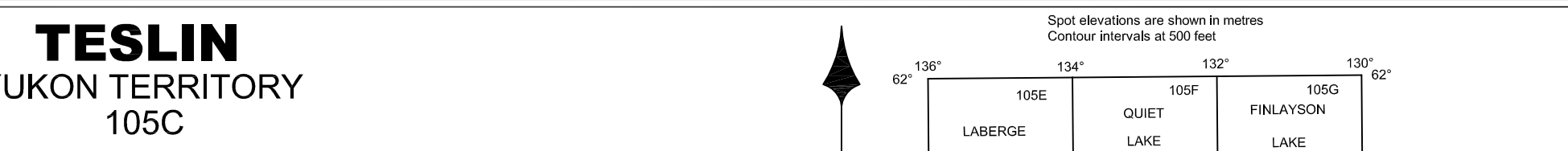
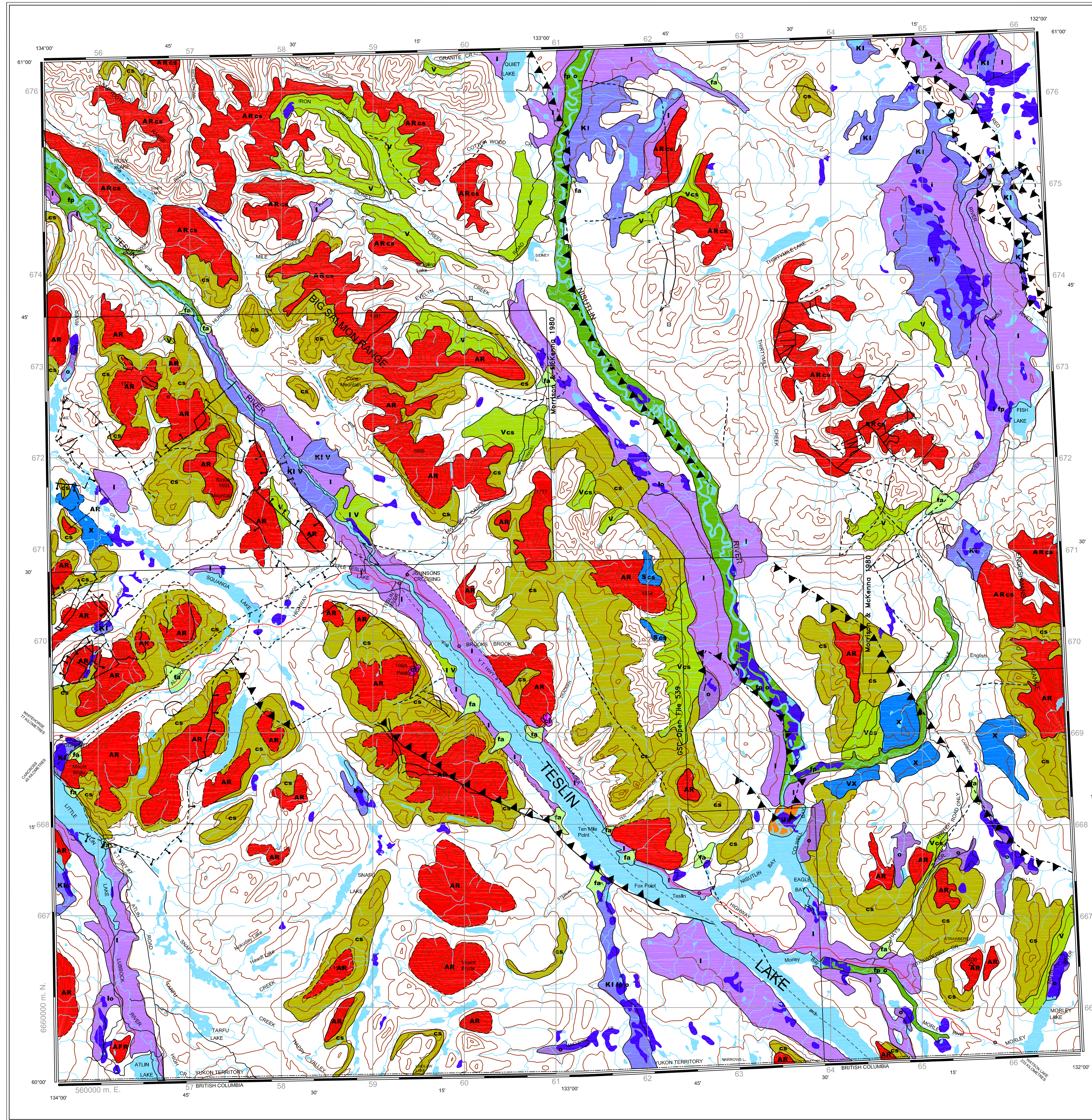


