

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
ARCO Oil and Gas Company

3. Address and Telephone No.  
1816 E. Mojave, Farmington, NM 87401 (505) 599-4316

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit H (SENE) 1850' FNL & 1165' FEL Sec. 9, T-27N, R-2W

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.  
NMNM 05750 (PC)

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1408001450 (MV)

8. Well Name and No.  
Graham C WN Fed Com #1

9. API Well No.  
30-045-06672

10. Field and Pool, or Exploratory Area  
Blanco Mesaverde and Blanco Pictured Cliffs So.

11. County or Parish, State

San Juan, New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☒ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)

Notice of intent to P & A the Graham "C" WN Fed. Com #1 was approved by the BLM on January 8, 1992, subject to BLM's noted amendments to abandonment procedure. Plugging operations were completed on January 14, 1992 per the BLM amended procedure, except as follows:

Step #3: The 5-1/2" packer pulled out of hole was larger so we did not round trip w/4-1/2" bit and scraper.

Step #15: Perforated squeeze holes @ 1448' instead of 1280'.

Step #16: Plug #5 was pumped to cover the Ojo Alamo from 1280' to 1180' with 183 sacks instead of 46 sacks (23 sacks cement inside casing and 160 sacks on outside of casing).

Step #18 and 19: Plug #6 was pumped from 342' to surface w/40 sacks cement in 5-1/2" casing. SI casing. Pumped 155 sacks from 342' to surface in 5-1/2" x 9-5/8" and 5-1/2" x 8-3/4" annulus. Squeeze cement into bradenhead at 250 psig.

NOTE: Procedure changes above approved by Leonard Bixler, BLM on 1/13/92. See attached Daily Workover Log.

NOTE: Upon final reclamation and in accordance with BLM regulations, ARCO will submit a Final Abandonment Notice.

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

Signed Richard A. Gorman

Title Production Supervisor

Date 1/27/92

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_  
Approved as to plugging of the well by \_\_\_\_\_  
Liability under bond is waived until \_\_\_\_\_  
surface restoration is completed.

Date

JAN 30 1992  
AREA MANAGER

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

NMOCD

illing - Completion - Workover Log



Well number	1	Date	1/8/92 to 1/14/92
District	Western		
Location of state	New Mexico		
City or place	San Juan		
Company	Bedford Inc.		
Well name	Graham "C" Com		
Well type	Blanco Mesaverde & Blanco PC South		
Well status	Plug and Abandon		

1/8/92

MI & RU BEDFORD

~~Well dead-Nipple down wellhead and nipple up BOP's. Pressure test BOP's to 700 psi.~~  
Pick up tubing 40,000 psi string weight to release Brown Oil Tool Packer. Pulled out of hole with 43 stands of 2-7/8" tubing. Tubing very tight and scaly. Drain water lines and shut down overnight.

1/9/92

Continued to pull out of hole with 15-1/2 stands of 2-7/8" tubing, sliding sleeve, a 5-1/2" Brown Oil Tool Packer and two joints of 2-3/8" tubing as tail pipe. Inside of joint 129 found an Otis tubing plug connected to 1 joint of 1" tubing 34' long. One inch tubing looked as if tubing had separated in a collar. There was a 1/2" hole in the middle of the 129th joint. ~~Lay down Otis tubing plug and joint of 1" tubing. Lay down sliding sleeve, Brown Oil Tool Packer and 1 joint of 2-3/8" tubing and one bad joint of 2-7/8" tubing.~~  
Pick up Baker 5-1/2" cement retainer and run in hole on 1 joint of 2-3/8" tubing and 136 joints of 2-7/8" tubing. Set cement retainer at 4192', after pumping 25 bbls of water to clear tubing. Pressure tested tubing to 1200 psi. Tested O. K. Established rate into formation and pumped ~~Plug #1 Pumped 83 sacks (98 cu ft) of Class B neat cement with 77 sacks under cement retainer~~ in 5-1/2" casing and open hole. Pull out of hole and left 6 sacks cement on top of cement retainer. Pull tubing up to 4142' and spot 7 bbls 9.0 ppg, 50 vis mud, displaced with 21 bbls water. Lay down tubing to pull up to 3838' to pump plug #2. Pumped 17 sacks (20 cu ft) Class B neat cement from 3838' to 3688'. Displaced with 20 bbls water. Pull out of hole to 3688' ~~and spotted 34 bbls 9.0 ppg, 50 vis mud from 3688' to 2201'~~ Pull out of hole with 2-7/8" tubing to 2600'. Shut down overnight. Water had been flowing up casing.

01/10/92

Open casing to pit. Casing flowing one inch stream of water. Bradenhead flowing while spotting mud. ~~Casing leak at unknown depth.~~  
Continued to pull out of hole wit 2-7/8" tubing to 2201'. Rigged up pump truck and pumped 4 bbls 9.0 ppg, 50 vis mud.  
Plug #3-P. C. perfs from 2201' to 2084' with 20 sacks (24 cu ft) Class B neat cement with 2% CaCl<sub>2</sub>. Displaced with 11 bbls of water. Pull out of cement with 2-7/8" tubing. WOC Pull out of hole with 2-7/8" tubing and one joint of 2-3/8" tubing.

