

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)

2505' FNL, 1810' FEL - Section 19, T31N, R7W

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

5. Lease Designation & Serial #:

SF-080557

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.# 459

9. API Well No.:

30-045-27448

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: 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. I  
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 \_\_\_\_\_

Date SEP 24 1990

FARMINGTON RESOURCE AREA

BY MT

BLACKWOOD & NICHOLS CO., LTD.

P.O. BOX 1237

DURANGO, COLORADO 81302-1237

(303) 247-0728

Drilling Report

Northeast Blanco Unit No. 459 - Basin Fruitland Coal

LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W  
San Juan County, New Mexico

4-22-90 Running 9-5/8" casing.

Move in and rig up Walters Rig No. 5. Spud surface hole at 10:15 a.m., 4-21-90, with bit no. 1, 12-1/4" Hughes Tool Co. OSC1G (jets: 12-12-12); all WOB, 120 RPM. Drill to 70'. TIH with bit no. 2, 12-1/4" Hughes Tool Co. OSC1G (jets: 16-16-blank); all WOB, 120 RPM. Lost 200 Bbls mud at 100', mix 30% LCM. Drill to 420'. TIH with bit no. 3, 12-1/4" Hughes Tool Co., OSC1G (jets: 16-16-blank); all WOB, 120 RPM. Mud weight 8.8 ppg, viscosity 80 sec. Drill to 618'. (CN/AR)

4-23-90 Rig repair; drilling at 1323'.

Run 14 jts (597.92') 9-5/8" 36# K-55 casing, set at 610'. Cement with 375 sx (442.5 cf) Class B with 2% CaCl<sub>2</sub> and 1/4 #/sk cellophane flake. Displace with 44 Bbls water. Circulate 46 Bbls cement to surface. Good circulation throughout. Plug down at 7:50 a.m., 4-22-90. WOC 12 hours.

Pressure test 9-5/8" casing and BOP to 600 psi for 30 minutes - held OK.

TIH with bit no. 4, 8-3/4" Hughes Tool Co., J22C (jets: 14-14-blank), 45,000# WOB, 70 RPM, 1000 psi pump pressure. Mud weight 8.5 ppg (water and polymer). Made 705' in 6-3/4 hours drilling.

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Drilling Report

Northeast Blanco Unit No. 459 - Basin Fruitland Coal

LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W  
San Juan County, New Mexico

4-24-90 Drilling at 2710'; 55' per hour.

Made 1387' in 20-1/4 hours drilling with bit no. 4, 48,000# WOB, 70 RPM, and 1050 psi pump pressure. Mud weight 8.5 ppg (water and polymer). Surveys: 1-1/2° at 618'; 2° at 1129'; 1-1/2° at 1632' 1-1/4° at 2128'; 1-1/4° at 2659'.

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Drilling Report

Northeast Blanco Unit No. 459 - Basin Fruitland Coal

LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W  
San Juan County, New Mexico

4-25-90 Rig released.

Made 350' in 7 hours drilling with bit no. 4, 48,000# WOB, 70 RPM at 1050 psi. Mud weight 9.0 ppg, viscosity 41 sec. Reached 7" casing point of 3060' at 1:00 p.m., 4-24-90.

Run 70 jts (3049.47') 7" 23# K-55 casing, set at 3061'; insert float at 3016'. Cement with 440 sx (726 cf) Class G 65/35 Poz with 6% gel and .6% D112 and 1/4 #/sk D29. Tail with 125 sx (147.5 cf) Class G neat with 1/4 #/sk D29. Displace with 120 Bbls water. Circulate 10 Bbls cement to surface. Good circulation throughout. Plug down at 9:45 p.m., 4-24-90. Did not bump plug, released pressure, float held.

Set 55,000# on slips. Rig released at 1:00 a.m., 4-25-90.

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Completion Report

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LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W,  
San Juan County, New Mexico

7-31-90 Finish laying blooie line.

Move in and rig up Big "A" Rig No. 25. Test blind rams,  
manifold and 7" casing to 2000 psi - OK. Two leaky  
valves in manifold.

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Completion Report

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LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W,  
San Juan County, New Mexico

8-01-90 7" casing at 3016'; open hole 3016-3340'.

Drilling Fruitland coal at 3340'.

Tally drill pipe and drill collars. Pick up 6-1/4" Smith FDTL (jets: 24-24-24), SN# KM9734, one 4-3/4" drill collar, N nipple, 9 drill collars, 1 jt drill pipe, F nipple, stop sub (BHA = 307.78'), and 85 jts drill pipe; tag at 2963'. Drill 53' cement to insert float at 3016'. Drill insert float and shoe jt at 3061'.

Drill Fruitland coal from 3061 to 3340' with 8000# WOB, 100 RPM and 7 BPM water @ 1300 psi. Have 30' flare, heavy floating coal.

