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Information concerning bench marks and horizontal survey monuments, can be obtained from Geodetic Survey, Canada Centre for Surveying, Ottawa.

Pour tout renseignement concernant les repères de nivellement et les termes géodésiques, prière de s'adresser à la Division des levés géodésiques, Centre canadien des levés, Ottawa.

ÉTABLIE PAR LE CENTRE CANADIEN DE CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES. TIRÉE DE CARTES À 1/50 000. RENSEIGNEMENTS À JOUR TELS QU'INDIQUÉS DANS LE DIAGRAMME. PUBLIÉE EN 1991.

CES CARTES SONT EN VENTE AU BUREAU DES CARTES DU CANADA, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES, OTTAWA, OU CHEZ LE VENDEUR LE PLUS PRÈS.

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MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES.

DAWSON

YUKON TERRITORY TERRITOIRE DU YUKON

Roads:	Routes:	dual highway: divided, 4 lanes	more than 2 lanes: plus de 2 voies
hard surface	revêtement dur	2 lanes	2 lanes: 2 voies
hard surface	revêtement dur	2 wide	inconnu de 2 voies
loose or stabilized surface, all weather	gravier, approximé, toute saison	2 wide or more	less than 2 lanes: moins de 2 voies
loose surface, dry weather	de gravier, temps sec	2 wide on piles	
cart track	de terre		
trail, cut line or portage	sentier, percée ou portage		

FOR COMPLETE REFERENCE SEE REVERSE SIDE. POUR UNE LISTE COMPLÈTE DES SIGNES, VOIR AU VERSO

Scale 1:250 000 Échelle

Miles 5 0 5 10 15 20 Milles

Kilometres 5 0 5 10 15 20 25 30 Kilomètres

Magnetic declination 1990 varies from 30°17' easterly at centre of west edge to 31°15' easterly at centre of east edge. Mean annual change decreasing 11.3'.

En 1990, la déclinaison magnétique varie de 30°17' ouest (est au centre du bord ouest à 31°15' ouest (est au centre du bord est. La variation annuelle moyenne décroît de 11.3'.

CONVERSION SCALE FOR ELEVATIONS — ÉCHELLE DE CONVERSION DES ALTITUDES

Metres 30 20 10 0 — 50 100 150 200 250 300 Mètres

Feet 100 50 0 — 100 200 300 400 500 600 700 800 900 1000 Pieds

CONTOUR INTERVAL 500 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

ÉQUIDISTANCE DES COURBES 500 PIEDS
Altitudes en pieds
Système de référence géodésique nord-américain, 1927
Projection transverse de Mercator

Index to adjoining Maps of the National Topographic System
Tableau d'assemblage du Système national de référence cartographique

LEGEND

PALEOZOIC and MESOZOIC undivided

998 PMsh — shale; silty shale; nodular shale; fine carbonaceous sandstone.

911d Pd — Paleozoic, probably Ordovician, mafic dykes and sills interpreted to be subvolcanic to **€Ov**.

956 Psh — shale; silty shale; nodular shale; fine carbonaceous sandstone.

MESOZOIC

CRETACEOUS

964 KM — **Monster Formation:** shale, sandstone and conglomerate (mainly Cenomanian).

926 Ki — **Tombstone Plutonic Suite:** hornblende ± biotite alkali-feldspar syenite, hornblende-biotite monzogranite, with clinopyroxenite, hornblende diorite, linguaite and biotite clinopyroxene monzonite near margins.

Kii — pseudoleucite linguaite.

JURASSIC

935 JLS — **'Lower Schist':** black, graphitic slate with minor interbedded brown siltstone; brownish-green argillite at base; black, graphitic slate and phyllitic slate with lesser interbedded chert-pebble conglomerate and immature feldspathic subgreywacke in lower part; minor pale green siliceous phyllite in upper part.

