

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**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

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

2. Name of Operator  
AMOCO PRODUCTION COMPANY  
Attention: Gail Jefferson Room 1942

3. Address and Telephone No.  
P.O. Box 800, Denver, Colorado 80201 (303) 830-6157

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
990' FNL 1650' FEL Sec. 31 T 28N R 7W Unit B

5. Lease Designation and Serial No.

SF 078500 A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

San Juan 28-7 NP 68

9. API Well No.

3003960071

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

Rio Arriba New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Bradenhead Repair
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)

Amoco proposes to perform a Bradenhead repair per the procedures attached.

RECEIVED  
FEB 17 1995  
OIL CON. DIV.  
DIST. 3

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

Signed

*Gail M. Jefferson*

Title

Business Assistant

Date

02-08-1995

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

APPROVED

FEB 13 1995

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 statement or representations as to any matter within its jurisdiction.

\* See Instructions on Reverse Side



## SJOET Well Work Procedure

**SJ 28-7 #68**

**Version:** #1  
**Date:** February 9, 1995  
**Budget:** DRA  
**Repair Type:** Bradenhead

55 FEB 10 PM 12:58

070 11/11/94, NMA

### Objectives:

1. Test wellhead for seal leak, if no leak found continue with procedure as outlined.
2. Casing will be pressure tested..
3. CBL will be run to determine top of cement
4. Remedial cementing will be performed to insure zonal isolation.
5. Return well to production

### Pertinent Information:

**Location:** 990' FNL, 1650' FEL, S31, T28N, R7W  
**County:** Rio Arriba  
**State:** New Mexico  
**Lease:** SF-078500  
**Well Flac:**

**Horizon:** MV  
**API #:** 300-39-60071  
**Engr:** Kwartin  
**Phone:** H--(303)343-3973  
W-(303)830-5708  
P--(303)553-6332

### Economic Information:

APC WI:	0%	MV Prod. Before Repair:	200 MCFD
Conoco WI:	100%	MV Anticipated Prod.:	200 MCFD
Estimated Cost:	\$42,500		
Payout:	6 YEARS		
Max Cost -12 Mo. P.O.	NA		

**Note:** Economics will be run on all projects that have a payout exceeding ONE year.

**\*Note:** Economics run based upon 200 MCFD production vs 0 MCFD.

### Formation Tops: (Estimated formation tops)

Nacimiento:		Menefee:	4213'
Ojo Alamo:		Point Lookout:	4684'
Kirtland Shale:		Mancos Shale:	4853'
Fruitland:	2049'	Gallup:	
Pictured Cliffs:	2485'	Graneros:	
Lewis Shale:		Dakota:	
Cliff House:	4149'	Morrison:	

### Bradenhead Test Information:

**Test Date:** 7/6/94 **Tubing:** 331 psi **Casing:** 335 psi **BH:** 335 psi

Time	BH	CSG	INT	CSG
5 min	156			
10 min	148			
15 min	137			

**Comments:** Bradenhead has steady flow of gas.

1. Contact Federal or State agency prior to starting repair work.
2. Catch gas and/or water sample off of bradenhead and casing, and have analyzed.
3. Install and/or test anchors.
4. MIRUSU. Check and record tubing, casing and bradenhead pressures.
5. Blow well down, kill well if necessary with 2% KCL.
6. Nipple down well head, nipple up and pressure test BOP's.
7. Trip in the hole and tag PBTD, check for fill, trip and tally out of hole with tubing checking condition of tubing.
8. Trip in the hole with bit and scraper for the intermediate casing and trip in to the top of the liner. Trip out of the hole with bit and scraper. Trip in hole with second bit and scraper and run from the top of the liner to the top of the perforations. A seating nipple and standing valve may be run in order to pressure test the tubing.
9. Trip in the hole with RBP and PKR. Set RBP 50-100 ft. above perforations. Trip out of hole one joint and set PKR and pressure test RBP to 1500 psi. Release PKR, spot sand on RBP and pressure test csg to 1000 psi. If no leak is found, trip out of hole with PKR and skip to step 11.
10. Trip out of hole isolating leak in liner, if any. If a liner leak is found, establish injection rate and check for circulation around liner top. Also, determine if there is a leak above the top of the liner. Trip out of hole with PKR.
11. Determine from well file and history, the interval a CBL needs to be run between the RBP and the surface. If a CBL is needed, run CBL over the interval necessary under 1000 psi and report results to Denver. Different size CBL tools may be required in the liner versus the intermediate casing.
12. If there are no casing leaks, skip to step 14.
13. If there is a leak in the liner and a leak above the top of the liner, trip in hole with a RBP that fits the liner and a PKR that fits the intermediate casing. Set RBP 30-60' below the top of the liner. Release PKR and trip out of hole isolating leak in the intermediate casing.
14. Based on the location of the leak, if any, and the results of the CBL, perforate casing if necessary with 4 JSPF and circulate dye if possible to determine cement volume. Depending on the depth of the hole and circulating pressure, a PKR or a cement retainer may be needed.
15. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to circulate to surface, if circulation to surface is possible. Shut bradenhead valve and attempt to obtain a squeeze pressure and WOC.
16. Trip out of hole. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if casing fails pressure test.
17. If cement is not circulated to the surface, it may be necessary to run another CBL (and/or temperature survey 8-10 hours after cementing) and repeat steps 14 thru 16.

