

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Submit in Duplicate*

5. Lease Designation & Serial #: SF 079-045
6. If Indian, Allottee/Tribe Name
7. Unit Agreement Name: Northeast Blanco Unit
8. Farm or Lease Name: Northeast Blanco Unit
9. Well No.: 408
10. Field and Pool, or Wildcat: Basin Fruitland Coal
11. Sec., T., M., or Block and Survey or Area: Sec. 20, T31N, R7W
12. County or Parish: San Juan
13. State: NM

WELL COMPLETION OR RECOMPLETION AND LOG RECEIVED

1a. Type of Well: oil well ☐ gas well ☒ dry ☐ other ☐
b. Type of Completion: new well ☒ work over ☐ deepen ☐
plug back ☐ diff. resvr. ☐ other ☐

2. Name of Operator: Blackwood & Nichols Co., Ltd.
3. Address of Operator: P.O. Box 1237, Durango, Colorado 81302-1237

4. Location of Well: (Report location clearly, in accordance with any State requirements)*

At surface
At top prod. interval reported below 1035' FNL, 1305' FEL
At total depth

Permit No.: 30-045-27331

15. Date Spudded: 11-08-89 16. Date TD Reached: 11-15-89 17. Date Compl. (ready to produce): 11-28-89 18. Elev. (DF, RKB, RT, GR, Etc)* 6445' GL 19. Elev. Csgd. 0000'

20. Total Depth, MD & TVD: 3344' 21. Plug Back TD, MD & TVD: 3224' 22. If Mult. Comp.: How Many* N/A 23. Intervals Drilled By: Rotary Tools TD Cable Tools No

24. Producing Interval(s), of this completion - Top, Bottom, Name (MD and TVD)*: Fruitland Basin Coals, open hole completion from 3035' to 3224' 25. Was Directional Survey Made? Yes

26. Type Electric and Other Logs Run: Mud Log 27. Was Well Cored? No

28. CASING RECORD (Report all strings set in well)

Casing Size	Weight, LB/FT	Depth Set (MD)	Hole Size	Cementing Record	Amount Pulled
9.625"	36# J-55	314'	12.25"	266 cf of Class B	16 Bbls Circ. Cement
7.000"	23# I-80	3035'	8.75"	714 cf of Class G 65/36, 6	20 Bbls Circ. Cement
				144 cf of Class B	3 Bbls Circ. Cement

LINER RECORD

TUBING RECORD

Size	Top (MD)	Bottom (MD)	Sacks Cmt*	Screen (MD)	Size	Depth Set (MD)	Packer Set (MD)
5.50"	2949'	3223'	None	N/A	2.875"	3110'	N/A

31. Perforation Record (Interval, size and number):

8 HPF, 0.625" ID
3039' - 3059'
3119' - 3202'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval (MD) Amount and Kind of Material Used
3035' - 3224' Natural, stress relieved the coal zones.

33. PRODUCTION

Date First Production: Waiting on pipeline Production Method (Flowing, gas lift, pumping-size and type of pump): Flowing during completion operation, wet gauge Well Status (shut-in): Shut-in

Date of Test: 11-28-89 Hours Tested: 1 Hrs. Choke Size: 2" Prod'n For Test Period: Oil-Bbl 0.00 Gas-MCF 0.00 ACCEPTED 0.00 Gas-Oil Ratio 0.00

Flow. Tubing Press: N/A 450 Casing Pressure: N/A 1150 Calculated 24 HR Rate: Oil-Bbl Gas-MCF 2039 Water-Bbl 480 Bbls Oil Gravity-API 8 1990

34. Disposition of Gas (Sold, used for fuel, vented, etc): Vented Test Witnessed By: J. Boncher

35. List of Attachments: Cement Plug from 3224' to 3344' in 6-1/4" open hole, 58 cf Class G.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
Signed: William F. Clark William F. Clark Title: Operations Manager Date: 16 Jan 90

(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC
No Electric Logs run; only a Mud Log			through the Fruitland Coal Zones:
Fruitland Coal Zones:	3042'	3049'	
	3124'	3129'	
	3132'	3134'	
	3139'	3141'	
	3144'	3165'	
	3171'	3172'	
	3201'	3204'	

RECEIVED
FEB 13 1990
OIL CON. DIV.
DIST. 3

38. GEOLOGICAL MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEP.
Ojo Alamo	2240' *	
Kirtland	2360' *	
Fruitland	2930' *	
* Inferred from offset Well Logs		