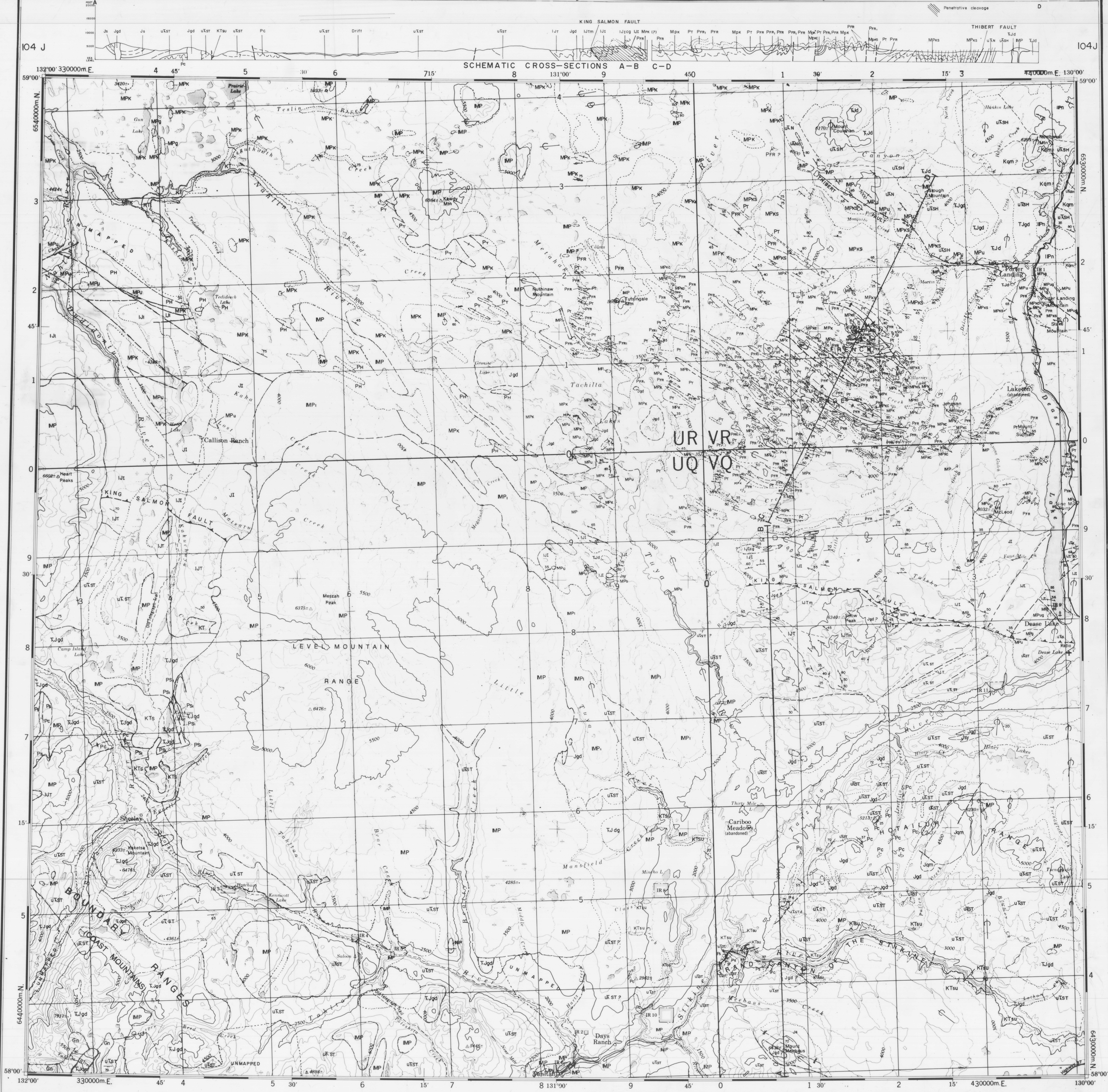


LEGEND: DEASE LAKE (104J) MAP-AREA

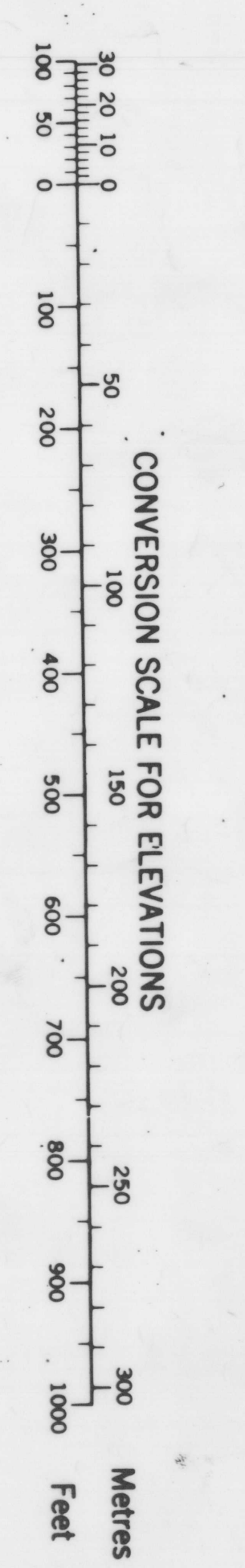
- PLEISTOCENE AND RECENT**
 Glacial and glacio-fluvial deposits, stream deposits, tephemmer, talus, soil
- MIOCENE TO PLEISTOCENE AND(?) RECENT**
 Alkali olivine basalt; minor trachyte and rhyolite; MP may include considerable areas of underlying Mesozoic and minor Paleozoic rocks
- CRETACEOUS TO PALEOGENE AND(?) LATER**
 UPPER CRETACEOUS TO PALEOGENE AND(?) LATER
 Non-marine sandstone, siltstone, conglomerate, and tuff; contains coalified wood and local coal seams; KTau - SOUTHWEST GROUP
 SLOKO GROUP: rhyolite, dacite and trachyte flows, dykes, breccia
- CRETACEOUS**
 MID TO LATE CRETACEOUS
 Biotite quartz monzonite, medium to coarse grained
- JURASSIC**
 MID TO LATE JURASSIC (?)
 Biotite and biotite hornblende granodiorite, monzoniorite, diorite, gneiss, megacrystic hornblende-biotite quartz monzonite; Jy, syenite, syenite porphyry
- JURASSIC, UNDIVIDED**
 Js Greywacke, shale; pebble conglomerate with granitic clasts
- LOWER JURASSIC**
 TANKWASH FORMATION: greywacke, shale, minor pebble conglomerate; UJm, hornfelsed equivalents of UJ and including abundant stiltite and dykes of quartz-feldspar porphyry
 UJl INKILIN FORMATION: penetratively foliated phyllitic slate, greywacke, pebble and cobble conglomerate UJc, diantictite
- TRIASSIC AND JURASSIC**
 LATE TRIASSIC AND EARLY JURASSIC
 Biotite-hornblende quartz diorite, granodiorite, quartz monzonite, diorite, Jd, hornblende diorite, Tjdg, diorite and gabbro, Kky, magnetite and apatite grading through pyroxene-syenite apatite and pyroxene syenite to a core of altered leucocratic syenite; Tjgm, quartz monzonite
