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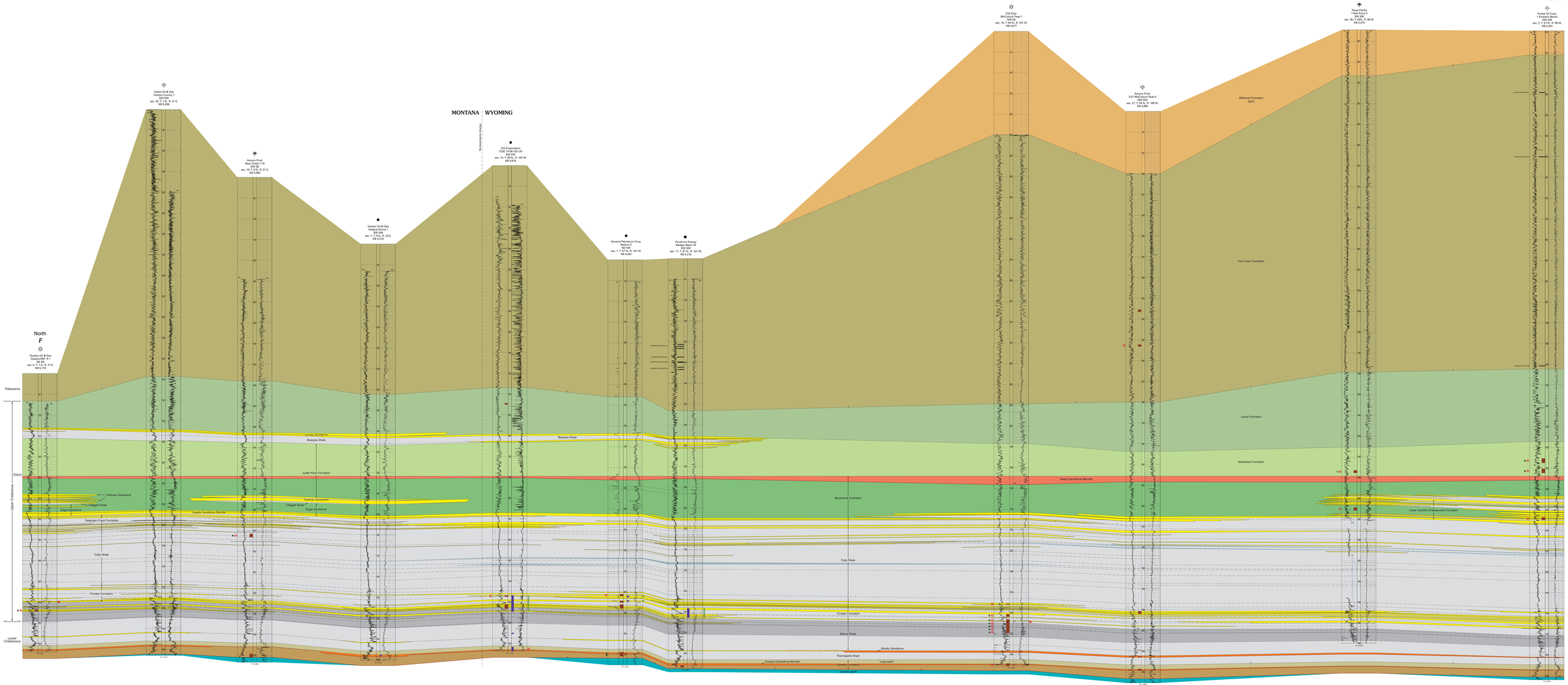

CROSS SECTION *F–F'* SHOWING CORRELATION OF CRETACEOUS AND LOWER TERTIARY ROCKS FROM THE NYE-BOWLER LINEAMENT TO THE SOUTHEASTERN MARGIN OF THE BASIN (NORTH HALF)

