

Form 9-330  
(Rev. 5-63)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

|                                                                                                                                                                                                                   |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------|
| 1a. TYPE OF WELL:                                                                                                                                                                                                 |                                          | OIL WELL <input type="checkbox"/>                                                                    | GAS WELL <input checked="" type="checkbox"/>                                                  | DRY <input type="checkbox"/>     | Other <input type="checkbox"/>                              |
| b. TYPE OF COMPLETION:                                                                                                                                                                                            |                                          | NEW WELL <input checked="" type="checkbox"/>                                                         | WORK OVER <input type="checkbox"/>                                                            | DEEP-EN <input type="checkbox"/> | PLUG BACK <input type="checkbox"/>                          |
|                                                                                                                                                                                                                   |                                          | DIFF. RESVR. <input type="checkbox"/>                                                                | Other <input type="checkbox"/>                                                                |                                  |                                                             |
| 2. NAME OF OPERATOR<br>BCO, INC.                                                                                                                                                                                  |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| 3. ADDRESS OF OPERATOR<br>135 Grant Avenue, Santa Fe, New Mexico 87501                                                                                                                                            |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface 1750' FSL 790' FEL Sec. 3 T23N R7W<br>At top prod. interval reported below Same<br>At total depth Same |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| 14. PERMIT NO.                                                                                                                                                                                                    |                                          | DATE ISSUED                                                                                          |                                                                                               |                                  |                                                             |
|                                                                                                                                                                                                                   |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| 5. LEASE DESIGNATION AND SERIAL NO.<br>SF-078272                                                                                                                                                                  |                                          | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                                                 |                                                                                               |                                  |                                                             |
| 7. UNIT AGREEMENT NAME                                                                                                                                                                                            |                                          | 8. FARM OR LEASE NAME<br>Dunn                                                                        |                                                                                               |                                  |                                                             |
| 9. WELL NO.<br>3                                                                                                                                                                                                  |                                          | 10. FIELD AND POOL, OR WILDCAT<br>Basin Dakota                                                       |                                                                                               |                                  |                                                             |
| 11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA<br>3 T23N R7W NMPM                                                                                                                                               |                                          | 12. COUNTY OR PARISH<br>Rio Arriba                                                                   |                                                                                               | 13. STATE<br>N.M.                |                                                             |
| 15. DATE SPUDDED<br>8-17-80                                                                                                                                                                                       | 16. DATE T.D. REACHED<br>8-29-80         | 17. DATE COMPL. (Ready to prod.)<br>10-25-80                                                         | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*<br>6960 GR                                            |                                  | 19. ELEV. CASINGHEAD<br>6962                                |
| 20. TOTAL DEPTH, MD & TVD<br>6530                                                                                                                                                                                 | 21. PLUG, BACK T.D., MD & TVD<br>6521    | 22. IF MULTIPLE COMPL., HOW MANY*<br>N/A                                                             | 23. INTERVALS DRILLED BY<br>→                                                                 | ROTARY TOOLS<br>XX               | CABLE TOOLS                                                 |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br>6309-6490 Dakota                                                                                                                 |                                          |                                                                                                      |                                                                                               |                                  | 25. WAS DIRECTIONAL SURVEY MADE<br>Yes, Report Filed 9/5/80 |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN<br>Induction Electrical, Compensated Density<br>Compensated Neutron, and Cement Bond with Nuclear                                                                            |                                          |                                                                                                      |                                                                                               |                                  | 27. WAS WELL CORED<br>No                                    |
| 28. CASING RECORD (Report all strings set in well)                                                                                                                                                                |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| CASING SIZE                                                                                                                                                                                                       | WEIGHT, LB./FT.                          | DEPTH SET (MD)                                                                                       | HOLE SIZE                                                                                     | CEMENTING RECORD                 |                                                             |
| 8 5/8                                                                                                                                                                                                             | 23 #                                     | 265                                                                                                  | 12 1/4                                                                                        | 170 sacks                        |                                                             |
| 4 1/2                                                                                                                                                                                                             | 11.60# N-80                              | 6528                                                                                                 | 7 7/8                                                                                         | 1575 sacks--Three Stage          |                                                             |
| 29. LINER RECORD                                                                                                                                                                                                  |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| SIZE                                                                                                                                                                                                              | TOP (MD)                                 | BOTTOM (MD)                                                                                          | SACKS CEMENT*                                                                                 | SCREEN (MD)                      |                                                             |
|                                                                                                                                                                                                                   |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| 30. TUBING RECORD                                                                                                                                                                                                 |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| SIZE                                                                                                                                                                                                              | DEPTH SET (MD)                           | PACKER SET (MD)                                                                                      |                                                                                               |                                  |                                                             |
| 2 3/8                                                                                                                                                                                                             | 6510                                     | 132750                                                                                               |                                                                                               |                                  |                                                             |
| 31. PERFORATION RECORD (Interval, size and number)<br>6490-6484, 3 1/8", 6 shots<br>6314-6309, 3 1/8", 5 shots                                                                                                    |                                          |                                                                                                      | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.                                                |                                  |                                                             |
| DEPTH INTERVAL (MD)                                                                                                                                                                                               |                                          |                                                                                                      | AMOUNT AND KIND OF MATERIAL USED                                                              |                                  |                                                             |
| 6309-6490                                                                                                                                                                                                         |                                          |                                                                                                      | 500 gals. 7 1/2% MCA, 750 gals. 15% MCA, 160,000 #'s 20-40 sand, 122,000 gals. 15# gel water. |                                  |                                                             |
| 33.* PRODUCTION                                                                                                                                                                                                   |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| DATE FIRST PRODUCTION<br>10-18-80                                                                                                                                                                                 |                                          | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br>Gas Lift Piston Intermittent |                                                                                               |                                  | WELL STATUS (Producing or shut-in)<br>Shut In               |
| DATE OF TEST<br>10-25-80                                                                                                                                                                                          | HOURS TESTED<br>8                        | CHOKE SIZE<br>3/4"                                                                                   | PROD'N. FOR TEST PERIOD<br>→                                                                  | OIL—BBL.<br>10                   | GAS—MCF.<br>750                                             |
| WATER—BBL.<br>120-Frac                                                                                                                                                                                            |                                          | GAS-OIL RATIO<br>75,000                                                                              |                                                                                               |                                  |                                                             |
| FLOW. TUBING PRESS.<br>400-600                                                                                                                                                                                    | CASING PRESSURE<br>Unknown be-low packer | CALCULATED 24-HOUR RATE<br>→                                                                         | OIL—BBL.<br>30                                                                                | GAS—MCF.<br>2250                 | WATER—BBL.<br>360 Frac                                      |
| OIL GRAVITY-API (CORR.)<br>42                                                                                                                                                                                     |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| 34. DISPOSITION OF GAS. Gas used to lift piston and fluid. Gas will be sold thru BCO N Lybrook Gathering Line when well is placed back in production as shown in 10 point plan.                                   |                                          |                                                                                                      |                                                                                               |                                  | TEST WITNESSED BY<br>H.L. Bigbee                            |
| 35. LIST OF ATTACHMENTS<br>Items listed in 25 and 26 above previously furnished                                                                                                                                   |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records                                                                                 |                                          |                                                                                                      |                                                                                               |                                  |                                                             |
| SIGNED <u>Harry R. Bigbee</u>                                                                                                                                                                                     |                                          | TITLE <u>President</u>                                                                               |                                                                                               | DATE <u>10/30/80</u>             |                                                             |

