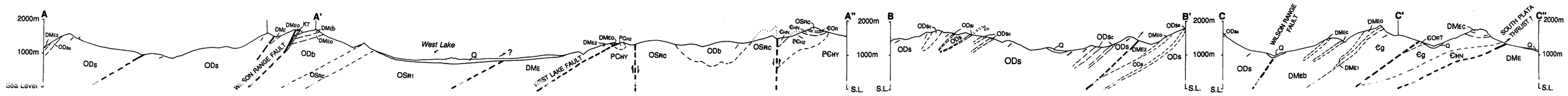
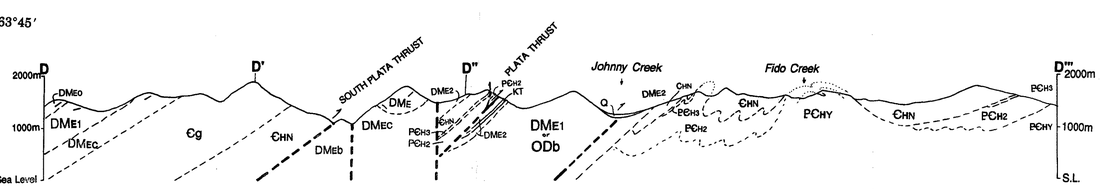
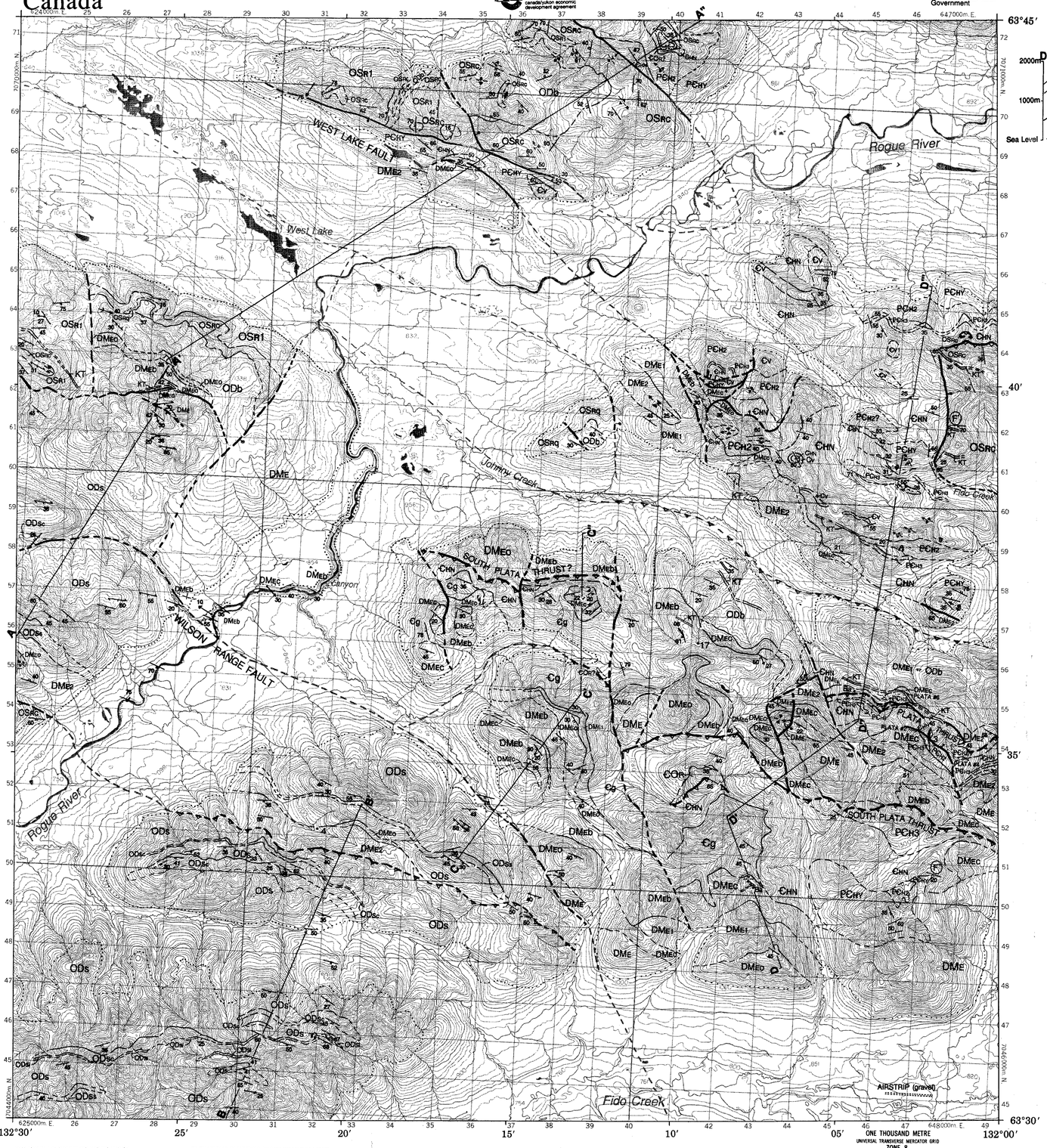




Canada

Yukon Government

canada/yukon economic development agreement



LEGEND

QUATERNARY

Q — Unconsolidated glacial drift and moraine, colluvium and alluvium.

CRETACEOUS or TERTIARY

KT — Biotite quartz feldspar porphyry rhyolite dykes.

UPPER DEVONIAN TO MISSISSIPPIAN

EARN GROUP
Undifferentiated

DME — Undifferentiated

DME2 — Dark grey to black siltstone and shale (includes minor DMEb).

