

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> |  | 2. NAME OF OPERATOR<br>BCO, Inc. |  | 3. ADDRESS OF OPERATOR<br>135 Grant, Santa Fe, NM 87501 |  | 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)<br>At surface<br>2280 FSL and 780 FEL |  | 5. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>GL 6978' |  | 6. LEASE DESIGNATION AND SERIAL NO.<br>SF-078272 |  | 7. IF INDIAN, ALLOTTEE OR TRIBE NAME |  | 8. UNIT AGREEMENT NAME |  | 9. FARM OR LEASE NAME<br>Dunn |  | 10. WELL NO.<br>3-Y |  | 11. FIELD AND POOL, OR WILDCAT<br>Undes. Graneros<br>Lybrook Gallup |  | 12. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Sec 3, T23N R7W NMPM |  | 13. COUNTY OR PARISH<br>Rio Arriba |  | 14. STATE<br>NM |  |
|------------------------------------------------------------------------------------------------------------------|--|----------------------------------|--|---------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------|--|--------------------------------------------------|--|--------------------------------------|--|------------------------|--|-------------------------------|--|---------------------|--|---------------------------------------------------------------------|--|--------------------------------------------------------------------------|--|------------------------------------|--|-----------------|--|

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 OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

Set casing and cement

(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 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.)

1/3/91 - 1/12/91 Drilled 7-7/8" hole to 6486'. Bits were run as follows:

| Bit Size  | Type  | Date Out | Footage Out | Rotation Hours | Feet Drilled | Avg Hr | Deviation |
|-----------|-------|----------|-------------|----------------|--------------|--------|-----------|
| 1 12 1/4" | OSC12 | 1/2/91   | 363         | 4 3/4          | 363          | 76     | 3/4°      |
| 2 7 7/8"  | L126  | 1/4/91   | 2146        | 18             | 1783         | 99     | 1°        |
| 3 7 7/8"  | L127  | 1/5/91   | 2958        | 13 3/4         | 812          | 59     | 1°        |
| 4 7 7/8"  | PD2   | 1/7/91   | 3709        | 24             | 751          | 31     | 1 3/4°    |
| 5 7 7/8"  | HP51X | 1/12/91  | 6486        | 106            | 2777         | 26     | 1°        |

1/13/91 Ran Induction Electric Log and Compensated density Log. Great Guns Logging will mail two copies of each log to the BLM and one copy to the OCD. Were able to get log only to 6260'. When log cement will have gamma ray and neutron run on segment missed and provide log to BLM and OCD.

1/13/91 Advised the answering machine of the BLM at 12:45 p.m. that we intend to start cementing long string on this well between 1:00 a.m. and 7:00 a.m. on 1/14/91.

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

SIGNED Elizabeth B. Keeshan TITLE President.

DATE 1/16/91

(This space for Federal or State office use)

ACCEPTED FOR RECORD

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

FEB 15 1991

FARMINGTON RESOURCE AREA

BY

\*See Instructions on Reverse Side

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

SUNDRY NOTICES AND REPORTS ON WELLS

Lease No.: SF-078272

Page Two

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01/14/91 Ran 6471' of 11.6# N-80 4-1/2" casing; landed at 6483'. Set DV tool at about 5055'. Pumped 20 barrels mud flush and 2 barrels fresh water spacer. The lead cement of the first stage was 75 sacks Class "G" cement mixed with 8 pounds Salt per sack, 6-1/4 pounds Gilsonite per sack, 1/2 pound Flocele per sack mixed at 15.2 pounds with a yield of 1.377 cubic feet per sack or 103 cubic feet (about 18 barrels slurry). The remainder of the first stage cement was 400 sacks Class "G" cement mixed with 2% CaCl<sub>2</sub>, 8 pounds Salt per sack, 6-1/4 pounds Gilsonite per sack, 1/2 pound Flocele per sack mixed at 15.2 pounds with a yield of 1.377 cubic feet per sack or 551 cubic feet (about 98 barrels slurry). Pumped plug. Plug bumped. Opened DV tool and broke circulation. Circulated for 4 hours to allow first stage cement to set up. Did not circulate cement slurry. Recovered mud flush and saw colored water spacer. Will determine top of cement when log cement before complete well. Pumped 5 barrels water, pumped 10 barrels CaCl<sub>2</sub> water, pumped 10 barrels water spacer, pumped 20 barrels Superflush 102, washed out pumps and lines, pumped 10 barrels water. Pumped 1600 sacks of Standard 50/50 PozMix mixed with 2% Gel, 2% KCl and 12 pounds Gilsonite per sack at 12.8 pounds with a yield of 1.46 cubic feet per sack or 2336 cubic feet (approximately 417 barrels of slurry). Pumped plug. Plug bumped and DV tool closed. DV held. Circulated 100 barrels of slurry to pit. Job complete 10:50 a.m.

