

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

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Coal Seam		7. If Unit or CA Agreement Designation
2. Name of Operator Amoco Production Company ATTN: J.L. Hampton		8. Well Name and No. Patterson Gas Com. "C"
3. Address and Telephone No. P. O. Box 800 Denver, Colorado 80201		9. API Well No. #1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2130' FNL, 790' FEL, SE/NE, Sec. 20, T30N R8W		10. Field and Pool, or Exploratory Area Basin Fruitland Coal
		11. County or Parish, State San Juan, NM Gas

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input 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	Change in drilling program

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.)

Please see the attached revision to the drilling program on the subject well. This well will be drilled as a "modified" drill-thru rather than a topset.

RECEIVED
AUG 21 1990
OIL CON. DIV
DIST. 3

Please contact George Gray (303)830-5190 if you have any questions.

14. I hereby certify that the foregoing is true and correct		Sr. Staff	
Signed <u>J.L. Hampton</u>	Title <u>Admin. Supervisor</u>	Date <u>7/30/90</u>	
(This space for Federal or State office use)			
Approved by _____		Title <u>Ken Townsend</u>	
Conditions of approval, if any:			

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Date: 7/31/90

Lease & Well # Patterson Gas Com /C/ #1 Cty/St San Juan/NM FLAC NO. _____
 Field Basin Fruitland Coal Gas Operation Center San Juan
 Surf. Loc. Sec. 20 30N 8W 2130 FNL 790 FEL BHLOC same
 Coal Degas # 173

CRITICAL WELL _____ NON-CRITICAL WELL x _____

ORIGINAL x _____ REVISION # _____

LOGGING PROGRAM

TYPE	DEPTH INTERVAL
FDC/GR/CAL	TD to base of 7" casing
Microlog	
Mudlogger	TD to base of 7" casing

REMARKS Run FDC at slow speed, high sample rate. Bulk density presentation as per standard coal log format. Customer edit 8 track LIS tape to W. L. Pelzmann in Denver - ASAP.

NOTE Mudlogs will be the only log if the well is completed as an open hole. The log suite stated above will be run only if the well is deepened into the Pictured Cliffs.

APPROXIMATE DEPTHS OF GEOLOGICAL MARKERS

ESTIMATED ELEVATION 5775' KB

MARKER	TVD ELEV.	MEAS. DEPTH
Ojo Alamo	+4314	1461
Fruitland	+3581	2194
Ignacio Seam #	+3418	2357
Cottonwood Seam #	+3385	2390
Cahn Seam #	+3328	2447
Pictured Cliffs	+3250	2525

TOTAL DEPTH +3260 2515

*POSSIBLE PAY #PROBABLE COMPLETION INTERVAL

DRILL CUTTING SAMPLES		DRILLING TIME	
FREQUENCY	DEPTH	FREQUENCY	DEPTH
INTERVAL		INTERVAL	
10'	Base 7" csg.-TD	Geologist BSC-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 2715'. Mud-logger to modify TD based on location of basal seam

MUD PROGRAM

Approximate Interval	Type Mud	Weight #/Gal.	Viscosity Sec. API	Other W/L CC/30M	Specifications
0-250'	spud				
250'-2194	LSND	8.6-8.9	Sufficient to clean hole.		
2194 - TD	LSND	9.0-11.0	Weight up if needed.		

Remarks: This well will be drilled as a modified drill through completion. If the mud has to be weighted up above 9.0 ppg to drill the coals, plan to topset with 7" casing. In the event the well can be drilled to 2515' without weighting up, deepen the well to approximately 2715' and run 5 1/2" casing to TD for a fracture stimulation.

CASING PROGRAM (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

CASING STRING	EST. DEPTH	CASING SIZE	HOLE SIZE	SX CEMENT	TYPE CEMENT	DESCRIP. OF LANDING PT
SURFACE	250	9 5/8	12 1/4	to sfc.	**	
INTERMEDIATE	***	7"	8 3/4	to sfc.	**	Above abnormally pressured coal seams

LINER CASING

Remarks: A contingency 5 1/2" production string will be run and cemented if the well is deepened into the Pictured Cliffs for a fracture stimulation.** Operation Center to design. *** Top set abnormally pressured coal seams with a formation packer collar.
WELLHEAD: 3,000 psi flanged equipment

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

GENERAL REMARKS: This well to be maintained in confidential status.

PREPARED BY:

G. E. Gray, W. L. Pelzmann, T. R. Enterline J. L. Spitler

Original signed by:

APPROVALS: P. M. Harris *P. M. Harris* 7/31/90

PRODUCTION DEPARTMENT *1/27*

DATE

EXPLORATION DEPARTMENT

DATE