UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1072 PLATE 4

GEOLOGIC MAP AND SECTIONS OF THE PLACERVILLE QUADRANGLE, COLORADO

EXPLANATION

SEDIMENTARY ROCKS

Qal — Alluvium
Includes stream gravels and alluvial-fan deposits

Qls — Landslides
Includes landslips and mud flows

Qtg — River-terrace gravels
Probably Wisconsin in age

Qd — Glacial drift
Till of pre-Wisconsin age, probably correlative with Cerro till

Recent; Pleistocene — QUATERNARY

UNCONFORMITY

Km — Mancos shale
Gray to black shale and a few thin fossiliferous limestone beds

Kd — Dakota sandstone
Conglomeratic sandstone, sandstone, carbonaceous shale, and local thin coaly beds

Upper Cretaceous; Lower(?) and Upper Cretaceous — CRETACEOUS

UNCONFORMITY ?

Jmbb / Jmsw — Morrison formation
Brushy Basin shale member, Jmbb, variegated red and green claystone and siltstone, red thin blocky sandstone and a few conglomerate beds; locally includes at top a thin equivalent of the Burro Canyon formation of Early Cretaceous age

Salt Wash sandstone member, Jmsw, thick lenticular sandstone beds and some interbedded mudstone layers

Jw — Wanakah formation
Greenish-gray to red-brown limy siltstone and a few thin limy sandstone beds at top; in center, Bilk Creek sandstone member, soft fine-grained light-colored sandstone with distinctive "carnelian" sandstone at top; at base, Pony Express limestone member, dark-gray to black bituminous limestone, absent in western half of quadrangle

Je — Entrada sandstone
Massive light-colored crossbedded sandstone; some even-bedded sandstone at the top; locally contains tabular vanadium-uranium deposits

Upper Jurassic — JURASSIC

UNCONFORMITY

Trd — Dolores formation
Red siltstone, sandstone, shale, and a few thin limestone-pebble conglomerate layers; a quartz-pebble conglomerate or grit at the base; locally includes a thin Wingate sandstone equivalent of Triassic age at the top

Upper Triassic — TRIASSIC

UNCONFORMITY

Pc — Cutler formation
Grayish- to purplish-red micaceous sandstone, siltstone, and arkose; numerous beds of arkosic conglomerate

PERMIAN

IGNEOUS ROCKS

di — Intrusive rocks
Sills and discordant intrusives of equigrained and porphyritic andesite and diorite in the Dakota sandstone and the Mancos shale

m, an — Dikes
Monchiquite, m, and andesitic dikes, an, intrusive in the Permian, Triassic, and Jurassic sedimentary rocks

TERTIARY(?) AND TERTIARY

OTHER INTRUSIVE ROCKS

cl — Clastic dikes
Dikes composed of rounded and angular fragments of igneous, metamorphic, and sedimentary rocks, as much as 8 or 9 inches in diameter, in a fine- to coarse-grained matrix; intrusive in the Cutler and Dolores formations

TERTIARY(?)

Travertine deposits at springs of Recent age

Contact
Dashed where approximately located

Indefinite contact
Includes inferred contacts and indefinite boundaries of surficial deposits

Fault, showing dip
Dashed where approximately located; short dashes where projection inferred; dotted where concealed. U, upthrown side; D, downthrown side

Doubtful or probable fault

Strike and dip of beds

Approximate strike and dip of beds

Horizontal beds

Structure contours
Drawn on base of Dakota sandstone; dashed where approximately located; short dashes indicate projection above surface. Above San Miguel Canyon, base of Dakota is projected from the base of the Dolores formation by proration of measurements of the Cutler-Dakota stratigraphic interval. Contour interval 100 feet. Datum is mean sea level

Shaft

Adit

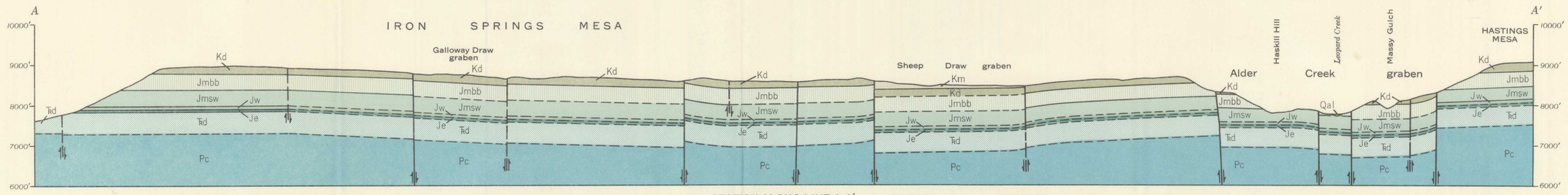
Mine or quarry

Prospect

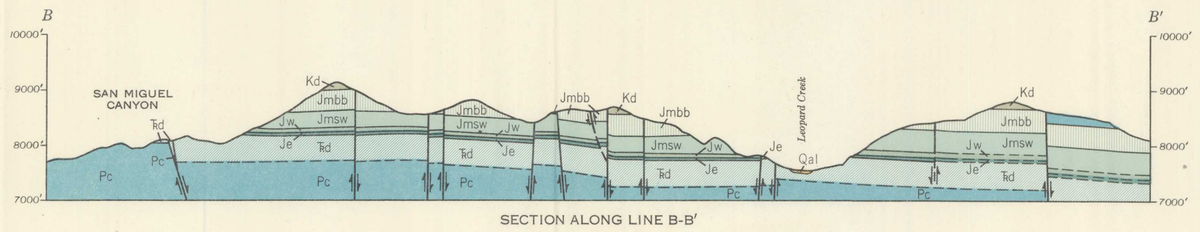
Base from U. S. Geological Survey
Placerville quadrangle map, 1953

Scale 1:24 000
1 ½ 0 1 Mile
Contour interval 40 feet
Datum is mean sea level

Geology mapped by A. L. Bush, C. S. Bromfield, C. T. Pierson, and W. F. Weeks in 1953-54. Part of the Black King fault zone mapped by V. R. Wilmarth, R. C. Vickers, and C. C. Hawley in 1951-52



SECTION ALONG LINE A-A'



SECTION ALONG LINE B-B'

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