DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

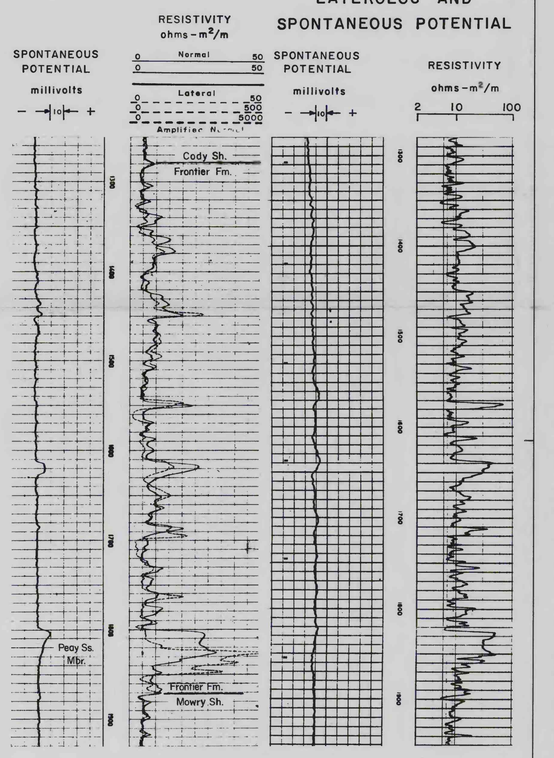
OIL AND GAS INVESTIGATIONS
CHART OC-88 (SHEET 3 OF 3)