NATIONAL TOPOGRAPHIC SERIES NTDB (1995) D.I.A.N.D. N.A.P. LAND RESOURCES CANADA SHEET 105C



TESLIN YUKON TERRITORY 105C

GEOPROCESS FILE - SUMMARY REPORT

INTRODUCTION

The GEOPROCESS File is a compilation of information and knowledge on geological processes and terrain hazards, including mass movement processes, permafrost, flooding risks, faults, volcanic activity and recent volcanism, etc. Please refer to the GEOPROCESS File User Guide for more in-depth information on how the maps were developed, which maps are available, how to utilize this inventory and how to interpret the legend.

This report includes a brief discussion of the scope and limitations of the GEOPROCESS File compilation maps followed by summaries of the bedrock geology, surficial geology and terrain hazards for this NTS map area, and a list of references.

Geological Processes and Terrain Hazard Compilation Maps

The GEOPROCESS File map units were drafted on the 1:250,000 topographic base maps through interpretation from bedrock geology maps, surficial geology maps and some cases terrain hazard maps at various scales. The compilation maps have a confidence level reflecting the original source material.

Each 1:250,000 N.T.S. map area is described according to morphological belts and terranes defined by Gable and al. (1991) and Wheeler et al. (1991). Bedrock geology (including structure) and mineral occurrences are briefly described and taken largely from the referenced, most recent 1:250,000 geological map with additional contributions from Wheeler and McFarley (1991) and Yukon MINFILE (1993). A summary paper (A Geological Framework for Yukon) in Appendix A of the User Guide provides a framework and context for each of the bedrock summaries.

The level of knowledge and understanding of Yukon geology is constantly evolving with more detailed mapping and development of geological models. Names, ages and terrane attributes of map units on the most recent 1:250,000 geological maps may, in some cases, now be considered incorrect. This information contained within some of the bedrock geology summaries may be out of date. Although much of the information reflects the knowledge at the time that the source map was published, additional information has been inserted whenever possible to assist the user in merging the information with current geological maps, concepts and understanding. The map areas for similar occurrences are indicated by a yellow background plus or minus geological, or at least the constraints on their age, may vary between map areas.

Bedrock Geology

Each 1:250,000 N.T.S. map area is described according to morphological belts and terranes defined by Gable and al. (1991) and Wheeler et al. (1991). Bedrock geology (including structure) and mineral occurrences are briefly described and taken largely from the referenced, most recent 1:250,000 geological map with additional contributions from Wheeler and McFarley (1991) and Yukon MINFILE (1993). A summary paper (A Geological Framework for Yukon) in Appendix A of the User Guide provides a framework and context for each of the bedrock summaries.

The level of knowledge and understanding of Yukon geology is constantly evolving with more detailed mapping and development of geological models. Names, ages and terrane attributes of map units on the most recent 1:250,000 geological maps may, in some cases, now be considered incorrect. This information contained within some of the bedrock geology summaries may be out of date. Although much of the information reflects the knowledge at the time that the source map was published, additional information has been inserted whenever possible to assist the user in merging the information with current geological maps, concepts and understanding. The map areas for similar occurrences are indicated by a yellow background plus or minus geological, or at least the constraints on their age, may vary between map areas.

NOTE: A new digital compilation of Yukon Geology is now available by Steve Gorday and Andrew Makepeace (GSC Open File D382E and/or DIAND Open File 1999-1(D)), and more recent MINFILE updates should also be verified (Yukon MINFILE, 2001).