**SJ 28-7 #68**

**Orig. Comp. 4/57**

**TD = 4872', PBTD = 4835'**

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18. Trip in the hole with retrieving head for RBP, circulate sand off of RBP and trip out of hole with plug.
19. If there is a leak in the liner top, trip in hole with a PKR. If there is no leak in the liner top, skip to step 22.
20. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to squeeze liner top. Attempt to obtain a squeeze pressure and WOC.
21. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leak if liner top fails pressure test.
22. If there is a second RBP in the liner, trip in the hole with a retrieving head, circulate sand off of the RBP and trip out of hole with the plug.
23. If there is a leak in the liner or squeeze work is required based on the CBL, perforate casing, if necessary with 4 JSPF. Trip in hole with a cement retainer and set above the leak or perforations.
24. Mix and pump sufficient cement (class B or equivalent with two hour setting time) and attempt to obtain a squeeze pressure and WOC.
25. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if casing fails pressure test.
26. Trip in the hole with retrieving head for RBP set in the liner, circulate sand off of RBP with 2% KCL and trip out of hole with plug.
27. Trip in hole with a sawtooth collar and/or bailer and clean out to PBTD and trip out of hole.
28. Trip in the hole with the production string (1/2 mule shoe on bottom and a seating nipple one joint off bottom), land tubing to original depth. Nipple down BOP's, nipple up well head.
29. Swab well in and put well on production.
30. Rig down move off service unit.

