U. S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GAMMA LOG

Owner or Field No: HTA No. 2 White Sands
Project Name
Geological Survey No.
State County
Location 21 S 04 E 11 333
¼ SW ¼ SW ¼ SW ¼ Sec. 11 T 21 S R 04 E
Depth Datum: , which is ft. (above, below) land surface.
Altitude: MP ft. Land surface 5437.30 ft.
Determined by
Operator(s) Hudson-Doty
Equipment (Vehicle No.) Date

Casing Data

Casing: Diam. in. ft. to ft. Thickness in.
Diam. in. ft. to ft. Thickness in.
Diam. in. ft. to ft. Thickness in.
Bore: Diam. in. ft. to ft.
Diam. in. ft. to ft.
Diam. in. ft. to ft.
Filter: Type Thickness Characteristics,
ft. to
ft. to
Perforations, Screen: Type, size
ft. to
ft. to
Water Level 67 ft. (above, below) 1sd
, which is ft. (above,below) surface. Shut-in head after (hrs., mins.)
Date Dec. 1, 1966
Total Depth 187 ft. Interval Logged 6 ft. to 187 ft.
Fluid in hole: water Characteristics
Fluid level ft. Fluid Temperature °F.
Date Date
Water: Temperature °F. at . Field Cond.
Ra(uu c/L Beta-Gamma(uu c/L U(10-3 gr/l

Logging Data

Run No. 1 or 1 runs. Probe Sensitivity (High
Descent: ft./min. Gamma-Ray circuit scale
Potential circuit scale Time constant
Logged out: 50 ft./min. Gamma-Ray circuit scale 8
Potential circuit scale 0.70 Time constant 2
Statistical Variation 1 in. at 100 ft.Meter Reading
G-R Scale Time Constant
Calibration in hole: (G-R Scale Pot.circ.scale)
Depth (ft.) Obs. Time (min.) Meter Reading

Remarks

Radiation Intensity Increase → Depth Scale: ft./in.

U. S. Geological Survey
Water Resources Division

NEUTRON LOG

Owner or Field No. HTS No. 1 White Sands
Project Name
U.S.G.S. No. Town
State County or Parish
Location 21 S 04 E 23 411
¼ NW ¼ NW ¼ NW ¼ Sec. 23 T 21 S R 04 E
Depth Datum: , which is ft. (above, below) land surface.
Altitude: MP ft. Land surface 5,018.23 ft.
Determined by
Operator(s) Hudson-Doty
Equipment Date 11-30-66
Equipment No.: Vehicle No.

HOLE LOGGING DATA

Casing: Diam. in. ft. to ft.
Diam. in. ft. to ft.
Diam. in. ft. to ft.
Bore: Diam. in. ft. to ft.
Diam. in. ft. to ft.
Diam. in. ft. to ft.
Water Level 68 ft.(above below) Top of casing
, which is ft.(above,below) surface. Shut-in head after (hrs.,mins.)
Date Nov. 30, 1966
Depth drilled (feet): 250
Depth Measured (feet): 250
Interval logged: 8 ft. to 250 ft.

OPERATION DATA

Run No. 1 of 1 runs. Logging Speed: 50 ft./min.
Vertical Scale 20 ft./in.
Source 3 curries AM-BE Spacers 17 in.
Horz. Scale 8 T.C. 2 sec.
Sens. Scale 2.00 2.00 Base Scale 0.00 9.70

FLUID DATA

Type: water
Density, lbs./gal.
Viscosity, sec.
Resistivity, ohms:
Resistivity, B.H.T., ohms: pH:
Circ.Temp.: B.H.Temp.:
Remarks: Sensitivity and base change at water level

U. S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GAMMA LOG

Owner or Field No. HTA No. 1 White Sands
Project Name
Geological Survey No.
State County
Location 21 S 04 E 23 411
¼ NW ¼ NW ¼ SE ¼ Sec. 23 T 21 S R 04 E
Depth Datum: , which is ft. (above, below) land surface.
Altitude: MP ft. Land surface 5018.23 ft.
Determined by
Operator(s) Hudson-Doty
Equipment (Vehicle No.) Date

Casing Data

Casing: Diam. in. ft. to ft. Thickness in.
Diam. in. ft. to ft. Thickness in.
Diam. in. ft. to ft. Thickness in.
Bore: Diam. in. ft. to ft.
Diam. in. ft. to ft.
Diam. in. ft. to ft.
Filter: Type Thickness Characteristics,
ft. to
ft. to
Perforations, Screen: Type, size
ft. to
ft. to
Water Level 68 ft. (above, below) T.C.
, which is 1 ft. (above,below) surface. Shut-in head after (hrs., mins.)
Date Nov. 30, 1966
Total Depth 250 ft. Interval Logged 6 ft. to 250 ft.
Fluid in hole: water Characteristics
Fluid level ft. Fluid Temperature °F.
Date Date
Water: Temperature °F. at . Field Cond.
Ra(uu c/L Beta-Gamma(uu c/L U(10-3 gr/l

Logging Data

Run No. 1 or 1 runs. Probe Sensitivity (High
Descent: ft./min. Gamma-Ray circuit scale
Potential circuit scale Time constant
Logged out: 50 ft./min. Gamma-Ray circuit scale 8
Potential circuit scale 0.70 Time constant 2
Statistical Variation 1 in. at 200 ft.Meter Reading
G-R Scale Time Constant
Calibration in hole: (G-R Scale Pot.circ.scale)
Depth (ft.) Obs. Time (min.) Meter Reading

Remarks

Radiation Intensity Increase → Depth Scale: 20 ft./in.

