

LEGEND

TERTIARY

Tv1 small stocks and necks of white weathering, flow-banded, rhyolitic, quartz-sandstone porphyry

MID-CRETACEOUS

Ksf South Fork Volcanics: dark brown weathering, locally columnar jointed, massive, densely welded, biotite-quartz-hornblende-feldspar crystal tuff

Ks Selwyn Plutonic Suite: grey weathering, resistant, medium- to coarse grained, locally megacrystic (K-spar), biotite + hornblende + muscovite granite, quartz monzonite and granodiorite; Ks1, plutons without hornblende; Ks4, fine grained, mafic-free, granite with disseminated pyrite

TRIASSIC

Tj Jones Lake Formation: brown weathering, medium- to thick-bedded, calcareous siltstone, sandstone and shale, ripple cross-laminated; massive light grey weathering, fine crystalline, dark grey limestone

PERMIAN

Pc Mount Christie Formation: resistant, orange to buff weathering, thin- to medium-bedded, light grey-green to black chert

DEVONO-MISSISSIPPIAN

EARN GROUP

DMe undivided Mc, Dmp, minor Dp

Ms recessive, dark brown weathering, thin- to medium-bedded, calcareous, dark grey to brown siltstone, sandstone and shale; thin to thick interbeds of fine crystalline, dark grey limestone; local light grey weathering, thick bedded to massive, dark grey, bioclastic limestone

Mc Crystal Peak Formation: resistant, dark grey weathering, massive chert-pebble conglomerate and chert quartz sandstone; minor brown weathering, dark blue-grey shale

Dmp Prevost Formation: recessive, brown weathering, thin bedded, laminated, dark blue-grey to black slate and thin to thickly interbedded fine- to medium-grained chert, quartz arenite and wacke, and chert-pebble conglomerate

Dp Portrait Lake Formation: black, gun-blue or silvery white weathering, thin bedded, siliceous, black siltstone, slate and chert; minor quartz arenite

ORDOVICIAN AND SILURIAN

ROAD RIVER GROUP

Ss Steel Formation: orange weathering, thin bedded, burrowed, dolomitic, grey-green mudstone, siltstone and chert; thin bedded black chert; rare black graptolitic shale

OSd Duo Lake Formation: resistant, grey weathering, thin- to medium-bedded, light grey to black chert; recessive, gunsteel weathering, black graptolitic shale

CAMBRO-ORDOVICIAN

EOv resistant, dark weathering, massive, locally pillowed, dark grey-green basalt, tuff and breccia

EOt resistant, dark grey weathering, massive to laminated, blocky, white to light grey quartzose siltstone and chert and rare black slate; strikingly laminated, very fine grained tuffaceous siltstone and chert; minor grey phyllitic limestone, calcareous phyllite, and greenstone

EOr Rabbitkettle Formation: grey-buff weathering, laminated to thin bedded, locally nodular, shaly limestone to calcareous phyllite

- Limit of outcrop
- - - Geological boundary (defined, approximate, assumed, extrapolated beneath overburden where exposure warrants)
- + + + Bedding (horizontal, inclined, vertical, overturned, tops unknown)
- + + + Foliation (inclined, vertical)
- - - Wrinkle lineation, axis of small scale fold (inclined, horizontal)
- - - Fault, steeply dipping (defined, approximate, assumed, extrapolated beneath overburden; barb on downthrown side)
- - - Fault, thrust (defined, approximate, assumed, extrapolated beneath overburden, overturned; teeth on upper plate)
- - - Fault, transcurrent (defined, approximate, assumed, extrapolated beneath overburden; arrows indicate slip)
- - - Anticline (defined, approximate, assumed, extrapolated beneath overburden)
- - - Syncline (defined, approximate, assumed, extrapolated beneath overburden)
- - - Anticline, syncline (overturned)
- - - Mineral occurrence (showing, work target)
- - - Fossil locality
- (ODs) + Outcrop not present, map unit inferred (italic map unit symbols)

