

000261

Ddhaw Ghro HPA

2000 Fieldwork Update

Anna Fonseca

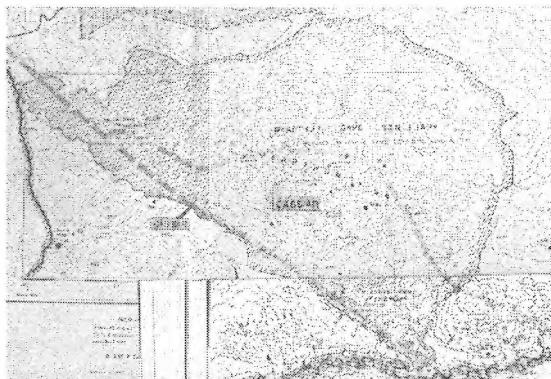
YTG Mineral Resources Branch

Status

- **2000 field season**
 - **6 days, 2 geologists, 2 camps**
 - **define logistics for 2001 season**
 - **good initial understanding of working conditions, geology, mineral occurrences**
- **Mineral Assessment - Spring 2002**
 - **2 field seasons**
 - **full compilation of existing data**
 - **new mapping and sampling**

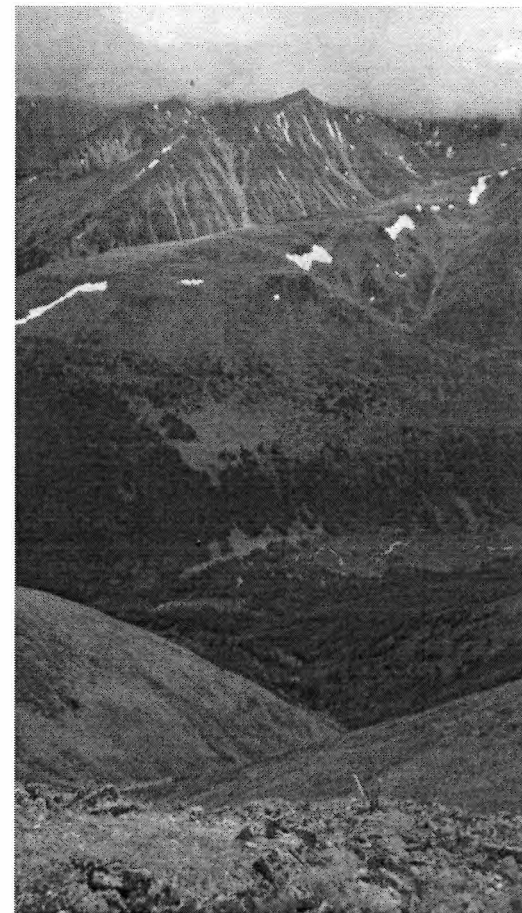
McArthur Game Sanctuary

Proposed
McArthur Range
Ecological
Reserve #10-21



MINFILE Maps

- Map notation since 1972
- Proposed IBP site (1974)
- Withdrawn from disposition August 1997 (expired August 2000)
- Withdrawal extended for a further 5 years
- 2 regional mineral exploration projects since map notation in place
- No active quartz or placer claims



