

MAP No.

105 C 13

ASSESSMENT REPORT
PROSPECTUS
CONFIDENTIAL
OPEN FILE



DOCUMENT NO.: 091956

MINING DISTRICT: WHITEHORSE

TYPE OF WORK: GEOCHEMICAL

REPORT FILED UNDER: Noranda Exploration Co. Ltd.

DATE PERFORMED: July 23, 1986

DATE FILED: October 7, 1987

LOCATION	LAT.	60°56'N
	LONG.	133°45'W

AREA:

CLAIM NAME & NO.

SAW 1-6 YA95225-230

VALUE \$ 600.00

WORK DONE BY:

H. Copland

WORK DONE FOR:

Noranda Exploration Co. Ltd.

REMARKS:

#25 NW

GEOCHEMICAL REPORT

on the

SAW 1-6 CLAIMS

Whitehorse Mining District

N.T.S. 105C/13

Latitude $60^{\circ} 56' N$

Longitude $133^{\circ} 45' W$



Author: H. Copland

Owner: Noranda Exploration Company, Limited

(No Personal Liability)

Date: August, 1987

09 19 56

This report has been examined by
the Geological Evaluation Unit
under Section 63 (4) Yukon Quartz
Mineral Act and is allowed as
representation work in the amount
of \$ 600.00 .

DA Edmunds

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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SUMMARY.

The SAW 1-10 claims are located within the Sawtooth Range of the Pelly Mountains. The property occurs in a thin slice of schist, greiss, amphibolite and diorite of the Paleozoic Big Salmon Complex. The Red Mountain molybdenum prospect in similiar rocks occurs only a few kilometres north of the claims. Results from a few samples collected on the claims show only weakly anomalous arsenic in one silt sample. Further prospecting should be concentrating on quartz-carbonate alteration observed on the property.

CHAPTER ONE: INTRODUCTION

1-1: INTRODUCTORY STATEMENT

The SAW 1-6 claims lie 78 kilometres north-east of Whitehorse, Y.T.. The claims were staked in 1986 to cover a GSC silt anomaly (121 ppm As, 85 ppm V, 36 ppb Au). A very brief sampling program was undertaken at this time.

1-2: LOCATION & ACCESS (See Figure 1)

The property (NTS 105C/13, Lat: $60^{\circ}56'N$, Long. $133^{\circ}45'W$) lies 78 kilometres north-east of Whitehorse, between Rosy Lake and Red Mountain Creek. Access is via helicopter from Whitehorse. An old cat road joining the Red Mountain prospect with the South Canal Road passes within 2 km. of the claims.

1-3: TOPOGRAPHY & VEGETATION

The claims lie within the Sawtooth Range of the Pelly Mountains. This area is characterized by sharp ridges with wide U-shaped valleys. Peak elevation in the region averages 2,000 metres. The property covers a north facing slope of a northeast trending ridge. Elevation ranges from a high of 1,700 metres in the south to 1,400 metres in the north.

The claims lie above tree line, near the limit of scrub brush and stunted spruce bushes. This grades to alpine and subalpine vegetation and talus covered slopes at higher elevations. A good supply of water flows through the creek that bisects the claims.

1-4: CLAIM DEFINITION (See Figure 2)

