DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

BULLETIN 1637
PLATE 2

RADIATION LOGS

ELECTRIC LOGS

NATURAL GAMMA

Logging speed: 4.6m/min. up
Time constant: 2s

Increasing radiation →

Depth (meters)

COUNTS PER SECOND
0 40 80 120 160

NEUTRON

Logging speed: 4.6m/min. up
Time constant: 2s
Source and spacing: 3 curie $^{241}AmBe$; 17in.

← Increasing H^+ concentration

COUNTS PER SECOND
0 300 500 700

0 100 200 300

GAMMA-GAMMA

Logging speed: 4.6m/min. up
Time constant: 1s
Source and spacing: 3 millicurie ^{60}Co; 17in.

← Increasing bulk density

COUNTS PER SECOND
0 1000 2000 3000 4000 5000

WATER LEVEL

END OF CASING

CALIPER LOG

Logging speed: 4.6m/min. up

DIAMETER, CENTIMETERS
10 15

BOREHOLE–TEMPERATURE LOG

Logging speed: 3.3m/min. down
Time constant: 1s

DEGREES CELSIUS
4 5 6 7

GEOLOGIC CORE LOG

Depth (meters)

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110

EXPLANATION

- DIAMICTON
- CONGLOMERATE
- SANDSTONE
- SILTSTONE—Blocks denote carbonaceous zones
- CLAYSTONE—Blocks denote carbonaceous zones
- CARBONACEOUS SHALE
- COAL
- NO RECOVERY

COMPOSITE OF REFINED GEOPHYSICAL LOGS AND LITHOLOGICAL LOGS, DRILL HOLE CE-82-1