***If problems are encountered, please contact:***

***Lara Kwartin***

***(W) (303) 830-5708***

***(H) (303) 343-3973***

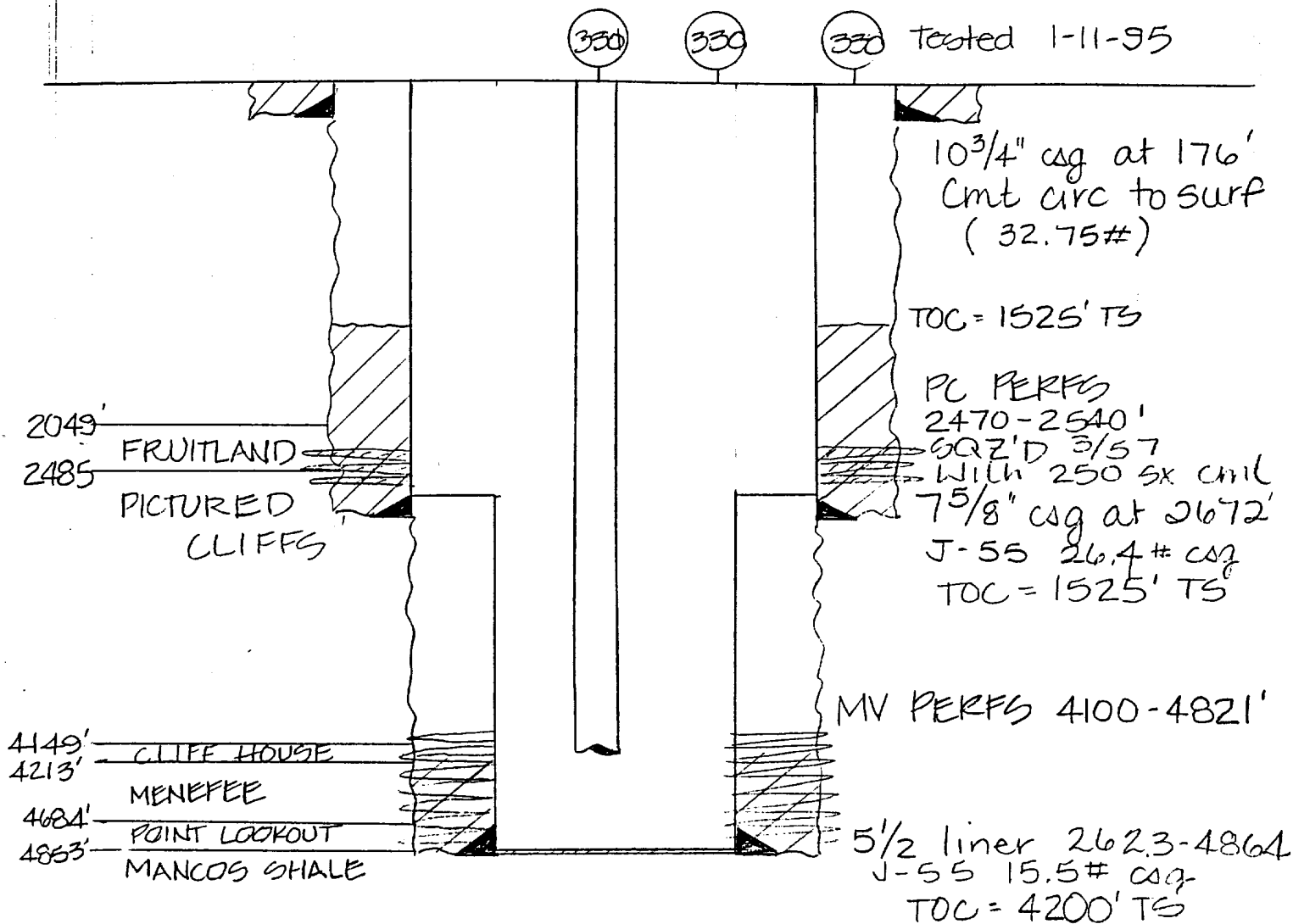
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Appn \_\_\_\_\_

