Canada

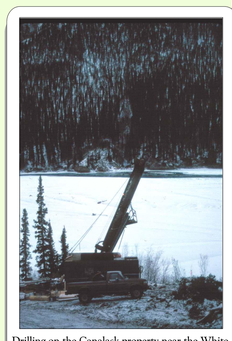
YUKON GEOLOGY PROGRAM

Yukon Government

Yukon Platinum

Occurrences & Potential

Beaufort Sea



Drilling on the Canalask property near the White River by Archer, Cathro and Associates (1981) Ltd. during their1995 exploration program. A 1973 drill hole intersected 3 m of 1.8 gpt Pt+Pd, 0.94% Ni and 0.33% Cu.

Stewart Harris (Equity Engineering) points to the massive strataform sulphide horizon on Blackstone Resource's Taiga property hosted in Earn Group black shales. Samples from this unit returned values up to 5.21% Ni and 904 ppb combined Au+PGE.

Hydrothermal barite mound in Earn Group strata on Taiga property. Drill intersections through this section returned 25.5m of 0.51% Ni and 0.41% Zn.

Selected units with PGE potential

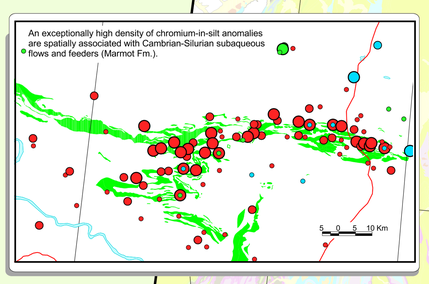
KP1,KuP2,KtL, LKuP1,KuP	Late Cretaceous Carmacks Group intrusions
EJyL	Jurassic alkalic intrusions
MJgB	
TrG	Triassic Galena suite mafic intrusions
PTrK1,2	Triassic Kluane ultramafic suite
CTrC1	Mississippian - Permian Cache Creek Group ultramafic rocks
CRA1,4,5	Devonian - Permian Yukon-Tanana/Slide Mountain ultramafic rocks
DME	Devonian - Mississippian Earn Group black clastic rocks
CSM1-7	Cambrian-Silurian Marmot Formation volcanic rocks

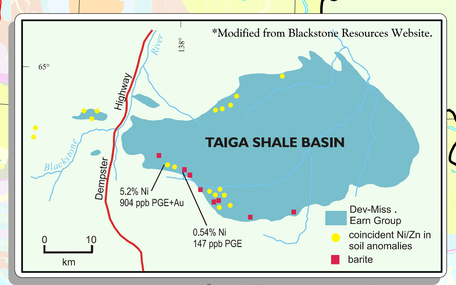
Units from Yukon Digital CD - Gordey & Makepeace, 1999.

Stream Silt Anomalies

	ppm	Cumulative %	# of Occurrences
Nickel	183 - 260	98.0%	147
	261 - 338	99.0%	80
	339 - 892	99.5%	67
Cobalt	40.6 - 51.4	97.9%	123
	51.5 - 65.7	98.8%	77
	65.8 - 389	99.3%	60
Chromium	213 - 302	97.6%	121
	303 - 421	98.8%	77
	422 - 2021	99.5%	51
Coincident Nickel / Copper	Ni 191+ Cu 109+	98.2% 98.2%	109

Calculated from Geological Survey of Canada, National Geochemical Reconnaissance.





Lisa Tulk taking notes on highly mineralized, rusty weathering marginal gabbro ore zone at the Spy showing on Klu Property where a 1.0 m chip yielded 7.07 gpt Pt, 1.34 gpt Pd, 0.69 ppm Au, 0.45% Cu and 0.16% Ni.

Gravity

> -35
-45 to -35
-50 to -45
-60 to -50

Units are milligals from GSC Open File 2525.

Santoy Resouces examine trench through Sweet Sixteen zone on their Klu property during exploration during 2000 field season were a 1.2 m chip yielded 1.85 gpt Pt, 1.55 gpt Pd, 1.07 Au and 0.12% Cu.

Rusty weathering highly mineralized marginal gabbro in footwall sill at the Wellgreen deposit. With a production of approximately 0.36 Mg Pt+Pd and a resource of approximately 42,415 kg Pt+Pd, the Wellgreen is the Yukon's largest PGE deposit. Smiling Trevor Bremner for scale.