NOTE: THIS MAP HAS BEEN MODIFIED BY THE COMPLETION OF DATA. LEGAL SOURCES: THIS MAP IS BEING USED AS A PRELIMINARY GUIDE FOR WHICH THE USER WILL ACCEPT RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS INCURRED BY THE USER.

EDITION: 1-Print Date: 99/07/20

CONTOUR INTERVAL 500 FEET Elevations in Feet above Mean Sea Level North American Datum 1983 Transverse Mercator Projection Universal Transverse Mercator Grid Zone 8

The Teslin map area is in the Intermontane and Omineca Belts which occupy the southwestern and northeastern portions of the map area, respectively. The regions are separated by two large, throughgoing, north-south-trending, strike-slip faults that parallel the Teslin Lake and River valleys. The two faults are known as the "Teslin Suture Zone" or "Teslin Fault".

The southwestern part of the map area hosts a complex array of volcanic and sedimentary rocks of the Cache Creek Terrane that range from 350-250 million years in age. The volcanic rocks are composed of altered basalt and andesitic gneisses with associated peridotite, serpentinized peridotite, diorite and gabbro. Cache Creek Terrane sedimentary rocks are composed of well-bedded greenstone, siltstone, shale, siltstone and greywacke. All Cache Creek Terrane rock successions are folded and completely faulted.

The northwestern-most part of the map area, as well as the region immediately east of the Teslin Lake and River valley is underlain by the 235-180 million year old rocks of the Slave Terrane. Slave Terrane is dominated by folded Laberge Group greywacke, shale and siltstone with minor conglomerate that overlie the Lewis River Group limestone and greywacke. The two sedimentary packages collectively comprise the fill of the Whitehorse Trough. Quaternary glacial deposits occupy a narrow belt of rocks immediately east of the Teslin Lake. They are similar to Slave Terrane in that they are the same age and dominated by greywacke, siltstone and shale, but they also contain augite porphyry, augite and diorite, gabbro, diorite and pyroxenite.

Northeast of Skikine and Quwanen Terrane are rocks of the Kootenay Terrane (Neulath subterran) that are in thrust fault contact with Cassiar Terrane (North American margin) along the Neulath River valley. Kootenay Terrane is composed of very (500 million years) to grey (one billion years old) metamorphosed sedimentary and igneous rock packages that include schist, gneiss, marble, metagabbro, metadiorite, amphibolite, hornblende, tonalite, granitic phyllite and quartzite (in other areas of the Yukon these rocks are known as the Nahsin and Niding assemblages of the Yukon-Tanana Terrane). Cassiar Terrane is composed of variably metamorphosed, 345-325 million year old volcanics and flows, limestone, phyllite, quartzite and schist that overlie a sedimentary package of shale, chert, sandstone, chert, pebble conglomerate and siliceous argillite. The sedimentary package overlies the 600-500 million year old granitic Grouse sandstone, gneiss, siltstone, limestone, dolomite, schist, quartzite and gneiss. Cassiar Terrane rocks are structurally overthrust by a north-south-trending strip of sedimentary and volcanic rocks of the Skide Mountain Terrane which includes peridotite, pyroxenite, serpentinite, conglomerate, greywacke, limestone and diorite.

Four felsic intrusive suites ranging in age from 180 to 80 million years form numerous plutons that cut the varied terranes. The most voluminous is the approximately 110 million year old suite of quartz monzonite, quartz monzonitic and biotite granite porphyry of the Cassiar Suite.

Mineral Occurrences and Deposits There are 60 known mineral prospects listed in Yukon MINFILE for the Teslin map area, of which 22 had mineralization. Despite the small number of occurrences, there is a large diversity of types of mineralization. Most occurrences are vein-type, mainly base metal, copper plus or minus gold-silver, and gold-silver. Tin and tungsten skarns are associated with the 110

The White River tephra, deposited approximately 1,200 years ago, is visible in the upper portions of soil profiles on most surfaces, and can sometimes be used as an indicator of active mass movement or erosion.