- UPPER TRIASSIC**
 SINKA FORMATION: limestone, commonly argillaceous and feld
 UTS SHOROKTAN FORMATION: augite andesite
 UTSN NAZORA FORMATION: volcanic sandstone, argillite tuff, conglomerate; UTSNc limestone
 UTSR STORINI FORMATION: augite and coarse bladed plagioclase porphyry, breccia and flow; tuff, volcanic sandstone and conglomerate; minor siltstone, greywacke, shale; UTSRd diabase
 UTSK 'RITCHIE FORMATION': dacitic breccia, tuff, foliated quartz porphyry, conglomerate, may include Cache Creek Group
- PERMIAN (South of Atlin Terrane)**
 Pc pale grey and orange cherty limestone; argillaceous limestone
 Pa grey and green phyllite, grey ribbon chert
 Pb biotite-chlorite schist, age uncertain
- PERMIAN**
 CACHE CREEK GROUP (includes Pt, Ph, PFR, MPK, MPu)
- PT/PH** PT, TESLIN FORMATION; PH, HOSSEFERD FORMATION: limestone, dolomitic limestone
PFR FRENCH RANCH FORMATION: altered basic volcanic flow rocks (PFR), lithic tuff, agglomerate cherty tuff and metamorphosed equivalents
- MISSISSIPPIAN TO PERMIAN**
 MPK KEMABA FORMATION: cherty argillite, argillaceous chert, locally argillitic, metamorphosed equivalents chert and argillite; very minor volcanic rocks and metamorphosed equivalents (MPK); limestone (MPK); same as MPK but includes greywacke and local conglomerate similar to that in the Inkilin Formation
 MPu Serpentinite, peridotite, pyroxenite; MAg, gabbro; MAg, undivided
- METAMORPHIC ROCKS**
 Gm Diorite gneiss, amphibolite, migmatite; age uncertain
 IPh Biotite-muscovite quartz gneiss and schist; minor crystalline limestone, quartzite; probably metamorphosed lower Paleozoic strata

