

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

RECEIVED  
BLM

59 JUL 22 AM 10:24  
070 FARMINGTON, NM

5. Lease Designation and Serial No.

SF - 078513

6. If Indian, Allocated or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

ARNAUD A

1

9. API Well No.

30-045-28182

10. Field and Pool, or Exploratory Area

BASIN FRUITLAND COAL

11. County or Parish, State

SAN JUAN

NEW MEXICO

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

AMOCO PRODUCTION COMPANY

Attention:

Mary Corley

3. Address and Telephone No.

P.O. BOX 3092 HOUSTON, TX 77253

281-366-4491

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

1850' FNL

1090' FEL

Sec. 17 T 32N R 9W

UNIT H

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

TYPE OF SUBMISSION

TYPE OF ACTION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other WELL REPAIR

- ☐ 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 markers and zones pertinent to this work.)\*

subsurface locations and measured and true vertical depths for all

Amoco Production Company request premission to repair the subject well as per the attached procedure.

Should you have any technical questions please contact Mike Kutas @ 281-366-5812. For administrative concerns please contact Mary Corley @ 281-366-4491.

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JUL 20 1999  
OIL CON. DIV.  
DIST. 3

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

Signed

*Mary Corley*

Title

Sr. Business Analyst

Date

07-21-1999

(This space for Federal or State office use)

Approved by

/s/ Duane W. Spencer

Title

Team Lead, Petroleum Management

Date

JUL 26 1999

Conditions of approval, if any:

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 Instructions on Reverse

NMOCD

**Arnaud A 1**

**Version:** arna1lin.doc  
**Date:** July 21, 1999  
**Budget:** Well Repair  
**Work Type:** C.O. and run liner

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**Objectives:**

1. Clean out fill; Underream, cavitate, and stabilize open hole section
  2. Run and perf liner; Re-run TBG and pump
  3. Return well to production
- 

**Pertinent Information:**

<b>Location:</b>	1850'FNLx1090'FEL; Sect 17H-T32N-R9W	<b>Horizon:</b>	FT
<b>County:</b>	San Juan	<b>API #:</b>	30-045-28182
<b>State:</b>	New Mexico	<b>Engr:</b>	Kutas
<b>Lease:</b>	Fed: SF-078513	<b>Phone:</b>	H--(281)693-3700
<b>Well Flac:</b>	704943		W-(281)366-5812
			P--(888)907-0916

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**Economic Information:**

<b>APC WI:</b>	25%	<b>Prod. Before Repair:</b>	25 MCFD
<b>Estimated Cost:</b>	\$150,000	<b>Anticipated Prod.:</b>	700 MCFD
<b>Payout:</b>	5 Months		
<b>Max Cost -12 Mo. P.O.</b>			
<b>PV15:</b>			
<b>Max Cost PV15:</b>			

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

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**Formation Tops: (Estimated formation tops)**

<b>Nacimiento:</b>		<b>Mesaverde:</b>	
<b>Ojo Alamo:</b>		<b>Point Lookout:</b>	
<b>Kirtland Shale:</b>		<b>Mancos Shale:</b>	
<b>Fruitland:</b>	3468'-TD	<b>Gallup:</b>	
<b>Pictured Cliffs:</b>		<b>Graneros:</b>	
<b>Cliff House:</b>		<b>Dakota:</b>	
		<b>Morrison:</b>	

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**Bradenhead Test Information:**

**Test Date:** 8/26/96   **Tubing:** 1287 psi   **Casing:** 1411 psi   **BH:** 5 psi

Time	BH	CSG	INT	CSG
5 min				
10 min				
15 min				

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**Comments:** BH has no pressure or flow   ~

Arnaud A 1  
 Orig. Comp. 2/92  
 TD = PBD = 3727'  
 Page 2 of 2

Current wellbore info: 7" CSA 3415', O.H. @ 3415-3727', 2 3/8" TSA 3465', Fill at 3518' by TBG tag

Current flow info: 20 MCFD, FTP=313 psi, FCP=308 psi, LP=305 psi;

Recent servicing attempts to restore production in April and July have failed. Fill is currently restricting flow from the basal coal seam in the well. Plans are to clean out fill, underream the open hole from 6 1/4" to 9 1/2", cavitate for 24 hours to clean up and stabilize hole, run and perf liner, and place well back on compression and pump to restore production.

1. MIRUSU. Pull and lay down rods and pump-haul RxP back to yard; RDMOSU.
2. MIRURT--AWS Rig #184. ND tree, rig up BOP's w/cavitation capability. Test BOE. TOH and lay down rods, pump, and 2.375" tubing
3. Pick up 4.750" drill collars and 3.500" drill pipe with 6.250" bit and clean out fill from 3,518' to total depth (3,727') using air and foam. Underream open hole to 9 1/2"-11". Cavitate O.H. section for 24 hrs. Stabilize hole as quickly as possible to allow running liner (after reaching TD, trip out to casing shoe and wait for 4-6 hours and check to determine amount of fill and how difficult it is to clean up.
4. Run a blank 5.500" flush joint liner (Hydril 511) from TD back to approx. 3,350'. Install a tri-cone bit on bottom with a float immediately above bit and a TIW JGS 5 1/2"x 7" liner hanger. Strip in hole and drill to bottom with power swivel if necessary. Hang liner, lay down drill pipe.
5. RU HES, Run GR-CCL and tie into open hole mudlog to identify correct coal seam depths; TIH and Perforate (w/ 3 1/8" DP) as follows:

<u>COAL SEAMS</u>		<u>PERFORATIONS</u>		
Ignacio	3,469 to 3,474'	3,469 to 3,474'	4 jspf	20 holes
Cottonwood 1	3,483 to 3,495'	3,483 to 3,516'	4 jspf	132 holes
Cottonwood 2	3,497 to 3,516'	3,646 to 3,651'	4 jspf	20 holes
Cahn 1	3,648 to 3,650'	3,721 to 3,726'	4 jspf	24 holes
Cahn 2	3,721 to 3,726'			
		<b>Total</b>	<b>196 Holes</b>	

6. Pick up and run 2 3/8" as follows:
  - 1) Mule shoe
  - 2) One Jt 2 3/8" TBG
  - 3) 2 3/8 std. pump SN with lock collar and retr. plug in place

Land bottom of TBG at approximately 3710-15'. Pull retrievable plug; RDMORT

7. MIRUSU. PU and run rods and 1 1/4" SJ pump with Hivac assembly. Pressure test pump. RDMOSU and turn well over to production.

