

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

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5. Lease Designation and Serial No.

SF-078513

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Arnaud A

3

9. API Well No.

3004528184

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal Gas

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:

Pat Archuleta

3. Address and Telephone No.

P.O. BOX 800 DENVER, COLORADO 80201

(303) 830-5217

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

1090' FNL

930' FEL

Sec. 20 T 32N R 9W

UNIT A

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 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 subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Amoco Production Company requests permission to clean out fill, run and perf liner.

If you have any technical questions contact Mike Kutas at (303) 830-5159.

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OIL CON. DIV.
DIST. 3

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

Signed

Pat Archuleta

Title

Staff Assistant

Date

09-30-1998

(This space for Federal or State office use)

Approved by

TS/Dianne W. Spencer

Title

Date

OCT - 5 1998

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 Side

NMOCD

Arnaud A 3
Orig. Comp. 4/92
TD = PBD = 3648'
Page 2 of 2

This well was placed on continuous production in 4/96 and has produced a steady 500 MCFD since 10/96. Coal production is currently hampering beam lift operations and fill is currently restricting production from the (better) lower Cahn coal seams in the well. Installation of the liner should eliminate coal production and allow for optimization of production from the well.

Current wellbore info: 7" CSA 3308', OH at 3308-3648', 2 7/8" TSA 3324', **Fill at 3432' by 8/98 tubing tag**
 Current flow info: 150 MCFD, FTP=343 psi, FCP=335 psi, LP=335 psi; pumping tubing and flowing casing--can't sustain compressor operations

- Short term plans:
1. C/O fill; Run and perf liner
 2. Attempt to flow and compress well; Rerun rods and pump if production cannot be sustained
 3. Obtain access to MOI's 32-9 Unit SWD for water disposal

1. MIRURT--AWS Rig #56
2. ND tree, rig up BOP's w/cavitation capability. Test BOE. TOH and lay down rods, pump, and 2.875" tubing
3. Pick up 4.750" drill collars and 3.500" drill pipe with 6.250" bit and clean out fill from 3,432' to total depth (3,648') using air and foam. 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. 3,200'. Install a tri-cone bit on bottom with a float immediately above bit and a Baker Model SLR-P Liner Hanger Packer. Strip in hole and drill to bottom with power swivel if necessary. Hang liner, lay down drill pipe. RDxMODU
5. RU HES, Run GR-CCL to identify correct coalseam depths; TIH and Perforate as follows:

<u>COAL ZONES</u>		<u>PERFORATIONS</u>		
Ignacio	3,335 to 3,340'	3,335 to 3,340'	4 jspf	20 holes
Ignacio	3,369 to 3,374'	3,369 to 3,374'	4 jspf	20 holes
Cottwood	3,403 to 3,428'	3,403 to 3,428'	4 jspf	100 holes
Cahn #1	3,583 to 3,598'	3,583 to 3,598'	4 jspf	60 holes
Cahn #2	3,631 to 3,634'	3,631 to 3,634'	4 jspf	12 holes
		Total		212 holes

6. MIRU service; Pick up and run 2 7/8" as follows:
 - 1) Mule shoe
 - 2) One Jt 2 7/8" TBG
 - 3) 2 7/8 std. pump SN with lock collar and retr. plug in place
 Land bottom of TBG at approximately 3530-40'. Pull retrievable plug
7. RDMOSU and turn well over to production.

Dependent on speed of hole stabilization, I estimate this procedure to require approximately 5 days and to cost approximately \$132,000.

Cost estimate:	Rig	\$ 50,000
	Pits	\$ 5,000
	W.L.	\$ 3,500
	Hanger	\$ 8,500
	Haul/Trk	\$ 2,500
	Bits	\$ 3,500
	Air	\$ 15,000
	Labor	\$ 2,500
	Liner	\$ 5,000
	Rentals	\$ 7,500
	Perfs	\$ 7,500
	Misc-20%	\$ 21,500
	Total	\$132,000

Amoco Production Company

ENGINEERING CHART

Sheet No _____ Of _____
 File _____
 Appn _____
 Date 9/28/98
 By G/M/K

SUBJECT ARNAUD A 3

SPUD: 12/2/90 REL: 12/6/90
 9 5/8" CSA 276', 36# KSS, CMT CIRC'D
 7" CSA 3308', 23# KSS, TOC @ 600' per Temp log

