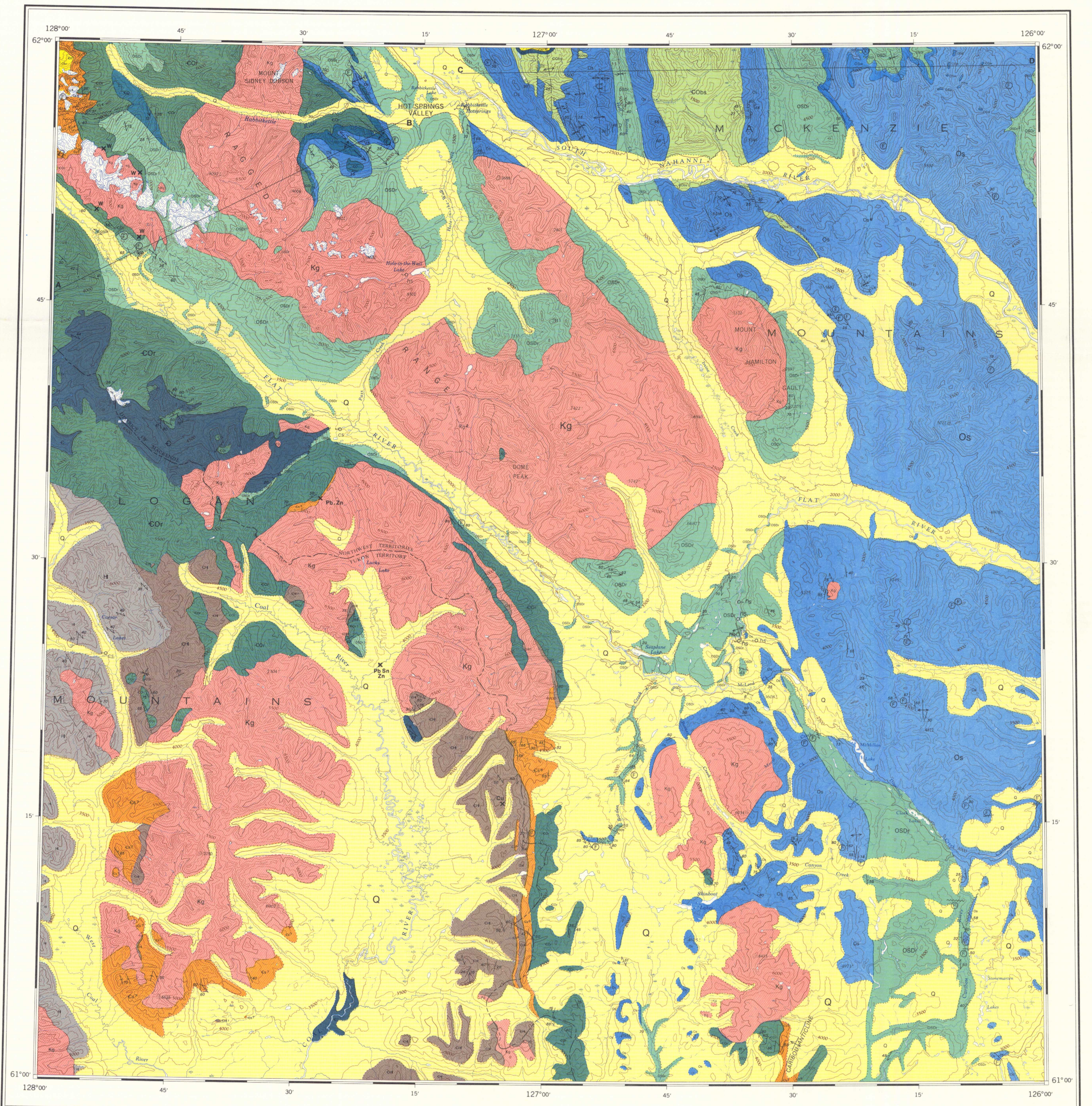
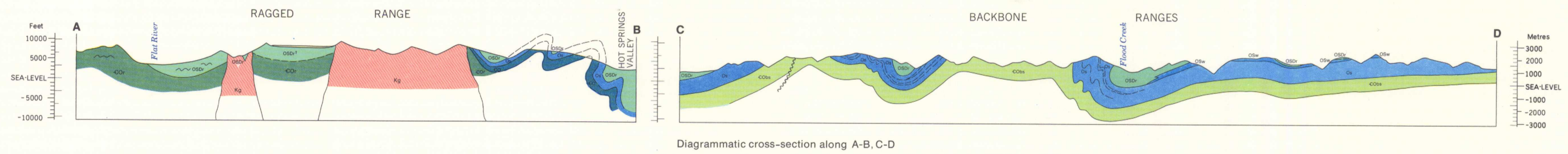




