GEOLOGY OF THE TRINIDAD-AGUILAR AREA, LAS ANIMAS AND HUERFANO COUNTIES, COLORADO

Base map compiled from aerial photographs

Geology mapped by R. L. Harbour and G. H. Dixon

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.
MR 9259

EXPLANATION

SEDIMENTARY ROCKS

Qg — Quaternary gravel (Pleistocene(?); QUATERNARY)
Lime-cemented terrace gravel composed of angular fragments of sedimentary rocks

Tpc — Poison Canyon formation (Paleocene; TERTIARY)
Buff conglomeratic sandstone and yellow sandy shale

TKr — Raton formation (Upper Cretaceous and Paleocene; CRETACEOUS AND TERTIARY)
Gray and buff sandstone, gray shale, and coal, with conglomeratic sandstone at base

Kv — Vermejo formation (Upper Cretaceous; CRETACEOUS)
Gray and buff sandstone, gray shale, and coal

Kt — Trinidad sandstone
Gray and buff massive sandstone which forms prominent cliffs

Kpn, a — Pierre shale and Niobrara formation, undivided
Soft gray shale with concretions; thin beds of sandstone; "a" is locally mappable sandstone bed

Knf — Fort Hayes limestone member of the Niobrara formation
Gray limestone, thin beds of shale

Kc — Carlile shale
Dark blue-gray shale

IGNEOUS ROCKS

Tib — Intrusive rocks (TERTIARY)
Fine-grained, porphyritic, intermediate to basic igneous rocks in thin sills and dikes. Dashed where approximately located; dotted where concealed

Coal bed
Solid where more than 28 inches thick; dashed where 14 to 28 inches thick. Beds less than 14 inches thick not shown

Geologic contact
Dashed where approximately located

Strike and dip of beds

6500 — Structure contours
6400
Drawn on top of Trinidad sandstone. Dashed where approximately located. Contour interval 100 feet; datum is mean sea level

Operating coal mine

Abandoned coal mine

Coal prospect

Vertical shaft

Location of measured section

Triangulation point

×6814 Bench mark

Railroad
Dashed where abandoned

MP 205 Railroad milepost

Abandoned mine tramway

Paved road

Improved road

Unimproved road

APPROXIMATE MEAN DECLINATION, 1959

Scale 1:31 680

1 ½ 0 1 2 Miles