

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

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

(See other instructions on reverse)

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 ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR
BCO, Inc.
3. ADDRESS OF OPERATOR
135 Grant, Santa Fe, NM 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2280' FSL and 780' FEL
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO. _____ DATE ISSUED _____
12. COUNTY OR PARISH Rio Arriba 13. STATE NM

15. DATE SPUDDED 1/2/91 16. DATE T.D. REACHED 1/12/91 17. DATE COMPL. (Ready to prod.) 5/15/91
18. ELEVATIONS (DF. RKB, RT, GB, ETC.)* GL 6978 19. ELEV. CASINGHEAD 6981

20. TOTAL DEPTH, MD & TVD 6486 21. PLUG, BACK T.D., MD & TVD 6482 22. IF MULTIPLE COMPL., HOW MANY* 2 23. INTERVALS DRILLED BY XX ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Undesignated Graneros 6300 - 6400
Dakota 6476.25: abandoned after testing

25. WAS DIRECTIONAL SURVEY MADE Yes - filed with OCD 1/16/91
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction Log, Compensated Density Log, Gamma Ray Cement Bond Log, Cased hole Compensated Neutron log.
27. WAS WELL CORED No

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	360	12 1/4"	350 sacks	
4 1/2"	11.6#	6483	7 7/8"	2075 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"	6377	

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
One 0.32" select fire shot: 6300, 6302, 6304, 6307, 6309, 6338, 6340, 6392, 6396, 6400. 6475.25 abandoned after testing.		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		6300 - 6400 & 6476.25 (abandoned after testing)	500 gallons Fe HCL 198,000# 20-40 Brady sand 92,000 gallons 30# cross-linked gelled water

33.* PRODUCTION							
DATE FIRST PRODUCTION 5/15/91		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Swab to flow				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 6/11/91	HOURS TESTED 24	CHOKE SIZE 30/64	PROD'N. FOR TEST PERIOD	OIL—BBL. 9	GAS—MCF. 18	WATER—BBL. 3	GAS-OIL RATIO 2000 - 1
FLOW. TUBING PRESS. 450	CASING PRESSURE 900	CALCULATED 24-HOUR RATE	OIL—BBL. 9	GAS—MCF. 18	WATER—BBL.	OIL GRAVITY-API (CORR.) 40	

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

35. LIST OF ATTACHMENTS
Cementing report, R-6929 Commingling order

36. I hereby certify that the foregoing and attached information is complete and correct as derived from all available records
SIGNED Elizabeth B. Keeshan TITLE President BY 6/12/91 DATE 6/12/91

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

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, flowing and shut-in pressures, and recoveries);

38. GEOLOGIC MARKERS						
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
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);				Ojo Alamo	1428	1428
				Kirtland	1530	1530
				Fruitland	1670	1670
				Pictured Cliffs	2018	2018
				Chacra	2450	2450
				Cliff House	3490	3490
				Menefee	3532	3532
				Point Lookout	4226	4226
				Manco's	4474	4474
				Gallup	5306	5306
				Greenhorn	6214	6214
				Base of Greenhorn	6274	6274
				Graneros	6292	6292
				Dakota	6470	6470

ATTACHMENT TO FORM 3160-4

Dunn 3-Y
(Well Name)

Sec 3, T23N, R7W
(Sec, T, R)

SF-078272
(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 363' to surface. 350 sacks Class B, 2% CaCl_2 , 1/4# flocele per sack mixed at 15.6 lbs with a yield of 1.18 or 413 cubic feet. Cement circulated to surface. Did not circulate with 250 sacks. Remediated by pumping 100 sacks through 1 1/4" tubing.

4-1/2" casing, Stage 1: T.D. to 5055'. Ran 20 barrels mud flush, 75 sacks Class G mixed with 8 lbs salt per sack, 1/2# flocele per sack, 6 1/4 lbs Gilsonite per sack. Mixed at 15.2 lbs per gallon. Yield 1.377 cubic feet per sack or a total of 103 cubic feet. 400 sacks Class G mixed with 2% CaCl_2 , 8# salt per sack, 6 1/4# Gilsonite per sack, 1/2# flocele per sack, mixed at 15.2# with a yield of 1.377 or 551 cubic feet. Cement was designed to circulate above cement stage tool. Did not see slurry in liquid circulated when opened cement stage tool. Bond log determined top of cement at cement stage tool.

4-1/2" casing, Stage 2: 5055' to surface. Pumped 5 barrels of water, pumped 10 barrels CaCl_2 water, pumped 10 barrels water spacer, pumped 20 barrels Superflush, pumped 10 barrels water. 1600 sacks of 50/50 Class G poz mix mixed with 2% gel, 2% KCL by weight of water, 12# Gilsonite per sack. Mixed at 12.8 lbs per gallon with a yield of 1.46 cubic feet per sack or a total of 2336 cubic feet. Cement was designed to circulate. Circulated 100 barrels slurry.