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

SCIENTIFIC INVESTIGATIONS REPORT 2004-5091
CHAPTER A, PLATE 4

EXPLANATION

[Datum is basin-wide bentonitic marker in upper part of Cody Shale]

SYMBOLS USED IN DRILLHOLES AND MEASURED SECTIONS

Perforated interval
Drillstem test interval
Depth in thousands of feet
GR Resistivity Conductivity
TD 10,070

MAJOR LITHOLOGIES

- Sandstone
- Siltstone
- Light-gray or green claystone or clayshale
- Medium-gray or green claystone or clayshale
- Dark-gray or green claystone or clayshale
- Variegated claystone or clayshale
- Silty claystone or clayshale
- Volcanic rocks
- Bentonite beds
- Covered (surface section) or missing samples (drillhole)

MODIFIERS

- Calcareous
- Conglomeratic
- Siliceous
- Bentonitic
- Carbonaceous
- Light-colored chert grains
- Dark-colored chert grains
- Shaly
- Dark- and light-colored chert pebbles

FOSSILS

- Pelecypods
- Fish

ABBREVIATIONS

SP Spontaneous potential
GR Gamma ray
P Pyrite
B Bentonite
F Fossil
KB Kelly bushing
GR Ground elevation

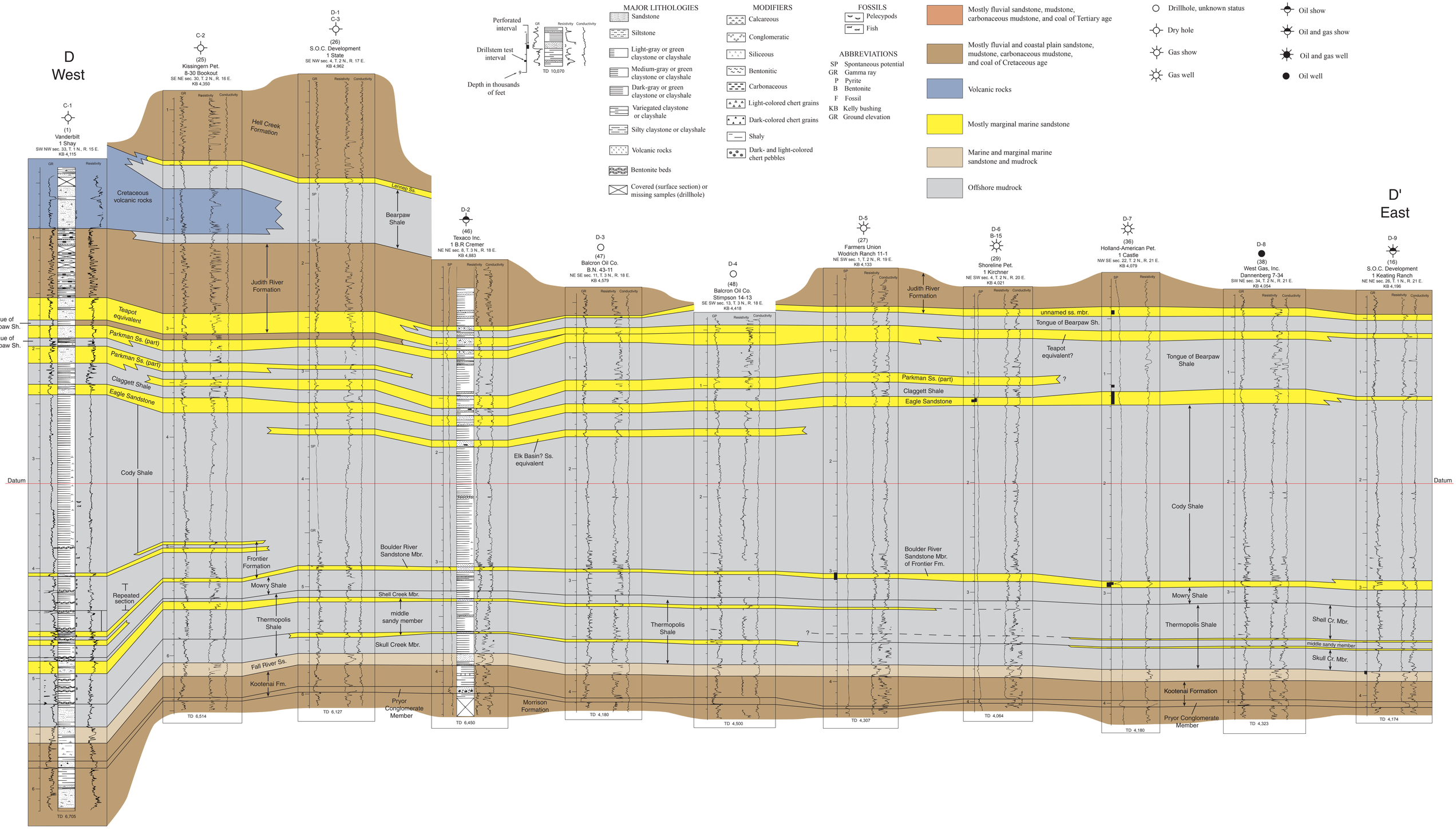
DEPOSITIONAL SETTING

- Mostly fluvial sandstone, mudstone, carbonaceous mudstone, and coal of Tertiary age
- Mostly fluvial and coastal plain sandstone, mudstone, carbonaceous mudstone, and coal of Cretaceous age
- Volcanic rocks
- Mostly marginal marine sandstone
- Marine and marginal marine sandstone and mudrock
- Offshore mudrock

DRILLHOLE SYMBOLS

(Number in parentheses under drillhole symbol is keyed to table 1)

- Drillhole, unknown status
- Dry hole
- Gas show
- Gas well
- Oil show
- Oil and gas show
- Oil and gas well
- Oil well



DETAILED WEST TO EAST CROSS SECTION OF UPPER CRETACEOUS AND LOWER TERTIARY ROCKS ACROSS EAST-CENTRAL PART OF CRAZY MOUNTAINS BASIN, MONTANA, SHOWING LITHOLOGIES AND DEPOSITIONAL SETTINGS

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