

(November 1983)
(formerly 9-330)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. 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 2020 FNL 900 FWL Sec 22 T23N R7W NMPM At top prod. interval reported below Same. At total depth Same.		14. PERMIT NO. 30-043-20837		DATE ISSUED JUL 13 1990		5. LEASE DESIGNATION AND SERIAL NO. NM 6682		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		7. UNIT AGREEMENT NAME		8. FARM OR LEASE NAME Federal B		9. WELL NO. 9		10. FIELD AND POOL, OR WILDCAT Lybrook Gallup		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 22 T23N R7W NMPM		12. COUNTY OR PARISH Sandoval		13. STATE New Mexico	
15. DATE SPUDDED 3/3/90		16. DATE T.D. REACHED 3/9/90		17. DATE COMPL. (Ready to prod.) 6/15/90		18. ELEVATIONS (OF, RKB, RT, GR, ETC.)* 7410' GL		19. ELEV. CASINGHEAD 7413		20. TOTAL DEPTH, MD & TVD 5950		21. PLUG BACK T.D., MD & TVD 5882		22. IF MULTIPLE COMPL., HOW MANY* N/A		23. INTERVALS DRILLED BY XX		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5624 - 5854 Gallup		25. WAS DIRECTIONAL SURVEY MADE yes - submitted to OCD 3/12/90		26. TYPE ELECTRIC AND OTHER LOGS RUN Induction Guard Log, Spectral Density DSNII Log, CBI		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"		24#		228		12 1/4"		155 sacks																					
4 1/2"		11.6#		5939		7 7/8"		1150 sacks																					
29. LINER RECORD																													
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		30. TUBING RECORD																			
										SIZE		DEPTH SET (MD)		PACKER SET (MD)															
										2 3/8"		5835																	
31. PERFORATION RECORD (Interval, size and number)														32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.															
One 3 1/8: 0.39" select fire shot at 5624; 5732, 5736. One 3 1/8" 0.32" select fire shot at 5752, 5819; 5834, 5854.														DEPTH INTERVAL (MD) 5624 - 5854 AMOUNT AND KIND OF MATERIAL USED 1000 gallon 7 1/2% FEHCL 149,000 gallons 70% foam 318,000 # 20-40 sand 2,818,828 SCF N ₂															
33. PRODUCTION																													
DATE FIRST PRODUCTION 6/15/90		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing										WELL STATUS (Producing or shut-in) Producing																	
DATE OF TEST 6/19/90		HOURS TESTED 24		CHOKE SIZE 21/64		PROD'N. FOR TEST PERIOD →		OIL—BBL. 40		GAS—MCF. 440		WATER—BBL. 10 recovered		GAS-OIL RATIO 11000															
FLOW. TUBING PRESS. 160		CASING PRESSURE 480		CALCULATED 24-HOUR RATE →		OIL—BBL. 40		GAS—MCF. 440		WATER—BBL. 10 recovered		OIL GRAVITY-API (CORR.) 40																	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented														35. LIST OF ATTACHMENTS															
36. I hereby certify that the foregoing and attached information is complete and correct as determined from														37. I hereby certify that the foregoing and attached information is complete and correct as determined from															
SIGNED Elizabeth B. Keeshan														TITLE Vice President															
														DATE 6/20/90															

*(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
38. GEOLOGIC MAPS				Ojo Alamo	1704	1704
				Kirtland	1754	1754
				Fruitland	1964	1964
				Pictured Cliffs	2072	2072
				Chacra	2650	2650
				Cliff House	3740	3740
				Menefee	3760	3760
				Pt. Lookout	4562	4562
				Mancos	4732	4732
				Gallup	5454	5454
				Skelly	5611	5611
				Mayre	5729	5729

ATTACHMENT TO FORM 3160-4

Federal B 9

(Well Name)

Sec 22 T23N R7W NMPM

(Sec, T, R)

NM 6682

(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 228 to surface. 155 sacks Class B 2% CaCl₂, 1/4# flocele per sack mixed at 15.6 lbs with a yield of 1.18 or 183 cubic feet. Cement circulated to surface.

4-1/2" casing, Stage 1: T.D. to 4949'. Pumped 20 barrels mud flush and 10 barrels fresh water spacer. Lead cement of the first stage was 50 sacks Class "G" cement mixed with 8 pounds Salt per sack, 6 1/4 pounds Gilsonite per sack, 1/2 pound Flocele per sack mixed at 15.2 pounds with a yield of 1.385 cubic feet per sack or 69 cubic feet (about 12 barrels slurry). The remainder of the first stage cement was 200 sacks Class "G" cement mixed with 2% CaCl₂, 8 pounds Salt per sack, 6 1/4 pounds Gilsonite per sack, 1/2 pound Flocele per sack at 15.2 pounds with a yield of 1.385 cubic feet per sack or 277 cubic feet (about 49 barrels slurry). Washed out pumps and lines. Pumped plug. Plug bumped. Opened DV tool and broke circulation. Circulated 8 barrels slurry off DV tool.

4-1/2" casing, Stage 2: 4949 ' to surface.

Pumped 10 barrels water, pumped 10 barrels CaCl₂ water, pumped 10 barrels water spacer, pumped 20 barrels Flocheck 2-1, pumped 10 barrels water. Pumped 900 sacks of Class "G" 50/50 PozMix mixed with 4% Gel, 10% Salt, 10% CalSeal and 10 pounds Gilsonite per sack at 12.7 pounds with a yield of 1.806 cubic feet per sack or 1625 cubic feet (approximately 290 barrels of slurry). Washed out pumps and lines. Pumped plug. Plug bumped and DV tool closed. DV held. Circulated 85 barrels of slurry to pit.