Coal Intervals:	3076-3078'	2'
	3121-3122'	1'
	3123-3125'	2'
	3131-3132'	1'
	3146-3147'	1'
	3150-3151'	1'
	3161-3166'	5'
	3167-3172'	5'
	3182-3199'	17'
	3200-3202'	2'
	3217-3219'	2'
	3250-3257'	7'
	3258-3260'	2'
	3268-3269'	1'
	3275-3277'	2'
	3351-3354'	3'
	3355-3360'	5'
	3363-3375'	<u>12'</u>

Total 71'

P. C. Tongue - 3279'  
Top Main P. C. - 3379'  
Total Depth - 3382'

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LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W,  
San Juan County, New Mexico

8-02-90 7" casing at 3061'; open hole 3061-3340' (correction).

Circulating and working pipe at TD with 1 BPM water.

Circulating samples. Drilling to 3382' with 8,000# WOB, 100 RPM, and 7 BPM water @ 1300 psi.

Circulate and work pipe with 7 BPM water. Returns heavy floating coal in black water.

Circulate and work pipe with 6 BPM water reducing pump rate 1/2 BPM every 2 hours. Returns moderate floating coal in gray water.

Circulate and work pipe with 2 BPM water reducing pump rate 1/2 BPM every 2 hours down to 1 BPM. Returns heavy 1/4" and less coal (98%) with shale in black water. Hole sticky. Well making lots of coal and water.

40' flare through one blooie line.

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Completion Report

Northeast Blanco Unit No. 459 - Basin Fruitland Coal

LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W  
San Juan County, New Mexico

8-03-90 7" casing at 3061'; open hole 3061-3340'.

Circulate and work pipe at TD with .7 MM air and 1 BPM water.

Circulate and work pipe at TD with 1 BPM water. Returns 1/2" and less (98%) coal with shale in black viscous water.

Circulate and work pipe with .7 MM air and 5 BPM water. Reduce pump rate 1/2 bbl every 2 hours. Returns moderate to heavy coal, 1/2" and less (95%), shale and siltstone in black viscous water.

Estimated gas - 2 MMCFD.

Estimated water - 1800 bbls per day.

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Completion Report

Northeast Blanco Unit No. 459 - Basin Fruitland Coal

LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W  
San Juan County, New Mexico

8-04-90 7" casing at 3061'; open hole 3061-3340'.

Circulating and working pipe at TD with 1.4 MM air and 2 BPM water.

Circulate and work pipe at TD with .7 MM air and 1 BPM water. Returns moderate 1/4" and less coal (95%), shale and siltstone in gray water.

Circulate and work pipe at TD with 1.4 MM air and 5 BPM water, reducing pump rate 1/2 bbl every 2 hrs. Returns heavy coal (95%) 1/2" and less, shale and siltstone in black water with heavy floating coal dust.

Circulate and work pipe at TD with 1.4 MM air and 2 BPM water with 10-15 bbl water sweeps when pipe became sticky. Returns moderate 1/4" coal (95%), shale and siltstone in gray water. On sweeps returns heavy 1/2" and less coal (95%), shale and siltstone in black water with heavy floating coal dust.

Estimated water - 1400 bbl per day

Estimated gas - 3 MMCF per day

8-05-90 Circulating and working pipe at TD with 1.4 MM air and 1/2 BWPM.

Circulate and work pipe at TD with 1.4 MM air. Reduce pump rate from 2 BPM to 1/2 BPM by 1/2 BPM every two hours alternating 5, 20, 10 and 15 bbl water sweeps every hour. Returns moderate 1/4" and less coal (95%), shale and siltstone in gray water. On sweeps, heavy coal 1/2"

NEBU #459 - Completion Report  
August 6, 1990

8-05-90

(con't.) and less and coal dust in black water. Pipe sticky, stuck at 10 am, 1 pm, 5 pm and 11 pm. Work pipe free and clean up with 2.1 MM air and 20 bbl water sweeps. Returns heavy coal and heavy coal dust in black water. Gas increased after each clean up.

Estimated gas - 6-8 MMCFPD  
Water Gauge - 2057 BPD

8-06-90 Circulating and working pipe at TD with 2.1 MM air and 1/2 BPM water.

Circulate and work pipe at TD with 2.1 MM air and 1/2 BPM water with 20 bbl sweeps every hour. Returns moderate to light 1/4" and less coal and floating coal dust in black water. Pipe sticky and stuck at 9 am, 2 pm and 10 pm. Work pipe loose, ran 4 20 bbl water sweeps after freeing pipe to clean hole. Returns on sweeps heavy 1/2" coal in heavy viscous black water.

Estimated gas - 8-9 MMCFPD  
Hauled 1200 bbl water to Southwest disposal.

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Completion Report

Northeast Blanco Unit No. 459 - Basin Fruitland Coal

LOCATION: 2505' FNL, 1810' FEL  
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San Juan County, New Mexico

8-07-90 Circulating and working pipe at TD with 2.1 MM air and 20 bbls sweeps each hour.

