

DESCRIPTIVE NOTES

**PHYSIOGRAPHY**  
The Sprague Creek map area includes the divide between the McCoullin River and the northern part of the Yukon River drainage. The divide is a low ridge, the crest of which is the crest of the McCoullin River drainage. The highest summits in the divide are composed of late Pleistocene glacial till. Other summits are composed of older glacial till, which is generally less than 100 feet in elevation above the divide. The divide is generally 500 to 1000 feet high above the divide. The divide is generally 500 to 1000 feet high above the divide.

**CLIMATE**  
The climate in the Sprague Creek map area is characterized by multiple glacial and interglacial periods. The divide of the divide is composed of late Pleistocene glacial till. The divide is generally 500 to 1000 feet high above the divide. The divide is generally 500 to 1000 feet high above the divide. The divide is generally 500 to 1000 feet high above the divide.

**GLACIAL HISTORY**  
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**GLACIAL HISTORY (continued)**  
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**GLACIAL HISTORY (continued)**  
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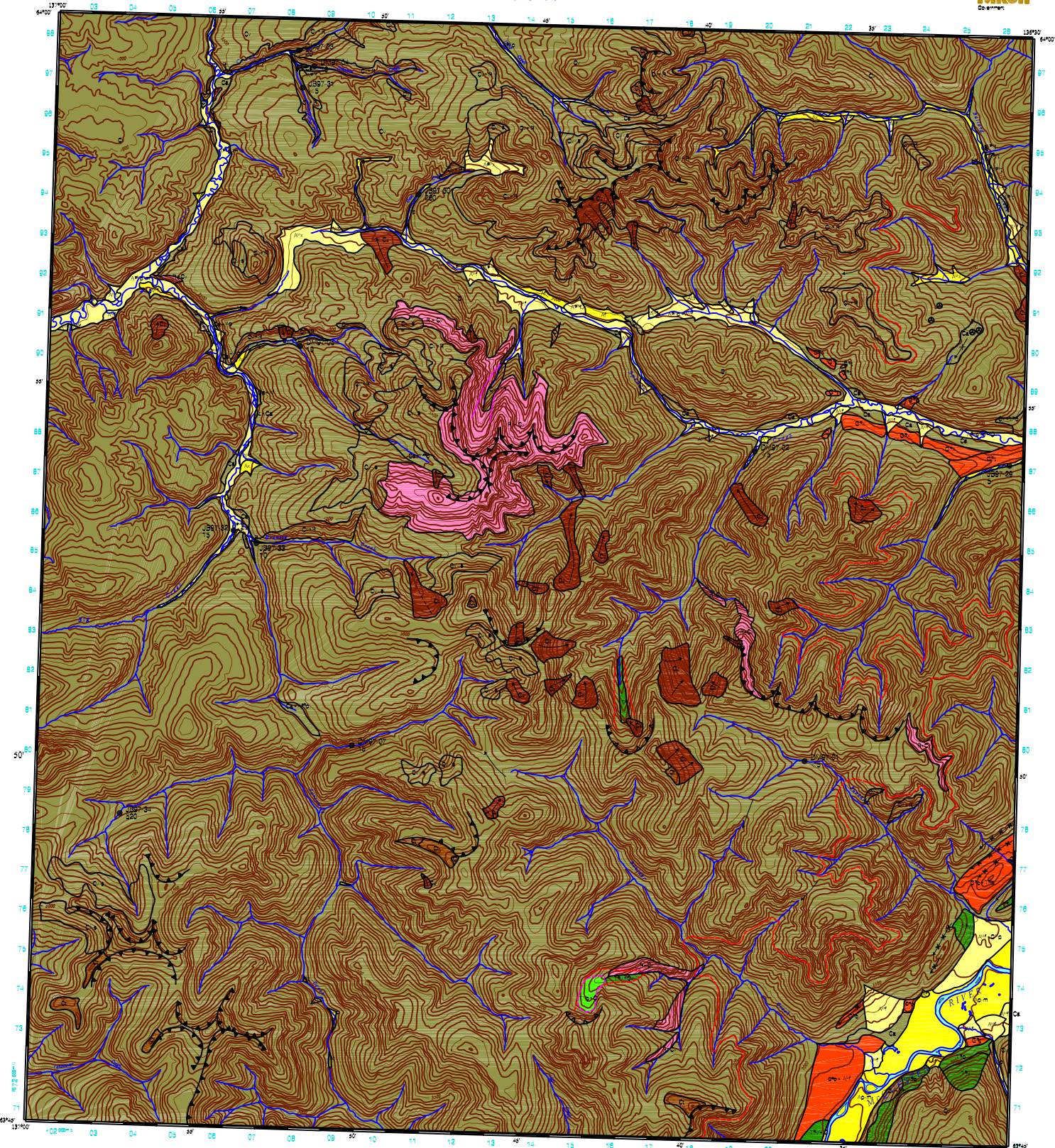
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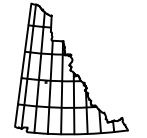
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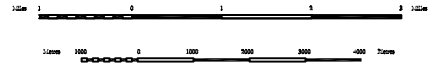
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**SPRAGUE CREEK  
YUKON TERRITORY  
SCALE 1:50 000**



