



LEGEND

- TECTONIC**
- PALEOCENE**
- 18 Sandstone, shale, minor conglomerate and coal seams (non-marine) (appears on Sheet 2 only)
- LATE UPPER CRETACEOUS AND TERTIARY**
- 17 Paleocene and Brazeau Formation undivided: sandstone, shale, conglomerate, coal seams (non-marine)
- LATE UPPER CRETACEOUS**
- 16 BRAZEAU FORMATION: sandstone, shale, conglomerate; minor coal seams and ash beds; (non-marine) (appears on Sheet 2 only)
- UPPER CRETACEOUS**
- 15 WAPIABI FORMATION: shale, sandy shale; minor sandstone and ironstone; (marine)
- 14 CARDIUM FORMATION: sandstone, conglomerate, shale; 14a, includes Bad Heart and Muskiki formations (marine and non-marine)
- 13 KASKAPAU FORMATION: shale, sandy shale; minor ironstone and sandstone (marine)
- 12 DUNVEGAN FORMATION: sandstone, sandy shale (marine and non-marine)
- LOWER CRETACEOUS**
- 11 PORT ST. JOHN GROUP
Shale, silty shale, minor sandstone (marine)
- 10 LUSCAR FORMATION: sandstone, shale, carbonaceous shale, conglomerate, coal seams (non-marine and brackish-water)
- 9 CADOMIN FORMATION: conglomerate, minor sandstone (non-marine)
- LOWER CRETACEOUS AND UPPER JURASSIC**
- 8 NIKANASSIN FORMATION: sandstone, sandy shale, carbonaceous shale, coal veinlets (marine and non-marine)
- JURASSIC**
- 7 FERNIE GROUP
Shale, siltstone, sandstone, minor ironstone and black limestone (marine)
- TRIASSIC**
- 6 WHITEHORSE FORMATION: limestone, sandy limestone, sandy dolomite, argillaceous limestone and dolomite (marine)
SULPHUR MOUNTAIN FORMATION: shale, siltstone, sandstone; minor dolomite and calcareous sandstone; a few thin dolomite beds (marine)
- LATE PALAEOZOIC**
- 5 ROCKY MOUNTAIN FORMATION: sandstone, chert, minor dolomite; phosphatic conglomerate (marine)
- MISSISSIPPIAN**
- 4 RUNDLE GROUP
Limestone and dolomite; minor calcareous shale and small chert masses (marine)
- 3 BANFF FORMATION: limestone, argillaceous limestone, calcareous shale; black shale unit at base (marine)
- DEVONIAN**
- 2 Undivided: limestone, dolomite, argillaceous limestone, calcareous shale, sandy dolomite; minor small chert masses (marine)
- CAMBRIAN (?)**
- 1 Sandstone, conglomerate (marine)

Bedding (inclined, vertical, overturned)
Fault (defined, approximate, assumed)
Anticline (arrow indicates plunge)
Syncline (arrow indicates plunge)
Fossil locality
Coal outcrop

Compiled by E. J. W. Irish from published geological maps by J. K. Eccles, E. J. W. Irish, A. H. Lang, and R. Thorsteinsson, 1943-1962

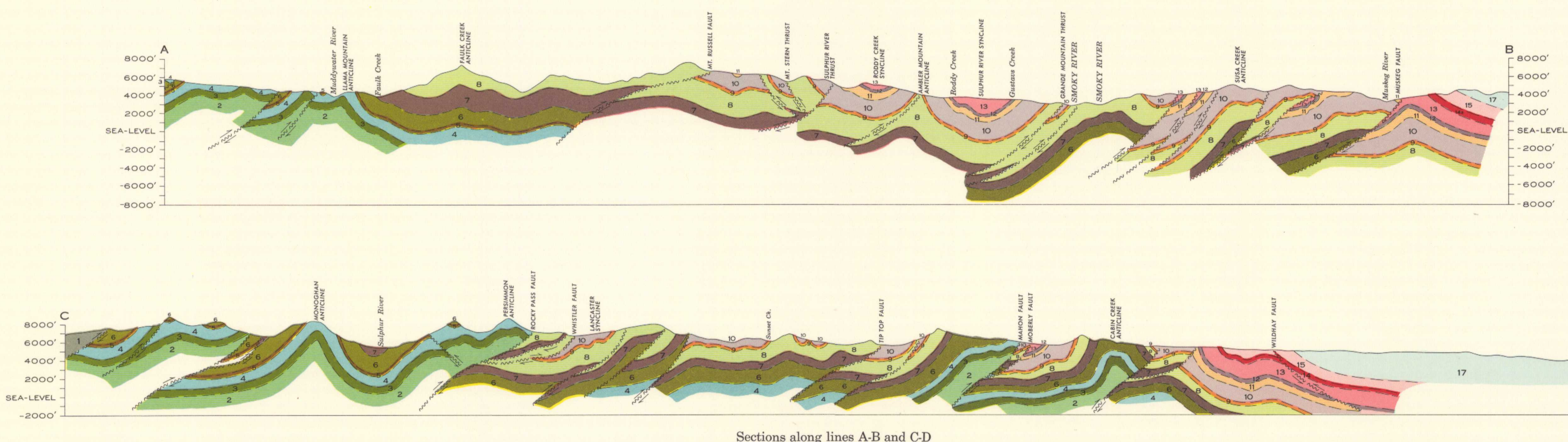
To accompany G. S. C. Memoir 334 by E. J. W. Irish