CENOZOIC	PLEISTOCENE AND RECENT	Q	Unconsolidated glacial and alluvial deposits
	CRETACEOUS (?)	Kg	Quartz monzonite, granodiorite; minor granite and diorite; 1, hornblende diorite; 2, rusty weathering granodiorite
MESOZOIC	DEVONIAN AND MISSISSIPPIAN (?)	DM	Black, pyritic shale; green, grey and maroon siltstone and sandstone; thin-bedded, black, argillaceous limestone
	DEVONIAN		
PALEOZOIC	MIDDLE DEVONIAN, GIVETIAN	Dn	NAHANNI FORMATION: resistant, fine- to medium-grained light grey weathering limestone
		Dh	HEADLESS FORMATION: buff-brown, argillaceous, platy limestone; minor shale; highly fossiliferous; commonly recessive
PALEOZOIC	MIDDLE DEVONIAN, EIFELIAN AND GIVETIAN (?)	DI	LANDRY FORMATION: cryptograin to medium-grained grey limestone, commonly forms banded outcrops; 1, undivided DI and Dh
	MIDDLE DEVONIAN, EIFELIAN	Dm	MANETOE FORMATION: cream and light grey, coarse-grained, cavernous dolomite; cryptograin limestone
PALEOZOIC		Dna	NATLA FORMATION: thin-bedded sooty limestone; light grey crinoidal limestone; 1, light grey crinoidal limestone, black, recessive, platy limestone; 2, includes DI and Dh
		Df	FUNERAL FORMATION: buff weathering argillaceous limestone, brown and black shale; 1, includes Dh
PALEOZOIC		Dgb	GRIZZLY BEAR FORMATION: massive, light grey limestone and dolomite
		Da	ARNICA FORMATION: medium to dark grey, banded dolomite; dolomite breccia; 1, undivided Ds and Da 2, BEAR ROCK FORMATION: massive, cavernous, light grey limestone and dolomite breccia
PALEOZOIC	LOWER DEVONIAN	Ds	SOMBRE FORMATION: light and medium grey, banded dolomite; silver-grey dolomite; 1, dark grey dolomite; 2, undivided Dc, Ds, Da
		Dc	CAMSELL FORMATION: interbedded grey and buff weathering dolomite and limestone; buff limestone breccia
PALEOZOIC	SILURIAN AND DEVONIAN		
	UPPER SILURIAN AND LOWER DEVONIAN	SDd	DELORE FORMATION: buff, grey and cinnamon weathering dolomite and limestone; locally includes limestone breccia in upper part probably correlative with part of Camsell Formation; 1, includes (?) Dc
PALEOZOIC	ORDOVICIAN, SILURIAN AND LOWER DEVONIAN	OSDr	ROAD RIVER FORMATION: black, pyritic shale, locally phyllitic; thin-bedded, black, argillaceous limestone; pale olive-green, shaly limestone, grey and black chert; calcareous siltstone, black cherty dolomite; locally includes strata of Middle Devonian to Mississippian (?) age; 1, hornfels; 2, probably includes minor OSw
	ORDOVICIAN AND SILURIAN		
PALEOZOIC	UPPER ORDOVICIAN AND SILURIAN	OSw	WHITTAKER FORMATION: dark grey, cherty dolomite; light grey limestone commonly basal; 1, cherty black dolomite and limestone; 2, dolomite, in part massive and reefoid
	MIDDLE ORDOVICIAN	Os	SUNBLOOD FORMATION: dark and light grey dolomite; pink, mottled limestone; orange-brown sandstone; 1, vesicular, mafic flow or flows; 2, dolomite and limestone, may include some COBs; 3, grey dolomite; 4, buff, cream, grey dolomite and limestone; 5, undivided COBs and Os; 6, may include OSw
PALEOZOIC	CAMBRIAN AND ORDOVICIAN		
	UPPER CAMBRIAN AND LOWER ORDOVICIAN	CO	Argillaceous limestone; calcareous shale; 1, undivided CO and Os
PALEOZOIC		COs	RABBITKETTLE FORMATION: wavy banded, silty limestone; platy impure limestone; siltstone; limestone
		CObs	BROKEN SKULL FORMATION: grey, buff, orange and yellow weathering dolomite and limestone, lower part variably sandy and silty; 1, basal silver-grey sandstone and sandy dolomite overlain by orange-buff weathering dolomite; 2, grey dolomite and limestone, includes Os; 3, well bedded, rhythmically bedded, grey and buff-orange dolomite; 4, buff-orange dolomite, locally sandy, locally includes limestone and varicoloured shale, age uncertain