- SYMBOLS**
- Geological boundary, defined, approximate and assumed
 - Drift boundary
 - Limit of geological mapping
 - Fault solid circle on downthrow side
 - Fault, thrust, teeth on upthrust side
 - Bedding, inclined, vertical
 - Bedding, direction of dip known, upper side of bed unknown
 - Schistosity, gneissosity, inclined vertical
 - Syncline
 - Anticline
 - Glacial striae

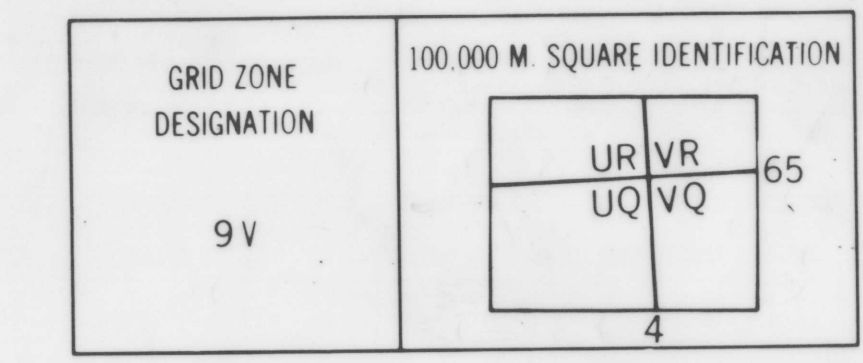
GEOLOGY BY
 H. Gabrielse, J.W.H. Monger, S.L. Leaning, R.G. Anderson, and H.W. Tipper on "Operation Dease", 1977 and 1979; H. Gabrielse 1961 and 1967; G.C. Southern, 1961; J.W.H. Monger, 1965; H. Gabrielse, J.C. Southern and E.J. Boers on "Operation Stikine", 1956 and 1958. Includes information from Hotsulish Range by G.W. Dowling and S.H. Leitch, Falconbridge Nickel Mines Ltd., from the Grand Canyon of the Stikine River by F.B. Read, from the Level Mountain area by I.S. Hamilton and on the distribution of several plutons by G.W. Mamard. Compiled by H. Gabrielse



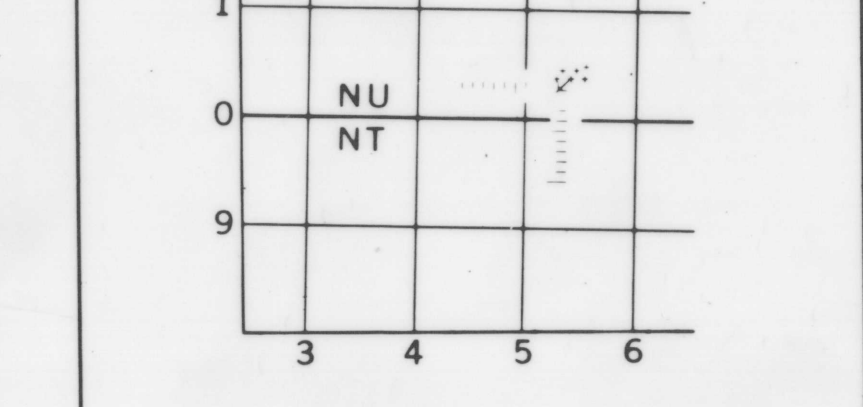
Military users refer to this map as: **SERIES A502 SERIE MAP 104J CARTE**
 Edition 2 MCE EDITION



