113°15'   113°00'   112°45'

48°15'

48°00'

47°45'

LEWIS THRUST

LEWIS THRUST

LEWIS THRUST

LEWIS THRUST

ELDORADO THRUST

ZONE OF MANY THRUST FAULTS

BADGER CREEK

BIRCH CREEK

DUPUYER CREEK

BLACKLEAF CREEK

TETON RIVER

DEEP CREEK

SUN RIVER

SWIFT RESERVOIR

GIBSON RESERVOIR

UPPERMOST PART OF MADISON GROUP (MISSISSIPPIAN)

MAP SYMBOLS

NORMAL FAULT
U, upthrown side
D, downthrown side

THRUST FAULT
sawteeth on upper plate

ANTICLINE

OVERTURNED ANTICLINE

GAS WELL (IN MISSISSIPPIAN ROCKS)

STRATIGRAPHIC SECTION LOCALITIES

STRATIGRAPHIC SECTION SYMBOLS

Jurassic clastic rocks

Dolomitized mudstone, wackestone and packstone, massively parted, unlaminated; thin encrinite beds, chert nodules, some bryozoans and brachiopods; great variety of corals; rare mudcracks and algal lamination at top.

Dolomitized coarse-grained encrinite, white colored, massively crossbedded; large corals and interbedded cherty mudstone units at top. Dolomitization front variable in stratigraphic position. Dolomite-limestone transition marked by selective dolomitization of fine-grained matrix. Incomplete section indicated by irregular line at base.

Lime wackestone and thin- to thick-bedded rare encrinite beds; crossbedding rare; dark colored, cherty and locally dolomitic at top; fenestrate bryozoa and brachiopods common locally. Dolomitized where indicated.

Covered

D/L   Dolomite-limestone transition -- D, mostly dolomite; L, mostly limestone

%   Porosity of a representative surface sample from the stratigraphic level indicated

100 meters   Vertical scale of stratigraphic sections

Map Location
MONTANA

4%
8%
1%

11%
17%
22%
8%

14%

7%
9%
2%

15%
8%

3%

10%

5%
12%
6%

SCALE 1:125,000

2   0   2   4   6   8   10 MILES
2   0   2   4   6   8   10 KILOMETERS

STRATIGRAPHIC SECTIONS OF THE UPPERMOST PART OF THE MADISON GROUP (MISSISSIPPIAN), DISTURBED BELT, MONTANA
By
K.M. Nichols
1982