

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NGFA
SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. GENVR. ☐ Other ☐

RECEIVED

JUL 10 1985

2. NAME OF OPERATOR
BCO, Inc.
3. ADDRESS OF OPERATOR
135 Grant Avenue, Santa Fe, New Mexico 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface
800' FSL 1840' FEL, Sec 21, T24N, R7W, NMPM; Rio Arriba County
At top prod. interval reported below Same
At total depth Same

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15. DATE SPUDDED 5/23/85 16. DATE T.D. REACHED 5/30/85 17. DATE COMPL. (Ready to prod.) 7/1/85 18. ELEVATION (DF, RKB, RT, CR, ETC.)* 6875 GR 19. ELEV. CASINGHEAD 6878
20. TOTAL DEPTH, MD & TVD 5800 21. PLUG BACK T.D., MD & TVD 5782 22. IF MULTIPLE HOW MANY* DIST. 3 23. INTERVALS DRILLED BY XX 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5478 - 5701 Gallup 25. WAS DIRECTIONAL SURVEY MADE Yes - Filed

26. TYPE ELECTRIC AND OTHER LOGS RUN Cement Bond Log Computer Laser; Induction Log and Compensated Density Dual Spaced Neutron 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
8 5/8" J-55 24# 223' 12 1/4" 165 Sacks Class B
4 1/2" N-80 11.6# 5797' 7 7/8" 1475 Sacks Class H

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" 5698

31. PERFORATION RECORD (Interval, size and number)
One 3 1/8" select fire shot at 5701;
5680; 5675; 5670; 5665; 5660; 5556;
5550; 5540; 5534; 5484; 5478
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
5478-5701 1500 gal. acid; 231,000#'s of sand; 2,923,250 SCF nitrogen; 136,460 foam gallons.

33. PRODUCTION
DATE FIRST PRODUCTION 7/1/85 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flow WELL STATUS (Producing or shut-in) Producing
DATE OF TEST 7/8/85 HOURS TESTED 24 CHOKE SIZE 24/64 PROD'N. FOR TEST PERIOD 24 OIL—BBL. 72 GAS—MCF. 2 Frac WATER—BBL. 3000 GAS-OIL RATIO
FLOW, TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)
300 to 290 500 to 425 24 72 2 Frac 40

34. DISPOSITION OF GAS Gas to be sold through BCO Kenney Compressor. First delivery to be made when well stops making nitrogen. TEST WITNESSED BY Ernest Romero

35. LIST OF ATTACHMENTS
All previously sent.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.
SIGNED Elizabeth B. Keeshan TITLE Comptroller DATE 7/8/85

*(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.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Depths reported were measured when open hole logs were run:		
				Ojo Alamo	1450.	1450
				Kirtland	1594.	1594
				Fruitland	1952.	1952
				Pictured Cliffs	2106.	2106
				Chacra	2548.	2548
				Cliff House	3666.	3666
				Menefee	3706.	3706
				Point Lookout	4418.	4418
				Mancos	4642.	4642
				Gallup	5470.	5470
				Skelly	5526.	5526
				Mayre	5658.	5658

38. GEOLOGIC MARKERS

Attachment to Form 3160-4

Federal 3-21 #4.

(Well Name)

Sec 21 T24N R7W

NM-0557390.

(Lease Number)

The following summarizes the cement job on the above well as required by item 25 of 3160-4 and the approved APD.

8 5/8 -- Surface 223 -surface. 165 sacks Class B 2% CaCl, 1/4# flocele, mixed at 15.5#'s with a yield of 1.18 or 195 cubic feet. Cement circulated and top is therefore at the surface.

4 1/2 -- Stage 1 T.D. to 4960: Ran 10 barrels mud flush. 175 sacks Class H 2% CaCl, 8# salt, 1/2 flocele, 6 1/4# gilsonite. Mixed at 15.2 #. Yield 1. 36 cubic feet per sack or a total of 238 cubic feet. Cement was not designed to circulate above DV tool. It did not circulate above DV tool. Top of cement is 4960.

4 1/2 -- Stage 2 4770 to surface. Ran 10 barrels of water, 1000 gallons of Flo Check, 5 barrels of water. 1300 sacks of 65/35 Class H, 3% gel, 12 1/2 gilsonite, 5.6# salt, 8.2# Calseal. Mixed at 13.35 pounds. Yield 1.68 cubic feet per sack or a total of 2184 cubic feet. Cement was designed to circulate. It circulated 86 Bbls. of cement.