TRIASSIC

948 Ꞧsh — dark grey to black shaly and platy, fetid micritic limestone; locally contains pelecypod fragments and small chert pebbles in upper part; thin-bedded, greywacke-like siltstone and shale in lower part.

947 Ꞧj — buff to brown weathering, thinly laminated and crosslaminated calcite-cemented quartz siltstone with interbedded greyish-brown shale; detrital muscovite ubiquitous.

908 Ꞧd — brown weathering, dark green tholeiitic diorite and medium-grained gabbro; sheared and altered equivalents.

PALEOZOIC

PERMIAN

946 PMC — pale green and bright red phyllitic siliceous slate with minor pale green argillaceous chert.

UPPER PERMIAN

941 PT — **Tahkandit Formation:** rusty to light grey weathering, grey and white, crystalline skeletal limestone; partially silicified and dolomitized limestone (upper part); interbedded black chert in middle part. Calcitic sandstone, chert-pebble conglomerate, sandy limestone in basal part which is 25 m thick.

LOWER PERMIAN

942 PJC — **Jungle Creek Formation (in N.W. Dawson map area):** medium to dark brownish-grey weathering skeletal limestone, partly conglomeratic; micritic skeletal limestone, calcareous sandstone, chert-pebble conglomerate, calcareous shale; siliceous mudstone; and siltstone.

UPPER CARBONIFEROUS

968 CE — **Ettrain Formation - Prophet Limestone:** light grey weathering limestone with nodular chert, crinoid grainstone and packstone; brachiopods, horn corals.

LOWER CARBONIFEROUS

915 MK — **'Keno Hill Quartzite':** resistant, thick-bedded, massive fine-grained MKH orthoquartzite with lesser interbedded black slate. Includes undifferentiated MKHa and MKHb.

UPPER DEVONIAN TO LOWER CARBONIFEROUS

EARN GROUP

906 DCE — Black shale; chert pebble conglomerate.

UPPER DEVONIAN

937 DN — **Nation River Formation:** shale, sandstone, common coarsening- and thickening-upward cycles.

MIDDLE ORDOVICIAN TO MIDDLE DEVONIAN

ROAD RIVER GROUP

934 ODR — black shale, argillite and slate; interbedded chert and sandstone. Graptolite fauna, chiefly at base of chert beds (undivided). **Ba:** barite.

934d OR — black, medium bedded chert (Middle Ordovician).

CAMBRIAN TO MIDDLE ORDOVICIAN

963 €-OK — green and brown siltstone, locally bioturbated; brown and green chert; grey, wispy laminated cherty argillite, carbonate breccia, thin-bedded limestone, silty limestone (characteristic lithology of the Kechika Group in north-central B.C.).

LOWER CAMBRIAN AND LOWER ORDOVICIAN

912 €-OV — **Marmot Formation:** amygdaloidal basaltic flows and breccias; mostly subaqueous.

904 €-OL — white weathering, grey streaked limestone.

913 €-OV1 — flow-banded rhyolite and felsite, includes breccia and tuff.

LOWER CAMBRIAN TO LOWER ORDOVICIAN

919 €-DB — massive, light grey, medium crystalline dolomitic packstone, locally oolitic; sandy dolomite; medium bedded silty dolomitic wackestone and packstone.

999 €-H — **Hillard Formation (northwest area only):** fine-grained, yellow-brown limestone, limy conglomerate-breccia; locally chert and chalcedony replacements. Uncommon archaeocyathid and trilobite fossils.

LOWER CAMBRIAN

922 €-A — **Adams Argillite:** grey, green and red argillite with laminated quartzite and siltstone. Light brown quartzite at base; locally with grey-green chloritic shale and siltstone interbeds. Olkhamia, Trilobite and Archaeocyathid in basal conglomerate.

904 €-F — **Funnel Creek Formation (locally continuous into €-DB):** massive, light grey limestone, locally dolomitic; in places oolitic or contains dark grey chert; includes secondary silicification and chalcedony vugs.

