

MIDWAY

*Geology and mineral deposits at the Midway prospect (104O 038, 1.19 million tonnes at 410 g/t Ag, 7.0% Pb, 9.6% Zn) was studied on June 21-24. Pat McAndless and Steve Robertson of Imperial Metals were gracious hosts as they employed a broad range of expertise to bring the company "up to speed" and develop new targets. JoAnne Nelson, Geological Survey Branch, provided an excellent review of regional geology and mineralization. Peter Lewis (structural consultant) and manto expert (Jim Lang- Mineral Deposit Research Unit at UBC) also participated. Midway was discovered by accident in 1982 during exploration of the Earn basinal shale/siltstone for a sedex zinc-lead deposit. Silver-lead-zinc manto and chimney deposits are developed in the underlying mid-Devonian McDame limestone, in association with karsting, below an unconformity overlain by the Earn group. Mineralization, dated at 70 Ma, is believed to be derived from a poorly exposed intrusive suite along the eastern margin of the Cassiar batholith. Midway lies on a well defined 15 km northwest trend of vein, skarn and porphyry showings, part of the Rancheria district that extends into southern Yukon. An intrusion is postulated to underlie a gossan zone (2000 m X 400 m) and coincident magnetic anomaly (800 m X 200 m) centred on "Brinco Hill" located 1.5 km southwest of the Silver Creek and Discovery deposits. The Silver Creek zone averages 10 m thick by 80 m width and is a more attractive target than the Discovery zone which is 2-4 m thick by 150 m wide. Drilling within the \$2 million program aims to expand known ore zones and explore for new deposits:

- Silver Creek North- 7 holes proposed (two completed)
- Silver Creek South- 9 holes proposed (one completed, a 15 m massive sulphide intercept, best ever at Midway!)
- Discovery North- 2 holes proposed
- Silvertip Ridge- 5 widely spaced holes to follow up two ore grade intercepts
- Brinco Hill- 5 widely spaced holes proposed.

An innovative seismic reflection technique developed at UBC looks promising (from 2 test lines) to locate the Earn/McDame unconformity and sulphide zones at the unconformity or within the McDame. More seismic lines will be run. Controls of mineralization and shape of rich chimney and manto pods is obscure. Karst breccias may be well mineralized or barren.

Showings in the area were examined and prioritized during my visit: Nancy (104O 013), Berg (104O 015), Amy (104O 004) Silverknife (104O 048) and Silvertip (104O 003). Others were to be examined by Rad Pesalj of Imperial Metals. Silvertip, part of the Midway property, appears the most promising.

Kutcho
Ck. (West)

*Kutcho project was visited with Rob Wilson and Gary Belik of Atna Resources on June 25. About 30 km of UTEM had been completed and the first drill hole was underway. An anticline-syncline pair has been traced west from the Kutcho Creek VMS deposit (14.3 million tonnes at 1.76% Cu, 2.54% Zn, 35 g/t Ag, 0.37 g/t Au) onto Atna's property. The thick, felsic dominated volcanic sequence is thought to be Permian to lower Triassic. Three rhyolite flow/dome to pyroclastic events are recognized, with the exploration target being stratigraphic breaks marked by overlying argillite or chert-pyrite exhalite. UTEM utilizes too wide a spacing to resolve whether sulphides are present near graphitic argillite and a MaxMin EM survey is being run. The property has an impressive thickness of quartz porphyritic rhyolite, but no evidence (yet) of significant sericite alteration such as was observed in an inspection of Kutcho Creek core.

*Visited Robin Day, prospector on P.A. program on June 27. His target is a copper-gold porphyry associated with an altered felsic stock (Nanika or Bulkley?) inferred to be 1.5 by 2 km in size. Abundant pyrite and traces of chalcopyrite occur as disseminations and less common fracture fillings. Two northeasterly breccia dikes were observed. Silts are anomalous in Cu, Pb, Zn and Au.

Wojdak - June '97 MR