- 12/1/91 - MEMPHIS

- PU DPXDC x 6 1/4" BIT, TAG CMT @ 3230', DO CMT, FC, shore jt & FMI TO 3581'; FOUND IG & CW @ 3405-25' & CAHN @ 3583-98'
- DRILL TO TD 3648' (ACTUAL SEAMS: 3335-40' 5' NO FLARE
 TOH x PU JET SUB, CIRC w/ JET SUB @ 3369-74' 5' " "
 3335-39' & 3583-98' REC 3/4" - 1" 3403-28' 19' 2' FLARE
 COAL chunks + FINES IN GREY TO BLACK WTR 3583-98' 13' 2' FLARE
 3631-34' 3' 2' FLARE
- JET 3369-74' - REC ^{LT-MID} 3/4" & SMALLER COAL + HVY FINES IN BLK WTR
- JET 3403-17' - REC ^{LT} 1/2" COAL + FINES IN BLACK TO GREY WTR
- JET 3421-29' - REC MOD 3/4" & SMALLER COAL w/ HVY FINES IN GREY WTR
- JET 3583-98' - REC LT-MID 1/2" - 3/4" & FINES IN GREY WTR
- JET 3631-34' - REC LT 1/4" & FINES IN GREY WTR; TOH w/ JET SUB, TIT
- FLOW TEST: 2 HR, 29 PSI, 377-391 MCFD, 2 HR SEP = 630 PSI; CST - NO SURFACE INDICATIONS, TAG & 40 BRIDGE @ 3490' & 5' FILL, CST, NO BRIDGES + 3' FILL CIRC - GETTING MOD COAL RETURNS 1/4" & SMALLER, MIN FINES + BLK WTR
- CIRC, FLOW TEST: 2 HRS, 29 PSI, 380 MCFD, BU PIR - 600#; TAG & 40 BRIDGE @ 3490' & 5' FILL; TOH x PU JET SUB, TIT
- JET COALS, CAHN SEAM @ 3583-98' WASHING OUT BEST
- CONT JETTING, DRY HOLE, FLOW TEST: 36 → 30 PSI, 435 MCFD, 2 HR SEP = 560 PSI; CST, 800 PSI, MOD RETURNS 1/4" + SMALLER + FINES, CIRC w/ HVY RETURNS - 1/4" + SMALLER
- CST, CIRC ON BTM, ST & FLOW TEST, 36 PSI, 522 MCFD, 2 HR SEP = 600 PSI; 40 BRIDGES @ 3631' & 3583' & 0' FILL, CST - MOD RETS 1/4" & SMALLER + FINES, CIRC, CST - 1375-1500 PSI, FINES TO SURFACE
- 40 BRIDGE @ 3477' & 5' FILL, ST, FLOW TEST: 20-13 PSI, 218 MCFD, 2 HR SEP = 460 TAG & 40 21' FILL, HOLE CAVING ACROSS CAHN SUM, REC 3/4" & SMALLER COAL, CST ACROSS C.W. SEAM - VERY HVY 3/4" & SMALLER
- CONT CAV ACROSS C.W. SEAM - ISOL FROM CAHN SEAM EVIDENT FROM FLARE (L) SIZE HVY RETURNS 20% COAL + 20% SH, 40 BRIDGES @ 3430, 80, 3580'; CAHN SUM MORE ACTIVE THAN C.W. SEAM, COAL ON BTM RUNNING & STICKING PIPE, VERY HVY RETRN, WTR DIFFICULT TO MEAS
- CIRC ON BTM, HVY RETURNS COAL, PULL ABOVE CW TO ELIMINATE BRIDGING, CST WTR, 800-1300 PSI, 40 LT BRIDGE @ 3434' & 3637' + 20' FILL, WELL

*

ENGINEERING CHART

File _____

Appn _____

Date _____

By _____

SUBJECT _____

- 3/25/96

- 10/30/97

- 8/12/98

- MINUS 4, TO H x R x P, WELL STARTED KICKING, TURN DOWN SILES LINE O.N.
- RUN DN x KILL TBG, TAG FILL @ 3432', RAISE c, RELAND TBG @ 3386'; TILH x R x P, PRES TEST, START PUMPING
- COULDN'T STRUCK PUMP, STUCK, TO H x R x P, PULL UP x RELAND TBG @ 3324', TRY TO PUMP DN TBG - COULDN'T, TO H x FOUND BTM JT PLUGGED, C/O, TILH x LAND TBG @ 3324'
- RUN R x P, PRES TEST - OK, START PUMPING - STACKING UP, CLEARED - MOVING BLACK FLUID w/ COAL PIECES - RREL 8/18/98

Amoco Production Company

ENGINEERING CHART

SUBJECT Arnaud A 3

Sheet No _____ Of _____
File _____

Appn _____

Date 9/29/98

By G.M.K.

