

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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, New Mexico 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 1980 FSL - 1650 FEL 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 13. STATE San Juan NM

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input 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.)\*

Propose to plug and abandon well as per the attached procedure. Mud used in procedure will be 8.4 lb/gal or greater. Minimum mud density of 8.4 lb/gal will result in hydrostatic pressure at mid-pay of 2259 psig, which is 559 psi greater than initial bottom hole pressure of 1700 psig.

VERBAL APPROVAL OF PROCEDURE (AS AMENDED)  
RECEIVED FROM WAYNE TOWNSEND 10/16/92.  
PLAN TO BEGIN OPERATIONS 0800 HRS 10/21/92.  
NLD 10/16

RECEIVED  
OCT 29 1992  
OIL CON. DIV.  
DIST. 3

92 OCT 19 PM 1:48  
OIL CON. DIV. N.M.  
RECEIVED  
BLM

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

SIGNED <u>[Signature]</u>	TITLE <u>Petroleum Engineer</u>	DATE <u>10/16/92</u>
(This space for Federal or State office use)		
APPROVED BY <u>[Signature]</u>	TITLE <u></u>	DATE <u>10/28/1992</u>
CONDITIONS OF APPROVAL, IF ANY:		

APPROVED  
DATE 10/28/1992  
AREA MANAGER

\*See Instructions on Reverse Side

NMCCD

**PLUG AND ABANDON PROCEDURE**  
**Federal "D" No. 2**  
1980' FSL x 1650' FEL "J" Sec 1 T23N R9W  
San Juan County, New Mexico

General

Well is uneconomical to operate at current oil prices. Holding in temporary abandonment status cannot be justified due to cost of casing integrity tests mandated by regulations. Well will be plugged and abandoned.

Required Plugs:	Gallup	5286'- 4918'
	Mesa Verde	3013'- 2913'
	PC/Fruit	1573'- 1343'
	Ojo Alamo	1053'- 756'
	Surface	180'- surf

1. Frac tank should be set and full of water. Rig up pulling unit, pump and pit. Small working pit should also be prepared.

Start preparing 100 bbl of 40 viscosity mud.

2. Nipple up BOP. Open bradenhead valve. Tag bottom, pull and tally tubing.
3. Rig up Petro Wireline and perforate with two (2) 0.38" holes at the following locations: 3013', 1573', 1053', and 180'.

Gallup Plug

4. Run in hole with RTTS packer and set at 4500'. Squeeze Gallup perms 5110'- 5236' with 43 sx (46 ft<sup>3</sup>) Class "G" w/ 2% CaCl<sub>2</sub>. Mix cement at 16.4 lb/gal to yield 1.06 cubic feet per sx. Wash pumps and lines then displace cement to 4918' using 24 bbl water.
5. Hold squeeze for 2 hours then check for flowback. Move packer to 4900', reverse 19 bbl into tubing. Continue in hole and tag plug. **If soft tag, withdrawal immediately without delay.** It is preferable to squeeze Gallup on day 1 and tag plug on day 2 if timing works out.
6. Spot 30 bbl of 40 viscosity mud from 4900' to 3013'. (Balanced plug displacement = 10.9 bbl) Mud density will be 8.4 lb/gal or greater. Withdrawal tubing through mud at a rate of 1 minute per joint.

Mesa Verde Plug

7. Set packer at 2650'. Squeeze Mesa Verde via hole at 3013' with 34 sx (59 ft<sup>3</sup>) Class "B" with 6% gel and 3% CaCl<sub>2</sub>. Mix at 13.5 lb/gal to yield 1.73 ft<sup>3</sup>/sx. Wash pumps & lines then displace cement to 2913' with 14.5 bbl water.
8. Hold squeeze for 1 hr and check for flowback.

9. Spot 21 bbl 40 viscosity mud from 2900' to 1573'. Balanced plug displacement will be 5.5 bbl. Withdrawal from plug at 1 minute per joint.

#### **PC/Fruitland Plug**

10. Set packer at 1100'. Establish rate and squeeze PC/Fruitland through hole at 1573' with 78 sx (135 ft<sup>3</sup>) Class "B" cement with 6% gel and 3% CaCl<sub>2</sub>. Mix cement at 13.5 lb/gal to yield 1.73 ft<sup>3</sup>/sx. Wash pumps & lines then displace cement to 1343' with 8.1 bbl.
11. Hold squeeze for 1.5 hrs and check for flowback.
12. Spot 4-1/4 bbl mud from 1320' to 1053'. Balanced plug displacement is 4 bbl. Withdrawal from mud at 1 minute per joint.

#### **Ojo Alamo Plug**

13. Set packer at 400'. Establish injection into perf at 1053' then cement with 75 sx (130 ft<sup>3</sup>) Class "B" w/ 6% gel and 3% CaCl<sub>2</sub> at 13.5 lb/gal. Tail in with 38 sx (45 ft<sup>3</sup>) Class "B" with 3% CaCl<sub>2</sub> at 15.6 lb/gal to yield 1.18 ft<sup>3</sup>/sx. Wash pumps & lines then displace cement to 756' with 7.2 bbl water.
14. Hold squeeze for 1.5 hrs. Check for flowback. Pull out of hole with packer. Run in hole open ended and spot 9 bbl mud from 730'- 180'. Balanced plug displacement is 1/2 bbl.
15. Tag Ojo Alamo plug with open ended tubing. Withdrawal from mud at 1 minute per joint.

#### **Surface Plug**

16. Close blind rams on BOP. Establish injection down casing via casing valve into perf at 180'. Cement with 84 sx (99 ft<sup>3</sup>) Class "B" with 3% CaCl<sub>2</sub> at 15.6 lb/gal to yield 1.18 ft<sup>3</sup>/sx.
17. Release pressure (if any) immediately and remove BOP (remove cement from inside). Remove tubing head and cut off casing head just below ground level. Weld toombstone onto casing.
18. Perform required surface rehabilitation.

#### **Cementing Materials Summary**

43 sx Class "G" w/ 2% CaCl<sub>2</sub>  
187 sx Class "B" w/ 6% gel and 3% CaCl<sub>2</sub>  
122 sx Class "B" w/ 3% CaCl<sub>2</sub>