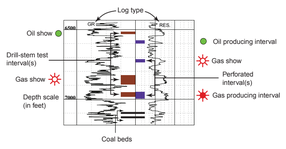
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

DIGITAL DATA SERIES DDS-69-J
CHAPTER 9, PLATE 6

EXPLANATION

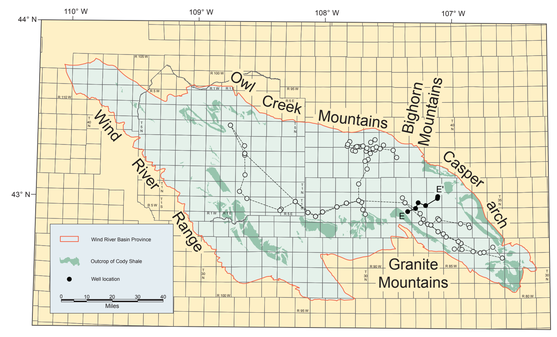
- Variegated flood-plain deposits, and alluvial fans
- Predominantly marginal lacustrine sandstone
- Lacustrine shale
- Continental, sandstone, siltstone, shale, and coal
- Sandstone, siltstone, shale, and coal deposited in fluvial channel, floodplain, and lacustrine environments
- Thin-bedded nonmarine sandstone, siltstone, shale, carbonaceous shale and coal 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 persistant zone within the Cody Shale showing higher gamma-ray intensity



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

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

- Unconformity, queried (?) where uncertain
- Locally correlatable horizon or marker bed
- Formation and (or) lithologic contact, queried (?) where uncertain



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

Northeast
E'

Union Oil of California
Hells Half Acre II 1-K-11
NE SW
sec. 11, T. 35 N., R. 86 W.
KB 5,859

Union Oil of California
Key Springs 1-F-14
SE NW
sec. 14, T. 35 N., R. 86 W.
KB 5,914

Sohio Petroleum Co.
Broad Mesa 36-1
NW NE
sec. 36, T. 35 N., R. 87 W.
KB 6,165

Sohio Petroleum Co.
Wildhorse Butte 28-1
NW NE
sec. 28, T. 35 N., R. 87 W.
KB 6,140

Gulf Oil Corp.
Hornbeck Federal #1
SW NE
sec. 5, T. 34 N., R. 87 W.
KB 6,139

Southeast
E

Pubco Petroleum
Federal #11-11
NE SW
sec. 11, T. 34 N., R. 88 W.
KB 6,469

Lower Eocene rocks
Shotgun Member
Waltman Shale Member
Fort Union Formation
Lower member of Fort Union Formation
Fort Union Formation undivided
Lance Formation
Meeteetse Formation
Lewis Shale (lower tongue)
Meeteetse Formation
Teapot Sandstone Member
Unnamed middle member
Parkman Sandstone Member
Mesaverde Formation
Wallace Creek Tongue of Cody Shale
Parkman Sandstone Member
Fales Sandstone Member
Upper sandy member
Cody Shale
Lower shaly member
"chalk kick"
Clay Spur Bentonite Bed
"Dakota silt"
Mowry Shale
Thermopolis Shale
Muddy Sandstone
Frontier Formation
Cloverly Formation
"chalk kick"
TD 9,556
TD 12,477
TD 14,185
TD 17,400
TD 20,000
TD 22,431

Eocene
Paleocene
Lewis Shale
Upper Cretaceous
Lower Cretaceous
Jurassic

0 1 2 3 4 5 6 miles

SOUTHWEST-NORTHEAST SUBSURFACE STRATIGRAPHIC CROSS SECTION E-E' OF CRETACEOUS AND LOWER TERTIARY ROCKS FROM THE NORTHERN COALBANK HILLS TO HELLS HALF ACRE

By
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2007

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Chapter 9