905 €-S — **Slats Creek Formation:** yellow-beige, silty dolostone, with interbridded quartz sandstone and red siltstone. Uncommon ripple marks, mud cracks, concretions, and trace fossils.

UPPER PROTEROZOIC AND LOWER CAMBRIDGE

926 P€-SCH

HYLAND GROUP

921 P€-H3 — maroon, green and grey argillite; light grey chert; siltstone; sandstone; gritty sandstone; trace fossils in upper part.

924 P€-H1a — iron formation.

920 P€-H2 — white-weathering, grey limestone, recrystallized.

930 P€-H1 — sandstone; gritty sandstone; argillite; chloritic schist.

Base unknown.

UPPER PROTEROZOIC - LOWER CAMBRIAN

906 P€ — undivided, poorly exposed.

901 P€-5 — grey brown weathering, dark brown grey quartz wacke, intercalated with dark brown orange dolomitic wackestone and rare coarse-grained to granule quartz wacke-grit; rare discontinuous lens of chert pebble conglomerate and crossbedded quartz arenite at base or interbedded with top of unit below; rare lower Cambrian trace fossils in upper 50 m.

914 P€-4 — grey-orange weathering, yellow wackestone; dolomitic, fine- to medium-grained, thin-bedded; rare ripple cross-stratification and ripples; rare flat pebble dolostone breccia and capping of laminated black fetid limestone mudstone.

902 P€-3 — black laminated mudstone, rarely shale; interbedded with dark brown laminated siltstone; yellow weathering dolostone breccia, intensely silicified in places.

sharp, straight, parallel contact; probable disconformity over **Pre**; possible thrust over **Pve**.

PROTEROZOIC

MOUNT HARPER GROUP

Upper Mount Harper Group

918 EH2 — yellow-orange weathering, light to medium grey fresh, coarsening upward cycles of intercalated dolomitic mudstone and wackestone to dolostone conglomerate. Cycles 20-100 m thick.

916 EH1 — dark green-grey conglomerate, pebble to small boulder-sized clasts, mixed volcanic and carbonate clasts; rare tuffs, pyroclastic bombs and thin basaltic flows.

contact gradational (10s to 100s of m) where overlies **Pve**;
sharp angular unconformity (10-20°) where overlies Fifteenmile Group.

Mount Harper Volcanic Complex

Upper Suite

911 EVf — orange-weathering tabular flows and dioritic sills, micro-vesicular.

905 EVe — andesitic basalt flows, breccia and tuff; minor sills.

910 EVd — rhyolitic flows, breccia and ignimbrite; locally quartz- and plagioclase-phyric.

Lower Suite

909 EVl — basaltic breccia and flows.

909d EVls — basaltic feeder dykes and sills.

contact sharp and conformable on Lower Mount Harper Group;
angular unconformity where overlies Fifteenmile Group.

Lower Mount Harper Group

902d EH — five distinctive lithostratigraphic units consisting of, in ascending order: grey dolostone breccia; orange to grey dolostone conglomerate; dolomitic wackestone/mudstone (redbeds); dolomitic, grey to orange wackestone and dolostone conglomerate; grey, finely crystalline dolostone.

Disconformity: up to 50 m preserved paleo-relief;
some preserved pre-Mount Harper Group high-angle normal faults.
Contact sharp except gradational where basal breccia is preserved.

MIDDLE TO UPPER PROTEROZOIC

FIFTEENMILE GROUP

933 EF — **Upper Fifteenmile group**: undivided.

932f EF3 — "cryptalgal dolostone". Medium to light grey finely crystalline dolostone; laminated to thinly bedded, stromatolitic locally; includes chert and dolomitic breccia.

933d EF2 — siltstone; shale; fine-grained quartzite.

903 EF1 — "craggy dolostone". Medium to dark grey, massive, medium crystalline dolostone; abundant silicification.

903d EF1a — interbedded argillite-dolostone sequence.

disconformity, local angular unconformity over **PRI**.

