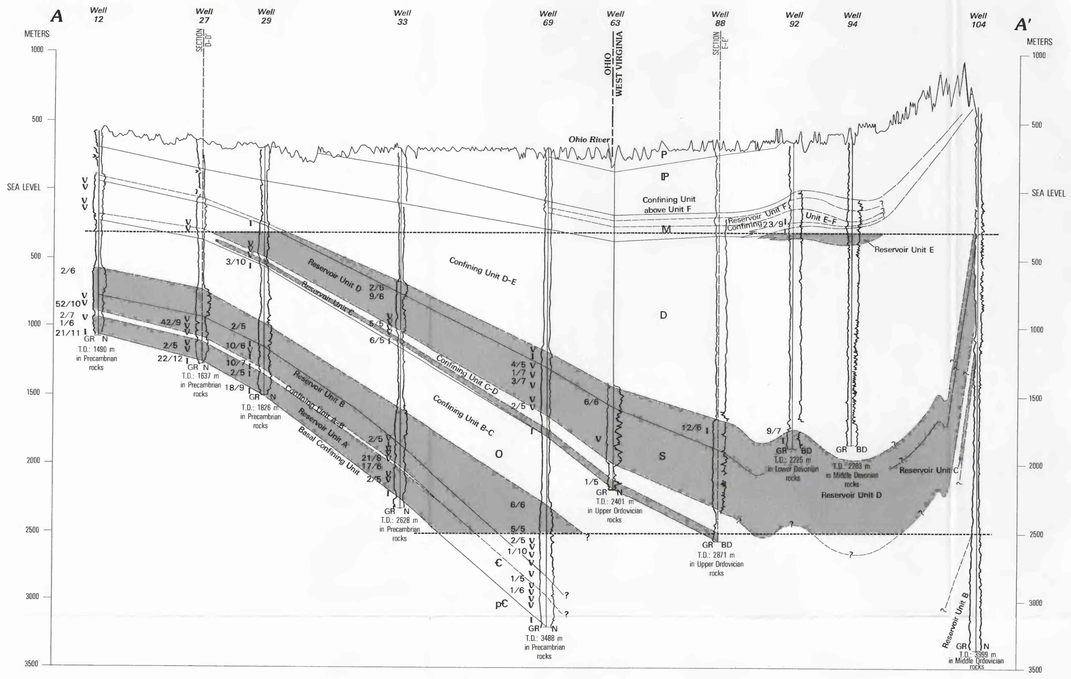
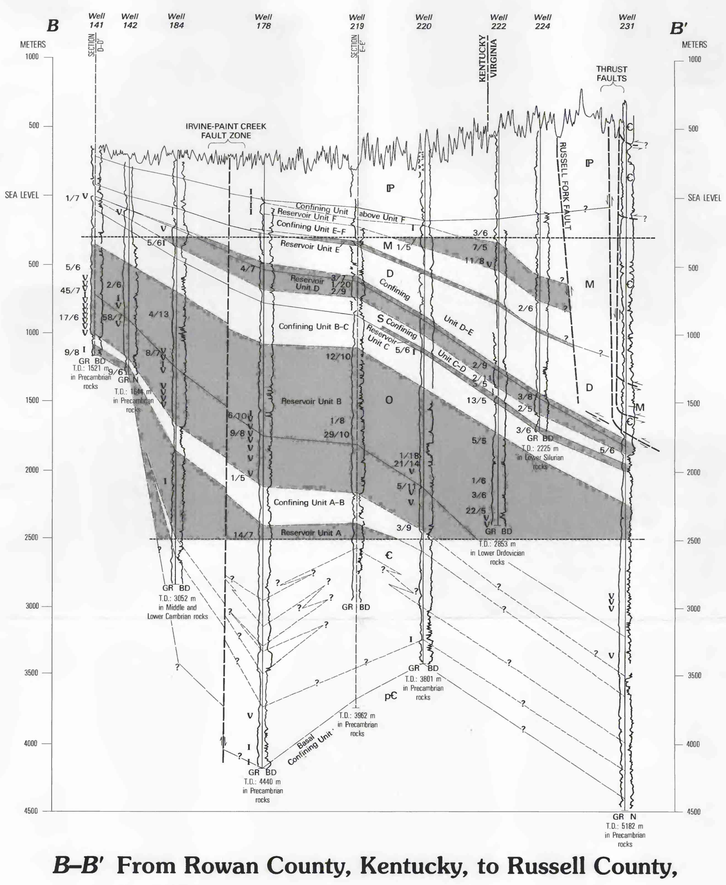
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

