FILING NO.

NL McCullough

BOND CEMENT AND-OR SONIC SEISMOGRAM LOG

HBC-93780

EASTERN GAS SHALES PROJECT
MORGANTOWN ENERGY RESEARCH
CENTER
P. O. BOX 880
MORGANTOWN, W.VA. 26505

COMPANY CONSOLIDATED GAS CO.
WELL W. B. BARNETT #12501
FIELD UNION DISTRICT
COUNTY JACKSON STATE WEST VIRGINIA
LOCATION GRASS RUN
COTTAGE VILLI QUAD.
OTHER SERVICES:
SEC. TWP. RGE.

PERMANENT DATUM	GL	ELEV. 913'	ELEVATIONS:
LOG MEASURED FROM	DF		KB 925
DRILLING MEASURED FROM	KB		DF 924'
			GL 913'

DATE	8-30-78
RUN NO.	ONE
TYPE LOG	BOND CEMENT
DEPTH—DRILLER	3900'
DEPTH—LOGGER	3808'
BOTTOM LOGGED INTERVAL	3805'
TOP LOGGED INTERVAL	2950'
TYPE FLUID IN HOLE	WATER
SALINITY PPM CL.	
DENSITY LB./GAL.	
LEVEL	FULL
MAX. REC. TEMP. DEG. F.	
OPR. RIG TIME	
RECORDED BY	BUSBY
WITNESSED BY	MR. McMANNIS

BORE HOLE RECORD				CASING RECORD			
RUN NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1				7"		0	3900'

FOLD HERE THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (P)

LOGGING AND EQUIPMENT DATA (BOND CEMENT LOG)

DATE RECORDED	8-30-78		TOOL MODEL NO.	5567-0-0
TIME STARTED			DIAMETER	1.75"
TIME FINISHED			LENGTH	15' (4' SPACING)
LOGGED INTERVAL	3805' - 2950'			
LOGGED CEMENT TOP	3046'			

CEMENTING DATA

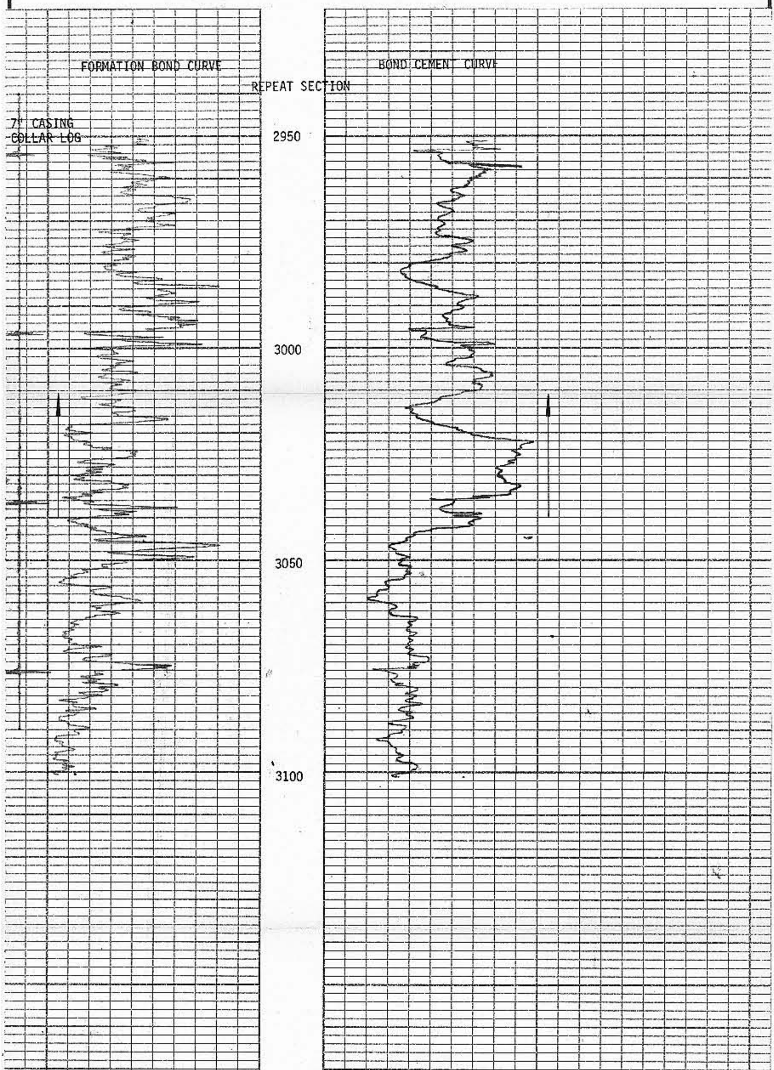
	1	2	SQUEEZE NO. 1	SQUEEZE NO. 2	SQUEEZE NO. 3
DATE AND HOUR SET					
SETTING TIME (HRS.)					
TYPE CEMENT					
SACKS USED					
PRECEDING FLUID					
% ADDITIVE					
% RETARDER					
SLURRY WEIGHT					
BREAKDOWN PRESSURE					
SURFACE MAX. PRESS.					
BOTTOM MAX. PRESS.					