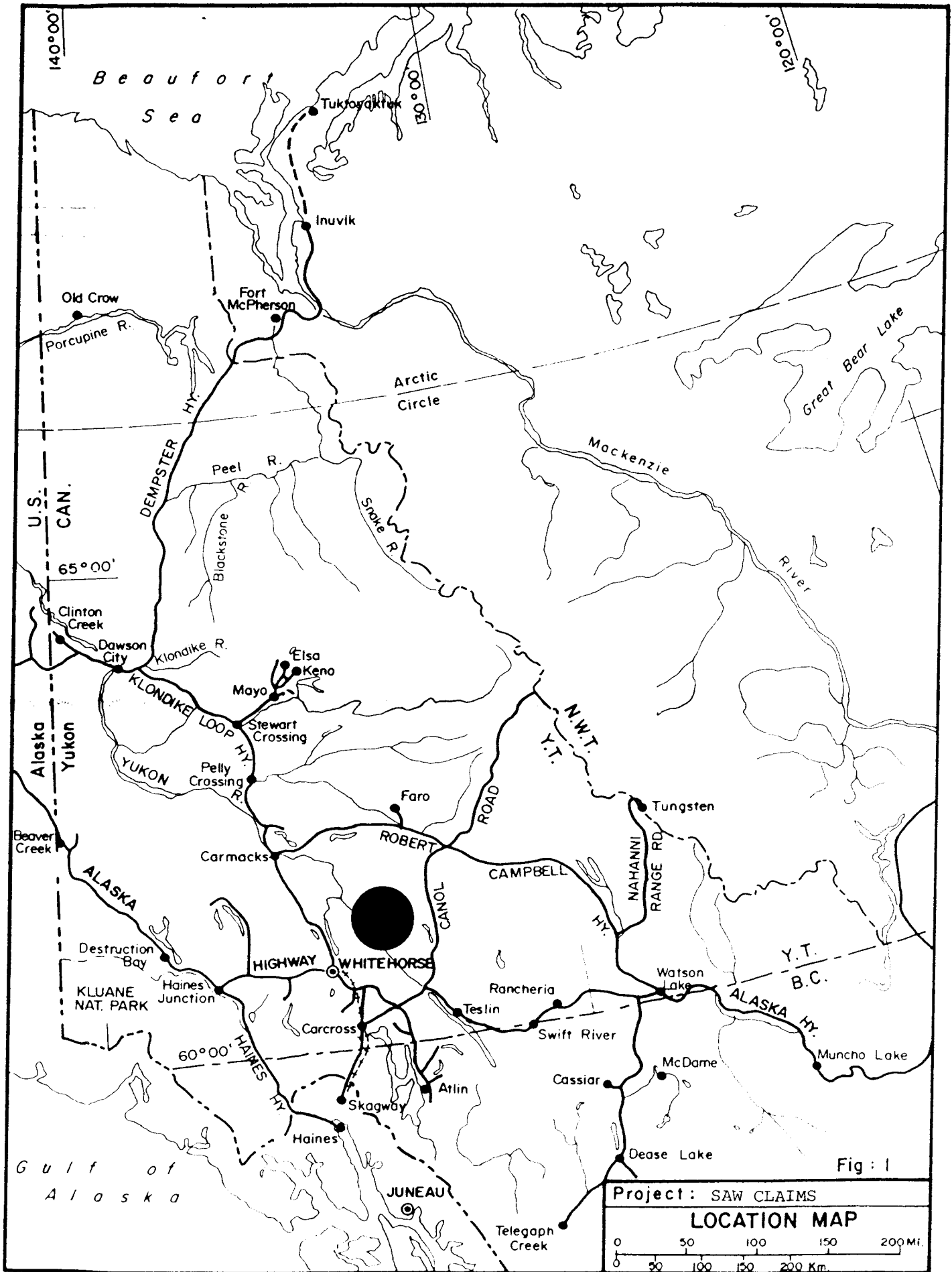
The SAW 1-6 claims (YA95225-95230) were staked on July 23, 1986 and recorded on July 24, 1986. With the acceptance of this report the claims will be in good standing until July 24, 1988.

1-5: HISTORY

No recorded instances of work have been found for the area covered by these claims. Amoco's Red Mountain molybdenum prospect is 5 km. north of the property. Several smaller molybdenum showings have been discovered peripheral to the main Red Mountain showing.

1-6: 1986 WORK PROGRAM

A brief reconnaissance of the claim group was conducted after the claims were staked. At this time 2 rock, 1 silt, and 1 talus fine were collected. Personnel involved were Craig Hart and Gordon MacKay on July 23, 1986.