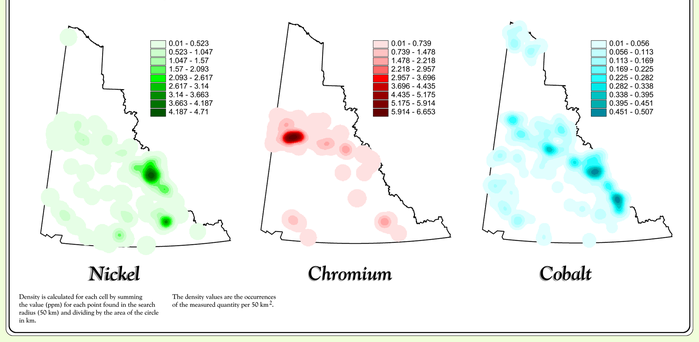
Minfile Occurrences

Name	Minfile#	Deposit Type	Major	Minor
Stride	115A 037	Alaskan type	Cr, Fe	Pt
Arch		Kluane type	Ni, Cu, PGE	
Pickhandle	115F 043	Kluane type	Cu, Ni	
Dickson	115G 005	Kluane type	Ni, Cu, Pt, Co	
Destruction	115G 006	Kluane type	Ni, Cu, Co, Pt	
Kluane	115G 099	Kluane type	Cu, Ni, PGE	
Wash	115G 100	Kluane type	Ni, Cu, PGE	Au
Linda	115G 094	Kluane type	Ni, Cu, PGE	Au
Glen	115G 016	Kluane type	Ni, Cu	Au
Canalask	115F 045	Kluane type	Ni, Cu, PGE	
Swede Johnson	115G 027	Kluane type	Au	
Wellgreen	115G 024	Kluane type	Ni, Cu, PGE	Co, Zn, Au
Airways	115G 025	Kluane type	Ni, Cu, PGE	Co
Congdon	115G 003	Kluane type	Ni, Cu, PGE	Pb, Zn
Yellow	115K 105	Kluane type	Cu	
Onion	115K 077	Kluane type	Ni, Cu, Mo	Au, PGE
Epic	115F 047	Kluane type	Cu, Mo	PGE
Mansfield (BC)		Kluane type	Ni, Cu, PGE	
Lindsay	105C 022	Ophiolitic ultramafic	Cu, Ni	Au, Ag
Squanga	105C 012	Ophiolitic ultramafic	Cr	Pt
TOG	105C 028	Ophiolitic ultramafic	Au	Cr
Marsh	105D 069	Ophiolitic ultramafic	Au	Ni, Co, Cu, W
Michie	105D 071	Ophiolitic ultramafic	Cr	asbestos
Military (Phil)	105D 178	Ophiolitic ultramafic	Cr	Au
Pyroxene	115O 116	Alaskan-type intrusive	Pt	
Sato	115H 021	Porphyry	Cu	Mo
Dunite Moutain	105F 005	Ophiolitic ultramafic	Cr	asbestos
Tam (Falcon)	105I 044	Stratiform	Zn, Ni	
Drizzle (Jet)	105O 023	Stratiform	Ba	Zn, Cu, Pb
Niddery (Jet)	105O 005	Stratiform	Zn, Ni	Ag, Ba, Cu
Sanguinetti (Taiga)	116A 024	Stratiform	Ba	Zn, Pb, Cu, V
Rein (Taiga)	116B 128	Stratiform	Ba	Zn, Pb, Cu, V
Nick	106D 092	Stratiform	Ni	PGE, Zn, Mo
Porphyry	106C 013	Wernecke Breccia	Cu, Fe	Cr
Nick	106D 092	Stratiform	Ni	PGE, Zn, Mo
Barker Creek		Placer	Au, Pe	
AR		Kluane - type	Ni, PGE	Cu
Swede Johnson Creek		Placer	Pt, Au	
Spy - Klu		Kluane - type	Ni, Cu, PGE	Au
Florence Creek		Placer	Pt, Au	

△ Alaskan-type intrusion
△ Ophiolitic ultramafic
▲ Porphyry
✱ Placer
△ Stratiform
△ Kluane - type
△ Wernecke Breccia

Occurrences with MINFILE numbers from Yukon MINFILE, 1997.
Occurrences without MINFILE numbers, see accompanying text.

Density of Geochemical Anomalies (ave. value/50km²)



Density is calculated for each cell by summing the value (ppm) for each point found in the search radius (50 km) and dividing by the area of the circle in km.

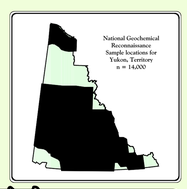
The density values are the occurrences of the measured quantity per 50 km².

Scale 1:1,000,000

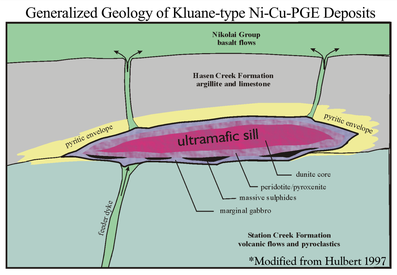
50 0 50 100 150

kilometres

Projection: Albers Equal-Area Conical
Central Meridian W132° 30'
Reference Latitude N 59° 00'



Generalized Geology of Kluane-type Ni-Cu-PGE Deposits



*Modified from Hulbert 1997

Alaska (U.S.A.)

Northwest Territories

British Columbia

Taiga
Reid
Sanguinetti
Nick
Porphyry
Craig
Dawson
Robert Service Fault
Thrust
Tintina
McQuesten
Mayo
Barker Creek
Pyroxene Mountain
Macmillan Pass
Niddery
Drizzle
Tam (Falcon)
Carmacks intrusions
Minto
Tatlmain Lake
Beaver Creek
Wellesly Lake
Apex Mtn.
Mt. Pitts
Big Creek Batholith
Miller's Ridge
Carmacks
Faro
Yellow
Onion
Epic
Canalask
Pickhandle
Denali
Florence Ck placer Pt
Big Salmon
Ross River
Tungsten
AR
Swede Johnson
Airways
Wellgreen
Linda
Arch
Wash
Glen
Destruction
Kluane
Dickson
Congdon
Spy
Sato
Tintina
Teslin
Dunite Mountain
Haines Junction
Stride
Pyroxenite Creek Intrusion
Whitehorse
Michie
Marsh
Squanga
TOG
Military (Phil)
Lindsay
Logtung
Watson Lake
Mansfield
Cassiar

1 2 3 4 5 6 7 8A 8B 9 10 11 12A 12B 13 14 15

65° 64° 63° 62° 61° 138° 136° 134° 132° 130° 128°

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

Open File 2001-2

Platinum Potential in Yukon

by
Craig J. R. Hart, Mike Burke and Gary Stronghill

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Topographic data produced by Surveys and Mapping Branch, Department of Energy, Mines and Resources.

Discussions with, Grant Abbott, Daniele Heon, Don Murphy, Rob Carne and Maurice Colpron have helped to improve the information on this map.

References and additional text accompany this open file.

Copies of this map, the accompanying report as well as other Yukon Geology Program publications can be obtained from Geoscience Information and Sales
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