutes; initial pressure 63.8 psig; final pressure 209.8 psig through 6' long x 1/8" ID bubble hose. First shut-in - 30 minutes; final pressure 1670.8 psig. Second flow - 90 minutes; 1/4" choke initial - 73.8 psig; final 159.7 psig. Final shut-in - 180 minutes; final pressure 1605.4 psig. Final mud hydrostatic 1803.3 psig.

Break and load out tools. Blind rams closed. Pump in 30 Bbls of mud in annulus. Pressure to 600 psi, let gas work to surface. Bleed off gas bubble.

(Cont'd)

5-06-90 Pick up 6-1/4" FDT bit (jets: 24-24-24), float sub, 1 drill collar, "N" nipple, 10 drill collars, 1 jt drill pipe, "F" nipple, stop sub, and TIH with drill pipe. Tag at 3204'. Pick up swivel and circulate out gas through choke manifold.

Drill Fruitland formation 3204-3276' TD.

Sample chamber 2.8 ft³ gas @ 455 psi.

Mud weight 10.7 ppg, viscosity 63 sec, water loss 6.6, ph 8.0.

Mud properties: weight 10.7 ppg, viscosity 63 sec, water loss 6.6, ph 8.0

Mud capacities: 146 Bbls in hole
265 Bbls in pit
411 Bbls total

Mud lost - 69 Bbls; cumulative lost 69 Bbls.

Coal Intervals:	2990-2992'	(2')
	2995-2998'	(3')
	3006-3008'	(2')
	3015-3017'	(2')
	3041-3043'	(2')
	3064-3066'	(2')
	3089-3092'	(3')
	3122-3129'	(7')
	3130-3132'	(2')
	3134-3137'	(3')
	3149-3160'	(11')
	3168-3170'	(2')

Total 41'

PC Tongue 3171'
Main PC 3274'
TD 3276'

Est. daily cost: \$12,948 Daily mud: \$ 0
Est. cum. cost: \$65,431 Cum. mud: \$13,971

5-07-90 7" casing at 2980'; open hole 2980-3276'.

Working pipe at TD.

Condition hole at TD. Short trip, no fill, circulate and condition mud.

(Cont'd)

5-07-90 Howco Logging arrived on location, POOH.

Rig up Howco, run Density Neutron, Microlog, Dual Induction Guard log.

Nipple up stripper head, RIH with bottom hole assembly. RIH to bottom of 7", transfer mud from steel mud pit to storage tank.

Circulate mud from hole.

Mud lost - 70 Bbls; cumulative lost - 139 Bbls.

Work pipe at TD with 5 BPM water. Returns moderate to light coal fines and coal dust in muddy water.

Have 25-30' flare. (MLS/AR)

Est. daily cost:	\$16,528	Daily mud:	\$ 0
Est. cum. cost:	\$81,959	Cum. mud:	\$13,971

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LOCATION: 1658' FSL, 957' FWL
Section 30, T31N, R6W
Rio Arriba County, New Mexico

5-08-90 7" casing at 2980'; open hole 2980-3276'.

Working pipe at TD; skim oil off pit.

Work pipe at TD with 5 BPM water. Returns light 1/8" coal and coal dust, green-yellow oil in clear water.

Work pipe at TD with 5 BPM water. Reduce pump rate 1/2 BPM every 3 hours to 2 BPM water. Returns light 1/4" and less coal, green oil in clear water. 30' flare.
(MLS/AR)

Est. daily cost:	\$ 8,547	Daily mud:	\$ 0
Est. cumulative cost:	\$90,506	Cum. mud:	\$13,971

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Completion Report

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LOCATION: 1658' FSL, 957' FWL
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5-09-90 7" casing at 2980'; open hole 2980-3276'.

Circulating and working pipe at TD.

Circulate and work pipe with 2 BPM water @ 200 psi. Returns light 1/2" and less coal, shale and siltstone in clear water with green, greenish-yellow oil.

Circulate and work pipe with 1 MM air and 5 BPM, decreasing to 2 BPM water. Returns moderate to light 1/2" and less coal, oil, and coal dust in clear water with shale and siltstone.

Circulate and work pipe with 2 MM air and 5 BPM, decreasing to 2 BPM water. Returns light 1/2" and less coal in clear water. Oil decreased.