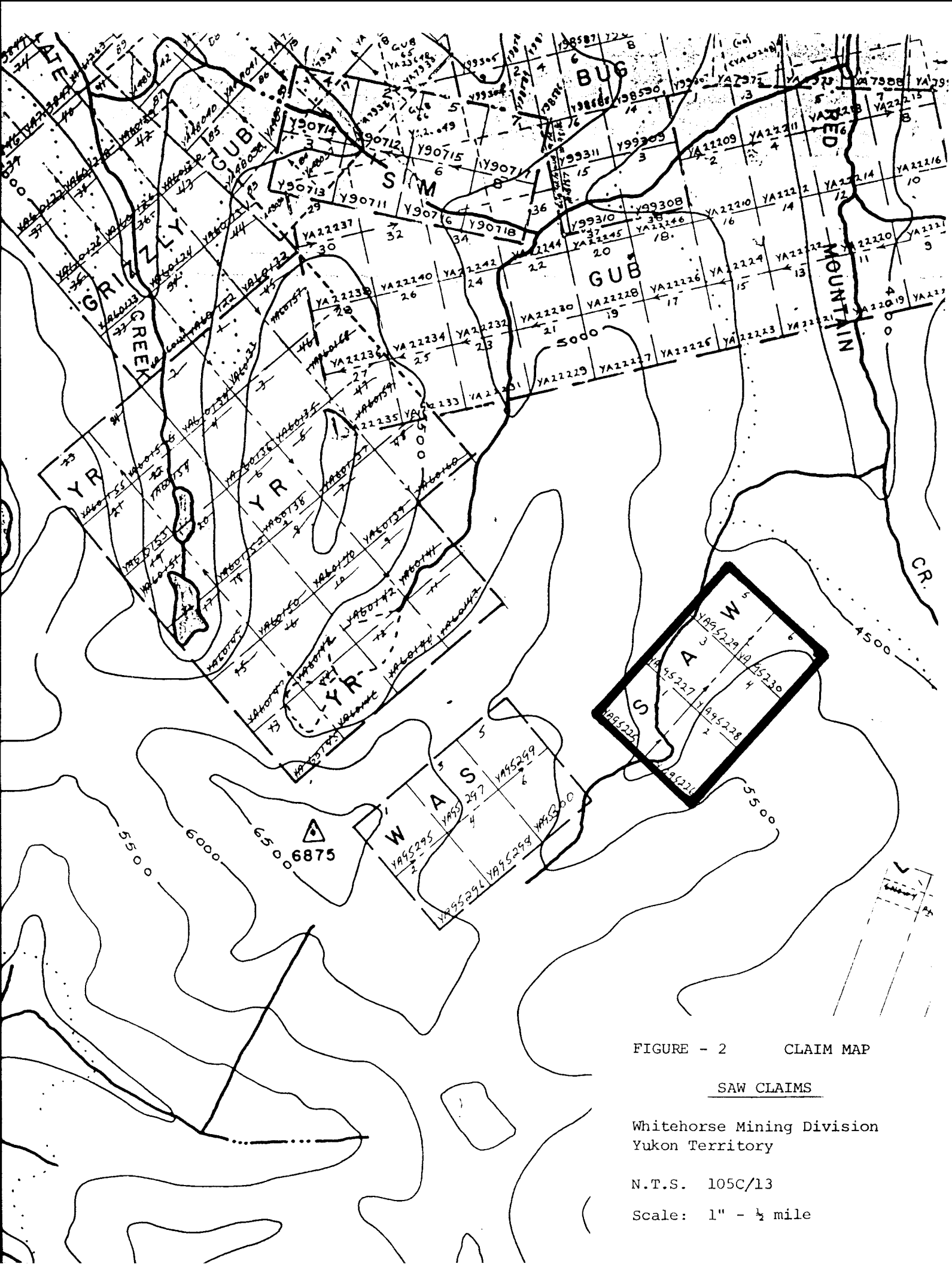


FIGURE - 2 CLAIM MAP

SAW CLAIMS

Whitehorse Mining Division
Yukon Territory

N.T.S. 105C/13

Scale: 1" - 1/2 mile

CHAPTER TWO: GEOLOGY

2-1: REGIONAL GEOLOGY

The SAW claims lie within a narrow slice of the Yukon Cataclastic Terrain between the Whitehorse Trough and the Cassiar Platform. The Teslin Suture Zone a large northwest trending structural feature separates Paleozoic Cassiar Platform rocks from mesozoic Whitehorse Trough Terrain.

2-2: PROPERTY GEOLOGY

The property is underlain by two main units; an amphibolite related to the Big Salmon Complex and a diorite which may either be of Cretaceous age or more probably related to the Paleozoic Big Salmon Complex. These units have a northeast trending contact through the property. Spotty quartz-carbonate alteration zones a few metres wide were observed in both units. Defining lithological relationships on the claims will require more field study.

