Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: NM-6682

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation:

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

RECEIVED
MAY - 9 1994
OIL CON. DIV.
DIST. 3

8. Well Name and No.: FEDERAL B #21

2. Name of Operator: BCO, INC.

9. API Well No.: 30-043-20916

3. Address and Telephone No.: 135 GRANT, SANTA FE, NM 87501 505 983-1228

10. Field and Pool, or Exploratory Area: LYBROOK GALLUP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FSL & 2145' FWL, NMPM
SE/4 SW/4 (N)
S22-T23N-R7W

11. County or Parish, State: SANDOVAL, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Complete & place in production	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

3/08/94 Schlumberger ran cased hole gamma ray log from TD to surface. Cased hole compensated Neutron and CBL were run over selected intervals. Schlumberger provided copies to Oil Conservation Division & Bureau of Land Management. Loggers TD is 5937'.

4/6/94 Cementers, Inc. pressure tested 4 1/2" long-string casing at 4000 pounds for 30 minutes. Casing held pressure.

Continued on following page.

14. I hereby certify that the foregoing is true and correct

Signed Elizabeth B. Keesha Title President Date May 9, 1994

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any

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 any matter within its jurisdiction.

*See Instruction on Reverse Side

Operator: BCO, Inc.
135 Grant
Santa Fe, NM 87501

SUNDRY NOTICE & REPORTS ON WELLS
PAGE TWO
FEDERAL B #21

4/19/94 Schlumberger perforated with one 0.39" select fire shot at 5660, 5666, 5774, 5784, 5790, 5794, 5864 and 5874.

5/01/94 Rigged up completion rig.

5/02/94 Went in hole with Halliburton Straddle Packer and 2 3/8" tubing, pickled tubing and casing with 500 gallons of 10 percent FE-HCL, spotted 1000 gallons of 10% FE-HCL acid down the tubing and displaced with 2% Clayfix II water. The perforations were individually isolated and broken down with 3 barrels of acid followed by 3 barrels of 2% Clayfix II water. The tubing and packer were tripped from the well prior to the frac.

5/04/94 Rigged up Halliburton to frac. Treated 54,200 gallons of water with 112 gallons of Clayfix II, 405 gallons of LGC-V, 232 gallons of AQF-2, 55 gallons of Losurf 300, 15 pounds of BE-6, 2 pounds of GBW-3, 20 gallons BA-20, 78 pounds of SP Breaker, and 40 gallons of Scalecheck LP-55. Sand-water foam frack (70 quality N2 Foam) 5660' to 5874' with 182,699 gallons of foam, 362,500 pounds of 16/30 Brady Sand and 3,265,971 standard cubic feet of Nitrogen. The average treating pressure was 3,500 PSIG at 30 foam barrels per minute. ISIP was 2360 PSIG, 2155 PSIG at 5 minutes, 2134 PSIG at 10 minutes. The well was opened on a 1/2" positive choke.

5/05/94 Killed well, went in with tubing to clean sand to PBTD at 5937'. Land 2 3/8", 4.7#, J-55 tubing at 5862'. Kicked well off with 48,000 standard cubic feet of Nitrogen and placed well in production to test tank to clean up.

5/09/94 Determined initial potential of well to be 80 BOPD, 9 BWPD, 300 MCF/DAY.

TUBING PRESSURE = 315 PSIG
CASING PRESSURE = 610 PSIG
CHOKE = (23/64)".

ATTACHMENT TO FORM 3160-4

Federal B #21

Sec 22 T23N R7W NMPM

NM-6682

The following summarizes the cement jobs on the above well.

8-5/8" surface casing 371' 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 circulated to 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. 736 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 1943 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. Did not circulate to surface. Tefteller ran temperature survey. The survey determined the top of the cement was 499'.