907 Ed — mafic sills and dykes.

WERNECKE BRECCIAS

916 EBX — megabreccia containing rotated blocks of quartz sandstone and pink carbonate; heterociastic breccia containing siliceous and carbonate clasts in hematite matrix.

breccias crosscut Lower Fifteenmile Group and older stratigraphy.

Lower Fifteenmile group:

923 EBS — shale; pebbly mudstone; gritty mudstone; stromatolitic limestone; quartz sandstone.

924 EBS6a — light-grey, finely crystalline dolomite.

930d EB4 — medium grey dolostone breccia, oolitic packstone, uncommon stromatolitic dolostone.

931 EB3 — recessive weathering grey medium-bedded dolomite with mudstone interbeds.

926f EB2 — medium to thick bedded dolomitic mudstone; dolostone breccia; massive, medium crystalline dolostone.

926d EB2a — grey weathering dolostone lenses within EB2, commonly stromatolitic.

925 EB1 — shale, silty dolomite with common dolostone olistoliths.

angular unconformity, except gradational over 100 m in northern Coal Creek

MIDDLE PROTEROZOIC

WERNECKE SUPERGROUP

GILLESPIE LAKE GROUP

944 EG — orange weathering interbedded (medium to thick) dolostone and argillaceous or silty dolostone; maroon weathering argillite; common domal and columnar stromatolites, algal laminae.

944d EG1 — grey dolostone, laminated to thin bedded, rare slump folds and breccia, locally stromatolitic.

gradational contact

QUARTET GROUP

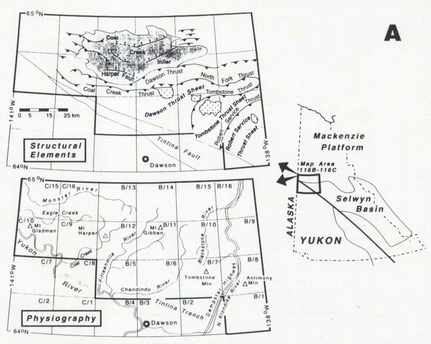
947 EQ — interbedded (thin to thick) grey to brown sandstone, siltstone and shale; beds continuous; rare slump structures, ripples and trough crossbeds.

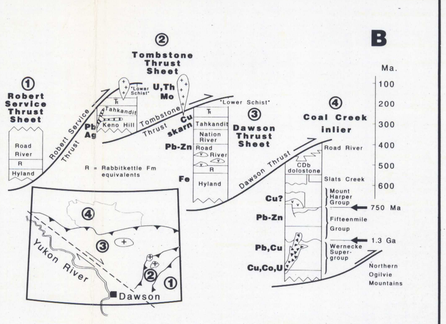
disconformity, angular discordance locally

FAIRCHILD GROUP

950 EFL — mature sandstone; siltstone; pinkish-weathering near and within breccia bodies; dark grey argillaceous layers and discontinuous white-weathering dolostone in upper part, rare bedded jasplite and siltstone; dolomitic, ribbed weathering.

951 EFL1 — pale grey to greenish-grey and purple dolomitic limestone and siltstone, platy and ribbed weathering, rare stromatolites.





MINERAL OCCURRENCES

Map Area 116B/5

32. FIF (Coal)
36. ROAL (Pb,Zn,Ag-Skn)
37. SILVER CITY (Ag,Pb-Vein)
38. FITCH
39. OGILVIE
40. KEYSTONE
43. ASS (Asbestos)
44. WOODCHIPPER (Asbestos)
66. CHANDINDU (Coal)
69. JEROME (Coal?)
73. RISCO
74. WINAGE
75. HEALY
76. LAWRENCE
78. BARETTE (Coal)
79. THANE (Coal)

