UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 292 PLATE 2

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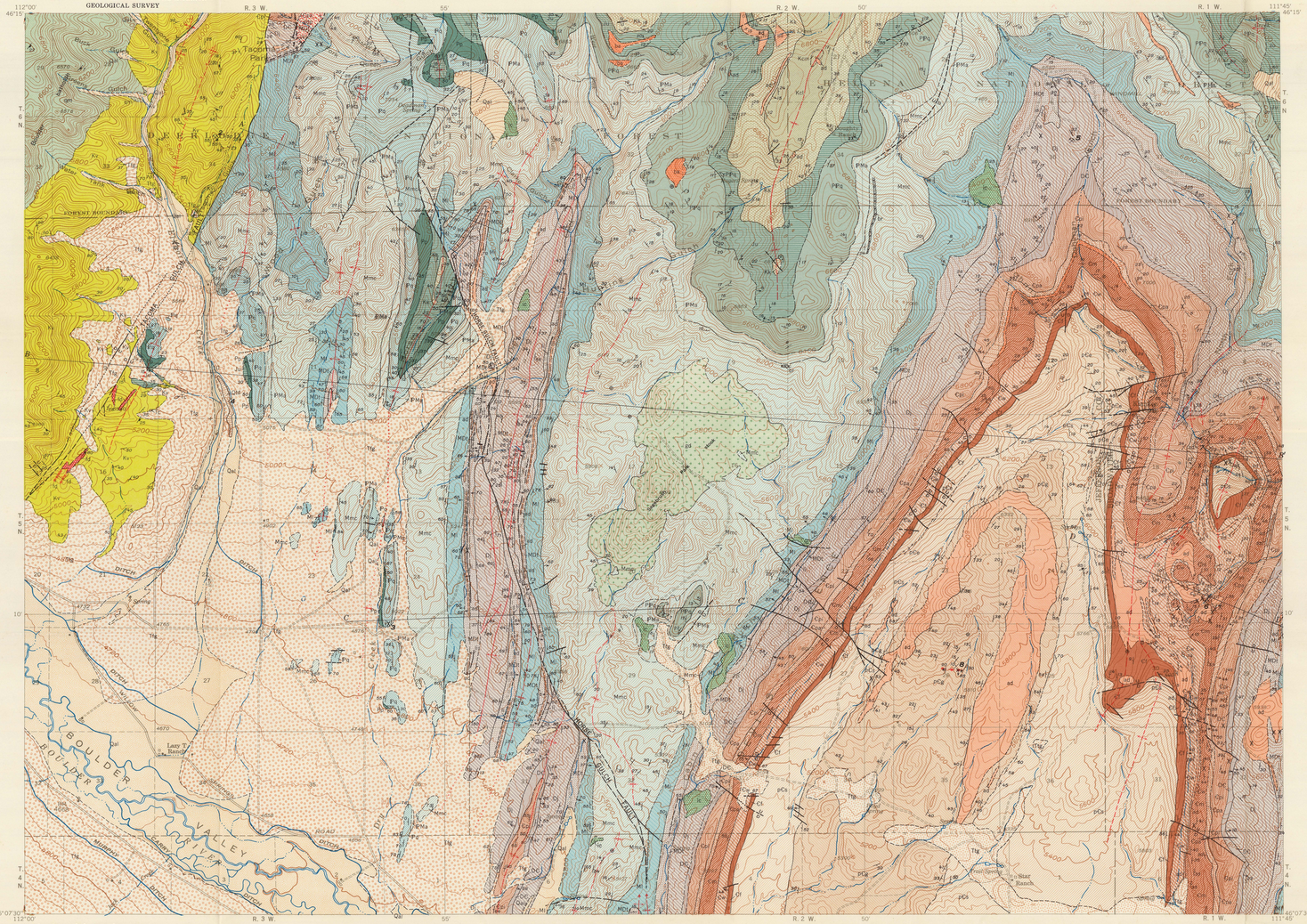


Base from U. S. Geological Survey map of Devils Fence quadrangle, Montana

E X P L A N A T I O N

INTRUSIVE ROCKS

YOUNGER INTRUSIVE ROCKS

Light-colored felsite dikes of uncertain age

Granodiorite and quartz diorite — *In Sagebrush Park stock*

Quartz monzonite and related rocks — *Light-gray to medium-gray biotite-hornblende quartz monzonite and granodiorite of the Boulder batholith; in places near the border of the batholith grades into a darker and generally somewhat finer grained facies*

Composite or hybrid intrusives — *Small plutons containing diverse and unusual rocks including olivine-rich and quartz-rich types*

Granodiorite porphyry — *Medium-gray granodiorite or quartz monzonite porphyry with conspicuous phenocrysts of plagioclase and euhedral to rounded quartz grains in an aphanitic groundmass; in part microbrecciated and seamed with cryptocrystalline silica*

Upper Cretaceous and Lower Tertiary(?) — CRETACEOUS AND TERTIARY(?)