Slope failures in steep bedrock represent the highest risk hazard in the area. Although not documented in any of the publications available and not present on the terrain hazard map, the potential for rock slides and avalanches should be kept in mind when an area is investigated.

Seismicity There are five recorded seismic events within the map area. All of the recorded events are 2.0 to 2.99 in magnitude.

Mass Movement Processes Snow and rock avalanches involving potentially large volumes of boulders and debris could occur on steep bedrock slopes. Debris flows tend to always occur on steep, ridges, crevasses and embayments prone to these hazards should be discouraged. Collium-covered slopes are usually unstable.

Permafrost The Teslin map sheet lies within the Discontinuous Permafrost Zone (Brown, 1967). Ice content is expected to be all to low in glacioluvial and fluvial conglomerate in most localities, such as terranes, fans, eskers, kames, as well as in recent alluvium. Ice content in moraine and colluvial deposits is expected to be low to moderate. Moraine and colluvial deposits located at high elevations covered by thick organic deposits are the most likely to contain significant ice content. Permafrost is often detected by the presence of thick organic mats in poorly drained sites, sulfidation lobes and stripes and sorted stone polygons.

High ice content is possible in fine-grained fluvial terraces located above stream level, in silt to clayey glacioluvial sediments. Thermokarst collapse and thaw landslides are common in fine-grained glacioluvial deposits around Allin, Little Allin, Teslin Lakes area, east of Quat Lake and in the Red River valley north of First Lake.

Flooding and Other Risks Floods related to glaciers, snow melt and summer rainstorms are a possible hazard in the lower reaches of most streams in the area. The steep portions of alluvial fans are exposed to the flooding risk and to the additional risk of mud flows and debris flows associated with rapid discharge increases.

During deglaciation, large volumes of material were dammed in some valleys and sometimes by glacial lakes. Beaches, lake bottom sediments, and modern lakes are now found in many of these valleys. Teslin Lake, Little Allin and Allin Lakes, as well as the Maclean River valley and the Red River valley north of First Lake are bordered by glacioluvial silt and clay deposits that can be as thick as 15 m. They commonly contain massive ice bodies and are prone to retrogressive thaw slide and thermokarst degradation when disturbed either by fire, erosion, forest fires, or other changes in surface conditions.

References Bortost, H.S., 1936. Prospecting possibilities of Teslin-Quat Lake - Big Salmon area, Yukon. Geological Survey of Canada, Paper 362, 6 p.

Brown, R.L.E., 1967. Permafrost in Canada. Geological Survey of Canada, Map 1248A, (scale 1:7 603 200).

Bustin, R.M. and McKenzie, K.J., 1989. Stratigraphy and depositional environments of the Susta Group, southern Susta Basin, north central British Columbia. Bulletin of Canadian Petroleum Geology, Vol. 37, No. 2, p. 210-223.

Canadian Earthquake Epicentre File, Maintained by the Geological Survey of Canada, Geological Survey of Canada, Paper 68-70, 13 p.

Carlyle, L., 1995. Placer mining and exploration compilation (NTS 105A/B/C/D), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Canada/Yukon Economic Development Agreement, Open File 1995-10(G).

Department of the Environment, 1973. Teslin, Yukon Territory, Land Use Information Series, Department of the Environment, Ontario, Vol. 105C, 1 coloured environmental geology map.

Power, D.J., 1981. Airborne EM and Map surveys, Jakes Corner project. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Canada/Yukon Economic Development Agreement, Open File 1994-10(G).

Enmer, P., 1981. Comparative studies of catadacitic allochthonous rocks in Maclean-Laberge and Fitzpatrick Lake metabasites. In: Yukon Geology and Exploration, 1979-1980, Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 287-295.

Enmer, P., 1985. An examination of the catadacitic fabrics and structures of the northwestern Yukon, Enmer and Simpson assemblage, central Yukon; test of the arc-intrant ophiolite model. Journal of Structural Geology, Vol. 7, No. 1, p. 57-72.