NOTES

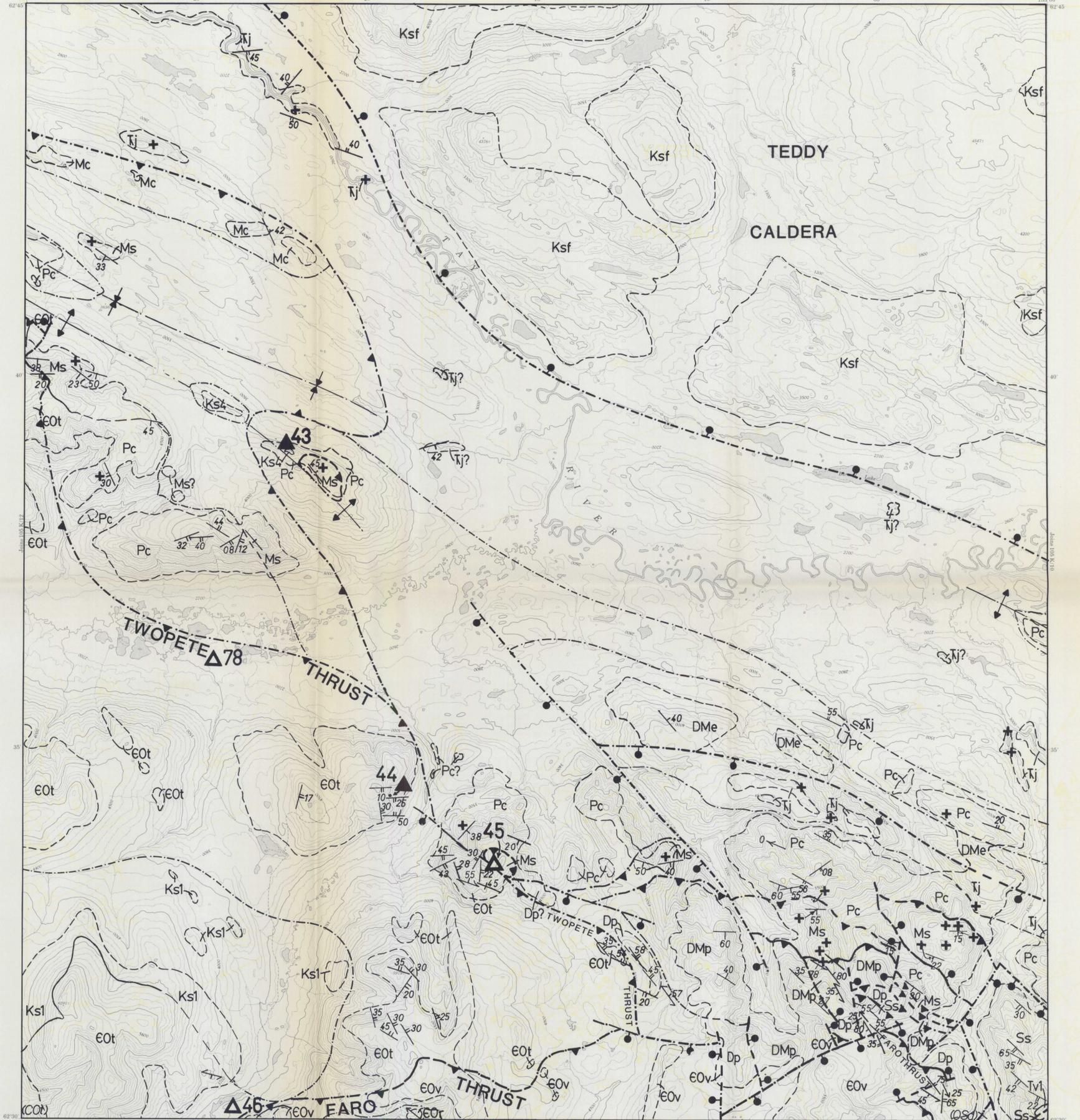
- 1) contacts are extrapolated, where exposure warrants, on basis of assumed simple structure
- 2) mineral occurrence numbers follow convention in Yukon Exploration 1987, Exploration and Geological Services Division, Dept. Indian and Northern Affairs, Yukon
- 3) only those formations or members occurring in map area are indicated in legend; for stratigraphic relationships, full legend, acknowledgements and sources of information see sheet 1
- 4) not all structural features indicated in legend may occur in map area

MINERAL OCCURRENCES

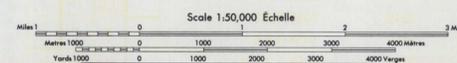
NO.	TYPE	NAME	DESCRIPTION
43	Pb,Zn,Cu,Ag	Owl	sphalerite, galena, chalcopyrite, and arsenopyrite in veins
44	Pb,Zn,Cu	Keglovic	disseminated sphalerite, pyrrhotite, galena and chalcopyrite; also as veinlets.
45	work target	Ivan	
46	work target	Shannon	
78	work target	Irma	

work target: information not available or mineralization not yet found in outcrop; may cover geochemical or geophysical anomalies or areas of mineralized float

Geology by S.P. Gordey 1982, 1983, 1985, 1986



BARWELL LAKE
YUKON TERRITORY



OPEN FILE #	AREA
2249	105K/1,2,3
2250	105K/4,5,6
2251	105K/7,10,11

10
5 6 7
4 3 2 1

105K/11