Circulate and work pipe at TD with 2.1 MM air and 1/2 BPM water and 20 bbl sweeps each hour. Returns very light coal (90%) with floating coal dust in black to gray water. Hole sticky, pipe stuck.

Pipe stuck with full returns.

Shut well in pressure built to 500 psi, pipe came free. Release pressure through choke.

Shut in well, take part of blooie line down to clean coal from blow pit with back hoe.

Circulate and work pipe at TD with 2.1 MM air and 2 BPM water with 20 bbl sweeps hourly. Returns light 1/8" and smaller coal in clear water on sweeps returns moderate 1/4" and smaller coal in black water.

Hauled 1020 water away in last 24 hours.

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Completion Report

Northeast Blanco Unit No. 459 - Basin Fruitland Coal

LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W  
San Juan County, New Mexico

8-08-90 Circulating and working pipe at TD with 2.1 MM air and 1/2 BPM water with 20 bbls sweeps hourly.

Circulate and work pipe at TD with 2.1 MM air and 2-3 BPM water with 20 bbl sweeps hourly. Returns light 1/8" and smaller in clear water on sweeps, 1/8" and smaller in gray water.

Circulate and work pipe at TD with 2.1 MM air and 2 BPM water reducing 1/2 bbl each hour with 20 bbl sweeps hourly. Returns light 1/8" and smaller coal in clear water, on sweeps same returns in gray water.

Circulate and work pipe at TD with 2.1 MM air and 1/2 BPM with 20 bbl sweeps hourly. Returns light 1/8" and smaller in clear water, on sweeps same returns in gray water.

Lay down 9 jts of 3-1/2" drill pipe, run pitot test #1 for 1 hour. TIH. RIH with no fill, stuck pipe at TD. Ran 20 bbl sweeps, well unloaded heavy 1/4" and smaller coal for 5 min.

Circulate and work pipe at TD with 2.1 MM air and 2 BPM water with 20 bbl sweeps reducing 1/2 BPM each hour to 1/2 BPM water. Returns light 1/8" and smaller coal in clear water. Returns moderate 1/4" and smaller coal in clear to gray water.

Pitot test #1: 1/4 hr - 30 psi; 5.59 MMCF; 1/2 hr - 32 psi, 5.856 MMCF; 3/4 hr - 34 psi, 6.133 MMCF; 1 hr - 34 psi, 6,133 MMCF (all gauges wet).

Hauled 1480 bbl water last 24 hours.

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Completion Report

Northeast Blanco Unit No. 459 - Basin Fruitland Coal

LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W  
San Juan County, New Mexico

8-09-90 Wait on daylight to snub 5-1/2" liner in hole.

Circulate and work pipe at TD with 2.1 MM air and 1/2 BPM water with 20 bbl sweeps hourly. Returns light 1/8" and smaller coal (98%) in clear water. On sweeps returns moderate to light 1/8" coal in gray water.

Load well with water through adjustable choke. Final surface pressure - 200 psi.

Pull 10 stands, land 3-1/2" drill pipe in #1 rams. Rig up Cudd pressure control, circulate across stack with 200 psi.

Strap out of hole with 3-1/2" drill pipe. Lay down drill collars.

Wait on daylight.

Hauled 1040 bbls water from location in 24 hrs.

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Completion Report

Northeast Blanco Unit No. 459 - Basin Fruitland Coal

LOCATION: 2505' FNL, 1810' FEL  
Section 19, T31N, R7W  
San Juan County, New Mexico

8-10-90 Mill on plugs at 3180'.

Wait on liner hanger.

Pick up V shoe, snub 5-1/2" liner in hole. Pick up liner hanger, OAL 416.19'. RIH with 96 jts 3-1/2" drill pipe. Fill liner and every row of 3-1/2" drill pipe with water.

Pick up swivel and circulate to TD at 3382'. No fill, set hydraulic hanger with 2000 psi and release setting tool with 2600 psi.

Rig down Cudd pressure control, nipple down stripping stack and lay down 3-1/2" drill pipe.

Change rams to 2-7/8", rig up to run tubing, rabbit tubing. Pick up tubing, tag top perfs to 3043'. Mill perfs from 3043'-3180'.

Ran 11 jts 5-1/2" (405.09') 23#, L-80, LT&C USS casing with hanger 416.19' set at 3382' with baker V shoe on bottom. Top of Baker FLP-R hydraulic 7" X 5-1/2" liner hanger at 2971.15'.

Liner overlap 90.15'. Perf intervals 3043.39'-3064.67', 3106.94'-3275.56', 3339.98'-3380'. 8 HPF.

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Location: 2505' FNL, 1810' FEL  
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San Juan County, New Mexico

8-11-90 Mill on plugs from 3180' to 3380' through 3/4" fixed choke.

Lay down 4 jts tubing, hang off donut in tubing head. Nipple down BOP and nipple up tree. Drop ball and pump off expendable mill. Check valve and flow back - OK.

Rig down and wait on daylight to move.

Released rig 12:00 midnight, 8-10-90.