Gabrielis, H., Temperton-Kilg, D.J., Blussen, S.L., and Campbell, R.B. (comp.), 1980. Maclean River, Yukon - District of Maclean-River-Allin (Sheet 105). Geological Survey of Canada, Map 1368A (1:1 000 000 map), NTS 105, 115 p.

Gabrielis, H. and Youth, C.J. (eds), 1991. Geology of the Cordilleran Orogen in Canada. Geological Survey of Canada, No. 4, 844 p. (Contains summary of Yukon geology).

Gauseau, S.A., 1992. Report on bedrock in the southern Big Salmon metamorphic complex. Teslin map area, Yukon Territory. In: Current Research, Part A, Paper 92-1A, Geological Survey of Canada, p. 267-277.

Geological Survey of Canada, 1986. Regional stream and water geochemical reconnaissance data, Yukon Territory - 1983. Geological Survey of Canada, Open File 1217.

Gorday, S.P., 1991. Teslin map area, a new geological mapping project in southern Yukon. In: Current Research, Part A, Paper 91-1A, Geological Survey of Canada, p. 177-178.

Gorday, S.P., 1992. Geological bedrock in Teslin map area, southern Yukon Territory. In: Current Research, Part A, Paper 1992-1A, Geological Survey of Canada, p. 279-286.

Hart, J.A., Hart, C.J.R., and Gorday, S.P., 1995. Interpretive geology of the Jakes Corner geophysical survey (1952S, 1052B and 1052D). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Canada/Yukon Economic Development Agreement, Open File 1995-10(G).

Hydrogeological consultants Ltd., February, 1974. A review of groundwater data, Teslin, Yukon Territory. Hydrogeological Consultants Ltd., Edmonton, Alberta.

Indian and Northern Affairs, 1993. Abandoned Mines Assessment, 100C-13-1 (State Mountain). DIAND Technical Services, Yukon Region, Indian and Northern Affairs Canada, p. 465.

Jackson, L.E. Jr., 1984. Terrain inventory and quarry history of the Pelly River area, Yukon Territory. Geological Survey of Canada, Memoir 437, (NTS 105K, 105L, 105G, 105F).

Jackson, L.E. Jr., and Mackay, T.D., 1990. Glacial limits and ice-flow directions of the last Cordilleran ice sheet in Yukon Territory between 50 and 60 degrees north. Geological Survey of Canada, Open File 2329, (NTS 90D, 105A, 105B, 105C, 105D, 115A, 115E, 115F, 115G, 115H, 115I, 115J, 106K, 106L, 105I, 115K).

Jackson, L.E., 1984. Terrain inventory and quarry history of the Pelly River area, Yukon Territory. Geological Survey of Canada, Memoir 437, 41 p. (NTS 105K, 105L, 105G, 105F).

Kindle, E.D., 1945. Geological reconnaissance along the Canal Road, from Teslin River to MacMillan Pass, Yukon. Geological Survey of Canada, Paper 45-21, 26 p.

Klassen, R.W., 1978. Surficial geology, southern Yukon Territory (NTS 100K-114, 105D-110, 105E-21, 104D-13, 14, 105B, 3-4, 105H, 15, 105C-1, 105A, 105A-3) Geological Survey of Canada, Open File 539 (1:100 000 scale map).

Klassen, R.W., Thorsen, E. and Hughes, O.L., 1978. Surficial geology and terrain evaluation, southern Yukon. In: Current Research, Part A, No. 78-1A, Geological Survey of Canada, p. 465.

Lees, E.J., 1938. Geology of the Teslin-Quat Lake Area, Yukon. Geological Survey of Canada, Memoir 203, Publication 2429, 30 p.

Lees, E.J., 1938. Teslin-Quat Lake area, Yukon Territory. Geological Survey of Canada, Geological Map No. 350A, scale 1:253 440.

Liverton, T., 1980. Test-bearing skarns of the Thimble Range, N.T.S. sheet 105 C: A progress report. In: Yukon Geology, Vol. 3, Exploration and Geological Services Division, Indian and Northern Affairs Canada, p. 52-70.

Lord, C.S., 1944. Geological reconnaissance along the Alaska Highway between Yukon Lake and Teslin River, Yukon and British Columbia. Geological Survey of Canada, Paper 44-25, 21 p.