PALEOZOIC	MIDDLE CAMBRIAN	Ca	AVALANCHE FORMATION: buff, yellow, and orange weathering; cryptograin dolomite, silty dolomite, dolomite siltstone, dolomitic mudstone
		Cr	ROCKSLIDE FORMATION: black to orange-buff weathering; dark grey, sooty argillaceous limestone and calcareous siltstone; shale; minor sandstone, dolomite
PALEOZOIC	LOWER CAMBRIAN	C	Dark grey-brown to black calcareous argillite, slate, shale, locally pyritic; minor argillaceous limestone
		Cs	SEKWI FORMATION: undivided; 1, limestone, calcareous siltstone; 2, sandstone, sandy and silty dolomite, dolomite, argillite, minor quartzite and impure limestone; 3, mafic volcanics, agglomerate, tuff, vesicular volcanic rocks, green and maroon weathering; chlorite schist; 4, BRINTNELL MEMBER; bright yellow and orange weathering silty and sandy dolomite; grey limestone; 5, silty and sandy dolomite; minor sandstone and shale; 6, limestone and dolomite; 7, cherty calc-silicate rocks
PALEOZOIC		Cbr	BACKBONE RANGES FORMATION: undivided; 1, white, brown, pink and purple sandstone and quartzite, siltstone, slate, calcareous sandstone, slate; minor silty and sandy dolomite; 2, cryptograin, mottled, mauve, pink, banded limestone and dolomite, locally silty and sandy; minor quartzitic sandstone and brick red to purple shale; 3, pink, purple, grey and brown sandstone; siltstone; pebble conglomerate
	CAMBRIAN AND (?) HADRYNIAN	CH	Phyllite Unit: phyllite, slate, fine-grained quartzite, siltstone, argillite
PALEOZOIC	HADRYNIAN	H	'Grit Unit': dark shale and slate, gritty quartzite, calcarenite, quartz-pebble conglomerate; sandstone; maroon, green and buff shale and slate; minor limestone and phyllite; 1, rusty aureole of hornfels and slightly metamorphosed unit H
		Hs	SHEEPBED FORMATION: recessive dark grey shale and siltstone; 1, orange and orange-brown weathering shale, argillaceous siltstone and sandstone
PALEOZOIC		Hk	KEELE FORMATION: orange weathering, dolomitic sandstone; sandy dolomite; dolomite; 1, mafic flow east-southeast of Grizzly Bear Lake
		Hr	RAPITAN GROUP: mudstone, green and buff-brown siltstone; conglomeratic mudstone; conglomerate; sandstone; shale, undivided; 1, maroon weathering siltstone, slate, conglomerate, iron-formation; 2, brown-orange, buff and grey-brown weathering conglomeratic mudstone; 3, grey and green-grey weathering sandstone, siltstone and shale
PALEOZOIC	HELIKIAN (?)	Hc	COPPERCAP FORMATION: buff weathering silty limestone and calcareous siltstone; dark grey feld limestone; black, buff, grey calcareous slate; minor limestone conglomerate
		Hrr	REDSTONE RIVER FORMATION: pink silty siltstone and minor shale; gypsum; gypsiferous siltstone; 1, blocky, medium-grained gabbro
PALEOZOIC		Hidu	LITTLE DAL FORMATION, UPPER MEMBER: buff, grey locally stromatolitic dolomite, orange and buff-orange weathering, locally sandy and cherty; minor laminated buff and orange weathering siltstone; conglomerate, slate; 1, sandstone, basalt
		Hidl	LITTLE DAL FORMATION, LOWER MEMBER: well-bedded, grey, stromatolitic limestone, locally oolitic; light grey dolomite, in part cherty; minor slate; may locally include Hidu; 1, mafic sill and flows; 2, hornblende diorite; 3, platy, grey-brown weathering limestone, correlation uncertain
PALEOZOIC		Ht	TIGONANKWEINE FORMATION: white, pink, purple quartzite; grey green, purple slate; minor brown weathering dolomite; 1, pink, purple, and white quartzite; 2, orange-brown weathering dolomite, siltstone, and shale
		Hts	TSEZOTENE FORMATION: grey, olive-green, purple shale, slate, phyllitic slate, quartzite; interbeds of orange-buff dolomite



