

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Submit in duplicate*

(See other instructions on reverse side)

Subject 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 ☐		2. NAME OF OPERATOR BCO, INC.		3. ADDRESS OF OPERATOR 135 Grant Ave., Santa Fe, N.M. 87501		4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 480 FNL and 1980 FEL; Sec 2 T22N R8W NMPM At top prod. interval reported below same At total depth same		5. LEASE DESIGNATION AND SERIAL NO. NM-048989-A		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		7. UNIT AGREEMENT NAME		8. FARM OR LEASE NAME Federal G		9. WELL NO. 2		10. FIELD AND POOL, OR WILDCAT Alamito Gallup		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 2 T22N R8W NMPM		12. COUNTY OR PARISH San Juan		13. STATE New Mexico	
15. DATE STUDDERED 7/5/88		16. DATE T.D. REACHED 7/10/88		17. DATE COMPL. (Ready to prod.) 7/30/88		18. ELEVATIONS (DP, RKB, RT, CR, ETC.)* GR 6850		19. ELEV. CASINGHEAD 6853		20. TOTAL DEPTH, MD & TVD 5000		21. PLUG, BACK T.D., MD & TVD 4968		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY →		ROTARY TOOLS XX		CABLE TOOLS		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4620 - 4882 Gallup		25. WAS DIRECTIONAL SURVEY MADE Yes - filed with OCD 7/13/88	
26. TYPE ELECTRIC AND OTHER LOGS RUN Cement Bond Log Dual Induction-SFL, Compensated Neutron-Litho Density		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		23 #		225		12 1/4		155 Sacks Class B																	
4 1/2		11.6#		4997		7 7/8		950 Sacks																	
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		4876													
31. PERFORATION RECORD (Interval, size and number) 0.39" one at 4620, 4624, 4724, 4729, 4734, 4760, 4801, 4816, 4852, 4882												32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.													
												Depth Interval (MD)		Amount and Kind of Material Used											
												4620-4882		1500 gallons 15% HCL											
														147,270 gallons 70% foam											
														370,000 #20-40 sand											
														3,005,391 scf nitrogen											
33. PRODUCTION																									
Date First Production 7/30/88				Production Method (Flowing, gas lift, pumping—size and type of pump) Gas lift										Well Status (Producing or shut-in) Producing											
Date of Test 8/16/88		Hours Tested 24 hrs		Choke Size 33/64		Prod'n. for Test Period →		Oil—BBL 43		Gas—MCF 161		Water—BBL 12 bbls re-covered frac		Gas-Oil Ratio 3750											
Flow, tubing press. 400		Casing Pressure 580		Calculated 24-Hour Rate →		Oil—BBL 43		Gas—MCF 161		Water—BBL 12		Oil Gravity-API (CCR.) 40													
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold												35. LIST OF ATTACHMENTS													

FARMINGTON RESOURCE AREA

*(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 of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SIGNED Elizabeth B. Keeshan TITLE Vice President

DATE 8/18/88

ACCEPTED FOR RECORD
R. Ramirez AUG 24 1988

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.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TOP TRUE VEPT. DEPTH
38.				Ojo Alamo	570	570
				Kirtland	710	710
				Fruitland	928	928
				Pictured Cliffs	1248	1248
				Chacra	1583	1583
				Cliff House	2694	2694
				Menefee	2752	2752
				Pt. Lookout	3604	3604
				Mancos	3752	3752
				Gallup	4450	4450
				Skelly (member of Gallup)	4600	4600
				Mayre (member of Gallup)	4720	4720

ATTACHMENT TO FORM 3160-4

G-2

(Well Name)

Sec 2 T22N R8W NMPM

(Sec, T, R)

NM-048989-A

(Lease No.)

The following summarizes the cement job on the above well as required by item 28 of 3160-4 and the approved APD.

.8-5/8" surface casing 225' to surface. 155 sacks
Class B 2% CaCl, 1/4# flocele per sack mixed at 15.6 lbs with a yield
of 1.18 or 183 cubic feet. Cement circulated to surface.

4½" casing 5000' to surface. The lead cement was 800 sacks
Class H /PozMix A cement mixed with 3% gel, 12½# Gilsonite per sack,
10% salt, 10% calseal mixed at 13.0 # per gallon with a yield of 1.78
cubic feet per sack or 1424 cubic feet. The tail cement was 150 sacks
Class H with 2% CaCl, 8 lbs salt per sack, 1/2 lb flocele per sack, 6½#
Gilsonite per sack mixed at 15.2 lbs with a yield of 1.38 cubic feet
per sack or 207 cubic feet. Cement was designed to circulate. It
circulated about 47 barrels of good cement.