Attached is copy of Halliburton job log. Intend to complete well in May or June 1991.

# WELL SERVICE JOB SUMMARY FORM 1012 R-2

HALLIBURTON  
LOCATION

FARMING, N.M.

BILLED ON  
TICKET NO. 077313

WELL DATA  
FIELD Hybrent Dakota SEC. 3 TWP. 23N RNS. 2W COUNTY Sandoz STATE N.M.  
FORMATION NAME Dakota TYPE GAS  
FORMATION THICKNESS FROM TO  
INITIAL PROD. OIL SPD. WATER SPD. GAS MCFD  
PRESENT PROD. OIL SPD. WATER SPD. GAS MCFD  
COMPLETION DATE MUD TYPE 621 MUD WT. 9.5  
PACKER TYPE SET AT  
BOTTOM HOLE TEMP. PRESSURE  
MISC. DATA TOTAL DEPTH 1486'

|              | NEW USED  | WEIGHT      | SIZE         | FROM     | TO           | MAXIMUM PSI ALLOWABLE |
|--------------|-----------|-------------|--------------|----------|--------------|-----------------------|
| CASING       | <u>11</u> | <u>11.6</u> | <u>4 1/2</u> | <u>0</u> | <u>6486'</u> | <u>3000</u>           |
| LINER        |           |             |              |          |              |                       |
| TUBING       |           |             |              |          |              |                       |
| OPEN HOLE    |           |             |              |          |              | SHOTS/FT.             |
| PERFORATIONS |           |             |              |          |              |                       |
| PERFORATIONS |           |             |              |          |              |                       |
| PERFORATIONS |           |             |              |          |              |                       |

TOOLS AND ACCESSORIES

| TYPE AND SIZE               | QTY.       | MAKE            |
|-----------------------------|------------|-----------------|
| TYPE AND SIZE <u>4 1/2</u>  |            |                 |
| FLOAT COLLAR <u>P.D.F.</u>  | <u>1</u>   | <u>H.W.C.O.</u> |
| NEAR END <u>MSC</u>         | <u>1</u>   | <u>"</u>        |
| GUIDE SHOE <u>Cement</u>    | <u>1</u>   | <u>"</u>        |
| CENTRALIZERS <u>S-4</u>     | <u>2.2</u> | <u>"</u>        |
| BOTTOM PLUG <u>P/HG Set</u> | <u>1</u>   | <u>"</u>        |
| TOP PLUG                    |            |                 |
| HEAD <u>KUPC</u>            | <u>1</u>   | <u>"</u>        |
| Limit Clamps                | <u>3</u>   | <u>"</u>        |
| OTHER <u>Baskets</u>        | <u>3</u>   | <u>"</u>        |

JOB DATA

| CALLER OUT          | ON LOCATION         | JOB STARTED         | JOB COMPLETED       |
|---------------------|---------------------|---------------------|---------------------|
| DATE <u>1-13-90</u> | DATE <u>1-13-90</u> | DATE <u>1-14-90</u> | DATE <u>1-14-90</u> |
| TIME <u>13:00</u>   | TIME <u>21:30</u>   | TIME <u>0340</u>    | TIME <u>10:40</u>   |

PERSONNEL AND SERVICE UNITS

| NAME                  | UNIT NO. & TYPE       | LOCATION               |
|-----------------------|-----------------------|------------------------|
| <u>Ivan Webster</u>   | <u>39858</u>          | <u>1-Farming, N.M.</u> |
| <u>77972</u>          | <u>McK. UP</u>        |                        |
| <u>Grant HARRIOTT</u> | <u>52340-5783</u>     |                        |
| <u>77123</u>          | <u>RIM (P)</u>        | <u>"</u>               |
| <u>Mark Michaels</u>  | <u>3488</u>           | <u>FlexChoc</u>        |
| <u>F0858</u>          | <u>Runk</u>           |                        |
| <u>Bobby Adams</u>    | <u>0186/4510</u>      | <u>"</u>               |
| <u>F0864</u>          | <u>Runk</u>           |                        |
| <u>Walter L. Coe</u>  | <u>4050-7751</u>      | <u>"</u>               |
| <u>F0086</u>          | <u>Runk</u>           |                        |
| <u>Jerry Tilley</u>   | <u>D9354</u>          | <u>"</u>               |
|                       | <u>3559/7757 Runk</u> |                        |
|                       | <u>4639/4188 Runk</u> | <u>"</u>               |
| <u>Dual Williams</u>  | <u>50072-3581</u>     | <u>1-Farming, N.M.</u> |
| <u>21004</u>          | <u>Runk</u>           |                        |