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MAP 1313A
GEOLOGY
FLAT RIVER
DISTRICT OF MACKENZIE - YUKON TERRITORY

Scale 1:250,000

Miles 4 0 4 8 12
Kilometres 6 0 6 12 18

Universal Transverse Mercator Projection
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Magnetic declination 1972 varies from 33°21' easterly at centre of west edge to 33°26' easterly at centre of east edge. Mean annual change decreasing 4.8

Elevations in feet above mean sea-level

Names in quotation marks are in local use but are subject to revision

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

MINERALS

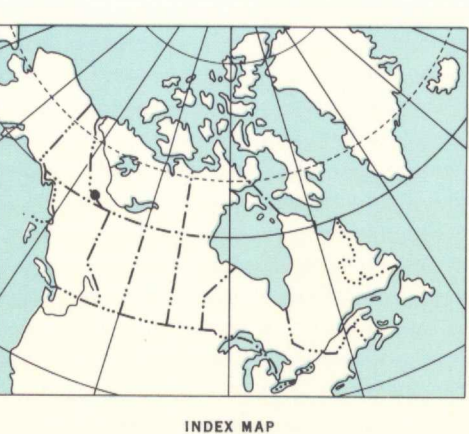
Copper	Cu
Lead	Pb
Tin	Sn
Tungsten	W
Zinc	Zn

Geology by H. Gabrielse, J.A. Roddick, and S.L. Blusson, 1963; H. Gabrielse, S.L. Blusson, 1965-66

To accompany Memoir 366 by H. Gabrielse, J.A. Roddick and S.L. Blusson

Geological cartography by the Geological Survey of Canada

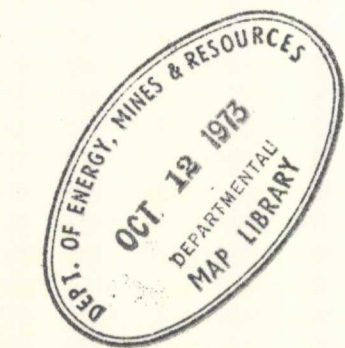
Base-map at the same scale published by the Army Survey Establishment, R.C.E. 1958-60



105P	95M	95N
1333A	1315A	44-1962
105-7	95A	95K
8-1967	1314A	23-1961
105H	95E	95F
8-1966	1313A	22-1960

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADDITIONAL GEOLOGICAL SURVEY OF CANADA MAPS

MAP 1313A
FLAT RIVER
DISTRICT OF MACKENZIE - YUKON TERRITORY



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