

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other In-  
structions on  
reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

SF-078095

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Case "B"

WELL NO.

#21

FIELD AND POOL, OR WILDCAT

Basin Fruitland Coal Gas

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 18, T31N R11W

12. COUNTY OR PARISH  
San Juan

13. STATE  
NM

**RECEIVED**

**APR 08 1991**  
**OIL CON. DIV.**  
**DIST. 3**

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: Coal Seam  
NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR

Amoco Production Co.

Atten. John \_\_\_\_\_

3. ADDRESS OF OPERATOR

P.O. Box 800, Denver, CO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 1670' FNL, 1170' FEL, SE/NE H

At top prod. interval reported below

At total depth

14. PERMIT NO. 30-045-27777  
DATE ISSUED 5/2/90

15. DATE STUDDED 11/17/90  
16. DATE T.D. REACHED 11/20/90  
17. DATE COMPL. (Ready to prod.) 1/27/90  
18. ELEVATIONS (OF, RKB, RT, GR, ETC.)\* 6217' GR  
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 2992'  
21. PLUG, BACK T.D., MD & TVD 2976'  
22. IF MULTIPLE COMPL., HOW MANY\*  
23. INTERVALS DRILLED BY  
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
25. WAS DIRECTIONAL SURVEY MADE  
26. TYPE ELECTRIC AND OTHER LOGS RUN  
27. WAS WELL CORED

2523'-2790' Fruitland Coal

Caliper, Density, Gamma Ray, Micro logs

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	248'	12 1/4"	210sx Cl B Ashgrove	0
5 1/2"	17#	2989'	7 7/8"	(1st stg.) 72sx Cl G Dowell	0
		65/35 poz, tail W/ 200sx Cl G Dowell,		(2nd stg.) 370sx Cl G Dowell	65/35 poz,
		tail W/ 60 sx Cl G Dowell.			

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	2610'	

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
See Attached		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		See Attached	

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
1/11/91		Flowing				SI/WOP Pipeline	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1/27/91	24	24/64	→	0	340		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER	OIL GRAVITY-API (CORR.)	
310	360	→	0	340			

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

35. LIST OF ATTACHMENTS  
Peff and Frac info., Cement Reports

36. I hereby certify that the foregoing and attached information is complete and correct as determined by all available records  
SIGNED J. Hampton/CB TITLE Sr Staff Admin. Supv DATE 3/12/91

**ACCEPTED FOR RECORD**  
APR 27 1991  
FACILITY RESOURCE AREA

\*(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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Fruitland Pictured Cliffs	2444' 2807'	

Perf: 1/4/91

2523'-2525', W/8 JSPF, .5" diam., 16 shots open.  
2558'-2561', W/8 JSPF, .5" diam., 24 shots open.  
2565'-2568', W/8 JSPF, .5" diam., 24 shots open.  
2607'-2611', W/8 JSPF, .5" diam., 32 shots open.  
2618'-2620', W/8 JSPF, .5" diam., 16 shots open.  
2715'-2721', W/8 JSPF, .5" diam., 48 shots open.  
2723'-2726', W/8 JSPF, .5" diam., 24 shots open.  
2766'-2790', W/8 JSPF, .5" diam., 192 shots open.

Frac: 3/12/91. 2523-2790'

Frac down casing with 184,400gal slick water, 10000# 40/70 Brady sn,  
56000# 20/40 Brady sn, AIR 90BPM, AIP 2250psi.

1/11/91 Frac down casing with 151000 slick water, 12000# 40/70 Brady sn,  
AIR 92 BPM, AIP 2200psi.

1/12/91 Remedial Cement

Perf from 620-621 W/2 JSPF, .5" diam., 2 shots Closed.

TIH W/5½" CIBP, SA 640'.

Press Test Plug to 1500 psi W/ rig pump- Held OK.

TIH W/4" CSG. gun and perforate at 620'.

TIH W/5½" fullbore PKR and SA 419' and press. CSC to 1000psi,  
pumped 3BBLs fresh water down TBG (full returns), Followed by 31 BBLs  
slurry Class B cmt. W/3% Calcium Chloride. Lost returns after 1.5 BBLs  
slurry circulated to pit. Displace W/4 BBLs fresh water to 520', Max press-  
1000psi, Press. on TBG after shut in -500psi. Total Cmt pumped 150 sx,  
Cmt circ to pit - 7sx.

Tagged cmt @ 522', Drilled out to 640'.

pressure tested CSG to 1500psi. Held. Drilled out CIBP @ 640'.