MATERIALS

|                              |                           |             |
|------------------------------|---------------------------|-------------|
| TREAT. FLUID <u>Cement</u>   | DENSITY <u>15.2, 12.8</u> | LB/GAL. API |
| DISPL. FLUID <u>H2O, mud</u> | DENSITY <u>8.33, 9.5</u>  | LB/GAL. API |
| PROP. TYPE                   | SIZE                      | LB.         |
| PROP. TYPE                   | SIZE                      | LB.         |
| ACID TYPE                    | GAL.                      | %           |
| ACID TYPE                    | GAL.                      | %           |
| ACID TYPE                    | GAL.                      | %           |
| SURFACTANT TYPE              | GAL.                      | IN          |
| NE AGENT TYPE                | GAL.                      | IN          |
| FLUID LOSS ADD. TYPE         | GAL.-LB.                  | IN          |
| GELLING AGENT TYPE           | GAL.-LB.                  | IN          |
| FRIC. RED. AGENT TYPE        | GAL.-LB.                  | IN          |
| BREAKER TYPE                 | GAL.-LB.                  | IN          |
| BLOCKING AGENT TYPE          | GAL.-LB.                  |             |
| PERFAC BALLS TYPE            | QTY.                      |             |
| OTHER                        |                           |             |
| OTHER                        |                           |             |

DEPARTMENT 505  
DESCRIPTION OF JOB Cement 4 1/2 long string in 2 stages  
JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TSG./ANN. ☐

CUSTOMER REPRESENTATIVE X Ray King  
HALLIBURTON OPERATOR Ivan Webster COPIES REQUESTED

CEMENT DATA

| STAGE     | NUMBER OF SACKS | TYPE         | API CLASS | BRAND        | BULK SACKED | ADDITIVES                                                                  | YIELD CU.FT./SK. | MIXED LBS./GAL. |
|-----------|-----------------|--------------|-----------|--------------|-------------|----------------------------------------------------------------------------|------------------|-----------------|
| <u>1</u>  | <u>75</u>       | <u>Prem.</u> | <u>-</u>  | <u>Edcal</u> | <u>B</u>    | <u>6.25% Colmanite, 1% S<sup>2</sup> salt, 1/2% Fluoride</u>               | <u>1.38</u>      | <u>15.2</u>     |
| <u>1T</u> | <u>400</u>      | <u>1400</u>  | <u>-</u>  | <u>"</u>     | <u>"</u>    | <u>6.25% Colmanite, 1% S<sup>2</sup> salt, 1/2% Fluoride, 2% Cellulose</u> | <u>1.38</u>      | <u>15.2</u>     |
| <u>2</u>  | <u>1600</u>     | <u>50/50</u> | <u>-</u>  | <u>"</u>     | <u>"</u>    | <u>(SH-100), 2% Colmanite, 12% Colmanite, 2% KCl (Brine)</u>               | <u>1.46</u>      | <u>12.8</u>     |

PRESSURES IN PSI  
CIRCULATING 200 DISPLACEMENT 1100  
BREAKDOWN 7800 MAXIMUM  
AVERAGE FRACTURE GRADIENT  
SHUT-IN INSTANT 0-MIN. 10-MIN.  
HYDRAULIC HORSEPOWER  
ORDERED AVAILABLE USED  
AVERAGE RATES IN BPM  
TREATING 7 DISPL. 4 OVERALL 6  
CEMENT LEFT IN PIPE  
FEET 11.75 REASON Shoe Joint

SUMMARY  
PRESLUSH: 200 RBLs TYPE Med. Flk. Super Flk.  
LOAD & BKDN: 200 GAL. 10, 11, 14.5 PAD: 200 GAL.  
TREATMENT: 200 GAL. DISPL. 21, 7, 7.3  
CEMENT SLURRY: 200 GAL. 4.16  
TOTAL VOLUME: 200 GAL. 768.4  
REMARKS  
See Job Log

CUSTOMER

## JOB LOG

WELL NO. 51

LEASE

Dunn

TICKET NO.