Ddhaw Ghro SMA Location and Access

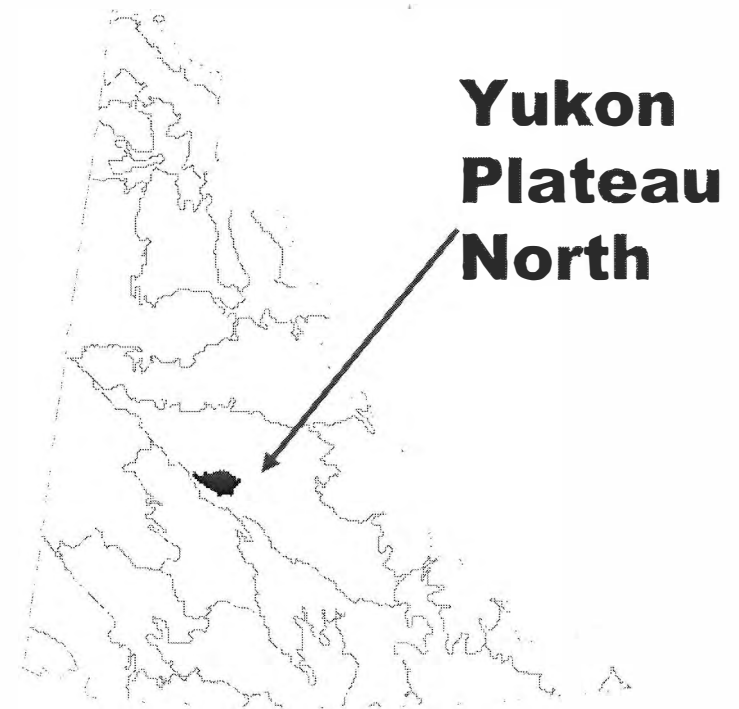


Ddhaw Ghro SMA



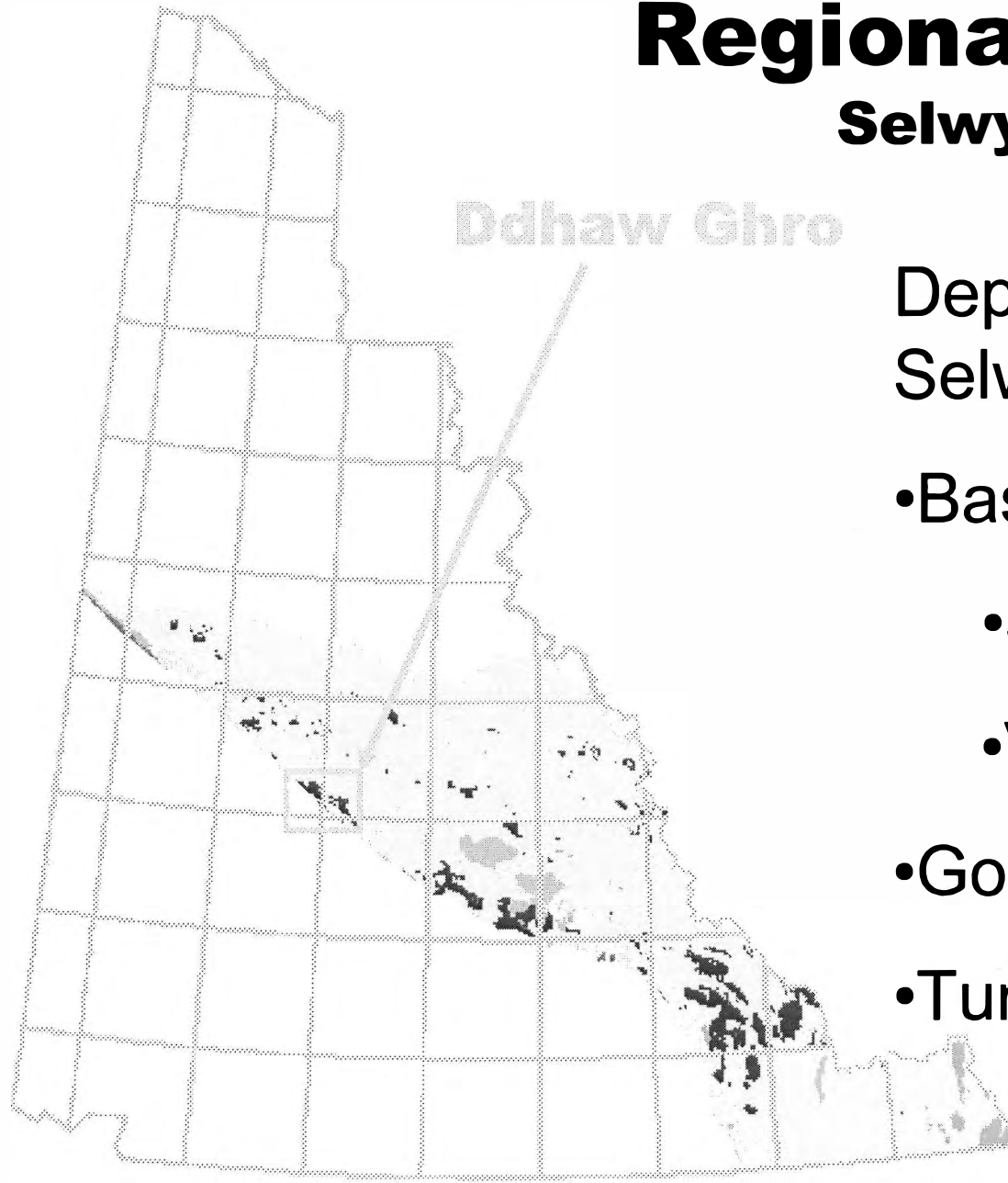
Ddhaw Ghro SMA

Traditional Territories and Ecoregions



Regional Geology

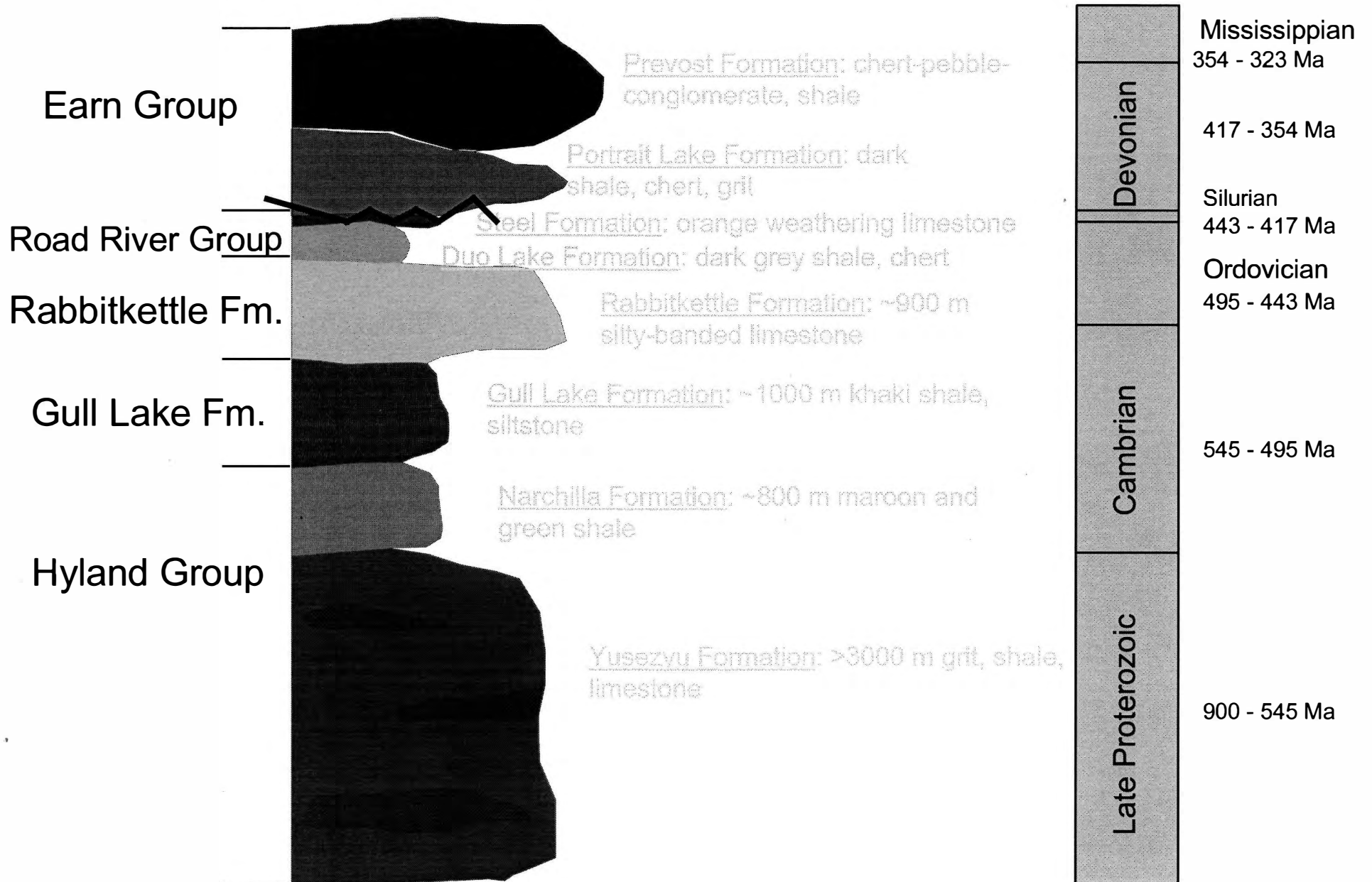
Selwyn Basin



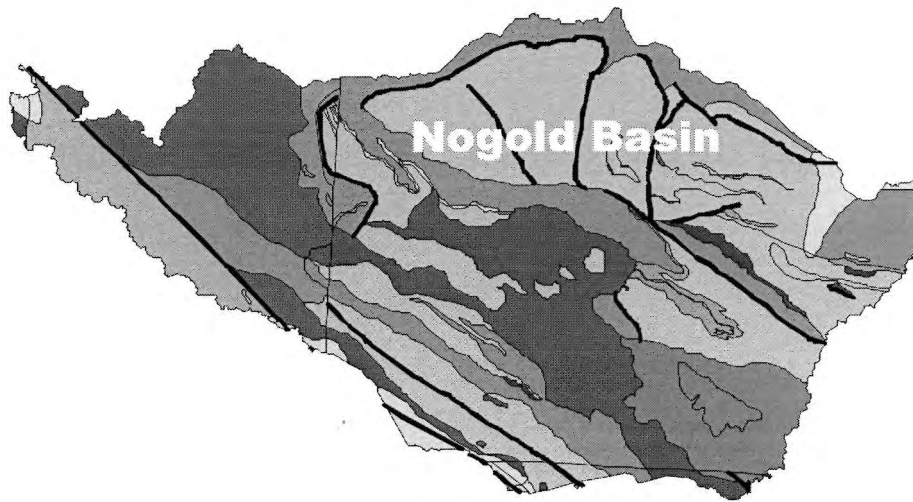
Deposit types typical of Selwyn Basin:

- Base metals (Cu, Pb, Zn)
 - Sedex
 - VMS
- Gold
- Tungsten, molybdenum

Selwyn Basin Paleozoic Strata and Ages



Regional Geology



Intriguing map relationships:

- contacts between Grey Hunter Creek and Sideslip Creek (missing regional units)