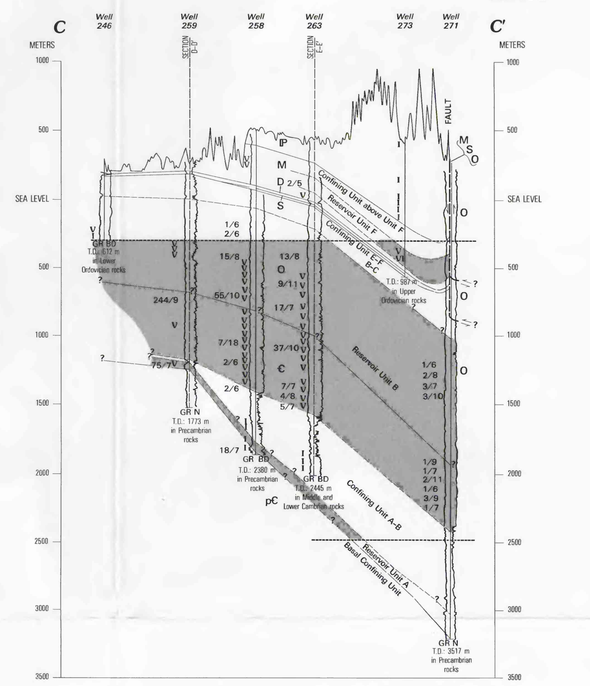
PROFESSIONAL PAPER 1468
PLATE 2



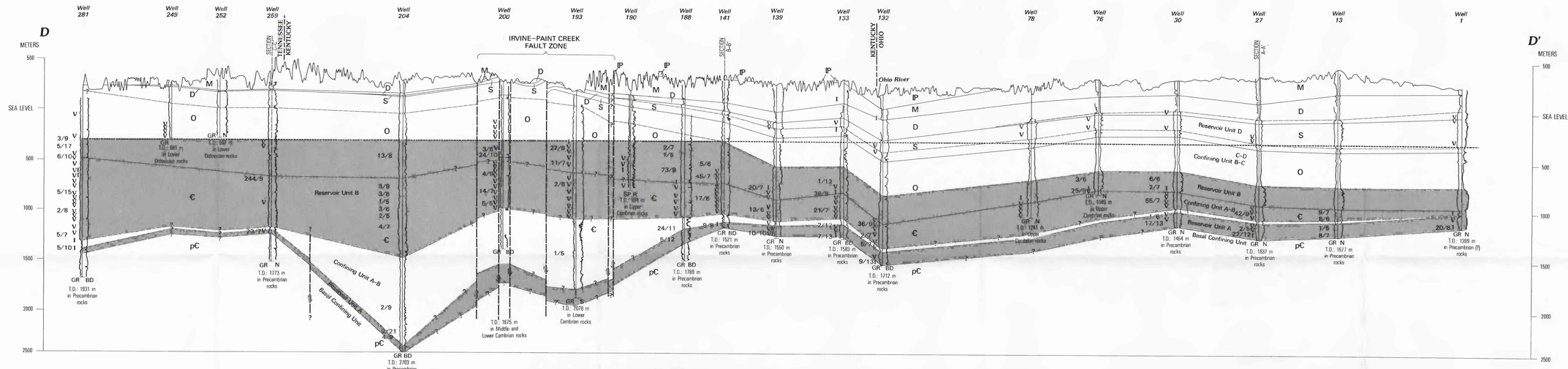
A–A′ From Morrow County, Ohio, to Randolph County, West Virginia