011515

CUSTOMER

BCO Inc

PAGE NO.

1

JOB TYPE

4 1/2 L.S. 2 stage

DATE

1-13-92

FORM 2013 R-2

| CHART NO. | TIME    | RATE (BPM) | VOLUME (GAL) | PUMPS             |                  | PRESSURE (PSI) |           | DESCRIPTION OF OPERATION AND MATERIALS          |
|-----------|---------|------------|--------------|-------------------|------------------|----------------|-----------|-------------------------------------------------|
|           |         |            |              | 1                 | 2                | TUBING         | CASING    |                                                 |
|           | 16:20   |            |              |                   |                  |                |           | On Location w/1700 Equip                        |
|           | 21:30   |            |              |                   |                  |                |           | Pump Truck & 1st stage on loc Requested @ 21:30 |
|           | 22:00   |            |              |                   |                  |                |           | Safety Meeting, Spot & Rig up Equip             |
|           | 22:15   |            |              |                   |                  |                |           | 2nd Stage Bulk on loc. Requested @ 0200         |
|           | 1-14-90 |            |              |                   |                  |                |           |                                                 |
|           | 0340    | 8          | 20           |                   |                  |                | 600       | Pump Mud Flush After @                          |
|           | 0343    | 8          | 2            |                   |                  |                | 600       | Pump H <sub>2</sub> O Spacer                    |
|           | 0344    | 8          | 11.6*        |                   |                  |                | 700       | Mix & Pump head @ 15.2 #/gal                    |
|           | 0346    | 8/5        | 100          |                   |                  |                | 400       | Mix & Pump Tail @ 15.2 #/gal                    |
|           | 04:00   |            |              |                   |                  |                |           | Shut Down Drop Plug                             |
|           | 0403    |            | 21           | total             | H <sub>2</sub> O |                | 200       | Pump H <sub>2</sub> O Displacement              |
|           | 0407    | 8          | 79.5         | total             | mud              |                | 200       | Pump Mud Displacement                           |
|           | 0420    | 4          | 53           | mud               | displacement     |                | 250       | Caught Cement                                   |
|           | 0430    | 3          |              |                   |                  |                | 800/1200  | Displacement in, Pump Plug                      |
|           | 0435    |            |              |                   |                  |                |           | Drop opening Bomb (Float Held)                  |
|           | 05:05   |            | 10           | mud               |                  |                | 150       | Open D.V. tool                                  |
|           |         |            |              |                   |                  |                |           | Ris to Circulate until 08:30                    |
|           | 0913    | 5          | 5            | H <sub>2</sub> O  |                  |                | 250       | Pump H <sub>2</sub> O Spacer                    |
|           | 0914    | 5          | 10           | Calc <sup>2</sup> | H <sub>2</sub> O |                | 250       | Pump Calc <sup>2</sup> H <sub>2</sub> O         |
|           | 0916    | 5          | 10           | H <sub>2</sub> O  |                  |                | 325       | Pump H <sub>2</sub> O Spacer                    |
|           | 0917    | 5          | 70           | SuperFlush        |                  |                | 300       | Pump SuperFlush 102                             |
|           | 0922    |            | 5            |                   |                  |                |           | Wash Pumps & Lines                              |
|           | 0923    | 5          | 10           | H <sub>2</sub> O  | Spacer           |                | 250       | Pump H <sub>2</sub> O Spacer                    |
|           | 0925    | 8          |              |                   |                  |                | 400       | Mix & Pump Cement @ 12.8 #/gal                  |
|           | 10:04   |            |              |                   |                  |                |           | Cement to surface                               |
|           | 10:22   |            | 416          |                   |                  |                |           | Shut Down, Drop Plug                            |
|           | 10:24   | 5          | -            |                   |                  |                | 200       | Start Pumping Displacement                      |
|           | 10:24   | 5          | 0            |                   |                  |                | 350       | Caught Cement                                   |
|           | 10:40   |            | 99-          |                   |                  |                | 1600/3000 | Displacement in, Pump Plug, Close DV            |
|           |         |            |              |                   |                  |                | 300/10    | Open Release to check tool (OK)                 |
|           |         |            |              |                   |                  |                |           | Job Complete                                    |
|           |         |            |              |                   |                  |                |           | Thank You For Calling                           |
|           |         |            |              |                   |                  |                |           | Halliburton Services                            |
|           |         |            |              |                   |                  |                |           | John, Carl, & Crew                              |

CUSTOMER