

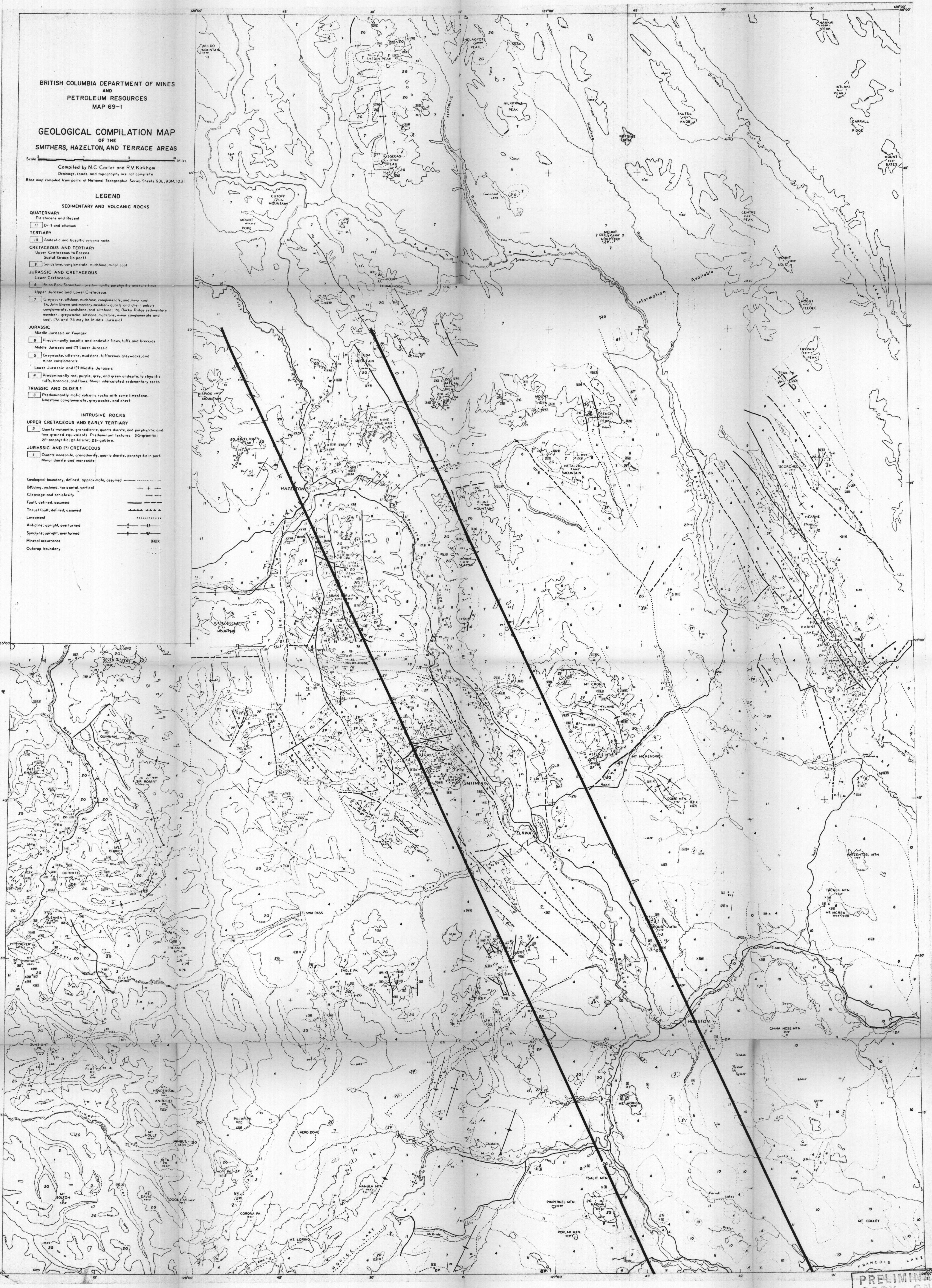
BRITISH COLUMBIA DEPARTMENT OF MINES
AND
PETROLEUM RESOURCES
MAP 69-1

GEOLOGICAL COMPILATION MAP
OF THE
SMITHERS, HAZELTON, AND TERRACE AREAS

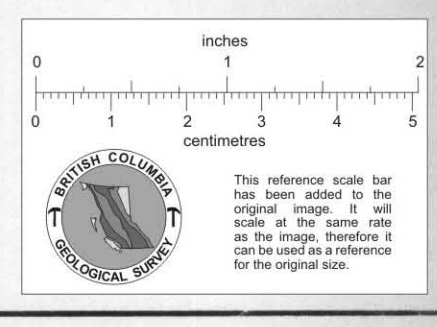
Scale 1:50,000
Compiled by N.C. Carter and R.V. Kirkham
Drainage, roads, and topography are not complete
Base map compiled from parts of National Topographic Series Sheets 93L, 93M, 103J

LEGEND

- SEDIMENTARY AND VOLCANIC ROCKS**
- QUATERNARY**
Depositional and Recent
[1] Drift and alluvium
- TERTIARY**
[10] Andesitic and basaltic volcanic rocks
- CRETACEOUS AND TERTIARY**
Upper Cretaceous to Eocene
Sault Group (in part)
[9] Sandstone, conglomerate, mudstone, minor coal
- JURASSIC AND CRETACEOUS**
Lower Cretaceous
[8] Brown Sand Formation - predominantly paragneiss and gneiss
Upper Jurassic and Lower Cretaceous
[7] Greywacke, siltstone, mudstone, conglomerate, and minor coal
7A. John Brown sedimentary member - quartz and chert pebble conglomerate, sandstone, and siltstone. 7B. Steep Ridge sedimentary member - greywacke, siltstone, mudstone, minor conglomerate and coal. 7A and 7B may be Middle Jurassic
- JURASSIC**
Middle Jurassic or Younger
[6] Predominantly basaltic and andesitic flows, tuffs and breccias
Middle Jurassic and (?) Lower Jurassic
[5] Greywacke, siltstone, mudstone, full-faceted greywacke, and minor conglomerate
Lower Jurassic and (?) Middle Jurassic
[4] Predominantly red, purple, grey, and green andesite to rhyolitic tuffs, breccias, and flows. Minor intercalated sedimentary rocks
- TRIASSIC AND OLDER**
[3] Predominantly mafic volcanic rocks with some limestone, limestone conglomerate, greywacke, and chert
- INTRUSIVE ROCKS**
UPPER CRETACEOUS AND EARLY TERTIARY
[2] Quartz monzonite, granodiorite, quartz diorite, and porphyritic and fine grained equivalents. Predominant features: ZG gneissic, gneissophytic, gneissoid, ZB gabbro
JURASSIC AND (?) CRETACEOUS
[1] Quartz monzonite, granodiorite, quartz diorite, porphyritic in part. Minor diorite and monzonite
- Geological boundary, defined, approximate, assumed
Banding, inclined, horizontal, vertical
Cleavage and schistosity
Fault, defined, assumed
Thrust fault, defined, assumed
Lineament
Anticline, upright, overturned
Syncline, upright, overturned
Mineral occurrence
Outcrop boundary



PRELIMINARY
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| DATE REVISED | BY | DEPT - EXPLORATION |
| | | DRAWN BY |
| | | CHECKED |
| | | APPROVED |
| | | DATE - JULY, 1972 |
| | | SCALE - 1" = 4 miles |



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| TITLE - COPPER BELT PROJECT (SMITHERS) REGIONAL GEOLOGY | |
| FILE NUMBER - | DRAWING NUMBER - |
| N.T.S. 93L & 93M | S-3 |