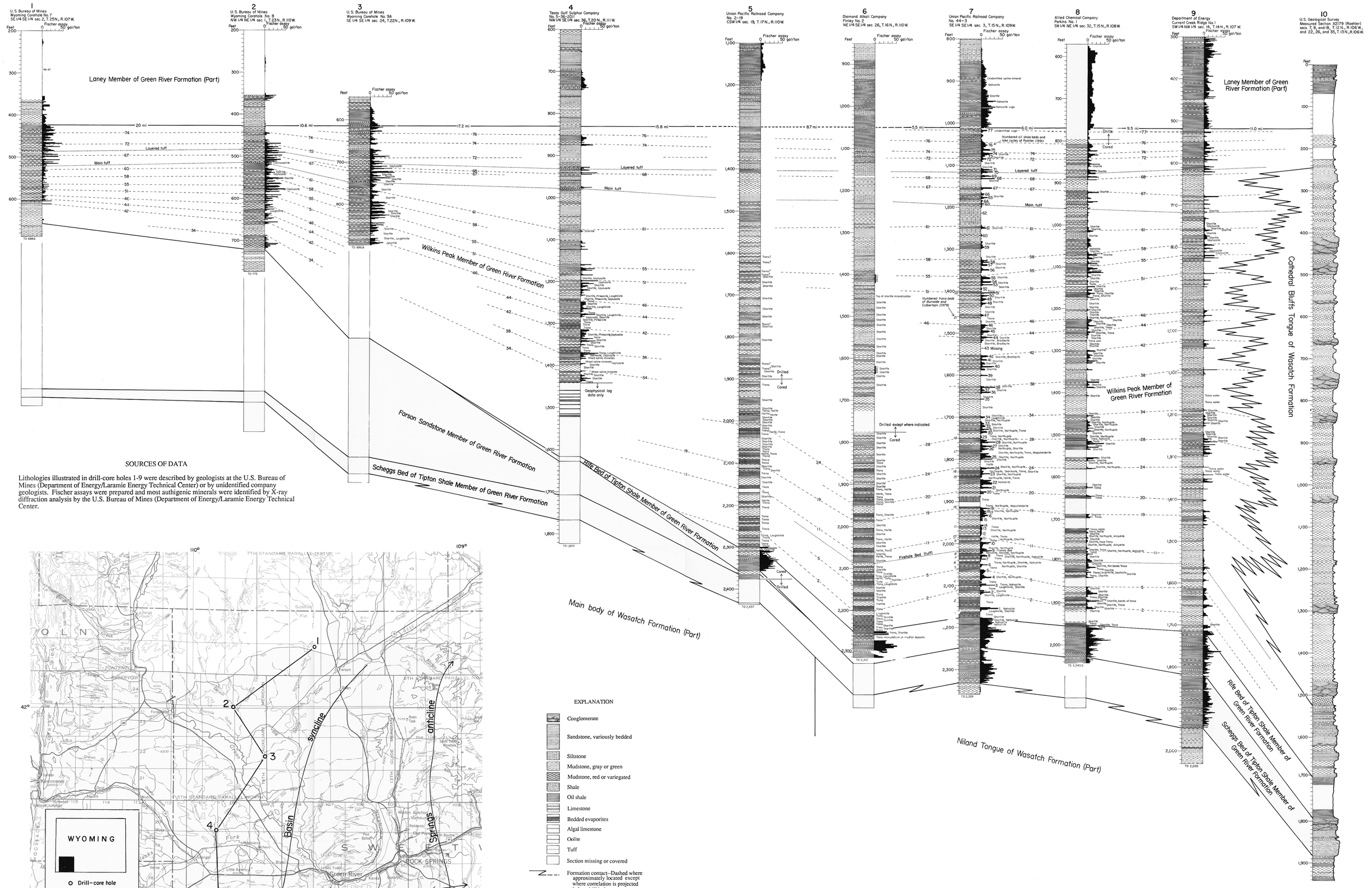
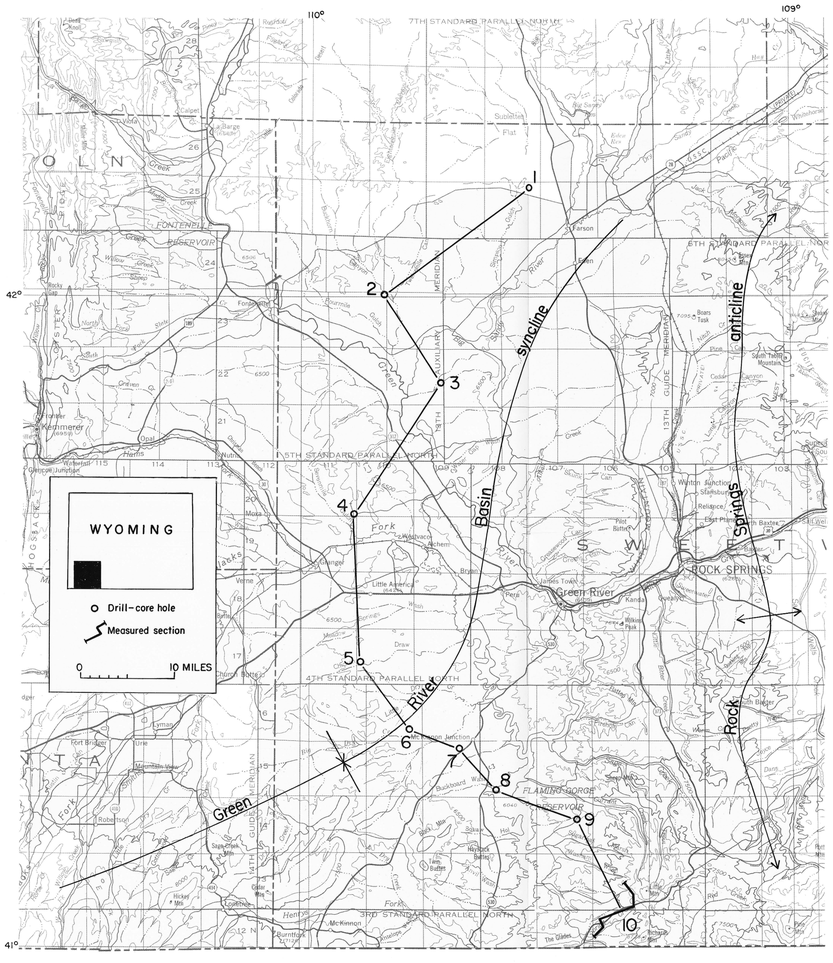
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-2192