Geological map of Sprague Creek, Yukon Territory, showing various geological units, glacial features, and terrain hazards. The map includes a grid of coordinates and a scale of 1:50,000.



CONTOUR INTERVAL 100 FEET  
Elevation in Feet, 500 = Mean Sea Level  
North Arrow  
Map Projection: UTM

**QUATERNARY HOLOCENE**

**SYMBOLS**

- Geological boundary
- Glacial limit of McConnell Glaciation (defined approx.)
- Glacial limit of Reid Glaciation (defined approx.)
- Circle (McConnell, Reid, Pre Reid)
- Circle (McConnell, Reid, Pre Reid)
- Triangle (McConnell, Reid, Pre Reid)
- Mountain ridge
- Line
- Glacial moraine channel
- Aligned and/or
- Stream sediment (80 mpt gss, 100)

**PLEISTOCENE AND HOLOCENE (UNDIVIDED)**

- Qa: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qb: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qc: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.

**LATE PLEISTOCENE (WISCONSINAN) - MCCONNELL GLACIATION**

- Qw: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qx: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qy: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.

**MIDDLE PLEISTOCENE - PRE-MCCONNELL GLACIATION (UNDIVIDED)**

- Qz: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qaa: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qab: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.

**EARLY PLEISTOCENE - PRE-REID GLACIATION AND INTERGLACIATION**

- Qac: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qad: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qae: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.

**PLEISTOCENE UNDIVIDED**

- Qaf: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qag: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.
- Qah: Alluvial plain, coarse sand and gravel with minor silts and clays, deposited in a broad channel, 10-15 m wide, 1-2 m deep, in a broad channel, 10-15 m wide, 1-2 m deep.

**COMBINED MAP UNITS AND AGE DESIGNATORS**

118 P/13 CLAY CREEK	118 P/14 YUKON CREEK	118 P/15 30th DECEMBER 1995
118 P/16 CLAY CREEK	118 P/17 YUKON CREEK	118 P/18 30th DECEMBER 1995
118 P/19 YUKON CREEK	118 P/20 YUKON CREEK	118 P/21 30th DECEMBER 1995

**REFERENCES**

- BERGER, C.W. 1964. Age of the late Pleistocene glacial till in the Yukon Territory. *Geological Survey of Canada Bulletin* 136: 1-10.
- BIRD, J.D. 1987. The Glacial History and River Course of the Late Pleistocene (McConnell) Glaciation in the Yukon Territory. *Geological Survey of Canada Bulletin* 158: 1-10.
- MURPHY, D.C. and HEDIN, D. 1992. Geology of the Sprague Creek map area, Yukon Territory. *Geological Survey of Canada Bulletin* 181: 1-10.
- MINA, C. 1999. Yukon Map 1:50,000 and Geological Survey of Canada Division of Northern Affairs and Northern Development.

**RECOMMENDED CITATION**

BIRD, J.D. 1988. Surficial geology of Sprague Creek, Yukon Territory. *Geological Survey of Canada Bulletin* 170: 1-10.

Digital cartography and drafting by: Willem Hensen, Yukon Geology Program.

Any reference to additional geological information should be referred to the Yukon Geology Program.

Copies of the map, the accompanying report and Yukon Map 1:50,000 may be purchased from Geological Information and Sales, Exploration and Geological Services Division, Northern Affairs and Northern Development, Yukon Region, Box 1080, Whitehorse, Yukon Territory, Canada. Tel: (867) 336-4111. Fax: (867) 336-4112.

This map was released June 1995. Subsequent editions are available.

**DESCRIPTIVE NOTES (continued)**

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