

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company Attn: Ed Hadlock

3. Address and Telephone No.

P.O. Box 800, Denver, CO 80201 (303) 830-4982

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

600' FSL, 1540' FWL, SE/SW Unit "N"  
Sec. 22-T32N-R10 W

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.

30-045-28641

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal Gas

11. County or Parish, State

San Juan, NM

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 APD Modifications  
☐ 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.)\*

The drilling program for the subject well's APD has been modified: Drill through coals to TD. Casing point to be determined after review of open hole logs. A formation packer shoe will be run on the bottom casing string. (See attached Drilling and Completion program).

If there are any questions, please contact Ed Hadlock at (303) 830-4982.

RECEIVED  
OCT 16 1992  
OIL CON. DIV.  
OCT 3

APPROVED  
OCT 15 1992  
RFA MANAGER

RECEIVED  
BLM  
92 OCT 14 AM 11:24  
019 FARMINGTON, N.M.

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

Signed

Ed Hadlock

Title Administrative Analyst

Date

10/13/92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

NMOOD

Date

**AMOCO PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

File:D:\SULL46.WK3  
Date: 11/27/91  
Revised: 10/04/92

Lease: SULLIVAN G. C. 'E'  
County: San Juan, New Mexico

Well No. 1

Field: Blanco Fruitland

Surface Hole Location: 600' FSL x 1540' FWL Sec 22-32N-10W

Bottom Hole Location: 890' FSL x 1650' FWL Sec 22-32N-10W

Revision for SFC CSG:11/27/91

BH Target: 400' x 400' Target centered at 990' FSL x 1650' FWL TVD @ 2209'

OBJECTIVE: Develop Fruitland Coal Reserves.

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER		
TYPE OF TOOLS	DEPTH OF DRILLING	Actual GL: 5983'	Estimate KB: 5995'	
Rotary	0 - TD	Marker	Depth TVD	Elevation
LOG PROGRAM		Ojo Alamo	1050'	4960'
Type	Depth Interval	Fruitland	2259'	3736'
		Lemon	-	-
FDC/GR/CAL*	707' to TD**	Ignacio #	-	-
MICROLOG	707' to TD**	Cottonwood #	-	-
Mudlogger	2000' to TD	Cahn #	-	-
		Pictured Cliffs	2709'	3286'
REMARKS:		TOTAL DEPTH:	2707*	3086'
Run FDC at slow speed, high sample rate thru bottom 1000' of hole. Bulk density presentation as per standard coal log format. Customer edit 9-track LIS tape to W. Pelzmann in Denver ASAP.		# Probable completion interval		
NOTE: *Pull caliper\GR back to surface. Send logs to Sandy Braun ASAP to pick ICP. Run Microlog in hole first.		* Possible pay.		
**Logging interval determined by minimum charge.		DRILL CUTTING SAMPLES		
Remarks:		FREQUENCY	DEPTH	DRILLING TIME
		10'	2000' - TD	FREQUENCY DEPTH
				Geolograph 0 - TD
		REMARKS: * The Pictured Cliffs will not be penetrated if the well is completed successfully open hole. If the well is not a successful open hole completion, the well will be deepened to 2909'. Mudlogger to modify TD based on location of basal coal seam.		
		This well is to be directionally drilled to intercept the BH target.		
MUD PROGRAM:				
Approx Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L, cc's/30 mir Notes
0' - 300'	SPUD	8.5 - 9.0	Sufficient to clean hole and maintain hole conditions for logs.	
300'-700'	Water	8.5	28	N/A
700'-2109'	LSND	8.6 - 9.0	32-50	10-20 1
2109'-TD	LSND	9.5-11.0	50-60	10 2

REMARKS: In the event the well does not yield commercial volumes of gas from the open hole completion, the water filled hole will be mudded up and weighted up (9-11 #/gal) with LSND mud for hole stability and well control. The well will then be deepened approximately 200' into the Pictured Cliffs to provide necessary footage for a cased and cemented completion technique to allow a fracture stimulation.

1. Mud up 100' above 800' Kick off point.
2. Bring up mud weight to 10.3 ppg prior to drilling the Fruitland.

**CASING PROGRAM:**

Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Surface	300'	9-5/8"	12-1/4"	1
Intermediate	2209'*	7"	8-3/4"	2
Liner	TD	N/A	8-3/4"	3
		4-1/2"	6-1/4" (If required)	

Remarks:

1. Surface casing to be set at 300' to accomodate adjacent water well, circulate cmt to surface.
2. \*ICP in top of coal, casing pt. to be determined after review of openhole logs. A formation packer shoe will be run on btm of csg string. Circulate cement to surface.
3. Open hole. A contingency 4-1/2" Liner will be run and cemented if the well is deepened into the Pictured Cliffs for a fracture stimulation. Use 6-1/4" bit to deepen well into Pictured Cliffs if required.

WELLHEAD: 3,000 PSI flanged equipment

**GENERAL REMARKS:**

Planned open hole completion. A contingency completion will require as many as two fracture stimulations.

This well to be maintained in confidential status. Permitting Group is to provide statement in permit to regulatory agencies that indicates the Pictured Cliffs will be penetrated approximately 200' in the event the planned open hole completion in the coal seams does not yield a commercial volume of gas. The contingency plan to drill into the Pictured Cliffs will allow adequate rat hole for a cemented liner across the coal seams. The cemented Liner will provide isolation for a necessary fracture stimulation to initiate a commercial volume of gas.

Estimated KOP 800' Kick 290' North, 110' East, 310.16' departure, N 20.77 E;

Form 46 Reviewed by:

Logging program reviewed by:

PREPARED BY:  
W. Pelzmann/J. Davidson/F. Seidel/S. Braun  
Form 46 7-84bw

APPROVED:  
*J. K. Pantalone*  
For Production Dept  
10/13/92

APPROVED:  
For Exploration Dept