SOURCES OF DATA

Lithologies illustrated in drill-core holes 1-9 were described by geologists at the U.S. Bureau of Mines (Department of Energy/Laramie Energy Technical Center) or by unidentified company geologists. Fischer assays were prepared and most authigenic minerals were identified by X-ray diffraction analysis by the U.S. Bureau of Mines (Department of Energy/Laramie Energy Technical Center.



INDEX MAP SHOWING LOCATION OF CORRELATION

EXPLANATION

- Conglomerate
- Sandstone, variously bedded
- Siltstone
- Mudstone, gray or green
- Mudstone, red or variegated
- Shale
- Oil shale
- Limestone
- Bedded evaporites
- Algal limestone
- Oolite
- Tuff
- Section missing or covered
- Formation contact--Dashed where approximately located except where correlation is projected below drill holes
- Oil shale bed correlation (Roehler, 1991)
- Correlation of named tuff bed

References

Burnside, M.J., and Culbertson, W.C., 1979, Trona deposits in the Green River basin, Sweetwater, Uinta, and Lincoln Counties, Wyoming: U.S. Geological Survey Open-File Report 79-737, 10 p.

Roehler, H.W., 1991, Correlation and depositional analysis of oil shale and associated rocks in the Eocene Green River Formation, Greater Green River Basin, southwest Wyoming: U.S. Geological Survey Miscellaneous Investigations Series Map I-2226.

AUTHIGENIC MINERALS

Carbonates
- Nahcolite $NaHCO_3$
- Shortite $Na_2Ca_2(CO_3)_3$
- Thermonatrite $Na_2CO_3 \cdot H_2O$
- Pirssonite $Na_2Ca(CO_3)_2 \cdot 2H_2O$
- Gaylussite $Na_2Ca(CO_3)_2 \cdot 5H_2O$
- Anhydrite $CaCO_3$
- Wegscheiderite $Na_5CO_3)(HCO_3)_3$
- Trona $Na_2(CO_3) \cdot Na(HCO_3) \cdot 2H_2O$

Carbonate-phosphate
- Bradleyite $Na_3PO_4 \cdot MgCO_3$

Carbonate-chloride
- Northupite $Na_2CO_3 \cdot MgCO_3 \cdot NaCl$

Silicates
- Serlesite $NaB(SiO_3)_2 \cdot H_2O$
- Loughlinite $H_{16}Na_2Mg_3Si_6O_{24}$

Sulfates
- Anhydrite $CaSO_4$

Halides
- Halite NaCl

NORTH-SOUTH CORRELATION OF OIL-SHALE AND TRONA BEDS IN THE EOCENE GREEN RIVER FORMATION, GREEN RIVER BASIN, SOUTHWEST WYOMING

By

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1992

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