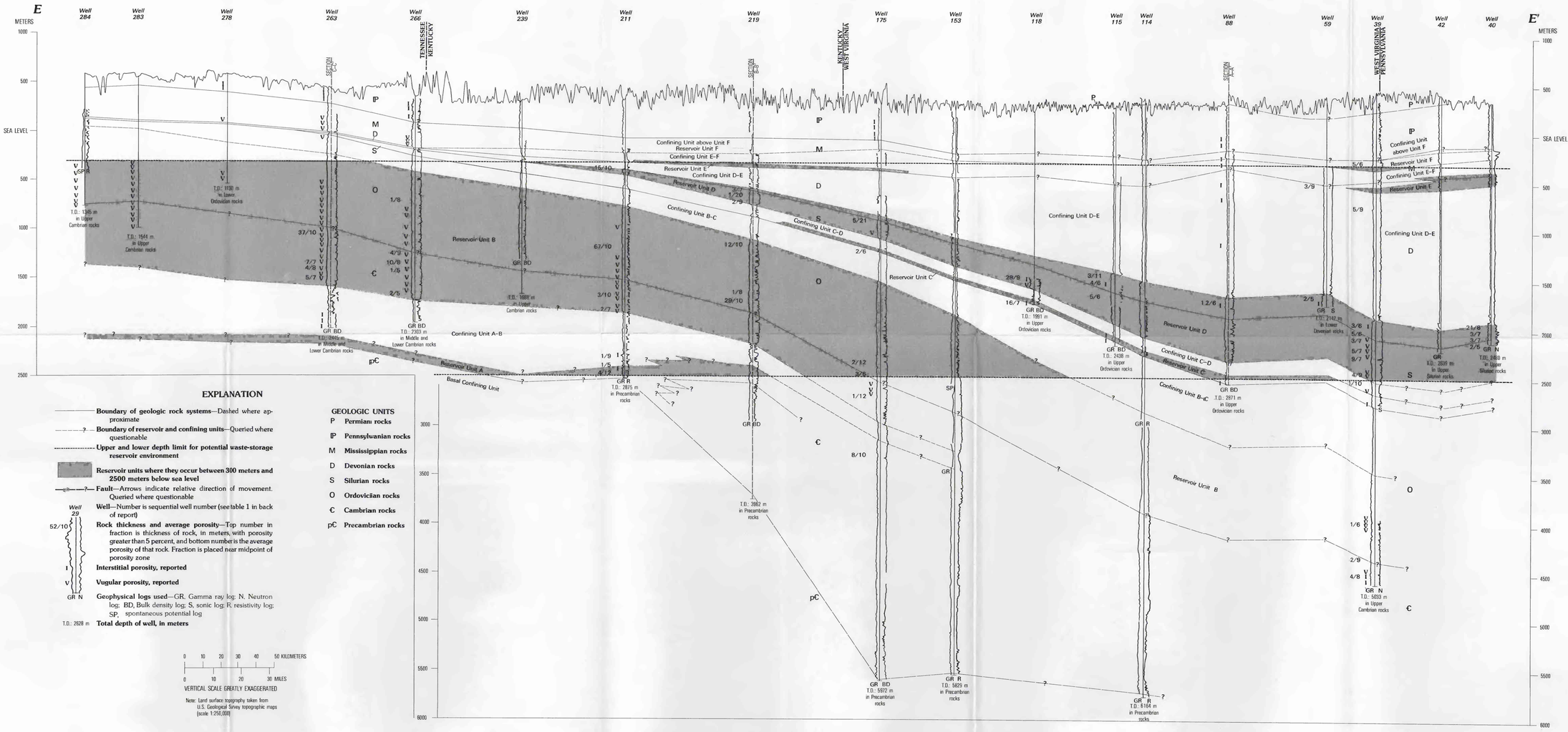
B–B′ From Rowan County, Kentucky, to Russell County, Virginia



C–C′ From Clay County, Tennessee, to Anderson County, Tennessee



D–D′ From DeKalb County, Tennessee, to Lorain County, Ohio



E–E′ From Grundy County, Tennessee, to Washington County, Pennsylvania

EXPLANATION

- **Boundary of geologic rock systems**—Dashed where approximate
- **Boundary of reservoir and confining units**—Queried where questionable
- **Upper and lower depth limit for potential waste-storage reservoir environment**
- **Reservoir units where they occur between 300 meters and 2500 meters below sea level**
- **Fault**—Arrows indicate relative direction of movement. Queried where questionable
- Well 29 — **Well**—Number is sequential well number (see table 1 in back of report)
- 52/10 — **Rock thickness and average porosity**—Top number in fraction is thickness of rock, in meters, with porosity greater than 5 percent, and bottom number is the average porosity of that rock. Fraction is placed near midpoint of porosity zone
- I — **Interstitial porosity, reported**
- V — **Vugular porosity, reported**
- GR N — **Geophysical logs used**—GR, Gamma ray log; N, Neutron log; BD, Bulk density log; S, sonic log; R, resistivity log; SP, spontaneous potential log
- T.D.: 2628 m — **Total depth of well, in meters**

GEOLOGIC UNITS

P	Permian rocks
ℙ	Pennsylvanian rocks
M	Mississippian rocks
D	Devonian rocks
S	Silurian rocks
O	Ordovician rocks
Є	Cambrian rocks
pC	Precambrian rocks

0 10 20 30 40 50 KILOMETERS
0 10 20 30 MILES
VERTICAL SCALE GREATLY EXAGGERATED

Note: Land surface topography taken from U.S. Geological Survey topographic maps (scale 1:250,000)

LINES OF GEOLOGIC CROSS SECTIONS IN CENTRAL AND SOUTHERN PARTS OF THE APPALACHIAN BASIN