

LEGEND

CRETACEOUS

UPPER CRETACEOUS

BRAZEAU FORMATION: sandstone, shale, volcanic ash, a few thin coal seams

WARABI FORMATION

Black marine shale, sandstone, ironstone, chert pebble-conglomerate

Black marine shale, sandy shale, ironstone

BIGHORN FORMATION: quartzitic sandstone, black marine shale

BLACKSTONE FORMATION: chiefly black marine shale, grey quartzitic sandstone, sandy shale

LOWER CRETACEOUS

MOUNTAIN PARK FORMATION: olive green and brown weathering grey sandy shale and sandstone

LUSCAR FORMATION: black and grey carbonaceous shale, grey sandstone, coal seams

CADOMIN FORMATION: chert and quartzite pebble-conglomerate

NIKANASSIN (KOOTENAY) FORMATION: alternating black shale and grey sandstone, a few thin coal seams

JURASSIC

FERNIE FORMATION: alternating sandstone and sandy shale, ferruginous limestone, black fissile shale, phosphatic limestone

TRIASSIC

JUPRA RIVER FORMATION: thin-bedded, fine-grained arenaceous shale and quartzite, buff and red-weathering limestone

DEVONIAN AND CARBONIFEROUS (NOT SUBDIVIDED)

Limestone, shale, quartzite

Geological boundary.....

Bedding (inclined, overturned).....

Fault.....

Anticlinal axis.....

Synclinal axis.....

Coal prospect.....

Coal seam and projected coal horizon.....

Note. Structure sections along lines A-B, C-D, and E-F, are shown on accompanying sheet.

Township boundary, unsurveyed.....

Trail.....

Marsh.....

Surveys and topography by the Topographical Survey, Bureau of Geology and Topography, 1921, 1924, 1926, and 1939.

Drawn by the Topographical Survey.

Geology by B. R. MacKay, 1927, 1938.

A detailed geological map of the Grave Flats area in Alberta, Canada. The map shows various geological formations with different patterns and colors, including the Brazeau, Warabi, Bighorn, Blackstone, Mountain Park, Luscar, Cadomin, Nikanassin, Fernie, and Jupra River formations. Topographic features like rivers (Pembina, Cardinal, Brazeau, Ruby, Thistle), creeks (Grave, Flapjack), and lakes (Muskiki, Flapjack) are also shown. The map includes a grid with township (Tp. 43, 44, 45, 46) and range (R. 19, 20, 21) coordinates. A legend on the left explains the symbols for geological boundaries, bedding, faults, and other features. The map is titled 'GRAVE FLATS' and 'WEST OF FIFTH MERIDIAN, ALBERTA'.

PRELIMINARY MAP 40-15

GRAVE FLATS

WEST OF FIFTH MERIDIAN

ALBERTA

1940

Scale of miles

Approximate magnetic declination 36° East

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