

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

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

5. Lease Designation and Serial No.

NM-012648

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Sullivan Gas Com E #1

9. API Well No.

3004528641

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 Attention:  
AMOCO PRODUCTION COMPANY 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)  
600' FSL 1540' FWL Sec. 22 T 32N R 10W UNIT N

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"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Repair	<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 Production Company requests permission to repair this well per the attached procedures.

If you have any technical questions contact Bruce Packard at (303) 830-4795.

RECEIVED  
APR 27 1998  
OIL CON. DIV.  
DIST. 3

98 APR 22 PM 9:16  
OIL CON. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct  
Signed Pat Archuleta Title Staff Assistant Date 04-21-1998

(This space for Federal or State office use)

Approved by /s/ Duane W. Spencer Title  Date APR 23 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

## Sullivan GC E 1 Repair Well Procedure:

This is a fairway coal well producing significantly less than offsets. It requires beam lift to prevent liquid loading. The well was drilled directionally, and the deviation in the open hole causes problems with coal fines production which plug the pump frequently. This well has not been cavitated which is a common technique to increase production in the fairway coal area.

This well repair is to underream the open hole diameter to 11", cavitate the open hole, set and perforate a liner, and lower the tubing. Anticipated production increase is 1000 MCFD. Production after the workover is expected to be sufficient to flow without the beam unit.

Current wellbore info: 7" CSA 2496', OH at 2496-2888', 2 7/8" TSA 2500'.

Current flow info: 500 MCFD, FTP=290 psi, FCP=290 psi, LP=270 psi

1. MIRUSU. Pull rods and pump. Pull back beam unit.
2. MIRURT.
3. ND tree, rig up BOP's w/cavitation capability, complete with ventures on blooie lines. Test BOP. Set plug in 2 7/8" TBG. TOH and lay down 2 7/8" tubing. If tbg looks corroded, send in for inspection.
4. Pick up 4.750" drill collars and 3.500" drill pipe with 6.250" bit, Blow hole dry, clean out fill to total depth (2888') using air and foam. C/O and stabilize hole. Underream O.H. section from 6 1/4" to 11" diameter. TOH.
5. Perform flow test after unloading well (calibrate all press gauges before test):
  - a. 1 hour flow through 3/4" choke. Record pres & rate every 15 min
  - b. 1 hour shutin test. Record pres every 15 min
6. Initiate cavitation surges. Work for minimum of 8 hours.
7. TIH w/ 6 1/4" bit, bit sub, drill collars and workstring. Cleanout hole to TD. Rotate and reciprocate until hole is clean.
8. Perform flow test:
  - a. 1 hour flow through 3/4" choke. Record pres & rate every 15 min
  - b. 1 hour shutin test. Record pres every 15 min
9. Repeat steps 7 - 8 and report results to engineer daily.
10. Cleanout to TD @ 2888'. Wait for 4-6 hrs to determine if hole stable, tag for fill, cleanout and repeat if necessary. TOH.
11. Run a blank 5.500" flush joint liner (Hydril 511) from TD back to approx. 2480'. Install a tricone 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. TOH x lay down drill pipe.
12. RU HES, run GR-CCL to identify correct coal seam depths; TIH and perforate liner w/ 4 JSPF in intervals: 2860-2880', 2670-2690', 2600-2610'.
13. Pick up and run 2 7/8" TBG with previous downhole configuration, but land tbg at 2860'.
14. NDBOP. RDMODU. Lock wellhead and notify production that air was used. Return well to production department.
15. Put well on flowing up tubing. If liquid loading occurs, re-installation of the beam unit may be necessary.

If problems are encountered, please contact:

Bruce Packard

(W) (303) 830-4795

(H) (303) 830-2415

9 5/8" CSA 313'  
36 # K55  
CMT circ'd

\* NOTE: Well is DIRECTIONAL, DISPLACEMENT OF S TO BHL = 497' (N27°E)

2 7/8" TSA 2500'  
4.7 # J55

- Jt #1 - Tbg Purge
- Jt #2 - 30' Tbg
- Jt #3 - 4' PERF SUB
- Jt #4 - STD SN

7" CSA 2496'  
23 # K55  
CMT circ'd

2500'

2600'

2700'

2800'

2900'

Attempt 3

Attempts 1 & 2

2508-11'	3'
2514-16'	2'
2518-19'	1'
2521-24'	3'
2535-36'	1'
2550-SI'	1'
2555-56'	1'
2569-72'	3'
2588-90'	2'
2603-10'	7'
2667-79'	12'
2680-86'	6'
2701-04'	3'
2705-08'	3'
2709-10'	1'
2738-40'	2'
2839-64'	5'
2866-87'	21'

OPEN HOLE 2496' - 2888'