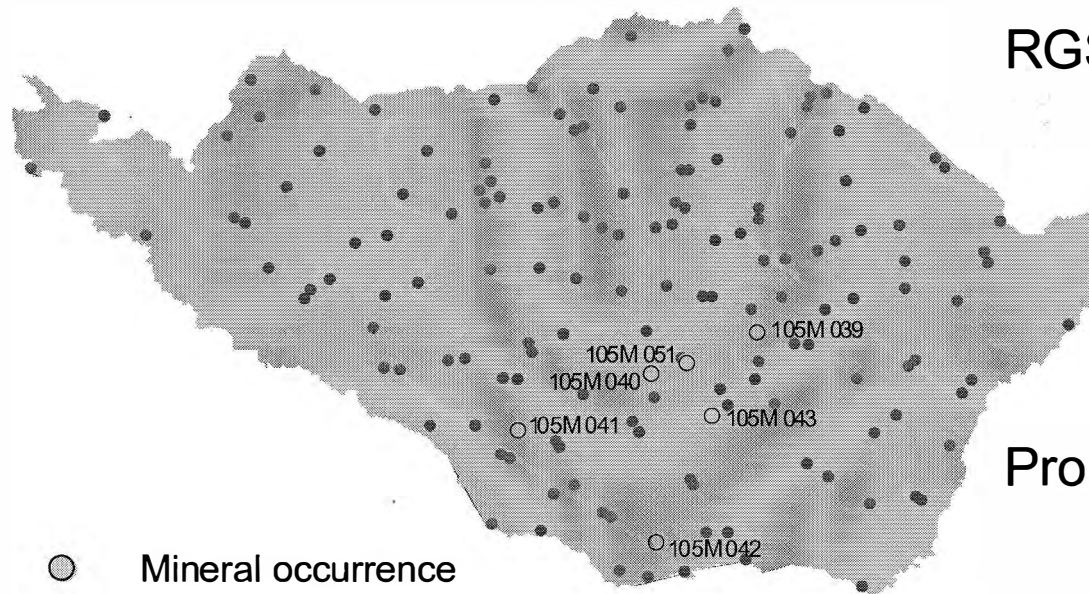
- Nogold Basin

- McArthur Batholith - dominant geological and metallogenic feature

1:250,000 scale geological map of Mayo by C. Roots, 1996
compilation by Steve Gordey - Yukon Digital Geology CD

Digital

Geochemistry and Mineral Occurrences



○ Mineral occurrence

● RGS sample

--- Fault (from 1:250,000 map)

RGS coverage

-Lower Earn enriched in metals

-anomalous samples along NS-striking fault

Proprietary data (not plotted)

MINFILE - 6 Mineral occurrences

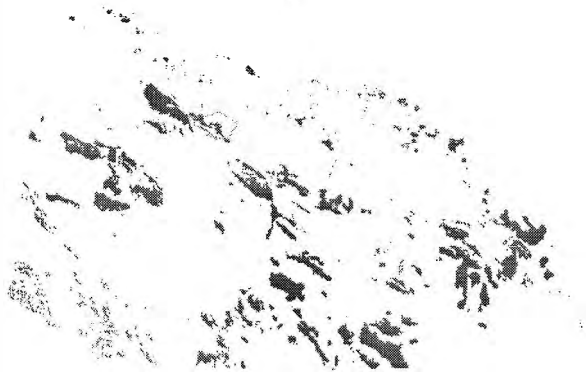
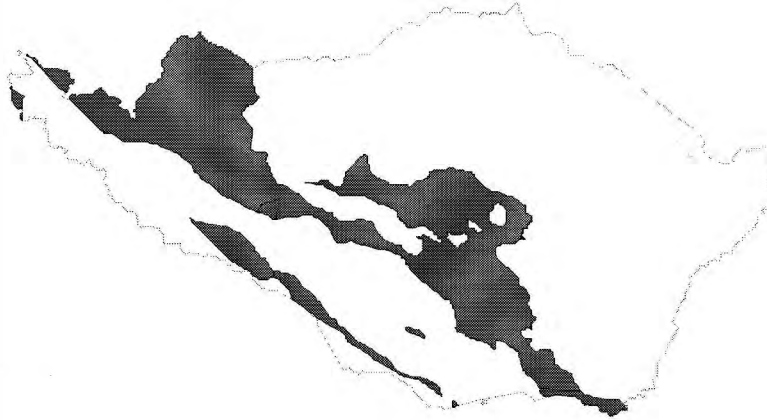
-mostly intrusive-related

