

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 **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)

1790' FSL - 2510' FWL - Section 23, 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.# 434

9. API Well No.:

30-045-27508

10. Field & Pool/Expltry Area:

Basin Fruitland Coal

11. County or Parish, State:

San Juan, New Mexico

12. CHECK APPROPRIATE BOX(es) 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
NOV 23 1990
OILCON. 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: 10/15/90

(This space for Federal or State office use)

Approved By _____ Title _____ Date _____
Conditions of approval, if any:

ACCEPTED FOR RECORD

NOV 06 1990

FARMINGTON RESOURCE AREA

BY 227
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Completion Report

Northeast Blanco Unit No. 434 - Basin Fruitland Coal

LOCATION: 1790' FSL, 2510' FWL
Section 23, T31N, R7W
San Juan County, New Mexico

9-21-90 Rigging up.

Move in and rig up Aztec Rig No. 56. Nipple up BOP, lay blooie line, nipple up manifold.

9-22-90 7" casing at 3048'; open hole 3048-3340'.

Drilling Fruitland Coal at 3340', 8000# WOB, 80 RPM. 5 BPM water. Have 4' flare from 1 blooie line.

Finish rigging up. Pressure test 7" casing, blind rams and manifold to 2000 psi for 15 minutes. Held OK.

Pick up Smith 6-1/4" FDTL, (3-20's) SN #KP5112, bit sub, one 4-3/4" drill collar, N nipple (1.875" ID), nine 4-3/4" drill collars, 1 jt 3-1/2" drill pipe, and F nipple (2.25" ID): overall length = 338.54'. Run in hole with 3-1/2" drill pipe. Tag cement at 2999'.

Pick up swivel. Pressure test pipe rams to 2000 psi for 10 minutes. Held OK. Drilling cement, float at 3003' and cement and shoe at 3048'.

Drilling Fruitland Coal from 3048-3340'.

9-23-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and working pipe at TD with 1 MM air and 3-1/2 BPM water.

Drilling from 3340-3364'.

Circulating and working pipe at TD with 5 BPM water - 1 BPM water reducing pump rate 1/2 BPM every 2 hours. Returns light to moderate 1/16" and smaller coal (85%), shale and siltstone in clear water. Have 4' flare from 1 blooie line.

(Cont'd)

9-23-90 Circulating and working pipe at TD. Raise pump from 1 to 4 BPM. Bring 1 MM air on line. Returns heavy to moderate 1" and less coal (95%), shale and siltstone in gray water.

Circulating and working pipe at TD with 1 MM air and 4 BPM water. Reducing pump rate 1/2 BPM every 2 hours. Returns moderate 1" and smaller coal (99%) in clear water. Have 4' flare from 2 blooie lines.

Coal Intervals:	3049-3050'	1'
	3055-3056'	1'
	3070-3071'	1'
	3091-3092'	1'
	3095-3096'	1'
	3099-3101'	2'
	3107-3108'	1'
	3114-3120'	6'
	3123-3125'	2'
	3129-3132'	3'
	3160-3161'	1'
	3165-3168'	3'
	3169-3177'	8'
	3179-3183'	4'
	3184-3199'	15'
	3204-3205'	1'
	3213-3223'	10'
	3233-3236'	3'
	3329-3333'	4'
	Total	68'

Top P.C. Tongue	-	3236'
Top Main P.C.	-	3361'
Total Depth	-	3364'

9-24-90 7" casing at 3048'; open hole 3048-3364'.

Work stuck pipe at 3173'.

Circulating and working pipe at 3364' with 1 MM air and 2 BPM water. Returns moderate 1/2" and smaller coal in clear water.

Circulating and working pipe at TD with 2 MM air and 5 BPM water reducing 1 Bbl every 2 hours to 2-1/2 BPM water. Returns light to moderate 1/4" and less in clear water.

(Cont'd)

9-24-90 Hole fell in, could not circulate, pressure up back side to 800 psi. Work pipe up hole to 3173'. Pump down drill pipe. Hole takes fluid at 600 psi. Pump air down back side. Back side will hold 1200 psi. Pressure up back side to 1100 psi, work stuck pipe.