OLDER INTRUSIVE ROCKS

Basalt and related rocks — *Dark-gray to greenish-black fine- to medium-grained rocks, mainly as sills*

Andesite porphyry, diorite porphyry, and related rocks — *Greenish-gray to dark-gray porphyritic rocks with phenocrysts of plagioclase and hornblende or augite; mainly as sills*

Hornblende lamprophyre — *Very fine grained gray rock with conspicuous hornblende phenocrysts*

Upper Cretaceous — CRETACEOUS

Contact, showing dip — *Dashed where approximately located; length of dashes indicates relative degree of accuracy; long dash most accurate*

Vertical contact

Overturned contact

Fault, showing dip — *Dashed where approximately located; length of dashes indicates relative degree of accuracy; long dash most accurate. Dotted where concealed, queried where doubtful. U, upthrown side; D, downthrown side*

Preintrusion fault — *Forming boundary along margin of intrusive body; dashed where approximately located*

Anticline — *Showing crestline and plunge of axis. Dashed where approximately located; length of dashes indicates relative degree of accuracy; long dash most accurate. Dotted where concealed; queried where doubtful*

Syncline — *Showing position of trough and plunge of axis. Dashed where approximately located; length of dashes indicates degree of accuracy; long dash most accurate. Dotted where concealed; queried where doubtful*

Overturned anticline

Strike and dip of beds

Strike of vertical beds

Horizontal beds

Strike and dip of cleavage

Strike and dip of joints

Vertical vein, approximately located

Vein, approximately located, showing dip

Vertical shaft

Adit

Prospect pit

Mine

LIST OF MINES IDENTIFIED BY NUMBER

1 Elkhorn Queen
2 Tacoma
3 Passover
4 Elkhorn Creek placer
5 Spar
6 Rothfus iron
7 Parker group (Silver Belle, Ned, Globe)
8 Kutledj

APPROXIMATE MEAN DECLINATION 1950

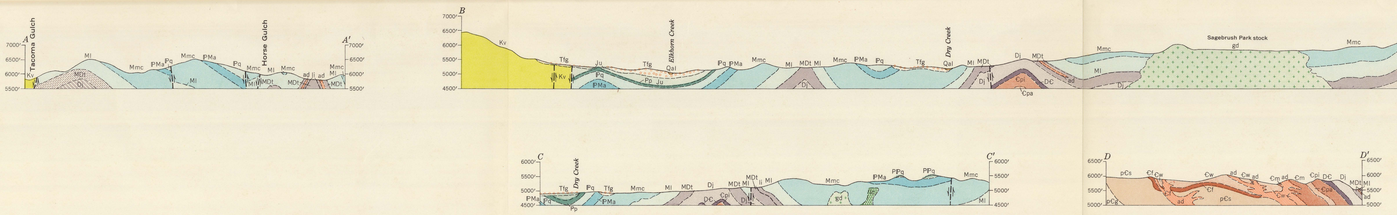
INDEX MAP

INDEX TO AREA MAPPED

PLATE 1 — R.A.W. — R.A.W. and M.R.K. — R.A.W. and V.L.F. — E.T.R. and M.R.K. — THIS PLATE — R.A.W. and M.R.K. — E.T.R. — M.R.K. — W.A.R. — PLATE 3 — E.T.R.

Persons principally responsible for mapped areas

INITIAL	NAME
M.R.K.	M. R. Klepper
R.A.W.	R. A. Weeks
E.T.R.	E. T. Ruppel
V.L.F.	V. L. Freeman
W.A.R.	W. A. Roberts



GEOLOGIC MAP AND SECTIONS, NORTH HALF OF DEVILS FENCE QUADRANGLE, MONTANA

Scale 1:31,250

1 0 2 Miles

Contour interval 40 feet
Datum is mean sea level

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