MINES AND TECHNICAL SURVEYS

GEOLOGICAL SURVEY OF CANADA

SHEET 82 F/9

LEGEND

MESOZOIC OR(?) CENOZOIC

9. Granite, granodiorite
10. Granite, pegmatite

PALÆOZOIC

CAMBRIAN

LOWER CAMBRIAN

8 — EAGER FORMATION: dark argillite, grey argillite; brown weathering limy sandstone and sandy limestone

CRANBROOK FORMATION: siliceous quartzite, grit, and conglomerate

PROTEROZOIC

PURCELL

UPPER PURCELL(?)

6 — DUTCH CREEK FORMATION(?): laminated black argillite, green argillite; quartzite

LOWER PURCELL

5 — KITCHENER-SIYEH FORMATION: varicoloured dolomitic argillites, buff weathering dolomite

4 — CRESTON FORMATION: green and grey weathering, green, grey, and purplish argillaceous quartzite, quartzite, and argillite
4A. Grey weathering, grey and grey-green argillite

ALDRIDGE FORMATION (1-3)

3 — Upper Division: rusty weathering laminated argillite and argillaceous quartzite

2 — Middle Division: grey weathering, massive grey quartzite and argillaceous quartzite, with argillite partings; brown weathering, argillaceous quartzite and argillite

1 — Lower Division: rusty weathering grey quartzite, argillaceous quartzite, and argillite; grey weathering massive quartzite; mica schist

A — Dioritic sills and dykes (Proterozoic ?)

Heavily drift-covered area
Bedding (horizontal, inclined, vertical, overturned)
Bedding (direction of dip known, upper side of bed unknown)
Fissility (inclined, vertical)
Fault (defined, approximate, assumed)
Glacial striæ (bearing and direction of movement known)
Glacial striæ (bearing known, direction of movement not known)
Fossil locality
Sink-hole
Placer deposit
Mineral prospect
Adit, shaft

Geology by G. B. Leech, 1950, 1951

Road and building
Other road
Trail
Triangulation station
Sand
Intermittent stream
Marsh
Contour (interval 500 feet)
Height in feet above mean sea-level ... 3217

Base-map surveyed by the Army Survey Establishment R. C. E. 1949-1951.

Approximate magnetic declination, 22° 30′ East

INDEX MAP

PUBLISHED, 1952

PRELIMINARY MAP 52-15A

ST. MARY LAKE

KOOTENAY DISTRICT

BRITISH COLUMBIA

Scale: $\frac{1}{40,000}$

Miles

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