9-25-90 7" casing at 3048'; open hole 3048-3364'.

Jar on fish at 3142'.

Work stuck pipe at 3173' with 1100 psi air on backside.

Rig up Wireline Specialists, run free point: 100% stuck at 2875' (top of drill collars), 213' inside 7" casing.

Hold 1200 psi on 7" casing, try to work pipe downhole, pressure up drill pipe to 1600 psi, release pressure on back side attempting to move coal in annulus.

Rig up Wireline Specialists, back off at 2807', left 2 jts 3-1/2" drill pipe, F nipple, ten 4-3/4" drill collars, N nipple, bit sub, and bit in hole. Top of fish 2807'.

Circulate hole on top of fish. Returns heavy floating powder coal, light to moderate 1/8" shale. POOH.

Pick up screw-in sub, jars, one 4-3/4" drill collar, N nipple, five 4-3/4" drill collars, and accelerator. TIH to 2800'.

Circulate on top of fish, screw in fish, jar downhole 12', pipe free and rotating. Would not circulate, work pipe up hole from 3173-3142'.

9-26-90 7" casing at 3048'; open hole 3048-3364'.

POOH with 3-1/2" drill pipe.

Jar on fish, move fish up hole from 3142' to 3111', jars gave up. Pump down drill pipe 1/2 BPM; returns 1/2" stream.

Rig up Wireline Specialists, run freepoint: 2815' - 100%; free: 2818' - 70% free; 2824' - 20% free; 2881' - 0% free. Backed off at 2754'. Left bit, bit sub, one 4-3/4" drill collar, N nipple, nine 4-3/4", 1 jt 3-1/2" drill pipe, F nipple, 1 jt 3-1/2" drill pipe, screw-in sub, cross-over sub, jars, cross-over sub. Overall length 392'. Top of fish at 2735'. POOH with 3-1/2" drill pipe.

9-27-90 7" casing at 3048'; open hole 3048-3364'.

Washing over 4-3/4" drill collars from 2819-3000'.

Pick up wash pipe, TIH. Run shoe, 6 jts wash pipe, bumper sub, jars, six 4-3/4" drill collars, and accelerator (overall length = 408.92')

Cut drilling line.

TIH with 3-1/2" drill pipe to 2711'. Displace hole with mud; condition to 8.7 ppg and 80 sec viscosity.

Tag top of fish at 2735', wash over to 2788' to 5-1/16" OD safety sub. Wash pipe would not go over safety sub. Circulate hole clean. POOH, mill shoe belled out to 5-1/4".

TIH with screw-in sub, bumper sub, jars, six 4-3/4" drill collars, accelerator (OAL = 220.08') on 3-1/2" drill pipe. Screw into top of fish. Rig up Wireline Specialists, back off at 2819' (top of drill collars). Rig down wireline.

POOH, recovered 1 jt 3-1/2" drill pipe, F nipple, safety sub, 1 jt 3-1/2" drill pipe, screw-in sub, bumper sub, jars (OAL = 88').

TIH with mill shoe, 6 jts wash pipe, bumper sub, jars, six 4-3/4" drill collars, accelerator (OAL = 408.92'). Tag fish at 2818', wash over fish 2818-3000'.

9-28-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and cleaning out hole at 3183'.

Circulate and clean out hole at 3000' with 5 BPM water @ 600 psi.

POOH with washpipe.

TIH with screw-in sub, bumper sub, hydraulic jars, 6 drill collar and accelerator on 3-1/2" drill pipe. Tag fish at 2877', fish went downhole 59'. Screw into fish, had no torque, 600 psi circulating pressure.

Mix mud to 10.1 ppg and 70 sec viscosity.

POOH. Lay down fishing tools and 6 drill collars. Lay down 1 drill collar with bad box. Recover all of fish.

(Cont'd)

9-28-90 Magnetic particle inspect drill collar string in table.

TIH with washpipe, lay down same.

