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Figure 9.—Gamma-ray and density logs for drill hole Q12 (scale, 5 inches to 10 feet)

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GAMMA RAY COUNTS PER SECOND

SELF POTENTIAL MILLIVOLTS

RESISTANCE OHMS

GAMMA RAY COUNTS PER SECOND		SELF POTENTIAL MILLIVOLTS		RESISTANCE OHMS	
COMPANY: U.S. GEOLOGICAL SURVEY		—CALIBRATION—		—HOLE DATA—	
PROJECT AREA: EMERY COAL FIELDS	SCALE: 100 CPS.	SOURCE VALUE: 0.56 CPS.		DRILLING CONTRACTOR:	
HOLE NO: Q12	ELEVATION: 6035'	K FACTOR (AIR): 1.43 X10-3		DRILL NO.:	
DATE: 4-25-80		WATER FACTOR: 1.11		CASING FACTOR:	
COUNTY: EMERY		DEAD TIME: 8.96 μ SEC.		DEPTH DRILLED: 465 FT.	
STATE: UTAH		PROBE NO. 5T-5		HOLE DIAMETER: 4 1/2 IN.	
SECTION: 12		PROBE DIAMETER: 1.25 IN.		DRILLING MEDIUM: H ₂ O	
TOWNSHIP: 22S		PROBE LENGTH: 10 FT. 6 IN.		WATER TABLE: FT.	
RANGE: 6E				DEPTH LOGGED: 462 FT.	
				TOTAL FOOTAGE LOGGED: 60 FT.	
INITIAL RUN		DENSITY		NEUTRON	
GAMMA—FULL SCALE— 10" = 200 CPS.		SCALE: 5" = 75 CPS.		SCALE: CPS.	
TIME CONSTANT: 2		TIME CONSTANT: 2		TIME CONSTANT:	
LOGGING SPEED: 5 FT./MIN.		LOGGING SPEED: 5 FT./MIN.		LOGGING SPEED: FT./MIN.	
RESISTANCE—FULL SCALE— OHMS				FROM: FT.	
SELF POTENTIAL: MV/IN.				TO: FT.	
UNIT NO.: 21				TOTAL: FT.	
OPERATOR: C. EULER					
REMARKS:					

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Gamma
0200

Gamma = 20 cts./in.

75 cps Density-gm./cc.

0 cps

+ 1.29 gm./cc.

+ 2.6 gm./cc.

30'

40'

50'

60'

270'

280'

290'

300'