

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other ☐

2. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other ☐

3. NAME OF OPERATOR

BCO, INC.

4. ADDRESS OF OPERATOR

135 Grant Ave., Santa Fe, N.M. 87501

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 790' FNL & 890' FEL

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO. DATE ISSUED
DIST. 3

6. LEASE DESIGNATION AND SERIAL NO.

NM 6682

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

8. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME

Federal B

10. WELL NO.

7

11. FIELD AND POOL, OR WILDCAT

Lybrook Gallup

12. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 21, T23N, R7W, NMPN

13. COUNTY OR PARISH

Sandoval

14. STATE

New Mexico

15. DATE SPUDDED

5/29/89

16. DATE T.D. REACHED

6/5/89

17. DATE COMPL. (Ready to prod.)

7/5/89

18. ELEVATIONS (DP, RKB, RT, GR, ETC.)*

7390' GL

19. ELEV. CASINGHEAD

7393

20. TOTAL DEPTH, MD & TVD

5900'

21. PLUG BACK T.D., MD & TVD

5880

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)*

5602 - 5810 Gallup

25. WAS DIRECTIONAL SURVEY MADE

Yes - filed with
OCD 6/14/89

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction Guard, Spectral Density & Cement Bond

27. WAS WELL CORED

No

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#	234'	12 1/4"	155 sacks	
4 1/2"	11.6#	5897'	7 7/8"	1350 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"	5796'	

31. PERFORATION RECORD (Interval, size and number)

One select fire 3 1/8" 0.39 shot at 5810, 5797, 5782, 5766, 5744, 5726, 5717, 5714, 5712, 5608, 5605, 5602.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5602-5810	197,119 gallons 70 quality foam.
	410,000 20-40 sand.
	4,030,600 scf nitrogen.
	1700 gallons 15% FE HCL.

33. PRODUCTION

23.

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
7/6/89		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/11/89	24 hours	16/64	→	47	313	31.33 rec frac water	4000
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
210	445	→	47	313	31.33 rec frac water	40	

ACCEPTED FOR DEPOSIT BY

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

Vented (will sell when nitrogen cleans up).

35. LIST OF ATTACHMENTS

FARMINGTON RESOURCE AREA

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

James P. Bennett

TITLE

VP MGR

DATE July 11, 1989

*(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):				38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
				Ojo Alamo	1612		1612
				Kirtland	1712		1712
				Fruitland	1928		1928
				Pictured Cliffs	2152		2152
				Chacra	2624		2624
				Cliff House	3714		3714
				Menefee	3744		3744
				Pt. Lookout	4548		4548
				Mancos	4694		4694
				Gallup	5436		5436
				Skelly	5594		5594
				Mayre	5708		5708

ATTACHMENT TO FORM 3160-4

Federal B-7
(Well Name)

Sec 21, T23N, R7W
(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 243' 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 5897' to surface. The lead cement was 1200 sacks
Class G /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 1.80
cubic feet per sack or 2160 cubic feet. ^(about 387 bbls slurry) The tail cement was 150 sacks
Class G with 2% CaCl₂, 8 lbs salt per sack, 1/2 lb flocele per sack, 6 1/4#
Gilsonite per sack mixed at 15.2 lbs with a yield of 1.377 cubic feet
per sack or 206 cubic feet. ^(about 37 bbls slurry) Cement was designed to circulate. It
did not circulate. Halliburton Logging Services identifies top of cement as
1040'. BCO personnel identify 1040' as top of fair bond to pipe not top of
cement which would be higher but was not logged.