TIH with 6-1/4" Smith Tool Co. FDT RR bit, bit sub, float sub, one 4-3/4" drill collar, N nipple (1.875" ID), eight 4-3/4" drill collars, 1 jt drill pipe and F nipple (2.25" ID) on 3-1/2" drill pipe.

Displace mud with water.

Condition and clean out hole from 3056-3183' with 5 BPM water.

Returns very heavy 1/8" and coal powder in black water.

9-29-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and working pipe at 3214' with 1 MM air and 5 BPM water.

Circulate and clean out well 3183-3364' with 5 BPM water. Returns heavy 1/8" and fines coal (98%) in black water.

Circulate and work pipe at 3364' with 5 BPM water. Returns moderate to light 1/8" and smaller coal (98%) in gray water.

Circulate and work pipe at TD with 5 BPM water, reducing 1/2 BPM every 2 hours to 3 BPM. Returns light 1/8" and coal fines in clear water.

Circulate and work pipe at TD with 1 MM air and 5 BPM water. Returns moderate to light 1/8" and coal fines in clear water.

Hole fell in, pull 5 jts. Circulate and work pipe. Returns heavy to moderate 1/4" and smaller in black water.

9-30-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and working pipe at 3214-3240' with 2 MM air and 5 BPM water.

Circulate and work pipe at 3214-3245' with 2 MM air and 5 BPM water. Returns heavy to moderate 1/2" and smaller coal (98%) in black water.

Estimate well making 2500 BPD water.

10-01-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and working pipe at 3214' with 3 MM air and 5 BPM water.

Circulate and work pipe at 3214-3245' with 2 MM air and 5 BPM water. Returns moderate to light 1/8" and fines coal (98%) in black water.

Circulate and work pipe 3245-3264' (TD) with 2 MM air and 5 BPM water. Returns moderate to light 1/4" and smaller coal (98%) in black to gray water.

Circulate and work pipe at TD with 2 MM air and 5 BPM water, reducing pump rate 1/2 Bbl every 2 hours. Returns light 1/8" and fines coal (98%) in clear water. Hole fell in, had high torque and drag.

Lay down 5 jts drill pipe, bit at 3214'. Circulate and work pipe with 3 MM air and 5 BPM water. Returns very heavy 3/4" and smaller coal, large 3/4" shale and siltstone in returns.

10-02-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and working pipe @ 3214' with 2 MM air and 5 BPM water. Returns heavy 1/2" and smaller coal (95%) in black water. Hole tight at 3214'.

Circulate and work pipe at 3214' with 2 MM air and 5 BPM water. Returns very heavy 1/2" and smaller floating coal in black water. Had high torque and drag.

Circulate and work pipe at 3214' with 2 MM air and 5 BPM water. Returns very heavy 1/2" and smaller coal (98%) in black water.

10-03-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and working pipe at TD with 1 MM air and 2-1/2 BPM water. Returns very light 1/8" and smaller coal in clear water. 12' flare from both blooie lines.

Circulate and work pipe at 3214' with 2 MM air and 5 BPM water. Returns heavy 1/2" and smaller coal in black water; hole very tight.

Circulate and work pipe at 3214' with 1 MM air and 5 BPM water. Returns same as above; hole freed up. Washed to TD at 3364'.

(Cont'd)

10-03-90 Circulate and work pipe at TD with 1 MM air and 5 BPM water. Returns moderate to light 1/8" and smaller coal (98%) in gray to clear water.

Circulate and work pipe at TD with 1 MM air and 5 BPM water, reducing pump rate 1/2 Bbl every 2 hours.

Estimate 1500 BPD water.

10-04-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and working pipe at TD with 3 MM air and 1/2 BPM water. Returns moderate 1/4" and smaller coal (98%) in black water; bottom 20' of hole sticky.

Circulate and work pipe at TD with 1 MM air and 2-1/2 to 1/2 BPM water. Returns light 1/16" and smaller coal (98%) in clear water.

Circulate and work pipe at TD with 1 MM air and 1/2 BPM water. Returns same as above; bottom 3' of hole sticky, bring on additional 1 MM air.

