

Form 5-331  
(May 1963)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)Form approved.  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

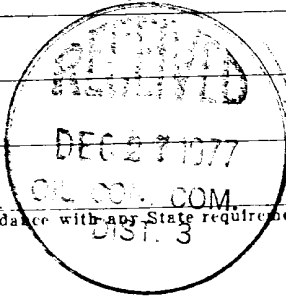
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Wildcat

2. NAME OF OPERATOR  
Bco, Inc.

3. ADDRESS OF OPERATOR  
P.O. Box 669 Santa Fe, N.M. 87501

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



5. LEASE DESIGNATION AND SERIAL NO.  
NM-5988

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal E

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLM. AND  
SURVEY OR AREA  
17-22N-9W NMPM

12. COUNTY OR PARISH  
San Juan

13. STATE  
NM

14. PERMIT NO.  
GR 6424

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
790' FNL 790' FWL Sec 17 T22N R9W NMPM

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

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☒FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☒(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☒(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 sub-surface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

In summary, work performed is as follows:

1. Plugged Gallup perforations, (3655-3842), w/100 sacks cement.
2. Perforated 2762-72;2802-06;2817-22;2828-32;2845-50 & 2860-71 w/two 3-1/2" glass shots per foot. Tested zones, determined they were wet and plugged same w/75 sacks cement.
3. Perforated 2614-24 w/two 3-1/2" glass shots per foot. Tested zone, determined it was wet and plugged same with 75 sacks of cement.
4. Perforated 2647-52 and 2696-2706 w/two 3-1/2" glass shots per foot. Tested & determined zones would produce oil. Ran pump and placed in production. Making about 50 bbls. of water per day with a trace of oil.
5. Intend to move pulling unit on and determine if both zones are making water. If they are, they will be plugged and an approved program will be obtained from the USGS for plugging the well.

If one zone is making most of the water, and the other the oil we will isolate the oil zone, frac it and test it.

6. A well completion report will be filed when work on the well is completed.

ATTACHMENTS USGS-2 OCC-1

CBL run 10/31/77

Gamma Ray run 10/24/77

Gamma Ray Neutron run 10/31/77

Detailed daily summary of work performed 10/24/77 thru 12/15/77

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

SIGNED

TITLE President

DATE

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

RECEIVED

\*See Instructions on Reverse Side

DEC 20 1977

FEDERAL E-1  
NM-5988  
Daily Summary of Work Done

- 10/24/77 Set cement retainer at 3096' and plugged Gallup (3655-3842) with 100 sacks Class B cement. Displaced cement to 3605. Ran depth control Gamma Ray log from 1900-2950, and perforated with two 2-1/8" glass shots at 2900. Set cement retainer at 2874, obtained circulation on back side from 2900 to surface and cemented with 350 sacks 50-50 POZ cement.
- 10/31/77 Ran Simultaneous Gamma Ray & Neutron log from 200-2873 and cement bond log from 1400-2869. Perforated 2871-60;2850-45;2832-28;2822-17;2806-02;2772-62;2706-2696;2652-47;2624-14 with two 3-1/2" glass shots per foot.
- 11/01/77 Set packer at 2779 and swabbed 2802-2871 dry in three runs. Set packer at 2747 and determined 2762-72 was making 300' of water per run.
- 11/02/77 Broke 2802-2871 with water at 3000 PSI. Treated w/500 gals 15% MCA and 60 balls. Flushed with 30 bbls water. Instant S.I. 1150#. Swabbed injected fluid back and well making 400' of gas cut water per half hour. Set retrievable BP at 2728 and left packer unset during the night.
- 11/03/77 Swabbed 2614-2706 down. Making some gas, some water and a trace of oil at all times. Set packer at 2667 and swabbed 2696-2706 dry.
- 11/04/77 2696-2706 had 400' of fluid entry, (mostly oil), during over night shut-in. 2614-52 raised fluid level to within 1000' of the surface.
- 2696-2706 Spear headed 250 gals 15% MCA. Truck hit formation too hard and registered breakdown was 3000. Flushed w/20 bbls. water at 1800 PSI and 4 BPM. Instant SIP 1500, 8 Min. 750, could not move BP.
- 2614-2652 Washed 500 gals 15% MCA by perforations twice. Set packer at 2675 and put acid away down the back side. Flushed with 1400 gals water at 1600# and 6 BPM. Packer didn't hold completely, but, most of acid probably went in 2614-52. Instant SIP 1450, 5 min. 1200, 15 min. 750. Swabbed 2614-2706 down.
- Test 2647-2706. Set packer at 2631. Swabbed zone down, making some gas.
- 11/05/77 2647-2706 raised fluid to within 200' from surface. Oil on top but primarily water. Swabbed dry on fifth run. Fourth run burned good and had a good trace of oil. Entry rate 250' per hour.
- 11/09/77 Pulled BP and packer out of hole.
- 11/10/77 Set cement retainer at 2742. Plugged 2762-2871 with 75 sacks Neat B cement. Stung out of retainers and reversed out 1 bbl. of cement.
- 11/11/77 Swab tested 2614-24. Determined fluid entry 600' per half hour. Some gas, some water and no trace of oil.
- Swab tested 2647-52. Dried up on third run. Determined fluid entry about 50' per hour. Some gas, some water and a trace of oil. Shut in over night.
- 11/12/77 2614-24 dry on first run. Spear headed 250 gals 15% MCA pump in 1300#. Flushed with 20 bbls. water at 1600# and 4 BPM. Instant SIP 1100, 5 min. 550, 10 min. 250. Swabbed dry in three runs. Made a trace of oil.
- Swabbed 2647-2706. Established rate of fluid entry at 200' per 15 minutes. Each run had some gas and about 1% oil. Shut down for the weekend.

FEDERAL E-1  
NM-5988  
Daily Summary of Work Done

Continuation

11/14/77 2647-2706 raised fluid to within 200' of surface. Swabbed down, gas burning 40 seconds before fluid. Getting about 50' of 1% oil.

Set Baker drillable BP at 2635. Pressured up on it and it would not hold. Set Go Elite BP at 2632. It held pressure.

11/15/77 Set packer at 2307 and squeezed 2614-2624 with 75 sacks of Neat B cement.

11/29/77 to 11/30/77

Drilled cement from 2426-2630.

12/01/77 to 12/15/77

Landed tubing at 2720 or 15' off bottom. Ran rods and placed 2647-2706 in production. Well being tested as of 12/15/77. Presently making 48 bbls. of water with a trace of oil. (about 1%) Waiting on pulling unit to try to determine if both sets of perforations making water or if one is making water and the other oil.