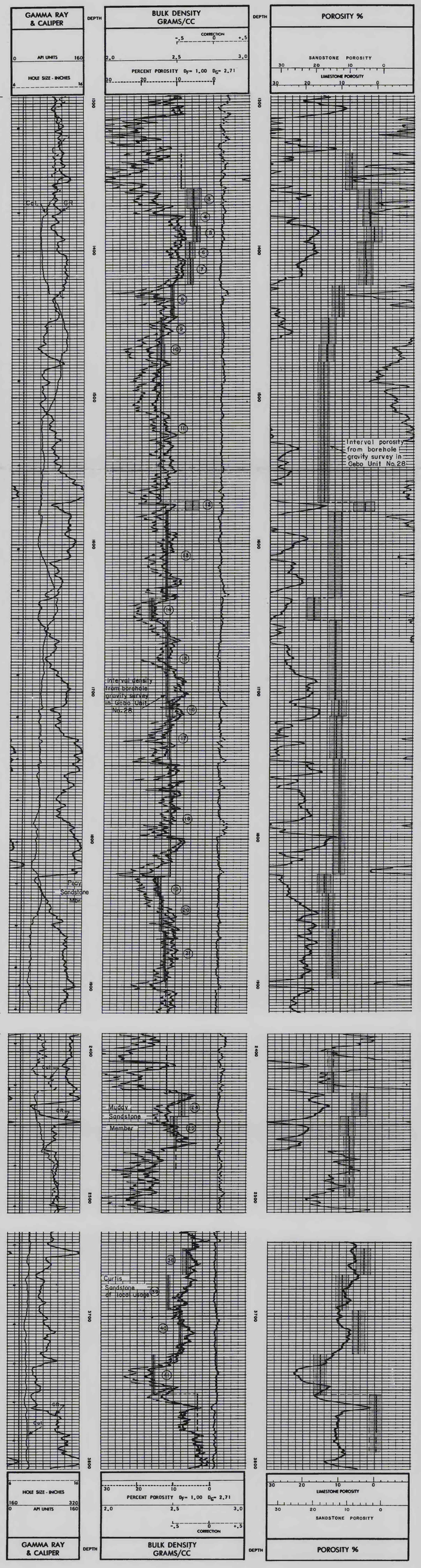
GEBO UNIT NO. 28 — GEBO UNIT NO. 52

BOREHOLE COMPENSATED GAMMA - GAMMA, SIDEWALL NEUTRON, GAMMA—RAY, AND CALIPER LOGS

ELECTRIC LOG

LATEROLOG AND SPONTANEOUS POTENTIAL



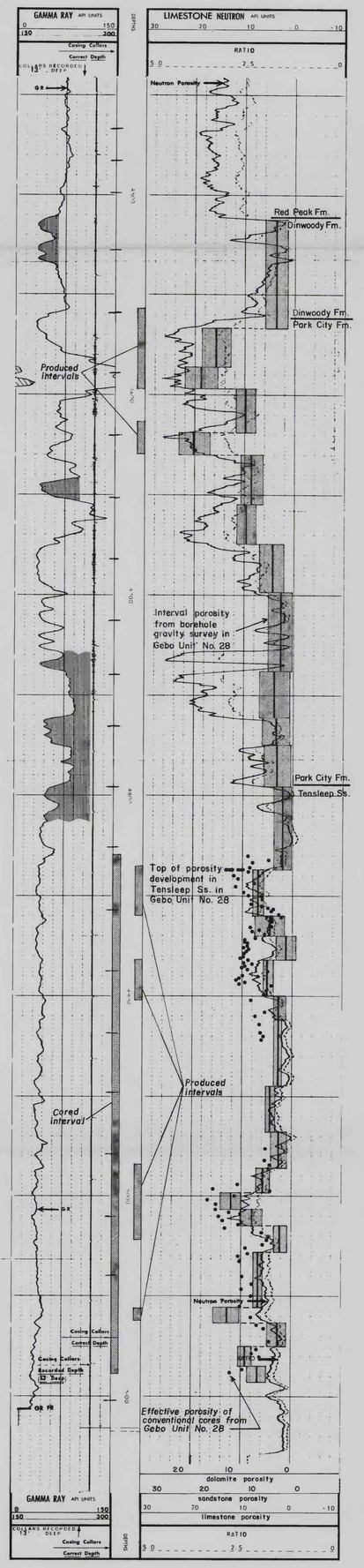


GEBO UNIT NO. 28 — GEBO UNIT NO. 52

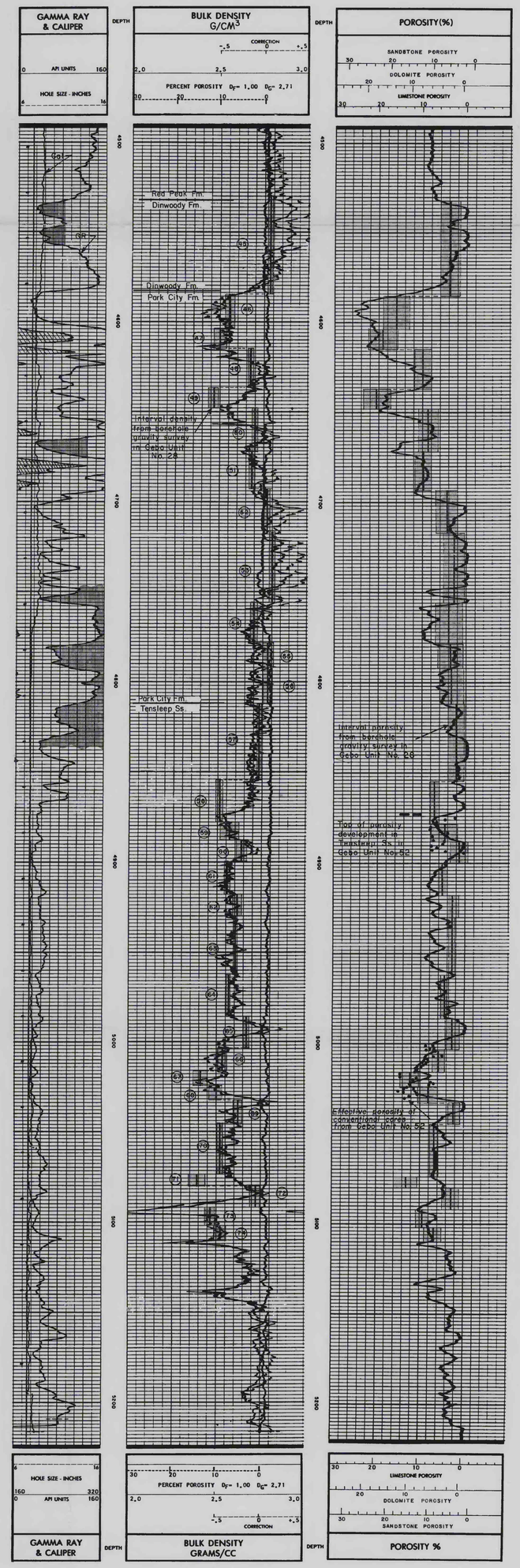
EXPLANATION

The Gebo Unit No. 52 is the closest well to the Gebo Unit No. 28 that has modern gamma-gamma density and neutron porosity logs. These logs were run over four intervals in the Gebo Unit No. 52: (1) 1,300 to 1,900 feet in the Frontier Formation, (2) 2,400 to 2,500 feet in the Muddy Sandstone Member of the Thermopolis Shale, (3) 3,650 to 3,800 feet in the Crow Mountain Sandstone, and (4) 4,500 to 5,200 feet in the Dinwoody and Park City Formations and Tensleep Sandstone. For each of the first three intervals, the electric logs for the Gebo Unit Nos. 28 and 52 are shown side by side in correlated positions. For the fourth interval the gamma-ray logs from these wells are shown in correlated position with parts of each shaded to show their similarity. The interval density and porosity profiles are plotted on the gamma-gamma density and neutron porosity logs from the Gebo Unit No. 52 after vertical adjustments based on correlation of the electric and gamma-ray logs from each well. The interval porosity profile is also plotted on the cased-hole neutron porosity log from the Gebo Unit No. 28. Effective porosity measurements of conventional cores taken from each well are plotted on the appropriate neutron porosity log.

COMPENSATED NEUTRON LOG WITH GAMMA—RAY LOG (CASED-HOLE)



BOREHOLE COMPENSATED GAMMA - GAMMA, SIDEWALL NEUTRON, GAMMA RAY AND CALIPER LOGS



BOREHOLE GRAVITY DENSITY AND POROSITY PROFILES FROM GEBO UNIT NO. 28 PLOTTED ON GAMMA-GAMMA DENSITY AND NEUTRON POROSITY LOGS FROM GEBO UNIT NO. 52

DENSITY AND POROSITY OF OIL RESERVOIRS AND OVERLYING FORMATIONS FROM BOREHOLE GRAVITY MEASUREMENTS, GEBO OIL FIELD, HOT SPRINGS COUNTY, WYOMING

By
L. A. Beyer and F. G. Clutsom

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Interior – Geological Survey, Reston, Va. – 1978 – G78358