Road, all weather
Other roads
Trail or portage
Horizontal control point
Township boundary (surveyed, unsurveyed)
Forest reserve boundary
Intermittent stream
Falls or rapids
Marsh
Contours (interval 200 feet)
Depression contour
Height in feet above mean sea-level

Cartography by the Geological Survey of Canada, 1964

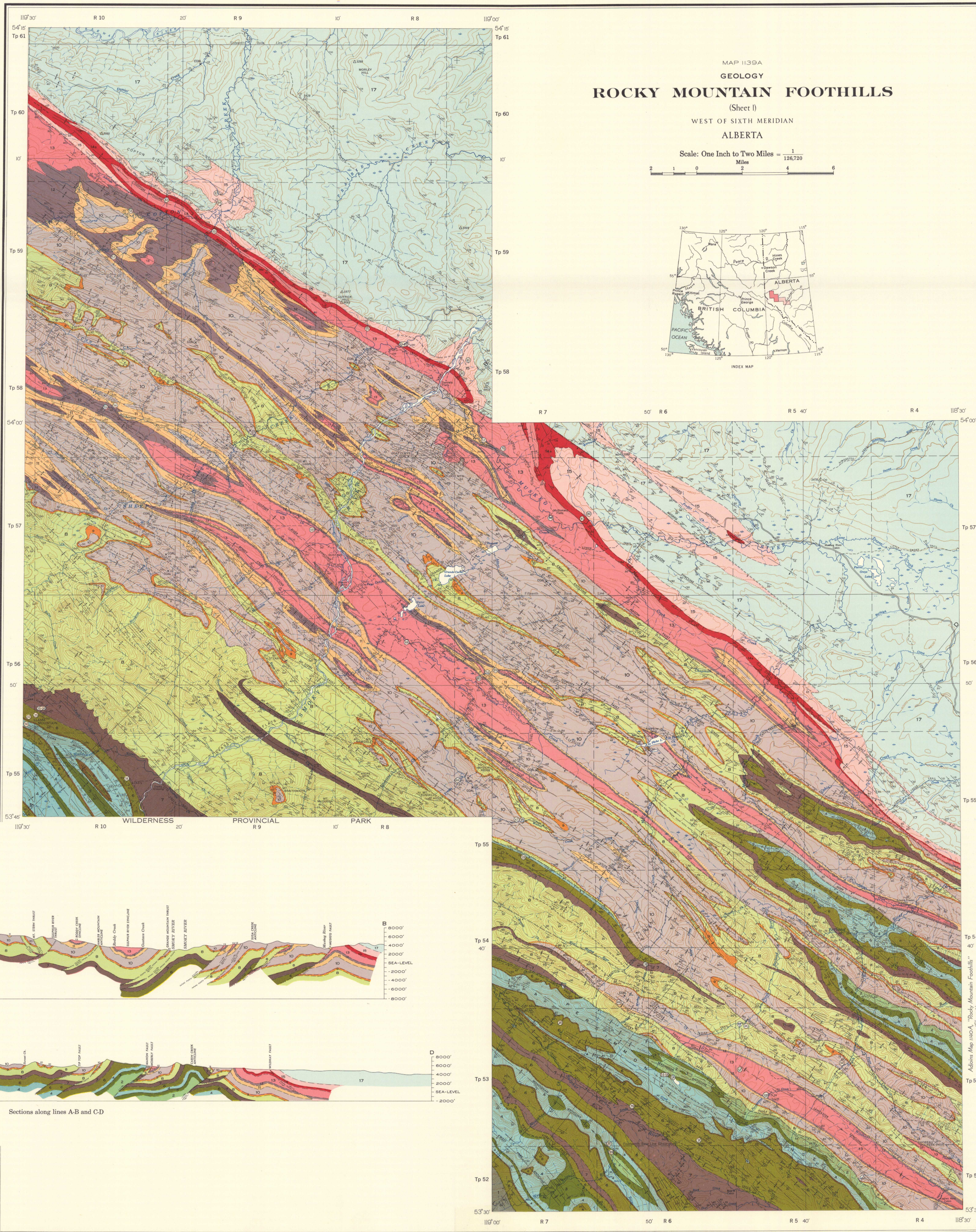
Base-map compiled from published maps of the Surveys and Mapping Branch

Mean magnetic declination, 25° 31' East, decreasing 3.8' annually.
Readings vary from 25° 04' E in the S E corner to 25° 04' E in the N W corner of the map-area



MAP 1139A
GEOLOGY
ROCKY MOUNTAIN FOOTHILLS
(Sheet 1)
WEST OF SIXTH MERIDIAN
ALBERTA

Scale: One Inch to Two Miles = $\frac{1}{126,720}$
Miles 2 1 0 2 4 6



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