

NSL R-5413

F. Loc. 660/S; 660/W

Elev. 7311 DF

Spd. 8-15-56

Comp. 11-14-56

TD 5895

PB

Casing 510 3/4 @ 197 W 225 Sx. Int. @ W Sx. pr. 5 1/2 @ 5895 W 200 Sx. I. @

Csg. Perf.

Prod. Stim.
SOF

5597-5847

T
R
A
N
S

I.P. 47 BO/D MCF/D After Hrs. SICP 1625 PSI After Days GOR Grav. Ist Del. 10-12-56

TOPS		NITD	X	Well Log	X	TEST DATA						
						Schd.	PC	Q	PW	PD	D	Ref. No.
Kirtland	1720	C-103		Plat	XXX							
Fruitland	1975	C-104	6-2-78 XX	Electric Log	XXXX							
Pictured Cliffs	2227			C-122								
Cliff House	3090	Ditr		Dfa								
Menefee		Datr		Dac								
Point Lookout	4545	NIT-Deepens - 2/24/77 to Dakota Commingle - DHC-R-5413 /Dunn #1 to 2E /Lybrook Gal. DHC-R-6929 /Dr. Sam G. Dunn NWO-3-632 O.I. Oper. /H. Budd 176.94 /Dr. Sam G. Dunn W/303.11										
Mancos	4710											
Gallup	5575											
Sonesta												
Greenhorn	6542											
Dakota	6740											
Morrison												
Entrada												
6642	6642											

P
O
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LYBROOK GAL. co. RA S 10 T 23N R 7W U^M Oper. BCO, INC.

Lse. Dunn

No. 2E

Form 9-331 (May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved
Bureau Order No. 40-81424

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☐ OTHER ☐ Status Undetermined

2. NAME OF OPERATOR
BCO, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 669 Santa Fe, New Mexico 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

660' FSL 660' FWL Section 10 T23N R7W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
7299 GR.

5. LEASE DESIGNATION AND ACREAGE NO.
SF-078272

6. IF INDIAN, ALLOTTEE OR TRUST NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Dunbar

9. WELL NO.
1

10. FIELD AND FOM, OR WILDCAT
Basin Dakota

11. SEC., T., R., M. OR BLK. AND SURVEY OR ARMA
10 T23N R7W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

PULL OR ALTER CASING ☐

FRACTURE TREAT ☐

MULTIPLE COMPLETE ☐

SHOOT OR ACIDIZE ☐

ABANDON* ☐

REPAIR WELL ☐

CHANGE PLANS ☐

(Other) ☐

SUBSEQUENT REPORT

WATER SHUT-OFF ☒

FRACTURE TREATMENT ☒

SHOOTING OR ACIDIZING ☒

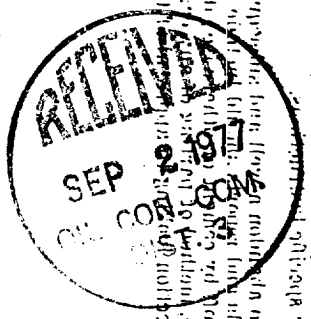
(Other) ☐

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of start of proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and pertinent to this work.)

See attached summary from 2-26-77 to 8-29-77

Enclosures:
U.S.G.S. 2 Copies of CBL & TDT run 4-23 and 4-24
C.C.C. 1 Copy of CBL and TDT run 4-23 and 4-24



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

SIGNED Harry R. Bogle TITLE President

DATE SEP 29 1977

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

Dunn # 1
Summary Of Work Performed
660' FSL 660' FWL Section 10 T23N R7W
SF-078272 Rio Arriba County

2-26-77

Set 5 1/2 EZ - SV Packer at 5501'. Squeezed perforations from 5597-5846 with 200 sacks class B cement w/ 3/4% CFR-2. Reversed out 3 1/2 bags cement.

3-1-77 to 3-4-77

Drilled 30' of cement on top of E-Z drill. Drilled E-Z drill. Drilled casing shoe at 5895 and 10' of open hole to 5905.

3-21-77 to 3-26-77

Drilled 4 3/4" hole from 5905 to 6760 with gas. Dusted all the way, but, found out later we had not been getting full returns. Ran 6715' 3 1/2" J-55 9.30# casing. Couldn't get to bottom. Pumped 10 Bbls. of crude in front of 50 sacks of 50/50 Poz 2% gel cement and cemented 3 1/2" casing.

4-12-77

Cemented down 5 1/2" - 3 1/2" annulus with 300 sacks 50/50 Poz 2% gel cement.

4-21-77 to 4-24-77

Tagged cement at 6690 and drilled to 6785. Schlumberger ran CBL and TDT log. Determined 6753 of 3 1/2" had been run and TD was actually 6800.

4-25-77

Fracked open hole, 6753-6800, with 500 gals. 15% HCL acid, 95 gals. Morflo, 95 gals. LP-55, 200#'s Adomite Aqua, 1250#'s WG-6, 2% KCL, 100,000#'s 20-40 sand, and 88,000 gals. water. Breakdown 2600#, average treating pressure 4000#'s with a 32 Bbl. rate. Instant SIP 2000#'s; 5 min. 1800; 15 min. 1650.

4-26-77 to 5-9-77

Swabbed well. Maximum casing pressure 1450#'s. Making a large volume of water with some gas.

5-10-77 and 5-11-77

Tried to circulate sand out of bottom of hole.

5-12-77 to 5-16-77

Swabbed well. Maximum casing 1540#'s. Had water analysis made 5-16-77, P.H. 6.5, calcium 150, chlorides 7906, and sulfates 800. Conclusion was that water being swabbed could still be frac fluid.

5-16-77 to 5-31-77

Continued to swab. Open ended 1 1/2" tubing was perforated 6747-50 on 5-17-77. Well was sandpumped 5-24-77 and a "factory built" perforated sub was run in hole to replace the "home made" one made 5-17-77. Had water analysis made 5-27-77, P.H. 6.5, calcium 200, chlorides 9487, and sulfates 1050. Conclusion was that water being swabbed was formation water. Shut well in.

7-20-77

Ran Bluejet Gamma Ray Neutron Log. Set E-Z drill inside 3 1/2" at 6751. Squeezed open hole with 75 sacks class B neat cement. Pulled out of stinger and spotted 500 gals. 7 1/2% HCL acid.

7-21-77

Perforated w/2 SPF 6743-6748; 6705-6705 1/2; 6695 1/2 to 6696; and 6683 - 6683 1/2.

7-22-77

Fracked 6683 - 6748 with 500 gals. 7 1/2% acid, 40 gals. Morflo, 40 gals. LP-55, 200#'s Adomite Aqua, 1200#'s WG-6, 2% KCL, 27,500#'s 20-40 sand and 31,330 gals. water. Pumped in, average treating pressure 4600#'s with a 26 Bbl. rate. Instant SIP 1900#'s; 5 min. 1775; 15 min. 1600.

7-23-77 to 8-1-77

Swabbed well. Making some formation water and some gas.

8-1-77 to 8-29-77

Well will run on its own once every 3 days. Makes a lot of formation water and some gas. Intend to isolate lower Graneros from Dakota to find out what each formation is producing. A decision as to future work to be performed will be made at that time.