Date 2-2-95

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**CFO**



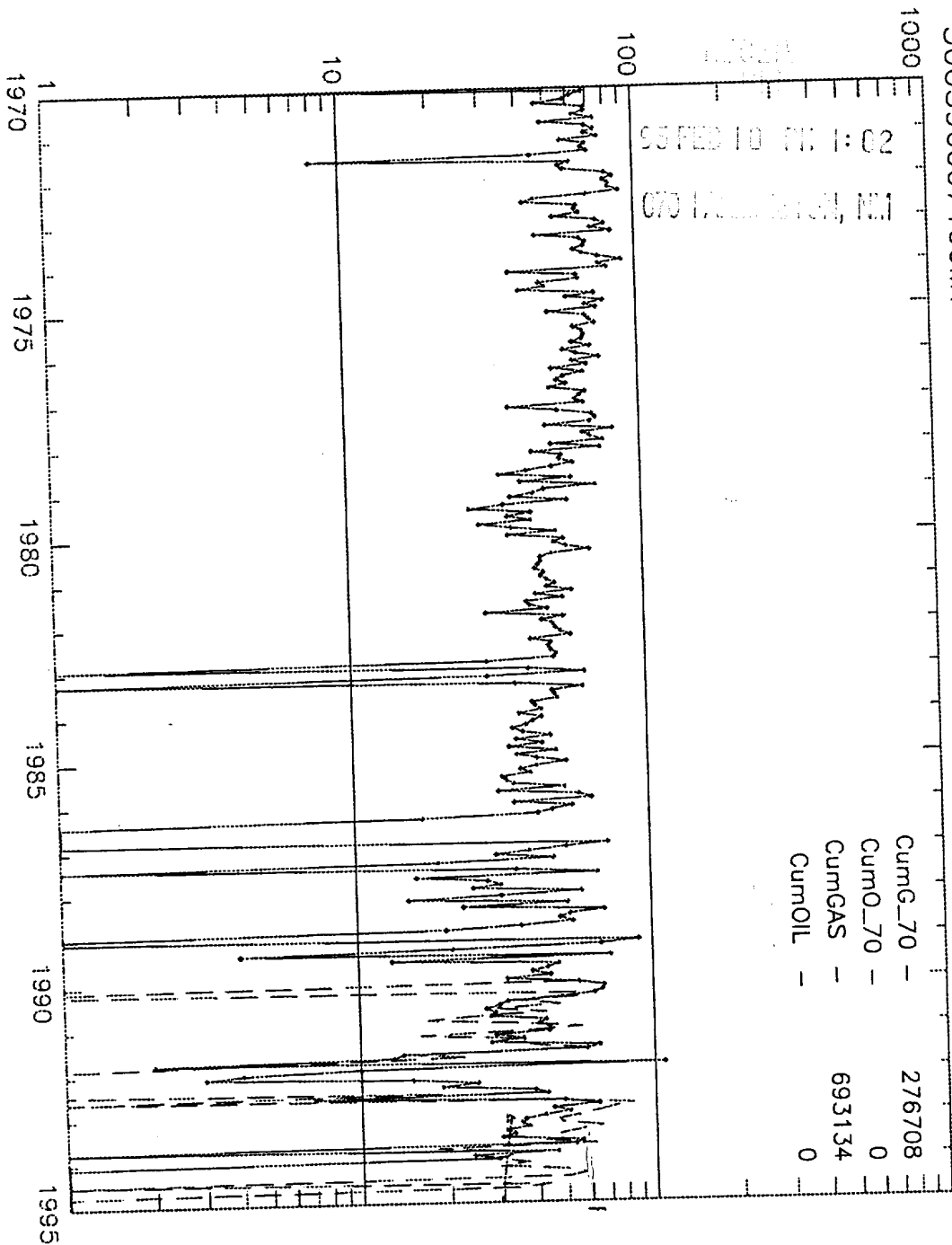
Operator-- AMOCO PRODUCTION C

300396007100MV

B312807--068 MV

APC\_M1 -

0.50000000





# BRADENHEAD TEST REPORT

71798

48

DATE

7-6-94

OPERATOR AMOCO PRODUCTION COMPANY

95 FEB 10 PM 1:02

Wellname: SAN JUAN 28-7 NPWell No. 068Formation: MVSection: B31TOWNSHIP: 28NRange: 07W

070 170 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680 700 720 740 760 780 800 820 840 860 880 900 920 940 960 980 1000

## INITIAL PRESSURE (psi)

Well Status (Circle One)

SHUT-IN

FLOWING

No. of Casing Strings (Circle One)

TWO (Production and Surface)

THREE (Intermediate, Production and Surface)

Pressure: Tubing 331 (psi) Intermediate NA (psi) Casing 335 (psi) Bradenhead 335 (psi)

## INSTRUCTIONS FOR TESTING WELLS WITH TWO (2) CASING STRINGS:

A. Open bradenhead to atmosphere.

C. Note characteristics of bradenhead flow.

B. Record casing pressure every 5 minutes.

D. Describe any water flow.

## INSTRUCTIONS FOR TESTING WELLS WITH THREE (3) CASING STRINGS:

A. Open intermediate casing to atmosphere.

E. Open bradenhead to the atmosphere.

B. Record casing and bradenhead pressure every 5 minutes.

F. Record casing and intermediate pressures every 5 minutes.

C. Note characteristics of intermediate flow.

G. Note characteristics of bradenhead flow.

D. Describe any water flow from the intermediate.

H. Describe any water flow from the bradenhead.

Shut in intermediate valve.

## PRESSURE (psi)

Time	Bradenhead	Casing	Intermediate	Casing
5 min	<u>156</u>	<u>328</u>	<u>NA</u>	
10 min	<u>148</u>	<u>321</u>		
15 min	<u>137</u>	<u>315</u>		
20 min	<u>133</u>	<u>309</u>		
25 min	<u>128</u>	<u>305</u>		
30 min	<u>121</u>	<u>302</u>		

## FLOW CHARACTERISTICS

BradenheadIntermediate

## DESCRIBE ANY WATER FLOW

BradenheadIntermediate

Steady Flow

Surges

Down to Nothing

No Flow

Gas

Water

Gas and Water

Clear

Fresh

Salty

Sulfur

Black

Muddy

## REMARKS:

Bradenhead has steady flow of gas, it is pulling well casing & tubing BT down while venting gas from Bradenhead

DATE:

7-6-94

BY:

Gene Farnsworth