Joints	Feet	Weight	Grade	Thread	Class	Size O.D. casing	Time summary
						Shoe	Day work
						Set joint	Hours w/dp
						Collar	Hours wo'dp
						Joints pipe	Hours standby
						Total	
						Rkb to	
						Depth set	Total day work
						Signed	

*Richard C. Kemick*

## illing - Completion - Workover Log

Graham "C" Com

Blanco Mesaverde &amp; Blanco PC South

San Juan

Bedford Inc.

W.D. No.

Well number

1

Date

1/8/92 to 1/14/92

District

Western

Province / state

New Mexico

Title

Plug and Abandon

1/10/92 - Continued

Run in hole tag cement at 2048'. Pull out of hole with setting tool. Run in hole with perforating tool and perforate 3 holes at 1925'. Pull out of hole with perforating tool and rig down wireline. Pick up 5-1/2 Baker cement retainer and run in hole to 1861'. Plug #4-Fruitland from 1925' to 1825' with 60 sacks (71 cu ft) Class B neat cement, left 7 sacks cement on top of cement retainer. Well started to kicking while spotting mud from 1800' to 1280'. Spotted 12 bbls 9.0 ppg, 50 vis mud. Pulled out of hole with 2-7/8" tubing to 1200' and shut in well. Left casing flowing to pit water and gas kicks. Casing flowing 1" stream of water. Hauled 75 bbls water from pit to disposal. Shut down overnight.

1/11/92

One inch stream of water flowing out casing. Bradenhead was dead.

Continue to pull out of hole with 2-7/8" tubing and setting tool. Rig up and run in hole with perforating tool and perforate 3 holes at 1280', 50' below Ojo Alamo. Pick up 5-1/2" Baker cement retainer and run in hole to 1230'. Wait 2 hours for premixed mud. Pumped 30 bbls of 9.0 ppg, 50 vis mud down tubing to fill 5-1/2" casing from 1830' to surface. Set 5-1/2" cement retainer @ 1230'. Pumped 70 bbls 9.0 ppg, 50 vis mud into 5-1/2" x 8-3/4" annulus (requested by Leonard Bixler with BLM). While attempting to fill 5-1/2" x 8-3/4" annulus with 9.0 ppg, 50 vis mud, bradenhead circulated full water no mud.

Plug #5-Ojo Alamo from 1280' to 1180' with 183 sacks (216 cu ft) Class B neat cement w/2% CaCl<sub>2</sub>. Left 17 sacks (20 cu ft) above cement retainer, 6 sacks (7 cu ft) below and 160 sacks (189 cu ft) outside 5-1/2" casing. Shut in casing while pumping cement. Bradenhead had full returns of water, then blackish water cut mud. Shut in bradenhead. Pull out of hole with 2-7/8" tubing and setting tool. WOC Shut down overnight and Sunday.

1/13/92

Thaw out casing and bradenhead valve. Casing dead, bradenhead flowing 1/4" stream of water. Attempted to pressure test casing, circulated out bradenhead. Circulated diesel down casing and out bradenhead with 24 bbls of water. Casing leak at 342'.

Run in hole with 2-7/8" tubing and tag cement at 1080'. Pull out of hole and lay down tubing. Establish circulation down casing and out bradenhead.

oints	Feet	Weight	Grade	Thread	Class	Size O.D. casing			Time summary		
						Shoe			Day work		
						Set joint			Hours w/dp		
						Collar			Hours wo/dp		
						Joints pipe			Hours standby		
						Total					
						Rkb to					
						Depth set			Total day work		
						Signed					

R3B- 228-F

Richard O. Remick

illing - Completion - Workover Log

Well number	1	Date	1/8/92 to 1/14/92
District	Western		
Province or state	New Mexico		
County or parish	San Juan		
Operator	Bedford Inc.		
Well No.			
Well Name	Plug and Abandon		

1/13/92 - Continued

Plug #6-Pumped 40 sacks (47 cu ft) Class B neat cement from 342' to surface in 5-1/2" casing. Shut in casing. Pumped 155 sacks (183 cu ft) from 342' to surface in 5-1/2" x 9-5/8" and 5-1/2" x 8-3/4" annulus. Squeeze cement into bradenhead at 250 psig. Shut in well. WOC. Shut down overnight. Procedure changes approved by Leonard Bixler with BLM on 1/13/92. Did not perforate at 262'.

1/14/92

Thaw out wellhead and 5-1/2" casing and 5-1/2" x 9-5/8" annulus was dead. Nipple down BOP's and dig out wellhead. Cut off wellhead. Install P & A marker with 8 sacks cement. Rig down Bedford and move to next location. Operation witnessed by Leonard Bixler with Bureau of Land Management.

its	Feet	Weight	Grade	Thread	Class	Size O.D. casing	Time summary
						Shoe	Day work
						Set joint	Hours w/dp
						Collar	Hours wo/dp
						Joints pipe	Hours standby
						Total	
						Rkb to	
						Depth set	Total day work
						Signed	

Richard O. Lemick