Monger, J., 1975. Upper Paleozoic rocks of the Allin terrane, northwestern British Columbia and south-central Yukon. Geological Survey of Canada, Paper 74-47, 63 p.

Monger, S.R. and Makenna, K., 1980. Surficial Geology and Soils, Southern Lakes Study, Department of Renewable Resources, Y.T.S., 100 000 scale.

Monger, S.R. and Makenna, K., 1982. Surficial Geology and Soils, Southern Lakes Study, Department of Renewable Resources, Y.T.S., 4 maps, 1:100 000 scale.

"Morison, S.R. and Klassen, R.W. (in prep). Surficial geology, Teslin (105C), Yukon Territory. Geological Survey of Canada, 1:250 000 scale, (NTS 105C, 105D - 4 maps at 1:100 000 scale).

"Mulligan, R., 1963. Geology of Teslin map-area, Yukon Territory (105C). Geological Survey of Canada, Memoir 326, 96 p., Map 1125A, scale 1:253 440.

Mulligan, R., 1964. Metallogeny of the region adjacent to the northern part of the Cassiar Batholith, Yukon Territory and British Columbia (parts of 104D, P and 105B). Geological Survey of Canada, Paper 68-70, 13 p.

Power, M.A., 1995. Notes to prospectors - Jakes Corner Diagen survey interpretation, Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Canada/Yukon Economic Development Agreement, Open File 1995-10(G).

Senyk, J.P., 1979. Surficial deposits and landforms, Neulath River Valley (105C 2.7, 10, 15). Yukon Territory, Canadian Forestry Service (1:50 000 scale).

Stevens, R.A., 1991. The Teslin suture zone in northwest Teslin map area, Yukon. In: Current Research, Part A, Paper 91-1A, Geological Survey of Canada, p. 271-277.

Stevens, R.A., 1992. Regional geology, fabric and structure of the Teslin suture zone in northwest Teslin map area, Yukon Territory. In: Current Research, Part A, Paper 92-1A, Geological Survey of Canada, p. 287-295.

Stevens, R.A., 1995. Geology of the Teslin suture zone in parts of Laberge (105E/1), Quat Lake (105F/4) and Teslin (105C/11, 13, 14) map areas, Yukon Territory. Geological Survey of Canada, Open File 2768.

Strain, L. and Friedrich, G., 1992. Gold sulfidate quartz veins in metamorphic rocks as a possible source for placer gold in the Livingstone Creek area, Yukon Territory, Canada. In: Yukon Geology, Vol. 3, Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 87-88.

Temperton-Kilg, D., 1980. Highlights of field work in Laberge and Carmacks map areas, Yukon Territory. In: Current Research, Part A, No. 80-1A, Geological Survey of Canada, p. 357-362.

Wheeler, J.O., Brookfield, A.J., Gabrielis, H., Monger, J.W.H., Tipper, H.W. and Woodsworth, G.J., 1991. Terrane map of the Canadian Cordillera. Geological Survey of Canada, Map 1173.

Geological Survey of Canada, 1986. Regional stream and water geochemical reconnaissance data, Yukon Territory - 1983. Geological Survey of Canada, Open File 1217.

Gorday, S.P., 1991. Teslin map area, a new geological mapping project in southern Yukon. In: Current Research, Part A, Paper 91-1A, Geological Survey of Canada, p. 177-178.

Gorday, S.P., 1992. Geological bedrock in Teslin map area, southern Yukon Territory. In: Current Research, Part A, Paper 1992-1A, Geological Survey of Canada, p. 279-286.

Hart, J.A., Hart, C.J.R., and Gorday, S.P., 1995. Interpretive geology of the Jakes Corner geophysical survey (1952S, 1052B and 1052D). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Canada/Yukon Economic Development Agreement, Open File 1995-10(G).

Hydrogeological consultants Ltd., February, 1974. A review of groundwater data, Teslin, Yukon Territory. Hydrogeological Consultants Ltd., Edmonton, Alberta.

