

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

Form approved 80-67-14345
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐
2. NAME OF OPERATOR: Blackwood & Nichols Co., Ltd.
3. ADDRESS OF OPERATOR: P. O. Box 1237, Durango, CO 81302
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):
At surface 215' FSL - 740' FEL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: SF 079043
6. IF INDIAN, ALLOTTEE OR TRIBAL NAME
7. UNIT AGREEMENT NAME: Northeast Blanco
8. FARM OR LEASE NAME: Northeast Blanco Unit
9. WELL NO.: 421
10. FIELD AND POOL, OR WILDCAT: Basin Fruitland Coal
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 4, T30N, R7W, NMPM
12. COUNTY OR PARISH: Rio Arriba
13. STATE: New Mexico

14. PERMIT NO.: 30-039-24345 DATE ISSUED: OIL
15. DATE SPUDDED: 12-9-88 16. DATE T.D. REACHED: 12-13-88 17. DATE COMPL. (Ready to prod.): 1-10-89 18. ELEVATIONS (OF, RKB, RT, OR, ETC.): 6211' GL
19. ELEV. CASINGHEAD
20. TOTAL DEPTH, MD & TVD: 3318' 21. PLUG, BACK T.D., MD & TVD: 3274' 22. IF MULTIPLE COMPL., HOW MANY? 23. INTERVALS DRILLED BY: ROTARY TOOLS: Yes CABLE TOOLS:
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 2912' - 3095'; Coal
25. WAS DIRECTIONAL SURVEY MADE: No
26. TYPE ELECTRIC AND OTHER LOGS RUN: Gamma Ray-Induction, Density, Neutron, VDL-CBL-CCL
27. WAS WELL CORDED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36.0	310'	12-1/4"	295 cf Class B neat	
5-1/2"	17.0	3315'	7-7/8"	152 cf Class B	
				689 cf Class B	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	3147'	

31. PERFORATION RECORD (Interval, size and number): 2912-2932'; 2932-2954'; 2964-2972'; 3086-3095'; .48"; 236 total holes
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
3086-3095' 20,250 gal. 30# X-link borate gel
6,000# 40/70 sand; 32,400# Brady sand
2912-2972' 96,936 gal. 30# X-link gel
26,600# 40/70 sand; 220,000# 12/20 Brady sand

33. PRODUCTION
DATE FIRST PRODUCTION: Not connected PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)
WELL STATUS (Producing or shut-in): Shut-in
DATE OF TEST: 2-14-89 HOURS TESTED: 24 CHOKE SIZE: 54/64 PROD'N. FOR TEST PERIOD: 0 OIL—BBL.: 0 GAS—MCF.: 844 WATER—BBL.: 872 OAR-OIL RATIO: NA
FLOW. TUBING PRESS.: 260 CASING PRESSURE: SICP - 1340 CALCULATED 24-HOUR RATE: 0 OIL—BBL.: 0 GAS—MCF.: 844 WATER—BBL.: 872 OIL GRAVITY-API (CORR.): NA

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Vented
TEST WITNESSED BY: ACCEPTED FOR RECORD

35. LIST OF ATTACHMENTS
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED: William F. Clark TITLE: Operations Manager DATE: March 17, 1989

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.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2008'	2195'	Sandstone, water	Ojo Alamo	2008'	NA
Fruitland	2770'	3098'	Shale, siltstone, coal, water, hydrocarbon	Kirtland	2195'	NA
Pictured Cliffs	3098'	TD @ 3318'	Sandstone, water	Fruitland	2770'	NA
No cores No DST				Pictured Cliffs	3098'	NA

38. GEOLOGIC MARKERS