



**THISLE CREEK (1150/3) and STEWART RIVER (1150/6)**  
YUKON TERRITORY

PROCESSED BY THE SURVEY OF GEOMATICS AND MAPPING  
TRAVERSE 1150/3 AND 1150/6, 1987. BY THE SURVEY OF GEOMATICS AND MAPPING  
DEPARTMENT OF ENERGY AND TECHNICAL SERVICES, OREGON.

Scale: 1:50,000

Map Datum: NAD 83

Map Projection: UTM

Map Scale: 1:50,000

Map Accuracy: ± 10m

Map Date: 1987

Map Author: Survey of Geomatics and Mapping

Map Editor: Survey of Geomatics and Mapping

Map Reviewer: Survey of Geomatics and Mapping

Map Approver: Survey of Geomatics and Mapping

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**LEGEND**

**QUATERNARY/TERTIARY**

- Ap Alluvial deposits, commonly reworked, consisting of typical organic rich sand accumulations on top of sand and gravel.
- Al Alluvial terraces, flat to undulating, braided channel patterns, composed of mixture of loess overlying sand and gravel. Verticals and sand wedges locally present.
- GI Glacial till, flat to undulating, braided channel patterns, composed of mixture of loess overlying sand and gravel. Verticals and sand wedges locally present.

**SYMBOLS**

- Geological contact
- Terrace scarp
- Abandoned channel
- Landslide

**SURFICIAL GEOLOGY AND GEOMORPHOLOGY**

**DESCRIPTIVE NOTES**

This preliminary map is based on 1983 mapping and alpha interpretation. Lower Stewart River valley was mapped by inspection of soil pits, sporadic natural exposures, and a few mining cuts.

The area of the Kibik Plateau is largely unglaciated, however, outwash from the Kibik Plateau is present in the upper reaches of the Stewart River valley. Stewart River valley shows several terrace remnants, some can be related to these glaciations.

The Stewart River valley is dominated by valley bottom alluvium and elevated terraces. Alluvial terraces refer to those which are commonly lying on elevated bedrock terraces along the valley sides. Glacifluvial terraces occur at various elevations in the valley and are more prominent in the upper reaches. These terraces consist of gravel overlying an elevated bedrock surface, same terraces along the valley margins, and valley floor. Soil development on high level terraces was used to assign designations as follows: AI, AP, and GI.

Soil development on high level terraces using the criteria of soil colour, clay skins, thickness, and periglacial features (Morrison and Smith 1987). Some terraces are uncreased and may be as old as tertiary.

Other heavy minerals include magnetite, red garnet, and hematite.

**REFERENCES**

BOSTOCK, H.S., 1966. Notes on glaciation of central Yukon Territory; Geological Survey of Canada, Paper 65-36, 18 p.

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HUGHES, O.L., CAMPBELL, R.B., MULLER, J.E. and WHEELER, J.O., 1969. Glacial limits and flow patterns, central Yukon Territory south of 65 degrees north latitude; Geological Survey of Canada, Paper 69-34, 9 p.

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FULLER, E.A., 1984. High level terraces along lower Stewart River and parts of Yukon River. In: Yukon Exploration and Geology, 1983. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada.

**Recommended citation:**

FULLER, E.A., 1984. Surficial geological map of Stewart River valley, parts of 1150/2, 1150/3, 1150/6, and 1150/7, central Yukon. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1984-8(5), 1:50,000.

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1150/12	1150/11	1150/10
1150/5	1150/6	1150/7
1150/4	1150/3	1150/2

ONE THOUSAND METRE  
UNIVERSAL TRANSVERSE MERCATOR GRID  
ZONE 7