-tales of large low-grade Cu deposit

NUMBER	NAME	STATUS	TYPE
105M 039	Sideslip	showing	skarn
105M 040	Great Horn	prospect	skarn
105M 041	Ram	uncertain	unknown
105M 042	Hotspring	showing	vein
105M 043	Lost Wemecke Cu	uncertain	unknown

McArthur Batholith

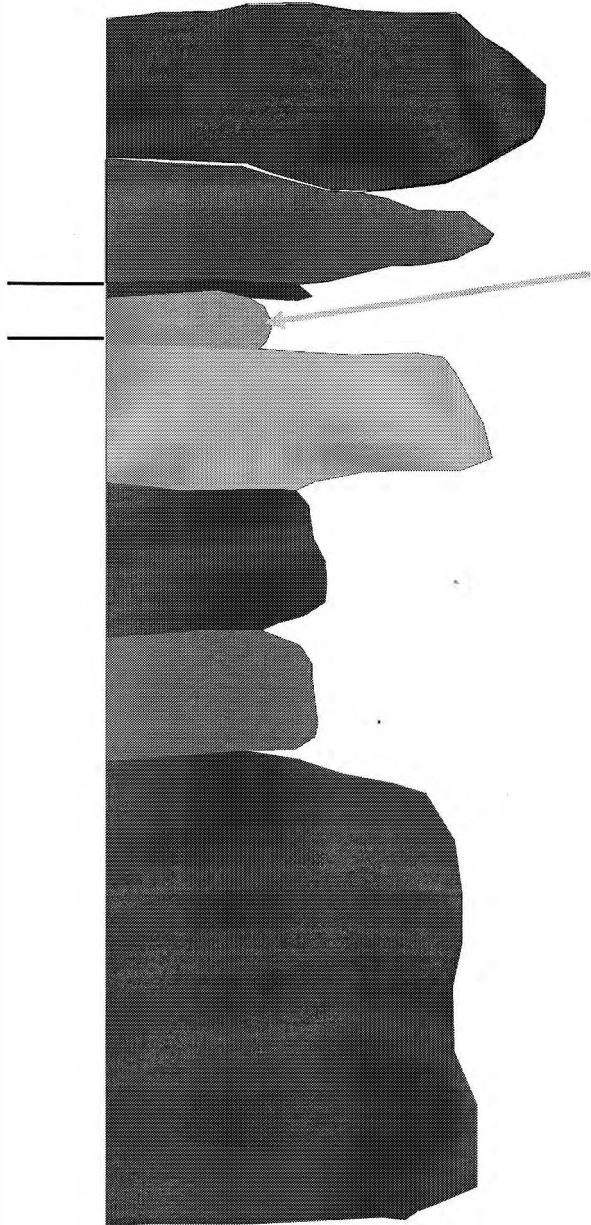
Intrusive rocks makes up 23% of Ddhaw Ghro HPA



