

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Date: 8/6/90

Lease & Well # Triqq Federal Gas Com/C/ #1 Cty/St San Juan/NM FLAC NO. _____
Field Basin Fruitland Coal Gas Operation Center San Juan
Surf. Loc. Sec. 25 31N 9W 2240 FSL 865 FWL BHLOC same
Coal Degas # 308

CRITICAL WELL _____ NON-CRITICAL WELL xORIGINAL 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.

MUD PROGRAM

Approximate Interval	Type Mud	Weight #/Gal.	Viscosity Sec. API	W/L CC/30M	Other Specifications
----------------------	----------	---------------	--------------------	------------	----------------------

0-250'	spud				
250'-int.csg pt.	LSND	8.6-8.9			Sufficient to clean hole.
int. csg pt. -	water w/induced air for hole cleaning purposes.				
top of Pictured Cliffs					

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.

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	2558'	7"	8 3/4	to sfc.	**	Above abnormally pressured coal seams
LINER CASING	TD	N/A	6 1/4	None	***	Open hole

Remarks: *** A contingency 5 1/2" liner will be run and cemented if the well is deepened into the Pictured Cliffs for a fracture stimulation. ** Operation Center to design.

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. Region 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 seam. The cemented liner will provide isolation for a necessary fracture stimulation to initiate a commercial volume of gas.

PREPARED BY:

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

Original signed by:

APPROVALS: P. M. Harris

PRODUCTION DEPARTMENT

DATE

EXPLORATION DEPARTMENT

DATE

triggcc.doc disk 1

APPROXIMATE DEPTHS OF GEOLOGICAL MARKERS

ESTIMATED ELEVATION 6010 KB

MARKER	TVD ELEV.	MEAS. DEPTH
Ojo Alamo	+4389	1721
Fruitland	+3552	1458
Ignacio Seam #	+3396	2614
Cottonwood Seam #	+3277	2733
Cahn Seam #	+3230	2780
Pictured Cliffs	+3172	2838

TOTAL DEPTH +3170 2836

*POSSIBLE PAY #PROBABLE COMPLETION INTERVAL

DRILL CUTTING SAMPLES FREQUENCY	DEPTH INTERVAL	DRILLING TIME FREQUENCY	DEPTH INTERVAL
10'	Base 7" csg.-TD	Geolograph 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 3036'. Mud-logger to modify TD based on location of basal seam