

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

NM-16586 *

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

FEDERAL I #8

9. API WELL NO.

30-043-20918 *

10. FIELD AND POOL, OR WILDCAT

LYBROOK GALLUP *

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

SEC 21 T23N R7W NMPM *

12. COUNTY OR
PARISH

SANDOVAL *

13. STATE

NM *

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 AND TELEPHONE NO.

135 GRANT, SANTA FE, NM 87501 505 983-1228

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

At surface 1665' FNL & 970' FWL, NMPM *

At top prod. interval reported below

SAME *

At total depth

SAME *

14. PERMIT NO.

30-043-20918 *

DATE ISSUED

MAY 27 1994

OIL CON. DIV.
DIST. 312. COUNTY OR
PARISH

SANDOVAL *

13. STATE

NM *

15. DATE SPUDDED 2/22/94- 16. DATE T.D. REACHED 2/28/94- 17. DATE COMPL. (Ready to prod.) 5/16/94- 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* GR: 7488' KB: 7500- 19. ELEV. CASINGHEAD 7491'

20. TOTAL DEPTH, MD & TVD 5970- 21. PLUG, BACK T.D., MD & TVD 5911- 22. IF MULTIPLE COMPL., HOW MANY* NA- 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS XX- →

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

5620 - 5828 Gallup *

25. WAS DIRECTIONAL
SURVEY MADE
Yes—filed with
OCD 3/7/94 *

26. TYPE ELECTRIC AND OTHER LOGS RUN

Compensated Neutron with GR & CCL. Cement Bond with GR & CCL *

27. WAS WELL CORRED

No *

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8" J55	24#	373	12 1/4"	Surface 325 Sacks	
4 1/2" J55	11.6#	5967	7 7/8"	Surface 1150 Sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	5822	

31. PERFORATION RECORD (Interval, size and number)

One 0.39" select fire shot at
5620, 5625; 5630; 5731; 5744;
5748; 5818 and 5828.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5620 - 5828	188,328 gallons 70 quality N ₂ foam; 362,500#-16/30 Brady sand; 3,208,579 scf N ₂ ; 56,720 gallons H ₂ O

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
5/16/94		Gas Lift				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5/23/94	24	23/64	→	60	180	5	3000
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
305	685	→	60	180	5	40	

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

Vented *

TEST WITNESSED BY

Robert Ramirez *

35. LIST OF ATTACHMENTS

Cementing Summary *

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

President

DATE May 23, 1994

*(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.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo .	1633.	1633.
Kirtland .	1778.	1778.
Fruitland .	2018.	2018.
Pictured Cliffs	2242	2242.
Chactra .	2651.	2651.
Cliff House .	3724.	3724.
Menefee .	3751.	3751.
Point Lookout.	4583.	4583.
Mancos .	4712.	4712.
Gallup.	5451.	5451.

ATTACHMENT TO FORM 3160-4

Federal I #8 .

Sec 21 T23N R7W NMPM .

NM-16586 .

The following summarizes the cement jobs on the above well as required by item 28 of 3160-4 and the approved APD.

8-5/8" surface casing 373' to surface. 275 sacks Class B, 2% CaCl_2 , 1/4# flocele per sack mixed at 15.6 lbs with a yield of 1.18 or 325 cubic feet. Cement did not circulate to surface. Cement was tagged 45' from surface. Cemented with 50 sacks Class B mixed with 4% CaCl_2 at 15.6# with a yield of 1.18 or 59 cubic feet. 5 barrels slurry were circulated at surface.

4-1/2" casing: TD to surface. Ran 10 barrels H_2O , 10 barrels H_2O with 2% CaCl_2 , 10 barrels H_2O , 10 barrels superflush, 20 barrels H_2O . 1000 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 2640 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, 2% Calcium Chloride. Mixed at 15.2 pounds per gallon with a yield of 1.38 cubic feet per sack or 207 cubic feet. Circulated 92 barrels slurry.