TABLE 1TABLE OF FORMATIONSQUATERNARYSelkirk Group:

- basalt, andesite

TERTIARYCarmacks Group:

- andesite, basalt, conglomerate, sandstone,

Mount Nansen Group:

- acid-intermediate tuff, breccia

JURASSIC & CRETACEOUSDezadeash Group:

- argillite, greywacke, volcanic rocks

TANTALUS FM:

- conglomerate, siltstone, arkose, coal

JURASSICLaberge Group:

- greywacke, arkose, conglomerate

UPPER TRIASSICLewes River Group:

- limestone

MESOZOIC (undivided)

- quartz monzonite, granodiorite, foliated granodiorite

PALEOZOIC (undivided)Pelly Gneiss:

- foliated to gneissic granodiorite

CARBONIFEROUS & PERMIANBig Salmon Metamorphic Complex:

~~_____~~ - schist, gneiss

HADRYNIAN & CAMBRIAN

- schist, gneiss, quartzite

CHAPTER THREE: GEOCHEMISTRY

3-1: PROCEDURE

A silt sample was collected to test the GSC anomaly in silts. This was collected as close to the suspected GSC sample location as possible. Two outcrop grab samples and 1 talus fine sample were collected from altered amphibolite. All samples were sent to Noranda's Vancouver Lab for preparation and analysis. Samples were analysed using standard geochemical methods for Cu, Pb, Zn, Ag, Au, As, and Sb.

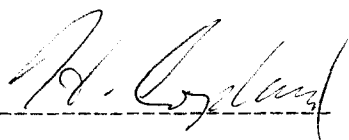
3-2: RESULTS (See Figure 3)

Of the four samples collected only the silt sampled showed any anomalous results. This was a weak 200 ppm As anomaly. This compares to the original GSC silt of 121 ppm. Other elements in the silt and rocks were only background in values.

CHAPTER FOUR: CONCLUSIONS & RECOMMENDATIONS

Results from the very limited sampling of these claims was disappointing. Quartz-carbonate alteration zones in both amphiboles and diorites on the property appear to be quite widespread and are worthy of future sampling.

Respectfully submitted,



Hugh Copland

Project Geologist


REFERENCES

- D.I.A.N.D. 1981. Yukon Geology & Exploration, 1979-80; D.I.A.N.D. Geology Section Publication, 364 pp.
- Mulligan, R., 1963. Geology of the Teslin Map-Area, Y.T. (105C); GSC Mem. 326.

STATEMENT OF QUALIFICATIONS

I Hugh Copland of the City of Whitehorse, Yukon, do hereby certify that:

1. I have been an employee of Noranda Exploration Company Limited (NPL) in Whitehorse since May, 1985.
2. I am a graduate of the University of British Columbia with a B.Sc. in Geology and of McMaster University, Hamilton, Ontario with a B.Eng..
3. I am a member of the Yukon Professional Geoscientists Society, and the Geological Association of Canada.
4. I supervised work on the SAW Claims during July, 1986.



Hugh Copland
Geologist

STATEMENT OF COSTS

PROJECT: SAW Claims

Wages (Field):

1.5 mandays @ \$100/day 150.00

Food & Accomodation:

1.5 mandays @ \$25/day 38.00

Transportation:

Helicopter (Whitehorse-property) 0.8hr. @ \$580/hr. 464.00

Truck Fuel & Oil 20.00

Rental (Truck) 10.00

Analysis:

1 silt & 1 talus fine (Cu, Pb, Zn, Ag, Au, As, Sb) 22.00

2 rock samples (Cu, Pb, Zn, Ag, Au, As, Sb) including
preparation & shipment \$13.50/sample 27.00

Report Preparation:

Author 0.5 days @ \$100/day 50.00

Typing 2 hrs. @ \$12/hr. 24.00

Drafting 0.5 day @ 150/day 75.00

TOTAL \$880.00

APPENDIX 1

Rock Description

APPENDIX 2

Results

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: YUKON GENERAL

CODE : 8608-061

Project No. : 394

Sheet: 1 of 1

Date rec'd: AUG 12

Material : SILT/RX

Geol.: WR

Date compl: AUG 26

Remarks :

Values in PPM, except where noted.