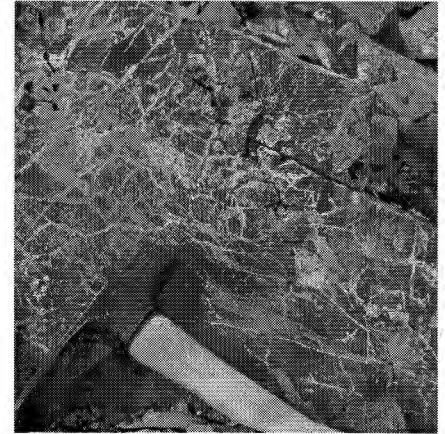
Pendants and contact aureole



Road River Group



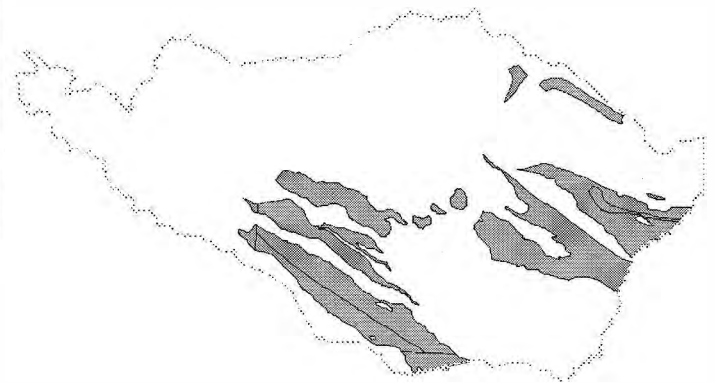
Duo Lake
Formation



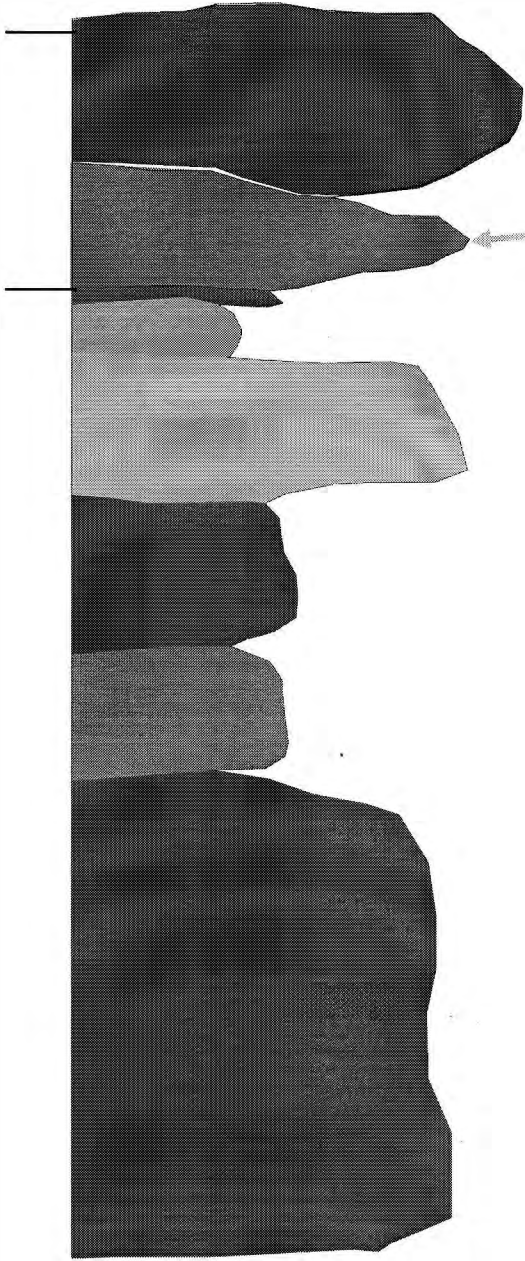
Black limestone



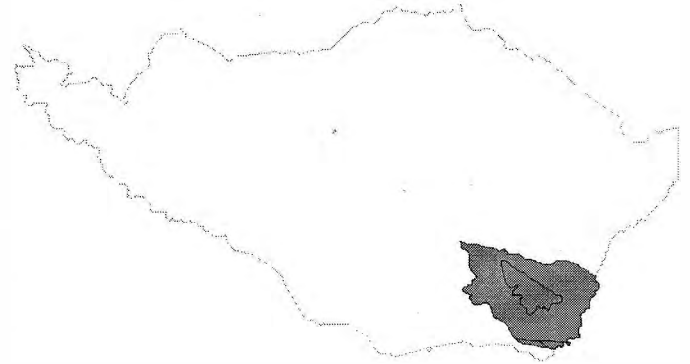
Black chert
and shale

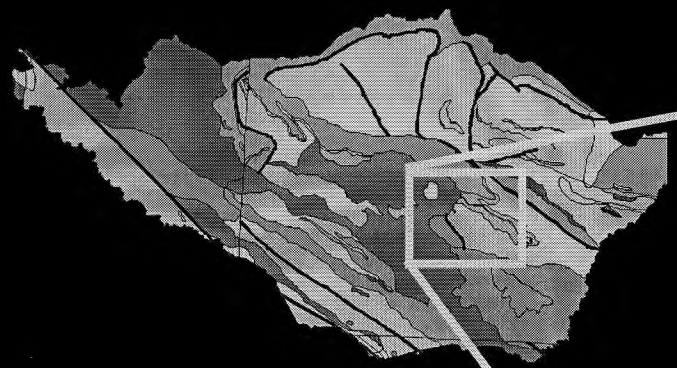


Earn Group



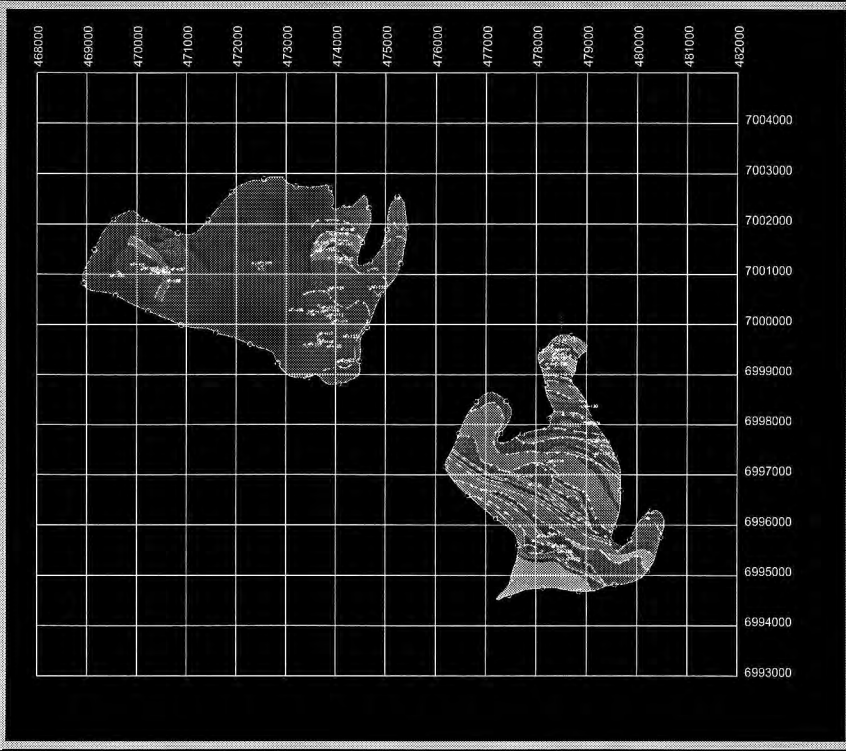
Portrait Lake
Formation

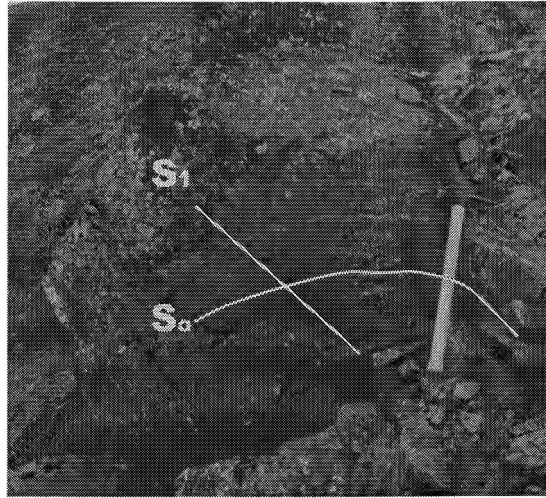




Geological Legend

- Cretaceous Anvil Suite Intrusive rocks
 - Biotite-quartz-monzonite and biotite-muscovite-quartz-monzonite
- Devono-Mississippian - Earn Group
 - Dark grey sub-arkosic to arkosic sandstone and shale
- Ordovician Silurian - Road River Group
 - Silurian - Steel Formation
 - Dark grey to black chert and shale
 - Orange-weathering, grey, wispy laminated calcareous shale
 - Ordovician-Silurian - Duo Lake Formation
 - Medium grey shale
 - Tan-weathering sub-arkosic sandstone
 - White-weathering, black limestone
 - Black chert and dark grey shale, minor maroon and green shale(?)
 - Medium grey shale
 - Black chert, minor grey shale
 - Duo Lake, undivided
- Map limits
- Fault
- Geological contact
- Cross-section line



