

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"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-8005
2. NAME OF OPERATOR BCO, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 135 Grant, Santa Fe, NM 87501		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1650 FEL 1980 FSL Sec 1 T23N R9W NMPM		8. FARM OR LEASE NAME Federal D
14. PERMIT NO.		9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6892		10. FIELD AND POOL, OR WILDCAT Nageezi Gallup
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 1 T23N R9W NMPM
		12. COUNTY OR PARISH San Juan
		13. STATE NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(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.)

Completed plugging of Wellbore on October 27, 1992 as per the attached Report of Operations. Leonard Bixler of Bureau of Land Management - Farmington witnessed entire operation.

Equipment has been removed from location. Dale Worth of Bureau of Land Management has recommended that separator pit remain open and fenced until Bureau of Land Management Industry Pit Closure Guidelines are in final form. Closure is anticipated in first or second quarter of 1993.

Attachments: Report of Operations  
Cementer's Log

RECEIVED  
NOV 6 1992  
OIL CONSERVATION  
DIST. 3

Approved as to plugging of the well bore.  
Liability under bond is retained until  
surface restoration is completed.

RECEIVED  
BLM  
OCT 30 PM 1:17  
DIST. 3

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

SIGNED [Signature] TITLE Petroleum Engineer

DATE October 28, 1992

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED

DATE NOV 04 1992

AREA MANAGER

\*See Instructions on Reverse Side

# REPORT OF OPERATIONS

## PLUG AND ABANDONMENT

Federal "D" No. 2

1980' FSL x 1650' FEL Sec 1 T23N R9W

San Juan County, New Mexico

10/21/92 - MIRU Petro Well Service. Notified Leonard Bixler of BLM that operations would begin on 10/22/92 at 8:00 am. Called Leonard at home at 7:00 pm and changed start date to 10/23/92 at 8:00 am.

10/22/92 - No Activity.

10/23/92 - Leonard Bixler (BLM-FRA I&E) on location. Cementers, Inc. began mixing 75 bbl mud with 16 sx HYG-200. Rig crew attempted to fish piston. Fishing tool would not go below 2200' because of paraffin. Blew down annulus from 190 psig to 0 psig. Installed BOP. Pulled 6 stands and found tubing plugged and full of fluid. Installed perforated sub on top of tubing string and swabbed fluid from tubing to casing. (Fell through paraffin while swabbing.) Ran fishing tool and fished piston and paraffin knife but could not fish spring stop. Tubing still plugged. Attempted to remove perforated sub and pump out plug in tubing but rig engine broke down. Shut down at 11:40 am.  
Note: Rig crew repaired engine at 5:00 pm and round tripped tubing to remove piston stop and trash from seating nipple.

10/24/92 - 10/25/92 - No activity: down for weekend.

10/26/92 - L. Bixler on location. Mud properties (witnessed by Bixler): Density - 8.9 lb/gal, viscosity - 50 sec/qt. Ran in hole with tubing to 5268' and tagged bottom. Received permission from Bixler to spot cement from 5268'.

### **Gallup Plug:**

Spotted 60 sx (71 ft<sup>3</sup>) class "B" neat cement mixed at 15.6 lb/gal from 5268' to 4475'. Reversed out from 4468' w/ 25 bbl. Waited 15 minutes, checked plug with fluid and found hole standing full. Spotted 24 bbl mud from 4468' to 3013'. Layed down 74 jts tubing (found scale on bevels of top 20 stands).

Rigged up Great Guns logging and perforated at 3013', 1580' (7' lower than required because of collar at 1573'), 1053', and 180' with two (2) 0.38" holes per interval. Ran in hole with sinker bar on sand line and tagged Gallup plug at 4700'. (Tagging method approved by Ken Townsend, BLM.)

### **Plug 3013'-2913' inside & outside casing:**

Ran in hole with packer and set at 2644'. Established injection into Mesa Verde perms at 3013' and cemented with 34 sx (59 ft<sup>3</sup>) class "B" with 6% gel and 3% CaCl<sub>2</sub> at 13.5 lb/gal. Cemented at 2.5 BPM at 900 psig. Displaced with 13.5 bbl then walked squeeze to 900 psi static pressure with 1.0 bbl. Displacement complete at 3:30 pm. Released packer, pulled 10 stands and reversed with 25 bbl. Pulled packer to 600' and left swinging overnight.