\*(See Instructions and Spaces for Additional Data on Reverse Side)

FARMINGTON DISTRICT

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for concrete production from a water-bearing formation, indicate the formation and the type of completion.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple cementing stages and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

| 37. SUMMARY OF POROUS ZONES:<br>SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING<br>DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES |     |        |                             | 38. GEOLOGIC MARKERS    |             |                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|-----------------------------|-------------------------|-------------|-------------------------|
| FORMATION                                                                                                                                                                                                                                             | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME                    | MEAS. DEPTH | TOP<br>TRUE VERT. DEPTH |
|                                                                                                                                                                                                                                                       |     |        |                             | Ojo Alamo               | 1372        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Kirtland Fruit-<br>land | 1612        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Picture Cliffs          | 2020        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Chacra                  | 2443        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Cliff House             | 3480        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Menefee                 | 3554        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Point Lookout           | 4228        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Mancos                  | 4480        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Gallup (Skelly)         | 5340        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Gallup (Mayre)          | 5463        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Mancos                  | 5734        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Greenhorn               | 6222        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | Graneros Shale          | 6285        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | 1st Dakota              |             |                         |
|                                                                                                                                                                                                                                                       |     |        |                             | (Upper Graneros)        | 6300        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | 2nd Dakota              |             |                         |
|                                                                                                                                                                                                                                                       |     |        |                             | (Lower Graneros)        | 6395        | Same                    |
|                                                                                                                                                                                                                                                       |     |        |                             | 3rd Dakota              | 6475        | Same                    |