Circulate and work pipe with 3 MM air and 5 BPM, decreasing to 2 BPM water. Returns light 1/2" and less coal in clear water.

Circulate and work pipe with 3 MM air and 1 BPM water @ 225 psi. Returns very light coal in clear water.

Circulate and work pipe with 3 MM air and 5 Bbl water sweeps hourly. Returns on sweeps, moderate coal and black water. (JB/MD)

Estimated 600-700 MCFD gas.

Est. daily cost:	\$ 7,457	Daily mud:	\$ 600
Est. cumulative cost:	\$97,963	Cum. mud:	\$14,571

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Completion Report

Northeast Blanco Unit No. 495 - Basin Fruitland Coal

LOCATION: 1658' FSL, 957' FWL
Section 30, T31N, R6W
Rio Arriba County, New Mexico

5-10-90 7" casing at 2980'; open hole 2980-3276'.

Working pipe at TD with 3 MM air; water sweeps hourly.

Work pipe at TD with 3 MM air and 10 Bbl water sweeps hourly. Returns moderate 1/4" coal (90%), shale and black water on sweeps.

Short trip 9 jts, gauge well through 2": 1/4, 1/2, and 3/4 hr - 27 oz., 790 MCFD; 1 hr - 24 oz., 752 MCFD (all gauges dry).

Shut in test: 1/4 hr - 290 psi; 1/2 hr - 480; 3/4 hr - 610; 1 hr - 725 psi.

Surge well, TIH, had 3' fill. Flow well one hour natural, no water to surface.

Work pipe at TD with 3 MM air alternating 5 and 10 Bbl water sweeps each hour. Returns moderate to heavy 1/4" coal (90%), shale and siltstone on sweeps; between sweeps, light coal in clear water. (JB/AR)

Estimated daily cost: \$ 8,939

Estimated cumulative cost: \$106,902

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5-11-90 7" casing at 2980'; open hole 2980-3276'.

TIH after gauging well.

Work pipe at TD with 3 MM air, alternating 5 and 10 Bbl water sweeps hourly. Returns light 1/4" and smaller coal, shale and siltstone in clear water; moderate coal in black water on sweeps.

Short trip 9 jts, gauge well on 2" with pitot tube: 1/4 hr - 35 oz., 910 MCFD; 1/2 hr - 31 oz., 833 MCFD; 3/4 and 1 hr - 28 oz., 801 MCFD (all gauges dry).

Shut in for pressure build up: 1/4 hr - 290 psi; 1/2 hr - 480 psi; 3/4 hr - 620 psi; 1 hr - 800 psi. Pressure annulus to 1000 psi with air, surge well.

TIH, had 3' fill.

Work pipe at TD with 3 MM air alternating 5 and 10 Bbl water sweeps hourly. Returns moderate 1/4" coal, shale and siltstone in black water on sweeps.

Short trip to gauge well: 1/4 hr - 36 oz., 915 MCFD; 1/2 hr - 35 oz., 910 MCFD; 3/4 and 1 hr - 33 oz., 846 MCFD (all gauges dry).

TIH, had 1' fill. (JB/AR)

Estimated daily cost: \$ 6,903

Estimated cumulative cost: \$113,805

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5-12-90 7" casing at 2980'; open hole 2980-3276'.

Rig released.

Clean out 1' of fill; rig up to lay down drill pipe. Lay down drill pipe and drill collars.

Run 2-3/8" tubing with expendable check on bottom (1.875" ID), profile nipple 1 jt off bottom.

Nipple down BOP, nipple up tree.

Pump off expendable check, run 1 hour flow test through 2" pitot: 1/4 and 1/2 hr - 5 psi, 1374 MCFD; 3/4 and 1 hr - 7 psi, 1644 MCFD (all gauges wet).

Rig down, wait on daylight to move.

Water production too small to measure. (MLS/AR)

Tubing summary: Ran 95 jts (2946.19') 2-3/8" 4/7# J-55 FBNAU tubing, expendable check at 2961.86'. Top of F nipple at 2927.45'.

Estimated daily cost: \$ 28,183

Estimated cumulative cost: \$141,988

Drilling cost: \$ 87,498

Estimated total cost: \$229,486