Map Area 116B/6

46. BUCKBRUSH
47. STYX
48. RICKARD
54. LIGHTHOUSE
65. KENTUCKY

Map Area 116B/7

49. HAY MEADOW
50. JECKELL
52. SNYDER
53. CABLE
55. FIREWEEK (Mo-Un)
56. TRIX (U-Skn)
57. SPOTTED FAWN (Ag, Pb-Vein)
58. SUBTRACT (U,Th-Un)
107. SUMTING (U-Un)
108. NEBULOUS (U-Un)
109. TING (U-Un)
125. LIEDTKE
147. MARN (Au,Cu-Skn)
150. HESTER (Ag,Au-Vein)
151. TOMBSTONE (U-Mag)
152. TETA (U-Un)

Map Area 116B/8

59. ROBERT SERVICE (Pb-Un)
60. MULTIPLY (Cu,Mo-Skn)
94. O'BRIEN (Au-Vein)
95. SANDOW (Cu-Vein)
96. BREWERY (U-Un)
97. BURR

Map Area 116B/9

128. REIN (Ba-Form)
131. RIKI
142. GRAPS (Ba-Form)
162. EASTBLACK

Map Area 116B/10

61. CRAWFORD (Cu-Vein)
87. KIWI (Pb,Zn-Vein)
132. BLACKSTONE (Pb,Ag-Vein)

Map Area 116B/11

98. COMBINATION (U,Th-Un)
110. RAYNER (Zn-Form)

Map Area 116B/12

85. OZ (Pb,Zn-Form)
105. DIDDLE

Map Area 116B/13

68. SHAND (Cu-Un)
83. MONSTER (Pb,Zn-Form)
84. TART (Zn-Form)
85. OZ (Pb,Zn-Form)
100. MINERE (Zn-Form)
102. WIZARD (Cu-Un)
103. DASH (Cu-Un)
104. DIZZY
154. DEM (Pb-Form,Asbestos)

Map Area 116B/14

64. FIFTEENMILE (Cu,Ag-Vein)
86. SEELA (Pb,Zn-Vein)
96. LALA (Cu-Un)
106. TOUR
110. PETTET (Cu-Vein)
136. TOLBERT (Pb,Zn,Cu-Form)

Map Area 116C/9

29. SHELL CREEK (Fe-Form)
30. CLIFF CREEK MINE (Coal)
71. KRAUSE (Fe-Form)
77. LEDUC (Coal)
93. JEPHSON (Coal)

Map Area 116C/16

101. UGLY (Zn-Vein)

Abbreviations:

Skn - skarn
Form - formation stratabound
Porp - porphyry
Mag - magmatic
Vol - volcanogenic
Un - deposit type uncertain

Numbers are Yukon MINFILE occurrences, sheets 116B and C.

SYMBOLS

Geological boundary (defined, approximate, assumed)

Bedding (horizontal, inclined, vertical, overturned, tops unknown)

Cleavage (inclined, vertical)

Lineation, axis of small-scale fold (inclined, horizontal)

Fault, steeply dipping (defined, approximate, assumed);
solid circle on downthrown side

Fault, thrust (defined, approximate, assumed, teeth on upper plate)

Anticline (defined, approximate, assumed; arrow indicates plunge)

Syncline (defined, approximate, assumed; arrow indicates plunge)

Anticline, syncline (overturned)

Mineral occurrence (numbers refer to Yukon Minfile, 1990) — x 57

Fossil locality — F

Trace fossil locality — Fr

Suggested colour scheme using Berol Prismacolor Crayons — 901 Number of colour; l light; d dark; — no colour assigned

Suggested reference:

Thompson, R.I.
1995: Geological compilation (1:250 000) of Dawson map area (116B,C) (northeast of Tintina Trench); Geological Survey of Canada, Open File 3223.

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GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

GEOLOGICAL COMPILATION (1:250 000) of DAWSON MAP AREA (116B,C)

(northeast of Tintina Trench)

by
R.I. Thompson

Geological Survey of Canada
Cordilleran Division

GSC Open File **3223**

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