By
Thomas M. Finn

2010

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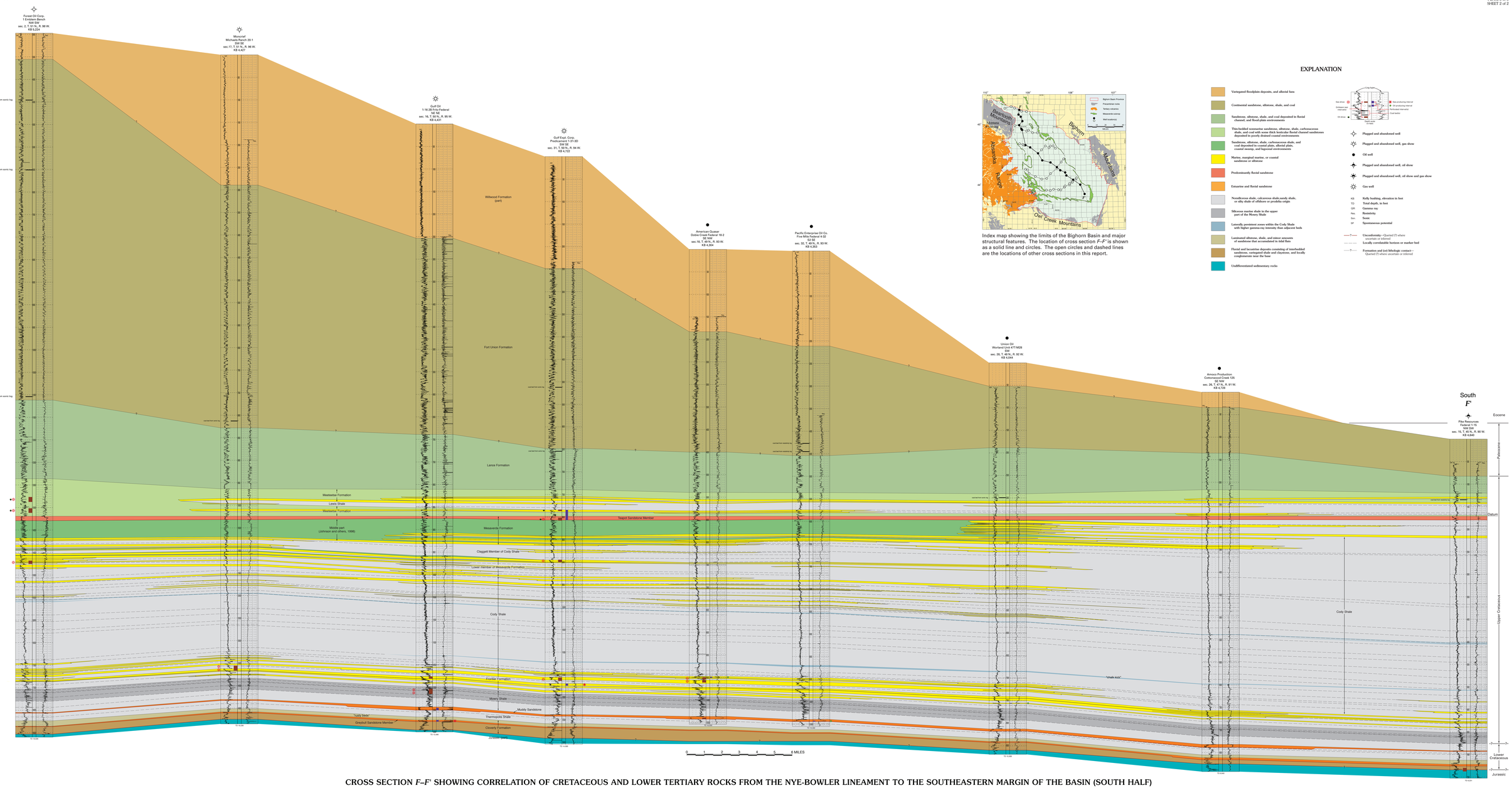

Index map showing the limits of the Bighorn Basin and major structural features. The location of cross section *F–F'* is shown as a solid line and circles. The open circles and dashed lines are the locations of other cross sections in this report.

EXPLANATION

- Variegated floodplain deposits, and alluvial fans
- Continental sandstone, siltstone, shale, and coal
- Sandstone, siltstone, shale, and coal deposited in fluvial channel, and flood-plain environments
- Thin-bedded nonmarine sandstone, siltstone, shale, carbonaceous shale, and coal deposited in fluvial, deltaic, and tidal-channel sandstones deposited in poorly drained coastal environments
- Sandstone, siltstone, shale, carbonaceous shale, and coal deposited in coastal plain, alluvial plain, coastal swamp, and lagoonal environments
- Marine, marginal marine, or coastal sandstone or siltstone
- Predominantly fluvial sandstone
- Estuarine and fluvial sandstone
- Nonsiliceous shale, calcareous shale,sandy shale, or silty shale of offshore or prodelta origin
- Siliceous marine shale in the upper part of the Mowry Shale
- Laterally persistent zones within the Cody Shale with higher gamma-ray intensity than adjacent beds
- Laminated siltstone, shale, and minor amounts of sandstone that accumulated in tidal flats
- Fluvial and lacustrine deposits consisting of interbedded sandstone, variegated shale and claystone, and locally conglomerate near the base
- Undifferentiated sedimentary rocks

- Plugged and abandoned well
- Plugged and abandoned well, gas show
- Oil well
- Plugged and abandoned well, oil show
- Plugged and abandoned well, oil show and gas show
- Gas well

KB Kelly bushing, elevation in feet
TD Total depth, in feet
GR Gamma ray
Res. Resistivity
Son. Sonic
SP Spontaneous potential

Unconformity—Quarried (?) where uncertain or inferred

Locally correlatable horizon or marker bed

Formation and (or) lithologic contact—Quarried (?) where uncertain or inferred

CROSS SECTION *F–F'* SHOWING CORRELATION OF CRETACEOUS AND LOWER TERTIARY ROCKS FROM THE NYE-BOWLER LINEAMENT TO THE SOUTHEASTERN MARGIN OF THE BASIN (SOUTH HALF)

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