

160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Submit in Duplicate*

WELL COMPLETION OR RECOMPLETION AND LOG *

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

At total depth

Permit No.: 30-045-27509

5. Lease Designation & Serial #: SF-078988

6. If Indian, Allottee/Tribe Name

7. Unit Agreement Name:
Northeast Blanco Unit

8. Farm or Lease Name:
Northeast Blanco Unit

9. Well No.:
460

10. Field and Pool, or Wildcat:
Basin Fruitland Coal

11. Sec., T., M., or Block and
Survey or Area:

12. County or Parish: San Juan 13. State: NM

15. Date Spudded: 5-4-90 16. Date TD Reached: 6-8-90 17. Date Compl. (ready to produce): 6-15-90 18. Elev. (DF, RKB, RT, GR, Etc)* 6395' KB 19. Elev. Csgd. 6381' GL

20. Total Depth, MD & TVD: 3326' 21. Plug Back TD, MD & TVD: 3326' 22. If Mult. Comp.: How Many* N/A 23. Intervals Drilled By: TD 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 2957' to 3326' 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# K-55	310'	12.25"	295 cf of Class B Neat	22 Bbls Circ. Cement
7.000"	23# K-55	2957'	8.75"	726 cf 65/35 Poz Mix	
				148 cf of Class G	19 Bbls Circ. Cement

LINER RECORD

TUBING RECORD

Size	Top (MD)	Bottom (MD)	Sacks Cmt*	Screen (MD)	Size	Depth Set (MD)	Packer Set (MD)
5.500"	2864'	3324'	None	N/A	2.875"	3242'	N/A

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

5.5" Uncemented Pre-perfed Liner
2956-2979'; 3000-3022';
3063-3107' (8 HPF, 0.625)

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

Depth Interval (MD)	Amount and Kind of Material Used
2957' - 3326'	Natural stress relieved the coal zones.

33. PRODUCTION

Date of Production: Well on pipeline		Product Flow: Flowing completion operation, damp gauge		Method (Flowing, gas lift, pumping-size and type of pump):			Well Status (shut-in): Shut-in	
Date of Test: 6-12-90	Hours Tested: 1 Hr.	Choke Size: 2" pitot	Prod'n For Test Period:	Oil-Bbl N/A	Gas-MCF N/A	Water-Bbl N/A	Gas-Oil Ratio N/A	
Flow. Tubing Press: 280 psig	Casing Pressure: 1380 psig	Calculated 24 HR Rate:	Oil-Bbl N/A	Gas-MCF 970 MCF	Water-Bbl 138 Bbl	Oil Gravity-API N/A		

34. Disposition of Gas (Sold, used for fuel, vented, etc): Vented Test Witnessed By: JAN 07 1991

35. List of Attachments:

36. I hereby certify that the foregoing and attached information in complete and correct as determined from all available records
Signed: R.W. Williams Roy W. Williams Title: Administrative Manager Date: 11/28/90

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

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.

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):				38. GEOLOGICAL MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
NEBU# 460 Fruitland Coal Zones:	2979'	2981'	RECEIVED JAN 18 1991 OIL CON. DIV DIST. 3	PC Tongue	3224'	
	3024'	3025'		Main PC	3325'	
	3085'	3098'				
	3100'	3111'				
	3143'	3152'				
	3166'	3168'				
	3210'	3213'				
	3222'	3223'				
	3319'	3324'				