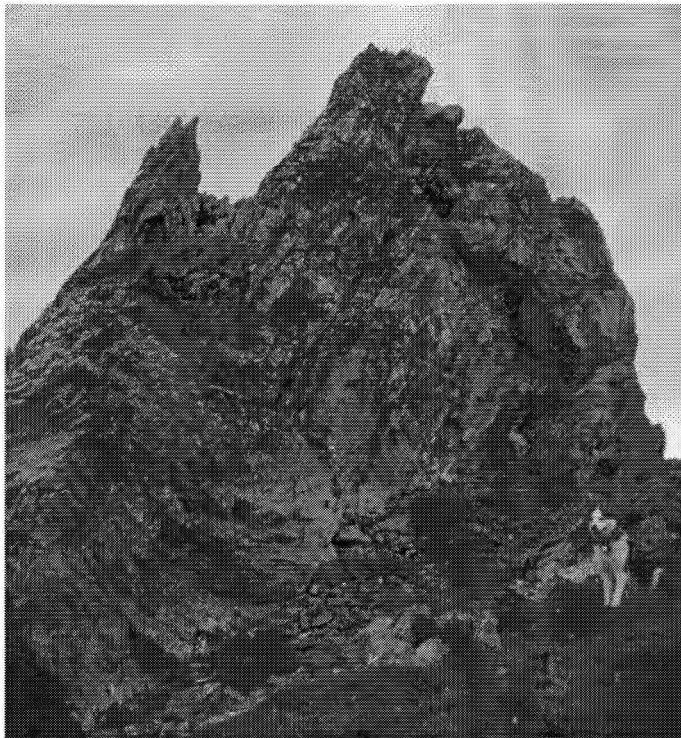


-NNE-directed thrusts and folds thickening Duo Lake strata

-2 phases of folding

-2 moderately to well developed foliations (cross-cutting relationships rarely observed)

Structural Geology





Sideslip Mineral Occurrence (MINFILE # 105M 039)



Sulphide-bearing
hornfels (AF-148)

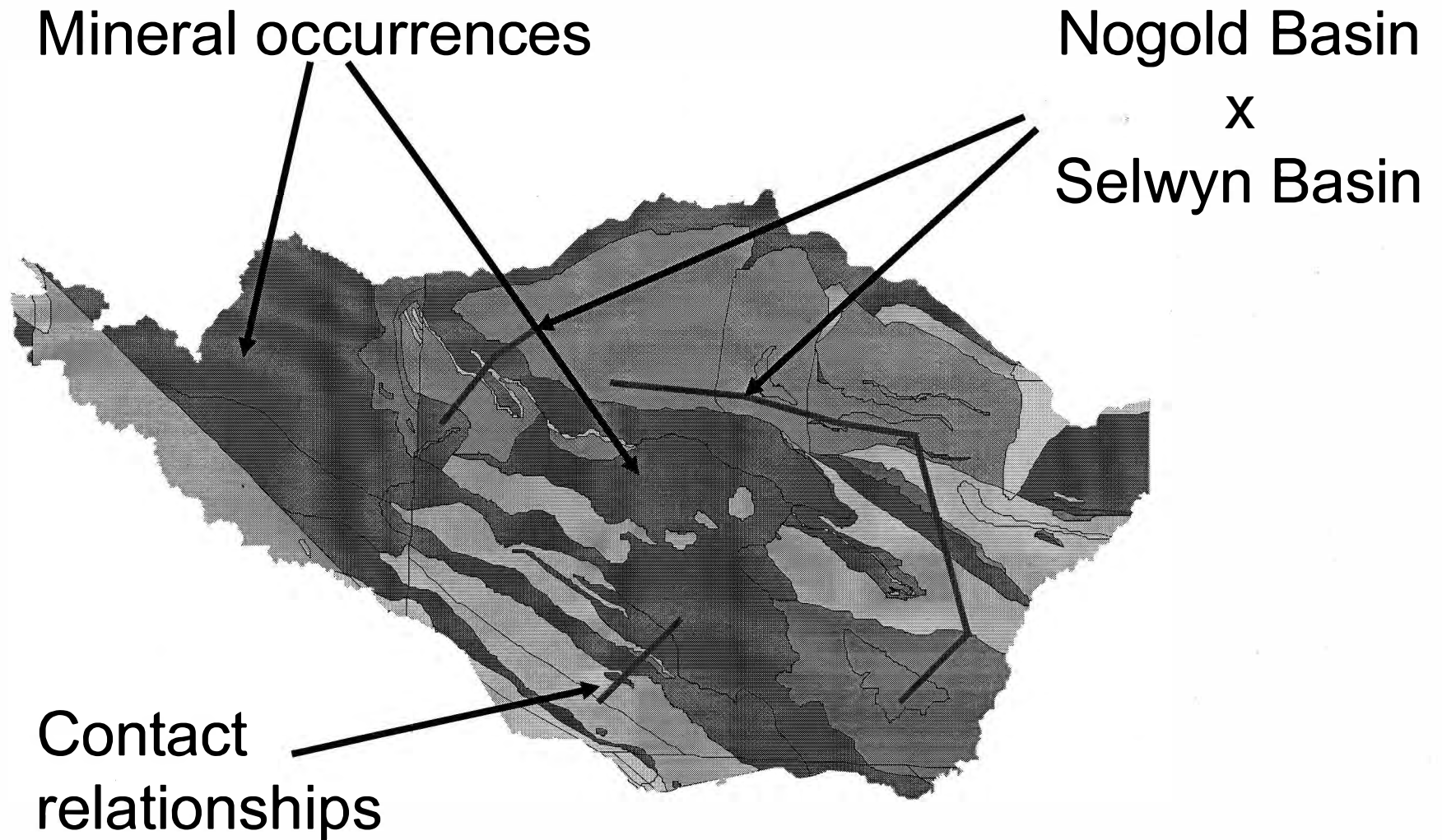
Skarn float containing
sulphides (po, cp)

Minor mineralization in
porphyry dikes



Oxidized skarn and black
limestone interbedded with
shale (AF-121)

2002 Field Season



Summer 2000 - Traverses

2 geologists

2 camps (helicopter support from Mayo)