Indian and Northern Affairs, 1993. Abandoned Mines Assessment, 100C-13-1 (State Mountain). DIAND Technical Services, Yukon Region, Indian and Northern Affairs Canada, p. 465.

Jackson, L.E. Jr., 1984. Terrain inventory and quarry history of the Pelly River area, Yukon Territory. Geological Survey of Canada, Memoir 437, (NTS 105K, 105L, 105G, 105F).

Jackson, L.E. Jr., and Mackay, T.D., 1990. Glacial limits and ice-flow directions of the last Cordilleran ice sheet in Yukon Territory between 50 and 60 degrees north. Geological Survey of Canada, Open File 2329, (NTS 90D, 105A, 105B, 105C, 105D, 115A, 115E, 115F, 115G, 115H, 115I, 115J, 106K, 106L, 105I, 115K).

Jackson, L.E., 1984. Terrain inventory and quarry history of the Pelly River area, Yukon Territory. Geological Survey of Canada, Memoir 437, 41 p. (NTS 105K, 105L, 105G, 105F).

Kindle, E.D., 1945. Geological reconnaissance along the Canal Road, from Teslin River to MacMillan Pass, Yukon. Geological Survey of Canada, Paper 45-21, 26 p.

Klassen, R.W., 1978. Surficial geology, southern Yukon Territory (NTS 100K-114, 105D-110, 105E-21, 104D-13, 14, 105B, 3-4, 105H, 15, 105C-1, 105A, 105A-3) Geological Survey of Canada, Open File 539 (1:100 000 scale map).

Klassen, R.W., Thorsen, E. and Hughes, O.L., 1978. Surficial geology and terrain evaluation, southern Yukon. In: Current Research, Part A, No. 78-1A, Geological Survey of Canada, p. 465.

Lees, E.J., 1938. Geology of the Teslin-Quat Lake Area, Yukon. Geological Survey of Canada, Memoir 203, Publication 2429, 30 p.

Lees, E.J., 1938. Teslin-Quat Lake area, Yukon Territory. Geological Survey of Canada, Geological Map No. 350A, scale 1:253 440.

Liverton, T., 1980. Test-bearing skarns of the Thimble Range, N.T.S. sheet 105 C: A progress report. In: Yukon Geology, Vol. 3, Exploration and Geological Services Division, Indian and Northern Affairs Canada, p. 52-70.

Lord, C.S., 1944. Geological reconnaissance along the Alaska Highway between Yukon Lake and Teslin River, Yukon and British Columbia. Geological Survey of Canada, Paper 44-25, 21 p.

Monger, J., 1975. Upper Paleozoic rocks of the Allin terrane, northwestern British Columbia and south-central Yukon. Geological Survey of Canada, Paper 74-47, 63 p.

Monger, S.R. and Makenna, K., 1980. Surficial Geology and Soils, Southern Lakes Study, Department of Renewable Resources, Y.T.S., 100 000 scale.

Monger, S.R. and Makenna, K., 1982. Surficial Geology and Soils, Southern Lakes Study, Department of Renewable Resources, Y.T.S., 4 maps, 1:100 000 scale.

"Morison, S.R. and Klassen, R.W. (in prep). Surficial geology, Teslin (105C), Yukon Territory. Geological Survey of Canada, 1:250 000 scale, (NTS 105C, 105D - 4 maps at 1:100 000 scale).

"Mulligan, R., 1963. Geology of Teslin map-area, Yukon Territory (105C). Geological Survey of Canada, Memoir 326, 96 p., Map 1125A, scale 1:253 440.

Mulligan, R., 1964. Metallogeny of the region adjacent to the northern part of the Cassiar Batholith, Yukon Territory and British Columbia (parts of 104D, P and 105B). Geological Survey of Canada, Paper 68-70, 13 p.

Power, M.A., 1995. Notes to prospectors - Jakes Corner Diagen survey interpretation, Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Canada/Yukon Economic Development Agreement, Open File 1995-10(G).

Senyk, J.P., 1979. Surficial deposits and landforms, Neulath River Valley (105C 2.7, 10, 15). Yukon Territory, Canadian Forestry Service (1:50 000 scale).