DME1 — Brown siltstone, fine sandstone and grey phyllitic argillite.

(The following lithologic units (lettered suffix) are not in stratigraphic order)

DMEo — Chert pebble conglomerate, silicified and bleached chert.

DMEb — Blue-grey weathering, sooty and graphitic siltstone.

DMEc — Thin-bedded black chert.

- - - *unconformity* - - -

ORDOVICIAN? to DEVONIAN? (possibly upper part of **Road River Group**)

ODs — Dark grey siltstone and shale, phyllitic brown siltstone and khaki phyllite with resistant beds of:

- **ODsc** — Green and grey chert
- **ODsl** — Grey limestone
- **ODss** — Quartz sandstone

ODb — Brown-weathering siltstone and dark brown, thin-bedded shale; minor ripple-laminated fine sandstone, isolated black chert beds.

ORDOVICIAN-SILURIAN

ROAD RIVER GROUP
Medium-bedded black quartzite, black cherty siltstone.

OSRq — Medium-bedded grey, white and green chert with dark-grey siltstone interbeds.

OSR1 — Brown phyllitic siltstone, light green argillite, brown mudstone, minor orange-weathering dolostone.

CAMBRIAN-ORDOVICIAN

RABBITKETTLE FORMATION

€OR — Nodular, thin-bedded limestone and wispy laminated limy phyllitic sandstone, grey siltstone and limestone with black shale chips, chloritic sandstone at top.

- - - *unconformity* - - -

MIDDLE or LATE CAMBRIAN

€g — Dark green-brown siltstone with siliceous and mafic clasts, brown mudstone breccia with purple quartzite lenses, locally green phyllitic claystone at top, minor grey dolosiltstone at base.

CAMBRIAN (?)

€v — Vesicular, feldspar-phyric mafic flows, locally pillowed, mafic tuff interbedded with orange- and brown-weathering silt- and sandstone (Unit Cav of Cecile and Abbott, 1992).

LATE PROTEROZOIC TO MIDDLE CAMBRIAN

HYLAND GROUP

€HN — **Narchilla Formation:** Maroon and green argillite, brown shale and siltstone (Unit €ma of Cecile and Abbott, 1992).

P€H3 — Medium to thick bedded grey limestone (Unit Hl_3 of Cecile and Abbott, 1992), local intraformational limestone conglomerate.

P€H2 — Maroon and green mudstone-argillite interbedded with light-weathering medium-bedded sandstone (Unit HCma of Cecile and Abbott, 1992).

P€HY — **Yusezyu Formation:** Quartz grit and sandstone. Thin-bedded with limy matrix. Coarse grit contains kaolinized feldspar granules. (North of Plata a 25 m thick band of medium bedded limy sandstone with limestone interbeds in this unit matches Hl_3 of Cecile and Abbott (1992).

SYMBOLS

- Limit of outcrop
- Geological boundary (defined, approximate, assumed)
- Bedding (inclined, overturned, tops unknown) — 60 60 60
- Foliation (inclined), Lineation (cleavage intersection, fold axis) — 65 25
- Minor fold axis showing direction of plunge
- Anticline, syncline; overturned anticline and syncline
- Fault (defined, approximate, assumed)
- Normal fault (ball on downthrown side)
- Thrust (teeth on upper plate)
- Fossil locality (Graptolites, Oldhamia) — F
- Mineral Occurrence (Minfile #, Barite) — F 3 *17 *Ba
- Line of Cross-section — A A'

MINERAL OCCURRENCES*

3. PLATA (Ag,Pb,Au-vein)
4. ROGUE (orange gossan)
17. FLATASA (Ag,Pb silt anomaly)

* These mineral occurrences are described in YUKON MINFILE (INAC, 1992).

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This map accompanies:
Roots. C. and Brent, D. 1994. Geological Framework of West Lake map area (NTS 105N/9) Hess Mountains, East-central Yukon, In: Yukon Exploration and Geology, 1993, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada.

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ELEVATIONS IN METRES ABOVE MEAN SEA LEVEL

CONTOUR INTERVAL ..... 20 METRES

NORTH AMERICAN DATUM 1927

TRANSVERSE MERCATOR PROJECTION

INFORMATION CONCERNING BENCH MARKS AND HORIZONTAL SURVEY MONUMENTS CAN BE OBTAINED FROM GEODETIC SURVEY, SURVEYS AND MAPPING BRANCH, OTTAWA.

WEST LAKE

YUKON TERRITORY TERRITOIRE DU YUKON

Scale 1:50 000 Échelle

Miles 1 0 1 2 3 Milles

Metres 1000 0 1000 2000 3000 4000 Mètres

105 N/15	105 N/16	105-O/13
105 N/10	105 N/9	105-O/12
105 N/7	105 N/8	105-O/5

ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 8
QUADRILLAGE DE MILLE MÈTRES
TRANSVERSE UNIVERSEL DE MERCATOR

The 1994 MAGNETIC BEARING is 30°26′ (541 mils) EAST of GRID NORTH.

ANNUAL CHANGE DECREASING 7.5′

GRID NORTH is 2°28′(44 mils) EAST of TRUE NORTH for centre of map.

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

Energy, Mines and Resources Canada — Énergie, Mines et Ressources Canada

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

Open File 1994-5 (G)

GEOLOGICAL MAP OF WEST LAKE MAP AREA (105N/9)
HESS MOUNTAINS, EAST-CENTRAL YUKON

by

Charlie Roots and Diane Brent
Canada-Yukon Geoscience Office

Copies of this map, Yukon MINFILE and Yukon Exploration and Geology may be obtained from the Canada Map Office, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Whitehorse, Yukon, Y1A 3V1 Phone (403) 667-3204.