Circulate and work pipe at TD with 2 MM air and 1/2 BPM water. Hole tight and bridging off, lost rotation, Hole unloaded heavy 1/2" and smaller coal (98%) in black viscous water; added additional 1 MM air.

Circulate and work pipe at TD with 3 MM air and 1/2 BPM water. Returns moderate to light 1/8" and smaller coal (98%) in gray to clear water.

Hole got tight and bridged off, hole unloaded. Returns heavy 1/2" and smaller coal (98%) in black viscous water.

Circulate and work pipe at TD with 3 MM air and 1/2 BPM water. Returns moderate 1/4" and smaller coal (98%) in gray water.

Hole got tight, bridged frequently and unloaded heavy 1/4" and smaller coal in black water.

10-05-90 7" casing at 3048'; open hole 3048-3364'.

Circulate and work pipe 3214-3246' with 1 MM air and 5 BPM water; hole is very tight. Returns heavy to moderate 1-1/2" and smaller coal (98%) in black water.

Circulate and work pipe at TD with 3 MM air and 1/2 BPM water; bottom 20' is tight. Returns moderate 1/4" and less coal (98%) in black water.

(Cont'd)

10-05-90 Circulate and work pipe at TD with 3 MM air and 1/2 BPM water; 1500-2000# torque in bottom 4' of hole. Returns light 1/8" and smaller coal (98%) in gray to clear water.

Lay down 10 jts drill pipe. Gauge well through 2" line: 1/4 hr - 11 psi, 2039 MCFD; 1/2 hr - 7 psi, 1644; 3/4 and 1 hr - 5 psi, 1374 MCFD (all gauges wet).

Shut in test: ISIP - 118 psi; 1/4 hr - 260; 1/2 hr - 440; 3/4 hr - 560; 1 hr - 680 psi.

Produced water rate - 1029 BPD.

Bleed well down slowly to 100 psi and open one blooie line. TIH, tag bridge at 3208', circulate with 2 MM air and 3 BPM water. Clean out 3208-3214', hole tight. Returns very heavy 1-1/2" and smaller coal in black viscous water.

Circulate and work pipe 3214-3246' with 1 MM air and 5 BPM water; hole tight. Returns same as above.

10-06-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and working pipe at 3230' with 2 MM air and 3 BPM water.

Circulate and work pipe at 3214-3246' with 4 MM air. Returns heavy 1/4" and smaller coal (98%) in black water.

Circulate and work pipe at 3214-3230' with 2 MM air and 5 BPM water. Returns 1/4" and smaller coal (85%), shale and siltstone in black water.

Circulate and work pipe at 3214-3230' with 5 BPM water. Returns very light 1/8" and smaller coal in black water.

Circulate and work pipe at 3214-3246' with 2 MM air and 5 BPM water. Returns heavy 1/4" and smaller coal and coal fines in black water.

Circulate and work pipe at 3214-3230' with 2 MM air and 3 BPM water. Returns 1" and smaller coal in black water.

10-07-90 Circulating and working pipe at 3246'.

Circulate and work pipe at 3214-3230' with 2 MM air and 3 BPM water. Returns heavy 1/2" and smaller coal (98%) in black water.

(Cont'd)

10-07-90 Circulate and work pipe at 3214-3278' with 2 MM air and 3 BPM water. Returns moderate 1/4" and smaller coal (98%) in clear water. Hole falls in every 2-3 hours, pipe gets stuck. When pipe comes free, hole unloads heavy 1/2" coal in black water.

Circulate and work pipe at 3214-3246' with 2 MM air and 3 BPM water. Returns moderate 1/2" and smaller coal (98%) in clear water. Hole falls in and unloads every 2-3 hours, sticks pipe.

10-08-90 Circulating and working pipe at 3214-3246' with 3 MM air and 2-1/2 BPM water.

Circulate and work pipe at 3214-3246' with 4 MM air and 3 BPM water. Returns very heavy 3/4" and smaller coal (98%) in black water.

Circulate and work pipe at 3214-3246;' with 3 MM air and 2-1/2 BPM water. Hole falls in, unloads very heavy coal in black water.

10-09-90 7" casing at 3048'; open hole 3048-3364'.