1:20,000 scale geological mapping,
prospecting, and sampling



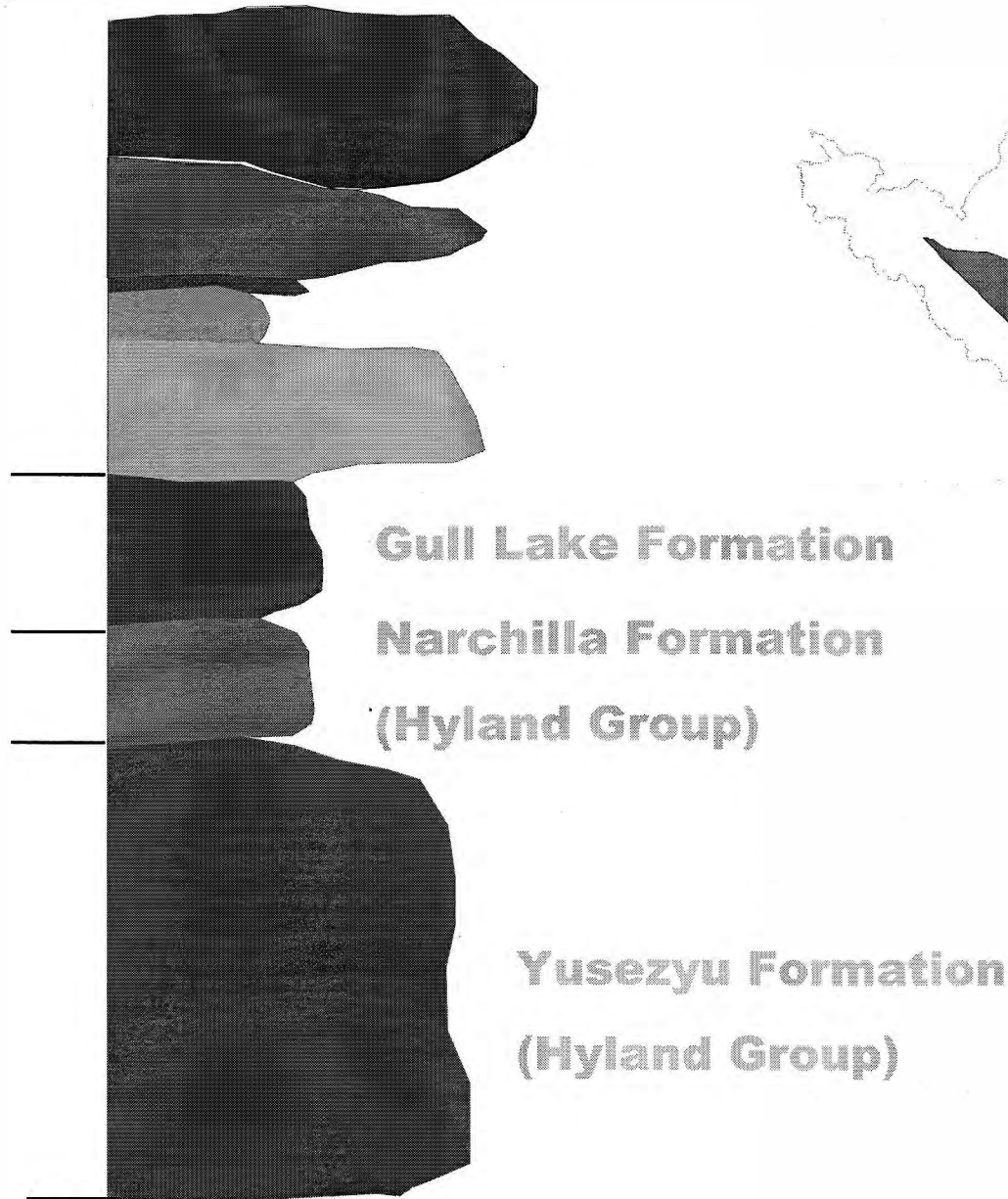
Scope:

- Define logistics for 2001 field season
- examine and describe Sideslip and Friesen mineral occurrences
- characterize nature of contacts in SE area
- characterize source of anomalous RGS values

Tentative schedule

- **2001 field season**
 - **~3 weeks: 5 camps**
 - **characterize and document mineral showings (MINFILE)**
 - **better understanding of age, nature, and mineralization potential in Nogold Basin**
 - **structural cross-sections along Selwyn Basin units (structures localizing fluids)**
- **Detailed Mineral Assessment - Spring 2002**
 - **small tracts**
 - **geochemical compilation (proprietary?)**
 - **new mapping and sampling**

Hyland Group and Gull Lake Fm.



