

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE\*

NMOCO

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐ 2002 OCT 31 PM 3:39

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☒ OTHER ☐ 670 PM 10/31/02

2. NAME OF OPERATOR  
Richardson Operating Company

3. ADDRESS AND TELEPHONE NO.  
3100 La Plata Highway, Farmington, New Mexico 87401 Mr. Drew Carnes

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface  
1300' FNL & 1230' FEL  
At top prod. interval reported below  
At total depth

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-603-2198

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.  
Navajo 13 Well No. 1

9. API WELL NO.  
30-045-30652

10. FIELD AND POOL, OR WILDCAT  
Basin Fruitland Coal

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec 13, T29N, R14W

12. COUNTY OR PARISH  
San Juan

13. STATE  
New Mexico

15. DATE SPURRED  
2/19/02

16. DATE T.D. REACHED  
2/22/02

17. DATE COMPL. (Ready to prod.)  
8-5-02

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
5240' GL

19. ELEV. CASINGHEAD  
5430'

20. TOTAL DEPTH, MD & TVD  
1010'

21. PLUG BACK T.D., IF ANY  
1002'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY  
ROTARY TOOLS  
CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\*  
782' - 896', Basin Fruitland Coal

25. WAS DIRECTIONAL SURVEY MADE  
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Compensated Neutron Log

24. WAS WELL CORED  
No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
7"	20#	120'	8 3/4"	Surface, 30 sx	Circ 5 bbls cmt
4 1/2"	10.5#	1040' / 1006	6 1/2"	Surface, 116 sx	Circ 8 bbls cmt

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	898'	

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
782' - 785', 0.38", 12 holes				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
815' - 816', 0.38", 4 holes				782' - 896'	500 gal 7 1/2% HCL, 37400#s 20/40
877' - 881', 0.38", 16 holes					Brady Sd, 3600#s 14/40 Flex Sd &
894' - 896', 0.38", 8 holes					20459 gals Viking I-25

33.\*

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)

WELL STATUS (Producing or shut-in)

DATE OF TEST

HOURS TESTED

CHOKE SIZE

PROD'N. FOR TEST PERIOD

OIL-BBL.

GAS-MCF.

WATER-BBL.

GAS-OIL RATIO

Ltr Attached

FLOW. TUBING PRESS.

CASING PRESSURE

CALCULATED 24-HOUR RATE

OIL-BBL.

GAS-MCF

WATER-BBL.

OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

35. LIST OF ATTACHMENTS  
Letter Re: Well Test

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED Charles Hueley TITLE Agent DATE 10/31/02

**ACCEPTED FOR RECORD**

TEST WITNESSED BY

NOV 6 2002

**FARMINGTON FIELD OFFICE**

NMOCDD

*Navajo 13 #1*

37. SUMMARY OR POROUS ZONES: (Show all important zones or 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):

GEOLOGIC MARKERS

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FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Kirtland	Surface	590'		Kirtland	Surface	
Fruitland Coal	590'	896'		Fruitland	590'	
Pictured Cliffs	897'	Log TD @ 1002'		PC	897'	
				Log TD	1002'	

**NEELEY CONSULTING SERVICE**

1305 E. 33<sup>rd</sup> Street  
FARMINGTON, NEW MEXICO 87401  
(505) 486-0211

Bureau of Land Management  
1235 LaPlata Highway  
Farmington, New Mexico 87401

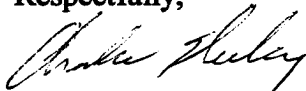
Date: October 31, 2002

Re: Well Test Data – Richardson Operating Company – Basin Fruitland Coal Wells.

To Whom It May Concern:

In a meeting attended by BLM (Mr. Jin Lovato), NMOCD and Richardson Operating Company, it was agreed that well test information would be submitted via Sundry Notice to the respective agencies, once a well is producing and rates are established.

Respectfully,



Charles Neeley, PE  
Agent