U. S. Geological Survey
Water Resources Division

NEUTRON LOG

Owner or Field No. HTA No. 2 White Sands
Project Name
U.S.G.S. No. Town
State County or Parish
Location 21 S 04 E 11 333
¼ SW ¼ SW ¼ SW ¼ Sec. 11 T 21 S R 04 E
Depth Datum: , which is ft. (above, below) land surface.
Altitude: MP ft. Land surface 5437.30 ft.
Determined by
Operator(s) Hudson-Doty
Equipment Date
Equipment No.: Vehicle No.

HOLE LOGGING DATA

Casing: Diam. in. ft. to ft.
Diam. in. ft. to ft.
Diam. in. ft. to ft.
Bore: Diam. in. ft. to ft.
Diam. in. ft. to ft.
Diam. in. ft. to ft.
Water Level 67 ft.(above below) 1sd
, which is ft.(above,below) surface. Shut-in head after (hrs.,mins.)
Date Dec. 1, 1966
Depth drilled (feet): 190
Depth Measured (feet): 187
Interval logged: 8 ft. to 187 ft.

OPERATION DATA

Run No. 1 of 1 runs. Logging Speed: 50 ft./min.
Vertical Scale 20 ft./in.
Source 3 curries AM-BE Spacers 17 in.
Horz. Scale 8 T.C. 2 sec.
Sens. Scale 1.70 Base Scale 1.00 9.40

FLUID DATA

Type: Water
Density, lbs./gal.
Viscosity, sec.
Resistivity, ohms:
Resistivity, B.H.T., ohms: pH:
Circ.Temp.: B.H.Temp.:
Remarks: Base - 1.00 above water level
Base - 9.40 below water level

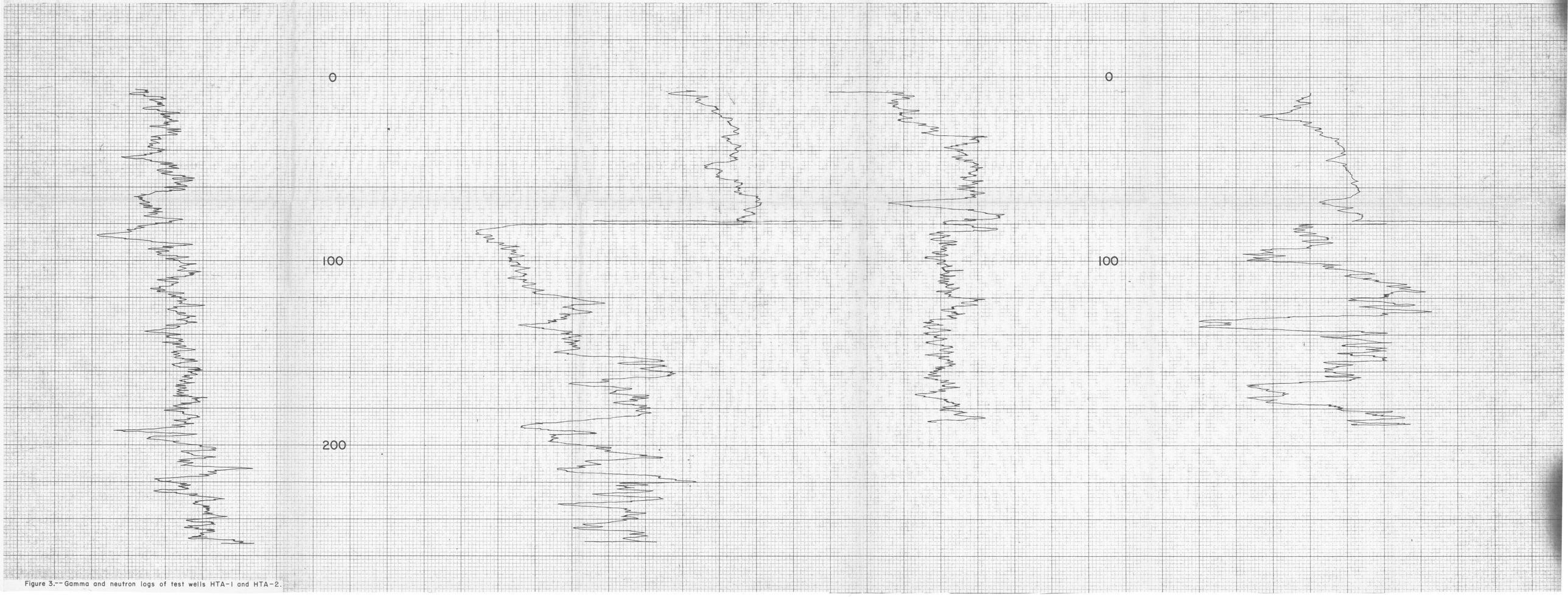

Figure 3.--Gamma and neutron logs of test wells HTA-1 and HTA-2.