(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-3177

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: BCO, INC.

8. FARM OR LEASE NAME: Betty B

3. ADDRESS OF OPERATOR: 135 Grant Ave., Santa Fe, N.M. 87501

9. WELL NO.: 2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface
At top prod. interval reported below
At total depth

10. FIELD AND POOL, OR WILDCAT: Lybrook Gallup

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec 15, T23N, R7W, NMPM

RECEIVED
JUL 31 1989
OIL CON. DIV.
DIST. 3

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: Rio Arriba | 13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
6/6/89	6/12/89	7/13/89	7280' GR	7283

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5850'	5833'		→	XX	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5552-5759 Gallup

25. WAS DIRECTIONAL SURVEY MADE: yes-filed with OCD 6/19/89

26. TYPE ELECTRIC AND OTHER LOGS RUN
Induction Guard, Spectral Density and Cement Bond 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"	23#	231'	12 ¼"	155	
4½"	11.6#	5847'	7 7/8"	1350	

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"	5736	

31. PERFORATION RECORD (Interval, size and number)
One 3 1/8" 0.39" select fire shot at 5759, 5746, 5732, 5714, 5669, 5667, 5665, 5558, 5555 and 5552.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5552 - 5759	1250 gallons 15% FE HCL
5552 - 5759	278,000 # 20 - 40 sand
	2,854,400 scf nitrogen
	162,500 70% N_2 foam gallons

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
7/14/89	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/20/89	24	16/64		45	180	none	4000-1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
165	505		45	180	none	40

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented - will sell when all nitrogen cleared out.

TEST WITNESSED BY: Robert Ramirez

35. LIST OF ATTACHMENTS

ACCEPTED FOR RECORD
JUL 27 1989
FARMINGTON RESOURCE AREA
BY

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 Vice President DATE 7/24/89

*(See Instructions and Spaces for Additional Data on Reverse Side)

NMOCD

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

Betty B

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.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	1580	1580
Kirtland	1666	1666
Fruitland	1806	1806
Pictured Cliffs	2112	2112
Chacra	2590	2590
Cliff House	3688	3688
Menefee	3712	3712
Pt. Lookout	4500	4500
Mancos	4652	4652
Gallup	5402	5402
Skelly	5546	5546
Mayre	5662	5662

ATTACHMENT TO FORM 3160-4

Betty B-2
(Well Name)

Sec 15, T23N, R7W, NMPM
(Sec., T, R)

14-20-603-3177
(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 231' 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 5847' to surface. The first stage lead cement was 70 sacks Class G 50/50 /PozMix A cement mixed with 4% gel, 10# Gilsonite per sack, 10% salt, 10% calseal mixed at 12.7 # per gallon with a yield of 1.804 cubic feet per sack or 126 cubic feet. The first stage tail cement was 150 sacks Class G with 2% $CaCl_2$, 8 lbs salt per sack, 1/2 lb flocele per sack, 6½# Gilsonite per sack mixed at 15.2 lbs with a yield of 1.377 cubic feet per sack or 206 cubic feet. DV tool was set at 4829. Top of first stage bond is 4850 with some cement to DV tool. Did not circulate cement after DV tool opened. Second Stage cement was 1130 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 1.804 cubic feet per sack or 2039 cubic feet. Circulated 48 barrels good cement slurry to the pit.