10/27/92 - L. Bixler on location. Tagged cement plug at 2780' with packer. Spotted 20 bbl mud from 2780' to 1573'.

***Plug 1580'- 1343' inside & outside casing:***

Set packer at 1104'. Established injection into PC/Fruitland perms at 1580' w/ 2 BPM at 1500#. Cemented with 78 sx (135 ft<sup>3</sup>) class "B" with 6% gel and 3% CaCl<sub>2</sub> at 2 BPM with 700 psig. Displaced with 6.5 bbl then walked squeeze up to 1100 psig static with 1.5 bbl. Displacement complete 8:50 am. Held squeeze for 25 minutes. Plug held.

Moved packer to 1320' and reversed w/ 10 bbl water. Spotted 5 bbl mud from 1320' to 1053'. Layed down 18 jts.

***Plug 1053'- 756' inside & outside casing:***

Set packer at 206'. Established injection into perf at 1053' with 1000 psig at 1.5 BPM. Squeezed Ojo Alamo with 75 sx (130 ft<sup>3</sup>) class "B" w. 6% gel and 3% CaCl<sub>2</sub> at 13.5 lb/gal and 38 sx (45 ft<sup>3</sup>) class "B" with 3% CaCl<sub>2</sub> at 15.6 lb/gal. Displaced plug to 600' with 8 bbl. Final squeeze pressure 200 psig.

Pulled packer and ran in hole with bull plug and perforated sub. Attempted to tag plug after 1:45 but cement too soft. Tubing drug 1000 lb pulling out of plug but would not hold string weight. Pulled tubing and found perforated sub full of cement.

Reversed from 751' and circulated up 1 bbl good cement. (Sample later observed to be set up 1 hr later [3 hr total set time]). Spotted an additional 34 sx (40 ft<sup>3</sup>) plug from 751' to 300' with class "B" containing 3% CaCl<sub>2</sub> mixed at 15.6 lb/gal. With approval of the BLM representative this additional cement plug was spotted in lieu of tagging the 1053'-753' plug.

5 bbl mud was spotted from 300' to 180'.

***Surface Plug 180' to surface:***

Pulled out of hole laying down all tubing. Bullheaded down casing into holes at 180' and established injection of 1 BPM at 100 psig. Cemented surface plug and obtained circulation with 70 sx (83 ft<sup>3</sup>) cement. Left hole full of cement.

Cut off 8.625" and 4.50" casing 1' below ground level. Had 4 inches of cement back-fall in 1 hr. Tack welded abandonment marker to 8.625" and 4.5" casing. Grouted in marker with 5 sx cement and leveled ground with topsoil. Well abandonment complete.



# CEMENTERS, INC.

P. O. BOX 302 • FARMINGTON, NEW MEXICO 87499 • (505) 632-3683

WELL # Federal "D" #2

DATE 10/23 + 26/27/92

CEMENT USED: 1875X69060/390Coc'2

DISPLACEMENT BARRELS: \_\_\_\_\_

CEMENT CIRCULATED: 1425X390Coc'2

DISPLACEMENT RATE: \_\_\_\_\_

CEMENT RATE: 605X Nrat

DISPLACEMENT PRESSURE: \_\_\_\_\_

PRESSURE: 3895X Total

DISPLACEMENT TIME: \_\_\_\_\_

CEMENT TIME: \_\_\_\_\_

PLUG BUMP TIMES & PRESSURE: \_\_\_\_\_

OTHER: Spot 605X 5286' (9:30) 24BI mud 4500' to 3000' Top plug

Squirt 345X 69060/390Coc'2 2644' dis 14 1/2 BL (3:30)

Squirt 785X 69060/390Coc'2 1573' dis 8 BI 8:50

Spot mud 1320' 755X 69060/385X 390Coc'2 1053' to 600' (10:45)

Spot 345X 390Coc'2 751' / 180' to surface B.H. 705X 390