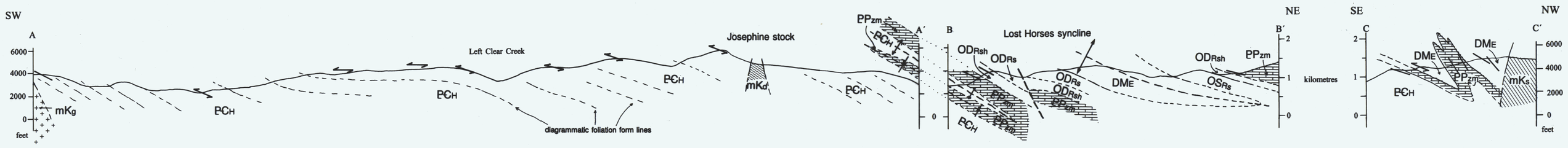


LEGEND

QUATERNARY

Q	Alluvium, colluvium, and glacial deposits. Stipple indicates approximate extent of historical and current placer gold workings.

EARLY CRETACEOUS

Selwyn and/or Tombstone plutonic suite(s)

mKg	Medium- to coarse-grained, locally porphyritic granite
mKqm	Medium-grained, locally porphyritic quartz monzonite
mKqs	Medium- to coarse-grained potassium feldspar-clinopyroxene-biotite-hornblende quartz syenite
mKs	Medium- to coarse-grained potassium feldspar-clinopyroxene-biotite-hornblende syenite
mKd	Fine- to medium-grained diorite
mKp	Fine-grained, locally porphyritic, primarily granitic dykes

DEVONIAN AND MISSISSIPPIAN

Earn Group

DME	Grey to black shale/phyllite, siltstone, sandstone, and chert-pebble conglomerate

ORDOVICIAN, SILURIAN, and DEVONIAN

Road River Group

ODRs	Beige-orange, massive to well laminated, locally ripple cross-laminated dolomitic siltstone
ODRsh	Grey to black shale and thin-bedded chert

UPPER PROTEROZOIC(?), LOWER PALEOZOIC(?)

PPzm	Laterally persistent calcareous phyllite, thin- to medium-bedded marble/dolomitic marble, and rare limestone-pebble conglomerate; cherty calcsilicate rock near intrusions

Hyland Group

PCH	Prominently foliated and lineated muscovite-chlorite phyllite, quartzofeldspathic and micaceous psammite, gritty psammite, rare calcsilicate and marble
PCHc	

SYMBOLS

- Geological contact (defined, approximate, assumed)
- Fault (defined, approximate, assumed, assumed under cover)
- Limit of outcrop
- Axial surface trace (defined, approximate; upright anticline, overturned anticline, upright syncline, overturned syncline)
- Bedding (upright, overturned, facing unknown) — 15, 20, 40
- Foliation, mineral or clast-elongation lineation (amount and direction of plunge indicated; one tick mark indicates earliest phase of deformation; two tick marks indicates second phase of deformation) — 35; 22, 14
- 11. Mineral occurrence as enumerated in Yukon Minfile
- A — A Line of cross-section
- bx Breccia zones
- Summer road

MINERAL OCCURRENCES[1]

Intermediate and Felsic Intrusion Associated

11. JOSEPHINE	W-Au
12. RHOSGOBEL	W-Au
13. PUKELMAN	W-Au
34. BARNEY	W-Sn

Skarn, Greisen

47. ZETA	Sn-Ag greisen

Stratabound

45. OMEGA	bedded Ba

Vein

23. LEWIS	Au in quartz vein

Work Targets

29. Unnamed
35. Unnamed
40. Unnamed
55. Unnamed
60. Unnamed

[1] Yukon Minfile reference numbers for 115P/14.

Acknowledgements

The authors would like to thank Grant Abbott and Charlie Roots for discussions of the geology of this region; Will Thomson and Glen Guenter of Trans North Air for efficient and uneventful flying; Lise Thomson of Mayo for expediting services and hospitality; Rod Hill, Gill McDougall, and Lori Walton for expediting and logistical help; and Nels Harper for help with access to the area and discussions about the placer occurrences in Clear Creek.

This paper accompanies the following report:

MURPHY, D.C., HÉON, D., and HUNT, J., 1993. Geological overview of Clear Creek map area, western Selwyn Basin, (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada.

Recommended citation:

MURPHY, D.C., HÉON, D., and HUNT, J., 1993. Geological map of Clear Creek map area, western Selwyn Basin, Yukon (NTS 115P/14). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open-File 1993-1 (G), 1:50 000.

ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 8

The nomenclature on this map has not been submitted to the Canadian Board on Geographical Names and may be subject to revision. Information on names is provided by the Surveys and Mapping Branch.

Produced and printed by the Surveys and Mapping Branch, Department of Mines and Technical Surveys, 1961, from air photographs taken in 1949 and 1953.

CLEAR CREEK

YUKON TERRITORY

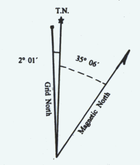
SCALE 1:50 000 ÉCHELLE

Miles 0 1 2 3
Kilometres 0 1 2 3 4
Yards 1000 0 1000 2000 3000 4000

CONVERSION SCALE FOR ELEVATIONS
30 20 10 0 50 100 150 200 250 300 Metres
100 50 0 100 200 300 400 500 600 700 800 900 1000 Feet

CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum
Transverse Mercator Projection

MAGNETIC DECLINATION 33° 05′ EAST
AT CENTRE OF MAP 1961
Annual change (decreasing) 4′



APPROXIMATE MEAN DECLINATION 1961
FOR CENTRE OF MAP

116A/3	116A/2	116A/1
115P/14 This study	115P/15 1993 (proposed)	115P/16 1994 (proposed)
115P/11	115P/10	115P/9

Indian and Northern Affairs Canada
Exploration and Geological Services Division
Yukon Region

Open File 1993 - 1 (G)

GEOLOGICAL MAP OF CLEAR CREEK MAP AREA, WESTERN SELWYN BASIN, YUKON (115P/14)

by

Donald C. Murphy, Danièle Héon, and Julie Hunt
Canada/Yukon Mineral Development Agreement
Geoscience Office

Copies of this map, the accompanying report (in Yukon Exploration and Geology 1992), and Yukon Minfile may be obtained from Canada Map Office, Exploration and Geological Service Division, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon Y1A 3V1 (403-667-3204; FAX: 403-668-2176).