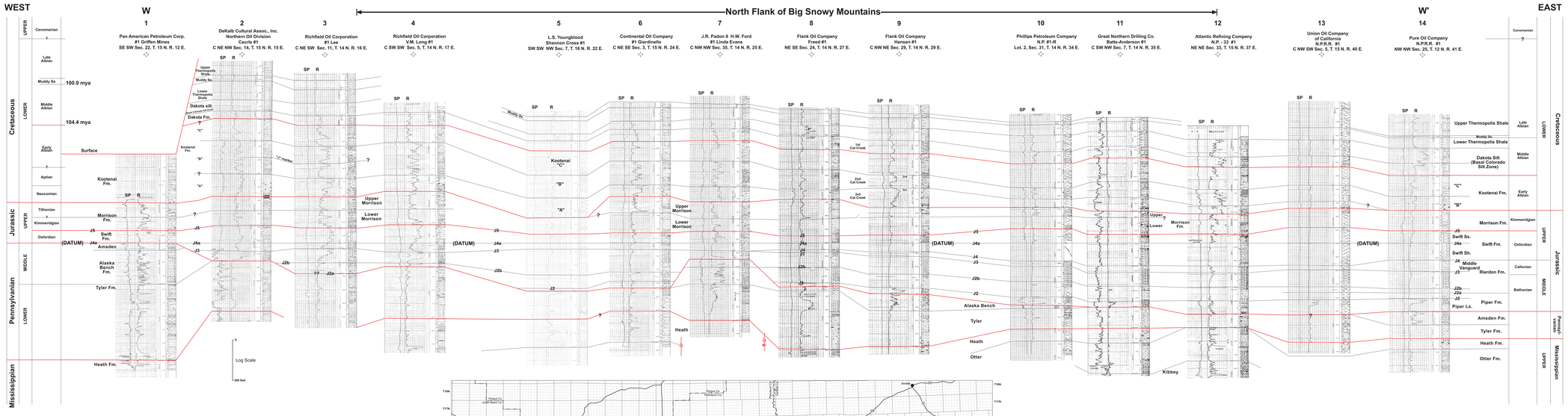
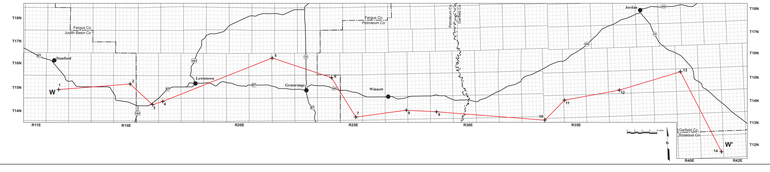


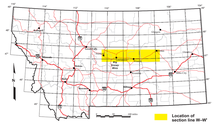


Montana Bureau of Mines and Geology
Open File 559

East–West Stratigraphic Cross Section W–W' from Well Logs, Showing Interval from Upper Mississippian through Lower Cretaceous, Central Montana

Lloyd Furer

2007



LEGEND

J4, J3 — Significant regional unconformity or its correlative conformable surface. Modified from Pipiringos and O'Sullivan (1978); see author's notes below.

Correlation line

SP, R — Spontaneous Potential (SP) and Resistivity (R) log curves

Source of well-log data:
Montana Geological Society, Billings, MT
Northwest Geological Services, Billings, MT

Author's Notes

1. The thin coaly interval that is locally present and traditionally included at the top of the Morrison Formation is here included in the basal Cretaceous Kootenai Formation because of Cretaceous dates on the coals.
2. Pipiringos, G.N., and O'Sullivan, R.B., 1978, Principal unconformities in Triassic and Jurassic rocks, Western Interior, United States—A preliminary survey: U.S. Geological Survey Professional Paper 1035-A, 29 p.

Publisher's Notes

1. The Montana Bureau of Mines and Geology is issuing a series of well-log cross sections across Montana. Log selection and correlation are the work of Lloyd Furer, independent geologist. The cross sections have been reviewed by those individuals noted on each section; responsibility for the interpretations remains with the author.
2. Lithologic symbols shown in the lith-log columns of each well are the original American Stratigraphic Co. or Canadian Stratigraphic Co. data.

Reviewers: Mike May, Western Kentucky University
Michael B. Bryant, Nance Petroleum

Preparation and graphics: Peggy Delaney and Susan Smith, MBMG

Maps may be obtained from
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http://www.mbmg.mtech.edu

MONTANA BUREAU OF MINES AND GEOLOGY
A Department of Montana Tech of The University of Montana

Open File MBMG 559, Plate 1 of 1
East–West Stratigraphic Cross Section W–W'

WEST W North Flank of Big Snowy Mountains W' EAST
1 Pan American Petroleum Corp. #1 Griffen Mines SE SW Sec. 22, T. 15 N. R. 12 E.
2 DeKalb Cultural Assoc., Inc. Northern Oil Division Cecrle #1 C NE NW Sec. 14, T. 15 N. R. 15 E.
3 Richfield Oil Corporation #1 Lee C NE SW Sec. 11, T. 14 N. R. 16 E.
4 Richfield Oil Corporation V.M. Long #1 C SW SW Sec. 5, T. 14 N. R. 17 E.
5 L.S. Youngblood Shannon Cross #1 SW SW NW Sec. 7, T. 16 N. R. 22 E.
6 Continental Oil Company #1 Giardinello C NE SE Sec. 3, T. 15 N. R. 24 E.
7 J.R. Padon & H.W. Ford #1 Linda Evans C NW NW Sec. 35, T. 14 N. R. 25 E.
8 Flank Oil Company Freed #1 NE SE Sec. 24, T. 14 N. R. 27 E.
9 Flank Oil Company Hansen #1 C NW NE Sec. 29, T. 14 N. R. 29 E.
10 Phillips Petroleum Company N.P. #1-R Lot. 2, Sec. 31, T. 14 N. R. 34 E.
11 Great Northern Drilling Co. Batts-Anderson #1 C SW NW Sec. 7, T. 14 N. R. 35 E.
12 Atlantic Refining Company N.P. - 33 #1 NE NE Sec. 33, T. 15 N. R. 37 E.
13 Union Oil Company of California N.P.R.R. #1 C NW SW Sec. 5, T. 15 N. R. 40 E.
14 Pure Oil Company N.P.R.R. #1 NW NW Sec. 23, T. 12 N. R. 41 E.
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Open File 559
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