Hanging off 3-1/2" drill pipe on donut to repair BOP door gasket.

Circulate and work pipe at 3214-3246' with 3 MM air and 2-1/2 BPM water. Returns moderate 1/2" and smaller coal (98%) in clear water. Hole unloaded heavy 1/2" and smaller coal in black water for 1/2 hour.

Lay down 5 jts 3-1/2" drill pipe, blow well at 7" shoe.

Change rams to 2-7/8", pick up 2-7/8" tubing with expendable check on bottom. With 7 jts in, hit bridge, elevators sprang open, dropped tubing (217').

Clean pits and wait on mud, mix mud to 10.0 ppg and 50 sec viscosity. Pump 140 Bbls mud in hole.

Pick up 5-3/4" overshot with 3-21/32" grapple, bumper jar, oil jars, float, N nipple, and nine 4-3/4" drill collars. Pick up 3-1/2" drill pipe, tag at 3034'. While picking up swivel, well unloaded. Shut rams, ram door leaking. Land 3-1/2" drill pipe on donut.

10-10-90 7" casing at 3048'; open hole 3048-3364'.

Circulating and cleaning out with 6-1/4" bit 3016-3154' with 9.8 ppg and 65 sec viscosity mud.

(Cont'd)

10-10-90 Land 3-1/2" drill pipe in tubing spool with donut, replace ram door gaskets. Pressure test 3-1/2" rams to 1600 psi, held OK.

Pump 300 Bbls mud (10.0 ppg, 51 sec viscosity), no returns.

Mix mud to 10.1 ppg and 80 sec viscosity, pump 300 Bbls, no returns. Mix mud to 9.9 ppg and 61 sec viscosity, pump 200 Bbls mud, full returns. Returns 9.3 ppg and 43 sec viscosity; gas-cut.

Circulate and condition mud, build volume to 10.0 ppg and 65 sec viscosity.

Clean out to top of fish from 3000-3016', catch fish, 6-8000# drag. Pull 7 jts 3-1/2" drill pipe, lost 150 Bbls mud.

Circulate and build volume to fill hole.

POOH with fish. Lay down 7 jts 2-7/8" tubing, lay down fishing tools, bottom 3 jts bent.

TIH with Smith Tool Co. 6-1/4" FDT bit, SN# KP4892, bit sub, float sub, one 4-3/4" drill collar, N nipple, eight 4-3/4" drill collars, and 1 jt drill pipe. Circulate gas out of hole.

Circulate and clean out hole to 3154' with 9.8 ppg and 65 sec viscosity mud.

10-11-90 7" casing at 3048'; open hole 3048-3364'.

TIH with 2-7/8" tubing.

Circulate and clean out 3154-3200' with mud (9.8 ppg and 65 sec viscosity); lost 175 Bbls mud. Clean out with 60% returns.

Pull 6 jts drill pipe, mix mud to 9.6 ppg and 60 sec viscosity.

Circulate and clean out hole 3200-3269'; lost 150 Bbls mud.

Pull 6 jts 3-1/2" drill pipe, mix mud to 9.6 ppg, 61 sec viscosity.

Circulate and clean out hole 3269-3341' (5' below basal coal).

(Cont'd)

10-11-90 Circulate hole, lay down drill pipe and drill collars, holding 50 psi surface pressure. Change rams to 2-7/8", rig up to run tubing. Run tubing.

10-12-90 7" casing at 3048'; open hole 3048-3364'.

Blowing well through 3/4" fixed choke.

Pick up 2-7/8" tubing, land tubing. Nipple down BOP stack, nipple up upper tree. Pump 5 Bbls water and air to pump off expendable check.

Unload hole with air through tubing, flow well back through tubing through 3/4" choke.

Ran 96 jts (3012.82') 2-7/8" 6.5# J-55 EUE 8rd FBNAU USS tubing, landed at 3026.82' with F nipple (2.25" ID) at 2994.59'.

10-5-90: 2" pitot gauge = 2039 MCFD (wet); 1029 BWPD.

Release rig at 6:00 a.m., 10-12-90.