

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*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RENVR. ☐ 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

1152' FNL - 420' FEL

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO.

DATE ISSUED

RECEIVED
JUN 14 1993

OIL CON. DIV.

DIST. 3

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.

14

10. FIELD AND POOL, OR WILDCAT

Lybrook Gallup

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

SEC 27 T23N R7W NMPM

12. COUNTY OR PARISH
Sandoval

13. STATE
NM

15. DATE SPUNDED

3/23/93

16. DATE T.D. REACHED

3/27/93

17. DATE COMPL. (Ready to prod.)

6/03/93 *

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

7276'

19. ELEV. CASINGHEAD

7279'

20. TOTAL DEPTH, MD & TVD

5750'

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

5700'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

XX

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

25. WAS DIRECTIONAL SURVEY MADE Yes-
submitted to OCD
3/30/93

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray and Cement Bond Log

Cased hole Compensated Neturon,

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	371'	12 1/4	275 Sacks	
4 1/2	11.6	5747'	7 7/8	950 Sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	5664'	

31. PERFORATION RECORD (Interval, size and number)

One 0.39" select fire shot at 5453', 5458', 5463', 5570', 5580', 5585', 5603', 5616', 5626', 5644', 5659' and 5673'.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5453' - 5673'.	1850 Gal FE-HCL; 421,000 # 16/30 Brady Sand in 183,288 Gallons 70% quality N ₂ foam.

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
6/6/93 .		Piston .					Producing .	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
6/7/93 .	24 .	1/2" .	→	124 .	520 .	6 .	4200 .	
FLOW. TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
395 .	640 .	→	124 .	520 .	6 .	40 .		

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

Vented - contains Nitrogen from frac

TEST WITNESSED BY

ACCEPTED FOR RECORD

35. LIST OF ATTACHMENTS

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

SIGNED

James P. Bennett
for ELIZABETH B. KEESMAN

TITLE

President

FARMINGTON DISTRICT OFFICE

*(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):

B #14 GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME
				MEAS. DEPTH
				TRUE VERT. DEPTH
				Ojo Alamo . 1426 . Kirtland . 1706 . Fruitland . 1871 . Pictured Cliffs . 2068 . Chacra . 2470 Cliff House . 3603 . Menefee . 3626 . Point Lookout . 4418 . Mancos . 4632 Gallup . 5276

38.

ATTACHMENT TO FORM 3160-4 ..

Federal B #14 .

Sec 27 T23N R7W .

NM-6682 .

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 371' to surface. 275 sacks Class B, 2% CaCl₂, 1/4# flocele per sack mixed at 15.6 lbs with a yield of 1.18 or 207 cubic feet. Cement circulated to surface. .

4-1/2" casing: TD to surface. Ran 10 barrels H₂O; , 10 barrels H₂O with 2% CaCl₂ , 10 barrels H₂O; 20 barrels superflush, 10 barrels H₂O: 800 sacks 65/35 standard poz with 12% Bentonite, 6.25 lb per sack Gilsonite, 1/4 lb per sack Flocele and 0.6% Halad - 322. Mixed at 11.3 pounds per gallon with a yield of 2.64 cubic feet per sack or 2112 cubic feet. Tailed in with 150 sacks Class "G" mixed with 8 lbs per sack salt, 1/2 lb per sack Flocele, 6.25 lb per sack Gilsonite. Mixed at 15.2 pounds per gallon with a yield of 1.38 cubic feet per sack or 207 cubic feet. Circulated 63 barrels slurry.