

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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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

1. Type of Well
 Oil Well Gas Well 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 (Footage, Sec., T., R., M., or Survey Description)
**2035' FNL & 950' FEL, NMPM
 SE/4 NE/4 (H)
 S21-T23N-R7W**

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OIL CON. DIV.
DIST. 3

5. Lease Designation and Serial No.
NM-6682

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
FEDERAL B #20

9. API Well No.
30-043-20919

10. Field and Pool, or Exploratory Area
LYBROOK GALLUP

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
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Complete & place in production
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)

3/15/94.

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 5914':

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. Keeshan Title President Date May 13, 1994

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any: _____

FARMINGTON DISTRICT OFFICE
NMOCD

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

SUNDRY NOTICE & REPORTS ON WELLS

PAGE TWO

FEDERAL B #20

- 4/20/94 Schlumberger perforated with one 0.39" select fire shot at 5654, 5658, 5662, 5778, 5784, 5788, 5858 and 5870.
- 5/05/94 Rigged up completion rig.
- 5/06/94 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 to 6 barrels of 2% Clayfix II water. The tubing and packer were tripped from the well prior to the frac.
- 5/09/94 Rigged up Halliburton to frac. Treated 56,880 gallons of water with 101 gallons of Clayfix II, 410 gallons of LGC-V, 267 gallons of AQF-2, 55 gallons of Losurf 300, 15 pounds of BE-6, 2 pounds of GBW-3, 20 gallons BA-20, 80 pounds of SP Breaker, and 44 gallons of Scalecheck LP-55. Sand-water foam frack (70 quality N2 Foam) 5654' to 5870' with 189,568 gallons of foam, 362,600 pounds of 16/30 Brady Sand and 3,383,635 standard cubic feet of Nitrogen. The average treating pressure was 3,400 PSIG at 31 foam barrels per minute. ISIP was 2600 PSIG, 2228 PSIG at 5 minutes, 2204 PSIG at 10 minutes and 2181 PSIG at 15 minutes. The well was opened on a 1/2" positive choke.
- 5/10/94 Killed well, went in with tubing to clean sand to PBSD at 5914'. Land 2 3/8", 4.7#, J-55 tubing at 5868'. Kicked well off with 84,900 standard cubic feet of Nitrogen and placed well in production to test tank to clean up.
- 5/13/94 Determined initial potential of well to be 80 BOPD, 15 BWPD, 300 MCF/DAY.
- TUBING PRESSURE = 320 PSIG
CASING PRESSURE = 730 PSIG
CHOKE = (25/64)" .