T. T. No.	SAMPLE No.	Cu	Zn	Pb	Ag	As	Sb	PPB Au
215	TF 78381	32	70	10	0.4	110	6	10
216	S 78417	32	64	8	0.6	200	4	20
217	RX 78383	6	36	4	0.2	-	2	10
218	RX 78382	10	80	8	0.6	-	4	20

091956

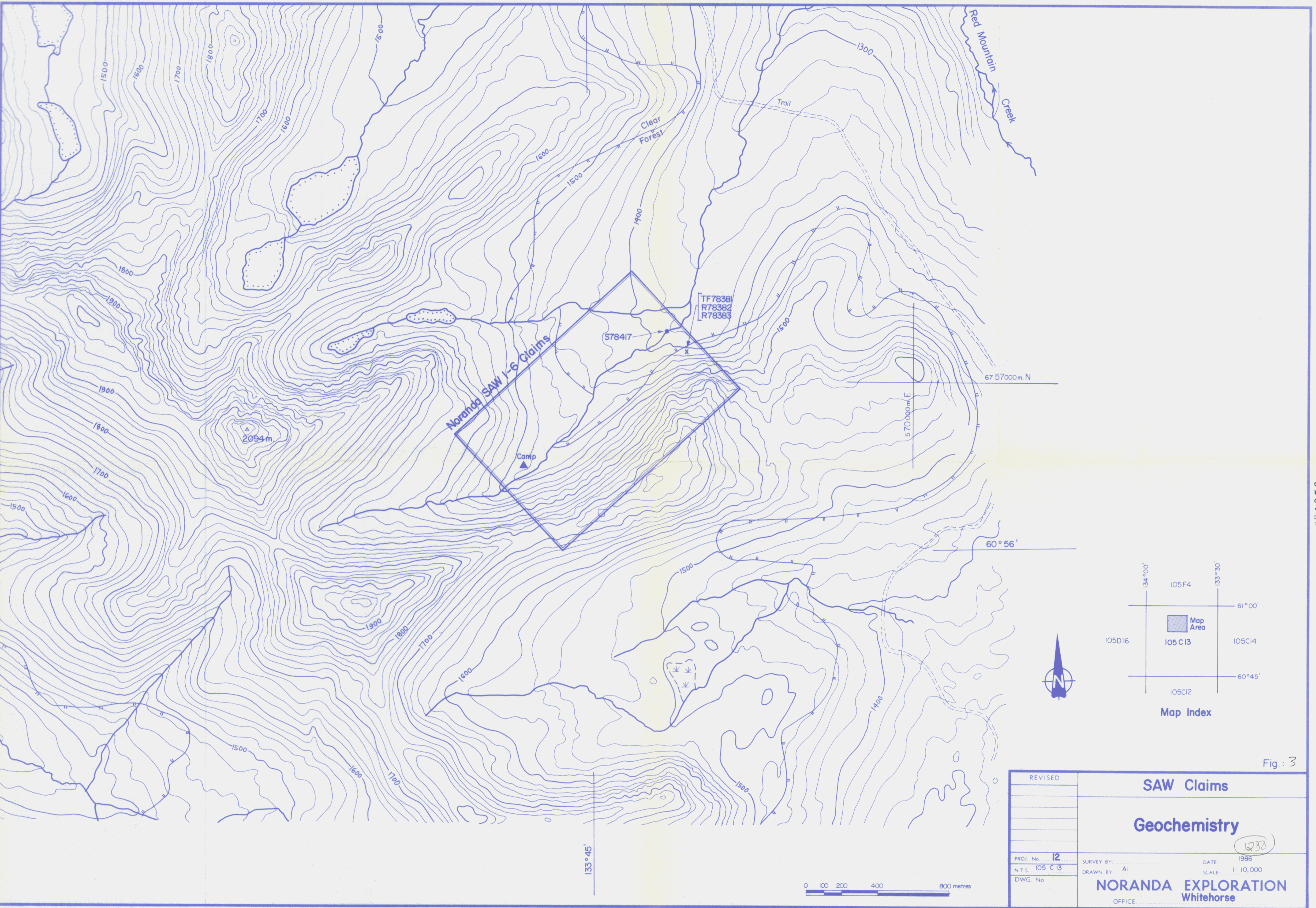


Fig. 3

REVISED	SAW Claims	
	Geochemistry	
PROJ. No. 12	SURVEY BY: AI	DATE: 1986
N.T.S. 105 C 13	DRAWN BY: AI	SCALE: 1:10,000
DWG No.	NORANDA EXPLORATION OFFICE Whitehorse	

1238