Dependent on speed of hole stabilization, I estimate this procedure to require approximately 6-7 days and to cost approximately \$150,000.

Cost estimate: Rig	\$ 58,000
Pits	\$ 5,000
W.L.	\$ 3,500
Hanger	\$ 8,500
Haul/Trk	\$ 2,500
Bits	\$ 3,500
UR	\$ 10,000
Air	\$ 15,000
Labor	\$ 2,500
Liner	\$ 5,000
Rentals	\$ 7,500
Perfs	\$ 7,500
Misc-20%	\$ 21,500
<b>Total</b>	<b>\$150,000</b>

Mike Kutas

# Amoco Production Company

ENGINEERING CHART

Sheet No. \_\_\_\_\_ of \_\_\_\_\_

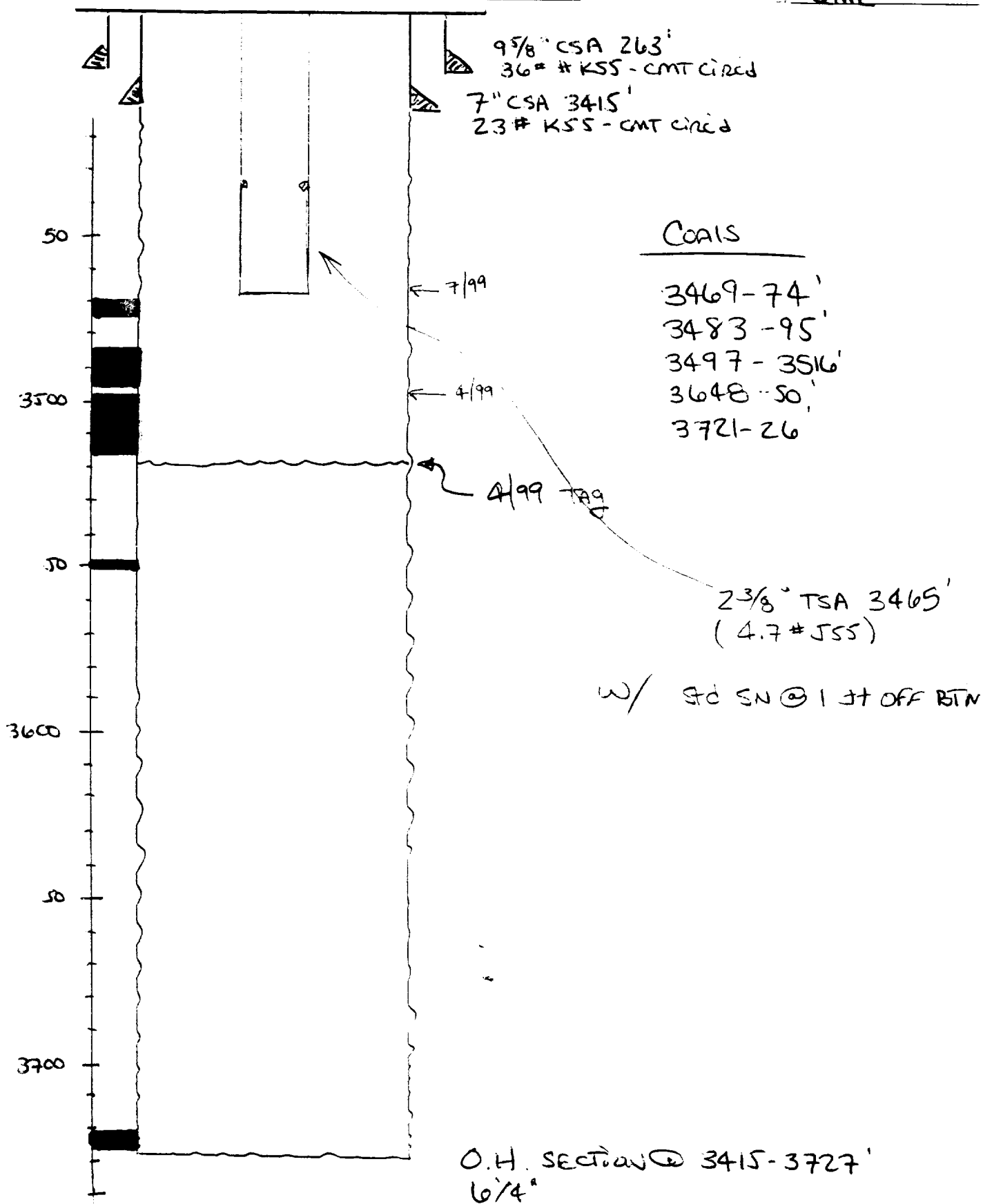
File \_\_\_\_\_

Appn \_\_\_\_\_

Date 4/21/99

By GML

SUBJECT ARNAUD A 1



Amoco - OI DB/Synergy Data

## Daily Well Production

