

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL

WELL ☒

GAS

WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☒

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

900' FNL & 960' FEL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

approx. 2 mi. north of Lybrook, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

900'

16. NO. OF ACRES IN LEASE

1086 more or less

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.4000' from
Dunn #9

19. PROPOSED DEPTH

6548'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7030' GL 7029'

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	23#	200'	190 cu. ft. circ. to surface
7-7/8"	4-1/2"	11.6#	6548'	2773 cu. ft. circ. to surface

Plan to drill a 12-1/4" hole and set 200' of 8-5/8" OD, 23#, new surface casing; then plan to drill a 7-7/8" hole to total depth with gel-water-mud program to test Gallup and Graneros formations. Plan to run IES and CDL logs. If determined productive, will run 4-1/2", 11.6#, new N-80 casing, selectively perforate, frac, clean out after frac and complete well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Elizabeth B. Keeshan
Elizabeth B. Keeshan

TITLE

Vice-President

DATE 5-6-88

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

Operator BCO, Inc.		Lease Dunn		Well No. 13
Unit Letter A	Section 4	Township 23 North	Range 7 West	County Rio Arriba
Actual Footage Location of Well: 900 feet from the North line and 960 feet from the East line				
Ground Level Elev. 7029	Producing Formation Gallup/Graneros	Pool Lybrook Gallup/Undes. Graneros	Dedicated Acreage 3269/40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.

RECEIVED BLM MAIL ROOM 28 MAY - 6 PM 2:49 EARMINGHOUSE LINES FARMINGTON, NEW MEXICO		SECTION 4 900' 960' BCO, Inc. SF-078272
RECEIVED MAY 18 1988 OIL CON. DIV. DIST. 3		

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Elizabeth B. Keeshan

Name
Elizabeth B. Keeshan

Position
Vice-President

Company
BCO, Inc.

Date
5-6-88



Date Surveyed
May 5, 1988

Registered Professional Engineer
and/or Land Surveyor

Edgar L. Risenbooner
Certificate No. 5979

BCO, Inc.
Dunn #13
NE/4 NE/4 Sec. 4, T23N, R7W
Rio Arriba County, NM
Exhibit R
Off-lease Access Road R-O-W

T23N

R7W

STATE
HUNTER

North

Oil Wells
Navajo
Trading Post

Brook
On Well