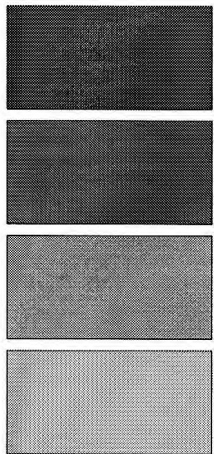
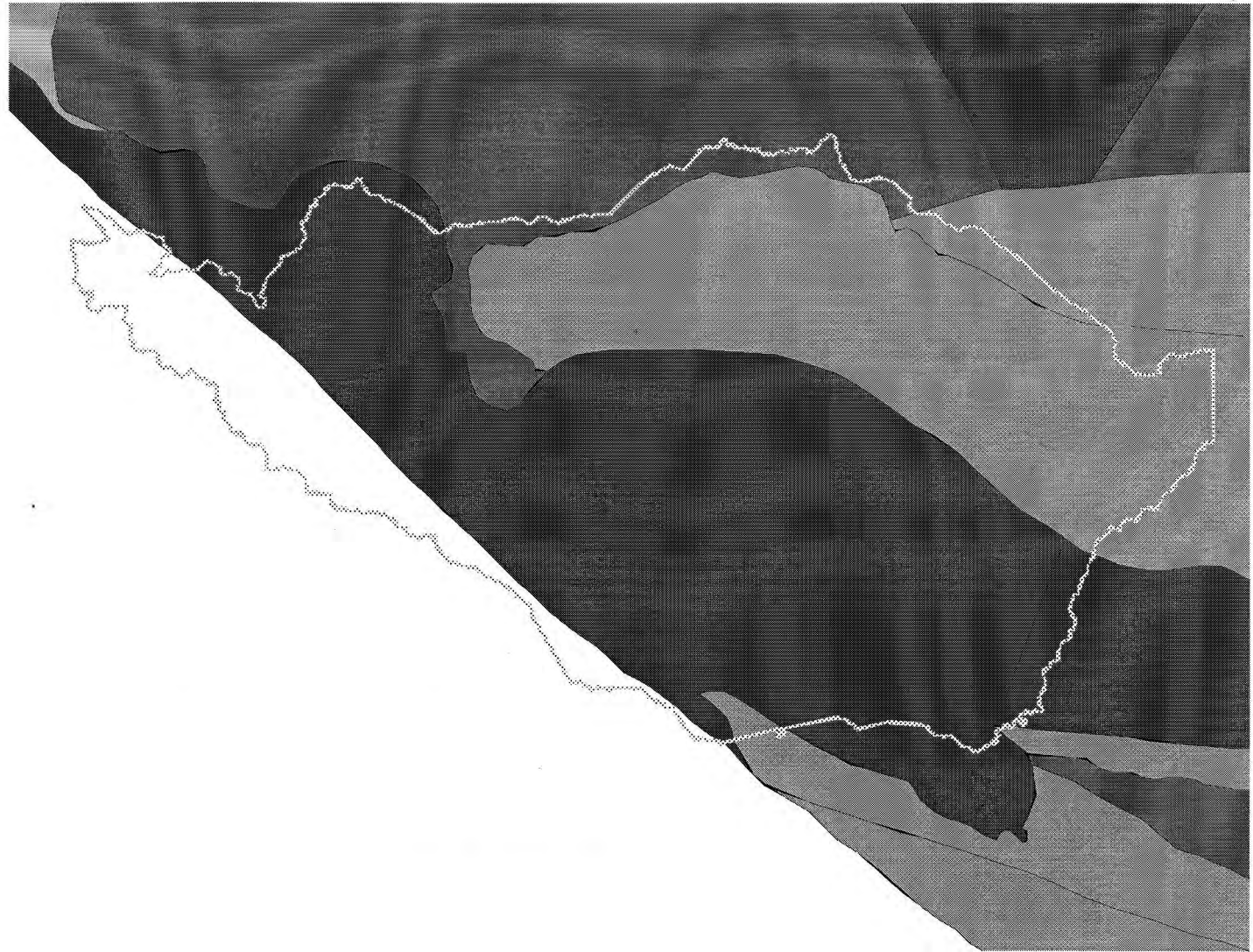
Deposits in Hyland Group

Au: True N (AK)
Quartz Lake/Piglet
Craig

Ag,Sn: Peso

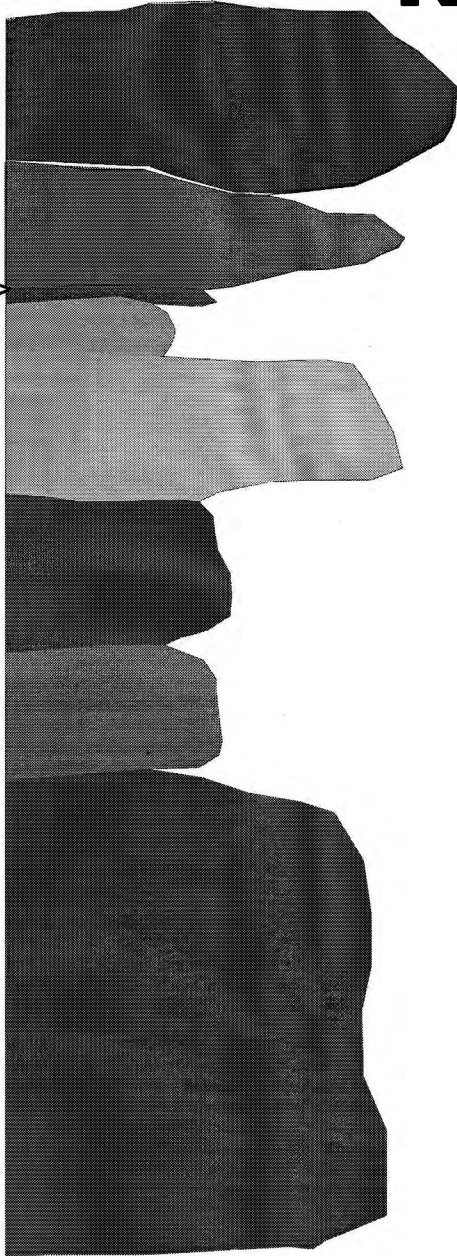
W: Ray Gulch

Regional Mineral Potential Map of Selwyn Basin

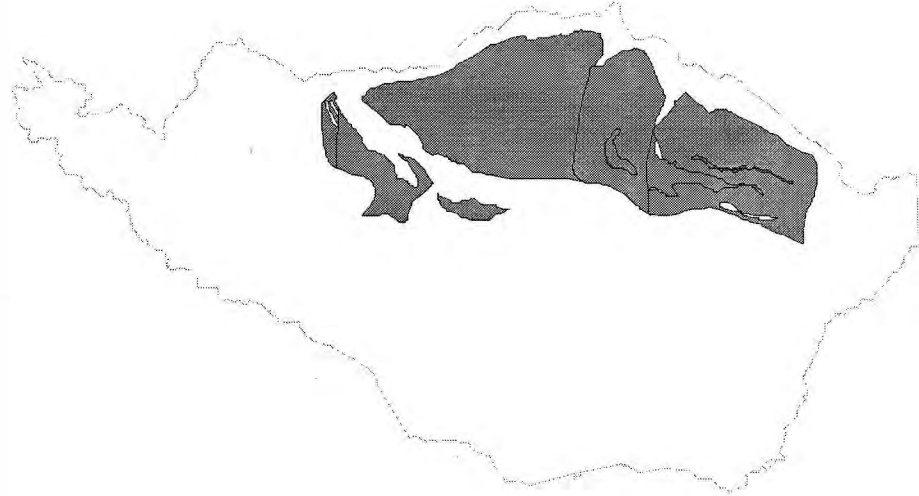


Nogold Unit

Nogold



Not part of typical Selwyn
Basin stratigraphy



Deposits similar to Hyland Group?
Au, W, Sn-Ag