

Figure 18.--Natural gamma and neutron log for drill-hole CB-31A-C

**NUCLEAR LOG**

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION

TYPE: NAT. GAMMA DATE: 8-2-79 District or Project: \_\_\_\_\_  
 LOCATION: State WYO. County CARBON Town \_\_\_\_\_ FILE LOCATION NO.: \_\_\_\_\_

**LOGGING INFORMATION**

Operator(s): W. SHARPE  
 Equipment Address: USGS, DENVER  
 Logger type: \_\_\_\_\_ No. \_\_\_\_\_  
 Tool type: \_\_\_\_\_  
 Detector type: SCINTILLATION  
 Source size: \_\_\_\_\_ C; \_\_\_\_\_ MC  
 Source spacing: \_\_\_\_\_  
 Tool length, cable head to detector: 1 ft in  
 Calibration: 500 cps  
 Logging speed: 20 ft/min up down  
 Log vert. scale: 10 ft/in

**WELL INFORMATION**

Well No. (USGS): CB-31A-C  
 Other: \_\_\_\_\_  
 Map or Quad: CARBON  
 Site description: C sec 29 T.1N. R.90W  
 Agency or Owner: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Altitude of L.S.: 7480 EL  
 Log M.P.: \_\_\_\_\_ Log TD: 487 ft  
 Btm log interval: \_\_\_\_\_ ft Well TD: \_\_\_\_\_ ft  
 Top log interval: \_\_\_\_\_ ft  
 Type of finish: \_\_\_\_\_  
 Casing: Elev. of top \_\_\_\_\_ ft/in Above Below L.S.

**MODULE SETTINGS**

Scale switch (rate or counts): 1000 cps chart div (or) API full scale (circle as applicable)  
 T. C. switch: 4 sec.  
 Position Pot. (Base, zero, or suppression): 10 Dial Div.  
 Sensitivity Pot. (Span): 5.77 Dial Div.  
 Discrimination Pot.: 5 Dial Div.  
 Input pulse: 1.5 volts; Polarity NEG.  
 Output switch: normal reverse  
 Actual scale: \_\_\_\_\_ cps chart div (or) API full scale (circle as applicable)

**RECORDER SETTINGS**

Position Pot.: \_\_\_\_\_ Ch 1 \_\_\_\_\_ Ch 2 \_\_\_\_\_ Ch 3  
 Sensitivity Pot.: 5.18 \_\_\_\_\_  
5.00 \_\_\_\_\_  
 Run No. 1 of 1

Remarks: ORIGINAL got WET in the 'GREAT AEG. 25 Flood' of AUGUST, 1979.

**WELL INFORMATION (continued)**

I.D. \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ type \_\_\_\_\_  
 I.D. \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ type \_\_\_\_\_  
 Cement: from \_\_\_\_\_ to \_\_\_\_\_  
 Perf. interval(s) from \_\_\_\_\_ to \_\_\_\_\_ type \_\_\_\_\_  
 Open hole diameter: from \_\_\_\_\_ to \_\_\_\_\_  
 Fluid level: 1400 in Above At Below L.S., Top Csg  
 Fluid type: WATER temp \_\_\_\_\_ °F, °C  
 Fluid resist.: \_\_\_\_\_ ohm-m  
 Driller: S. ROBERTS  
 Address: USGS, DENVER  
 Type of rig: ROTARY  
 Date started: 8-1-79 completed 8-2-79  
 Aquifer or formation: \_\_\_\_\_

NOTE: This log is not to be used to fulfill private contractual obligations.

Other data and logs available for this well: \_\_\_\_\_

**NUCLEAR LOG**

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION

TYPE: NEUTRON DATE: \_\_\_\_\_ District or Project: \_\_\_\_\_  
 LOCATION: State \_\_\_\_\_ County \_\_\_\_\_ Town \_\_\_\_\_ FILE LOCATION NO.: \_\_\_\_\_

**LOGGING INFORMATION**

Operator(s): \_\_\_\_\_  
 Equipment Address: \_\_\_\_\_  
 Logger type: \_\_\_\_\_ No. \_\_\_\_\_  
 Tool type: \_\_\_\_\_  
 Detector type: \_\_\_\_\_  
 Source size: AmBe 241 C; \_\_\_\_\_ MC  
 Source spacing: 13.5 ft  
 Tool length, cable head to detector: 7 ft in  
 Calibration: 500 cps  
 Logging speed: \_\_\_\_\_ ft/min up down  
 Log vert. scale: \_\_\_\_\_ ft/in

**WELL INFORMATION**

Well No. (USGS): CB-31A-C  
 Other: \_\_\_\_\_  
 Map or Quad: CARBON  
 Site description: \_\_\_\_\_  
 Agency or Owner: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Altitude of L.S.: \_\_\_\_\_  
 Log M.P.: \_\_\_\_\_ Log TD: \_\_\_\_\_ ft  
 Btm log interval: \_\_\_\_\_ ft Well TD: \_\_\_\_\_ ft  
 Top log interval: \_\_\_\_\_ ft  
 Type of finish: \_\_\_\_\_  
 Casing: Elev. of top \_\_\_\_\_ ft/in Above Below L.S.

**MODULE SETTINGS**

Scale switch (rate or counts): 1000 cps chart div (or) API full scale (circle as applicable)  
 T. C. switch: 4 sec.  
 Position Pot. (Base, zero, or suppression): 9.67 Dial Div.  
 Sensitivity Pot. (Span): 5.67 Dial Div.  
 Discrimination Pot.: \_\_\_\_\_ Dial Div.  
 Input pulse: 1.5 volts; Polarity POS.  
 Output switch: normal reverse  
 Actual scale: \_\_\_\_\_ cps chart div (or) API full scale (circle as applicable)

**RECORDER SETTINGS**

Position Pot.: \_\_\_\_\_ Ch 1 \_\_\_\_\_ Ch 2 \_\_\_\_\_ Ch 3  
 Sensitivity Pot.: 5.27 \_\_\_\_\_  
5.00 \_\_\_\_\_  
 Run No. 1 of 1

Remarks: \_\_\_\_\_

**WELL INFORMATION (continued)**

I.D. \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ type \_\_\_\_\_  
 I.D. \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ type \_\_\_\_\_  
 Cement: from \_\_\_\_\_ to \_\_\_\_\_  
 Perf. interval(s) from \_\_\_\_\_ to \_\_\_\_\_ type \_\_\_\_\_  
 Open hole diameter: from \_\_\_\_\_ to \_\_\_\_\_  
 Fluid level: \_\_\_\_\_ ft/in Above At Below L.S., Top Csg  
 Fluid type: \_\_\_\_\_ temp \_\_\_\_\_ °F, °C  
 Fluid resist.: \_\_\_\_\_ ohm-m  
 Driller: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Type of rig: \_\_\_\_\_  
 Date started: \_\_\_\_\_ completed \_\_\_\_\_  
 Aquifer or formation: \_\_\_\_\_

NOTE: This log is not to be used to fulfill private contractual obligations.

Other data and logs available for this well: \_\_\_\_\_