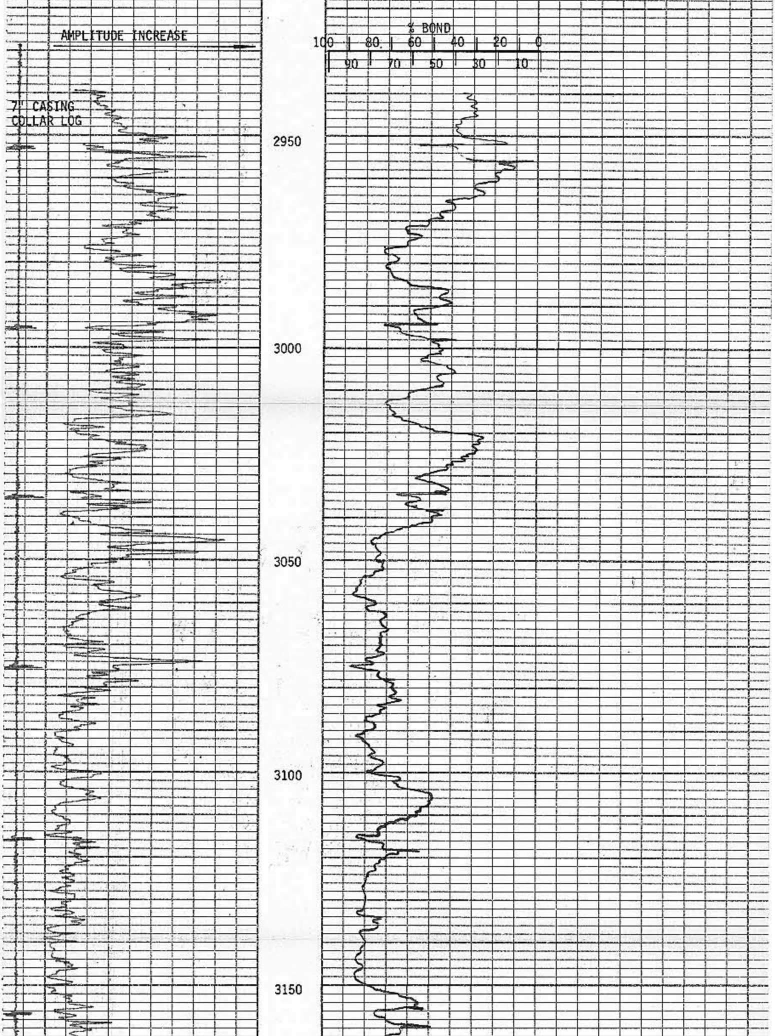
GAMMA RAY				NEUTRON			
RUN NO.				RUN NO.			
TOOL MODEL NO.				LOG TYPE			
DIAM.				TOOL MODEL NO.			
DETECT. MODEL NO.				DIAM.			
TYPE				DETECT. MODEL NO.			
LENGTH				TYPE			
DIST. TO N. SOURCE				LENGTH			
				SOURCE MODEL NO.			
GENERAL				SERIAL NO.			
HOIST TRUCK NO.	1480			SPACING			
INST. TRUCK NO.	1480			TYPE			
TOOL SERIAL NO.				STRENGTH			
LOG TICKET NO.							

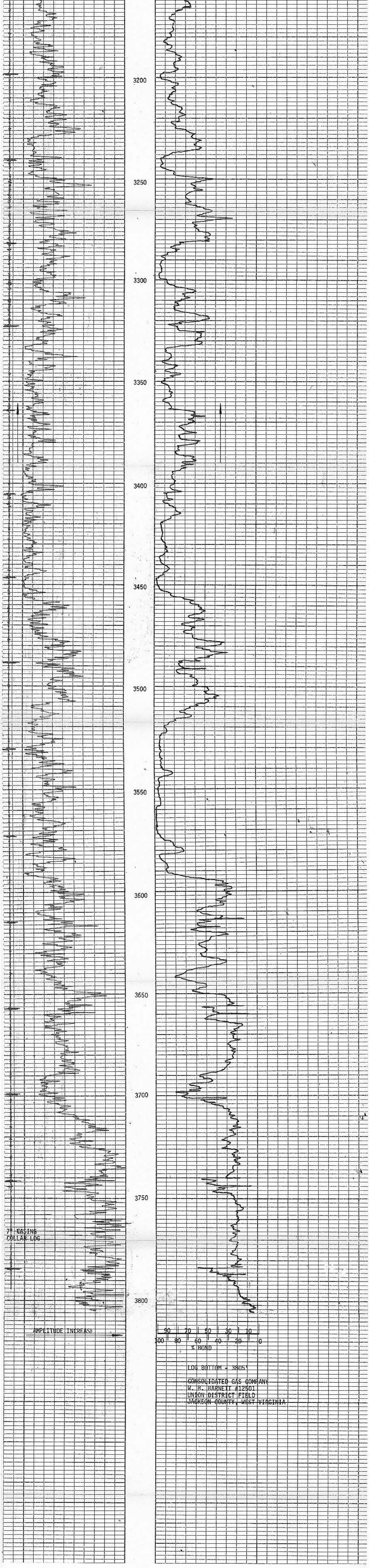
LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT./MIN.	T. C. SEC.	SENS. SETTINGS	ZERO DIV. L. OR R.	API GR. UNITS PER LOG DIV.	T. C. SEC.	SENS. SETTINGS	ZERO DIV. L. OR R.	API N. UNITS PER LOG DIV.
1	3805'	2950'	35								

REMARKS:







LOG BOTTOM - 3805'

CONSOLIDATED GAS COMPANY
W. B. BARNETT #12501
UNION DISTRICT FIELD
JACKSON COUNTY, WEST VIRGINIA