Stevens, R.A., 1991. The Teslin suture zone in northwest Teslin map area, Yukon. In: Current Research, Part A, Paper 91-1A, Geological Survey of Canada, p. 271-277.

Stevens, R.A., 1992. Regional geology, fabric and structure of the Teslin suture zone in northwest Teslin map area, Yukon Territory. In: Current Research, Part A, Paper 92-1A, Geological Survey of Canada, p. 287-295.

Stevens, R.A., 1995. Geology of the Teslin suture zone in parts of Laberge (105E/1), Quat Lake (105F/4) and Teslin (105C/11, 13, 14) map areas, Yukon Territory. Geological Survey of Canada, Open File 2768.

Strain, L. and Friedrich, G., 1992. Gold sulfidate quartz veins in metamorphic rocks as a possible source for placer gold in the Livingstone Creek area, Yukon Territory, Canada. In: Yukon Geology, Vol. 3, Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 87-88.

Temperton-Kilg, D., 1980. Highlights of field work in Laberge and Carmacks map areas, Yukon Territory. In: Current Research, Part A, No. 80-1A, Geological Survey of Canada, p. 357-362.

Wheeler, J.O., Brookfield, A.J., Gabrielis, H., Monger, J.W.H., Tipper, H.W. and Woodsworth, G.J., 1991. Terrane map of the Canadian Cordillera. Geological Survey of Canada, Map 1173.

Geological Survey of Canada, 1986. Regional stream and water geochemical reconnaissance data, Yukon Territory - 1983. Geological Survey of Canada, Open File 1217.

Gorday, S.P., 1991. Teslin map area, a new geological mapping project in southern Yukon. In: Current Research, Part A, Paper 91-1A, Geological Survey of Canada, p. 177-178.

Gorday, S.P., 1992. Geological bedrock in Teslin map area, southern Yukon Territory. In: Current Research, Part A, Paper 1992-1A, Geological Survey of Canada, p. 279-286.

Hart, J.A., Hart, C.J.R., and Gorday, S.P., 1995. Interpretive geology of the Jakes Corner geophysical survey (1952S, 1052B and 1052D). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Canada/Yukon Economic Development Agreement, Open File 1995-10(G).

Hydrogeological consultants Ltd., February, 1974. A review of groundwater data, Teslin, Yukon Territory. Hydrogeological Consultants Ltd., Edmonton, Alberta.

Indian and Northern Affairs, 1993. Abandoned Mines Assessment, 100C-13-1 (State Mountain). DIAND Technical Services, Yukon Region, Indian and Northern Affairs Canada, p. 465.

Jackson, L.E. Jr., 1984. Terrain inventory and quarry history of the Pelly River area, Yukon Territory. Geological Survey of Canada, Memoir 437, (NTS 105K, 105L, 105G, 105F).

Jackson, L.E. Jr., and Mackay, T.D., 1990. Glacial limits and ice-flow directions of the last Cordilleran ice sheet in Yukon Territory between 50 and 60 degrees north. Geological Survey of Canada, Open File 2329, (NTS 90D, 105A, 105B, 105C, 105D, 115A, 115E, 115F, 115G, 115H, 115I, 115J, 106K, 106L, 105I, 115K).

Jackson, L.E., 1984. Terrain inventory and quarry history of the Pelly River area, Yukon Territory. Geological Survey of Canada, Memoir 437, 41 p. (NTS 105K, 105L, 105G, 105F).

Kindle, E.D., 1945. Geological reconnaissance along the Canal Road, from Teslin River to MacMillan Pass, Yukon. Geological Survey of Canada, Paper 45-21, 26 p.

Klassen, R.W., 1978. Surficial geology, southern Yukon Territory (NTS 100K-114, 105D-110, 105E-21, 104D-13, 14, 105B, 3-4, 105H, 15, 105C-1, 105A, 105A-3) Geological Survey of Canada, Open File 539 (1:100 000 scale map).

Klassen, R.W., Thorsen, E. and Hughes, O.L., 1978. Surficial geology and terrain evaluation, southern Yukon. In: Current Research, Part A, No. 78-