TEN THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID ZONE 9



EXAMPLE OF METHOD USED TO GIVE A REFERENCE TO NEAREST 1000 METRES. THE FOLLOWING REFERENCE IS A SIMPLE ONLY AND DOES NOT REFER TO A POINT ON THIS MAP.



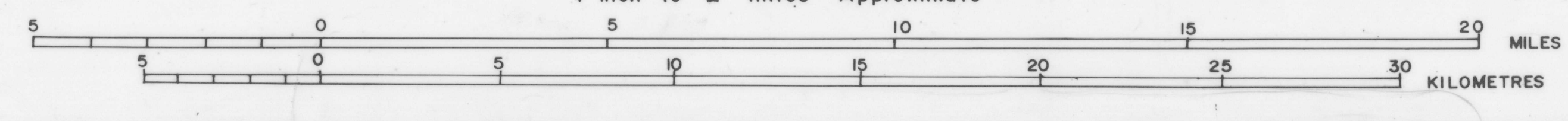
REFERENCE POINT	ROCKS (as above)
SQUARE: Read letters of 100,000 m square NU	
EASTING: Read number on grid line immediately to left of point	5
NORTHING: Read number on grid line immediately below point	4
Estimate tenths of a square from this line eastward to point	0.4
Estimate tenths of a square from this line northward to point	0.4

EXAMPLE MILITARY GRID REFERENCE NU5404
 If reporting beyond 15° in any direction, prefix Grid Zone Designation as 15NVU5404

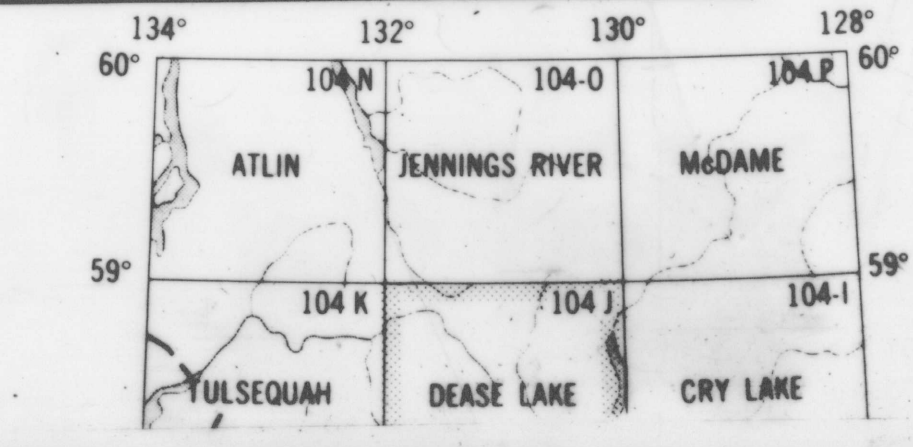
RELIABILITY DIAGRAM - CROQUIS D'EXACTITUDE

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 Magnetic declination 1969 varies from 29'22" easterly at centre of west edge to 29'26" easterly at centre of east edge. Mean annual change 4.3" westerly.
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DEASE LAKE
 CASSIAR DISTRICT, BRITISH COLUMBIA
 SCALE 1:125,000
 1" inch to 2 miles Approximate



Établi en 1969, par la DIRECTION DES LÉVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES. Imprimé en 1971.
 « Le déclin magnétique pour 1969 varie de 29'22" est au centre de la limite Ouest à 29'26" est au centre de la limite Est. Variation moyenne annuelle 4.3" Ouest.
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