

1025

GEOLOGICAL REPORT

ON THE

SAL PROPERTY

ATLIN MINING DIVISION

TATSAMENIE LAKE AREA, BRITISH COLUMBIA

NTS 104K/8

58° 27'N 132° 17'W

FILED

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TAHLTAN HOLDINGS LTD.

SUITE 13 - 1155 MELVILLE STREET VANCOUVER, B.C.

VANCOUVER, BRITISH COLUMBIA

V6E 4C4

PREPARED BY

STETSON RESOURCE MANAGEMENT CORP.

SUITE 13 - 1155 MELVILLE STREET

VANCOUVER, BRITISH COLUMBIA

V6E 4C4

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GEOLOGICAL BRANCH  
ASSESSMENT REPORT

17,909

APRIL, 1988

## SUMMARY

The Sal property comprises 2 claims, totalling 40 units situated in the Atlin mining division in the northwestern British Columbia. The nearest communities are Telegraph Creek 90 kilometers to the southeast and Dease Lake, 160 air kilometers to the east. The property is situated 110 east of the Pacific Coast on the lee side of the Coast Range Mountains. The region has a relatively dry climate. The claims lie above the tree line, between 760 and 2000 meters above sea level.

The area presently covered by the Sal claims was initially staked and explored by Utah Mines Ltd. in 1980. The interest was in a porphyry style copper and molybdenum mineralization.

As a result of a research project, the ground was restaked in 1987, as the Sal property by Tahltan Holdings Ltd.. On behalf of Tahltan, Stetson Resource Management Corp. carried out an exploration program under the direction of the writer in 1987. Approximately \$23,000.00 was spent on geological mapping, prospecting, rock chip and soil sampling.

A shear zone hosts several quartz veins that contain gold, silver, copper and molybdenum mineralization.

A two phase exploration program is recommended to test the economic potential of the Sal property.

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## 1. INTRODUCTION

The geology and economic potential of a precious metal prospect covered by the Sal property held by Tahltan Holdings Ltd. is discussed in this report. The data presented is from an exploration program carried out by Stetson Resource Management Corp. under the direction of the writer and public assessment reports discussing exploration work carried out by previous operators. A two phase exploration program is recommended to test the economic potential of these claims

### 1.1 Location and Access

The Sal property is situated in the Atlin mining division in northwestern British Columbia, approximately 80 kilometers northwest of Telegraph Creek, 140 kilometers west of Dease Lake and 140 kilometers southeast of Atlin. The claim blocks cover a total area of 10.0 square kilometers centered at 58° 27' N and 132° 17' W (Figure 1.1).

The nearest highway to the property area is Highway 114, which extends from Dease Lake to Telegraph Creek. A winter tote road (bulldozer trail) extends 130 kilometers from the highway to Chevron's Golden Bear property, which is 18 kilometers southwest of the Sal property. Construction of an all-weather road is underway to access the Golden Bear property. The new road will come within 8 kilometers of the southwestern corner of the Sal property.

Air access by fixed wing aircraft is available to three gravel landing strips in the area. One on the Sheslay River allows up to DC-3 sized planes; a second at Muddy (Bearskin) Lake handles airplanes up to Caribou size; and a third strip at the western end of Tatsamenie Lake allows airplanes the size of a Cessna 206 to land. Access to Tatsamenie or Little Tats Lake is available by float plane from June until late October and by plane on skis during winter months, except during freezing and break up periods. Helicopters must be used to travel from the lakes or strips to the property. Exploration can be carried out from a camp on the north shore of Little Tats Lake.

Groceries, fuel, lumber and general supplies are available to a limited extent, in Atlin and Dease Lake. The remainder may be trucked from Whitehorse to Atlin or from Terrace to Dease Lake.

**TAHLTAN HOLDINGS LTD.**

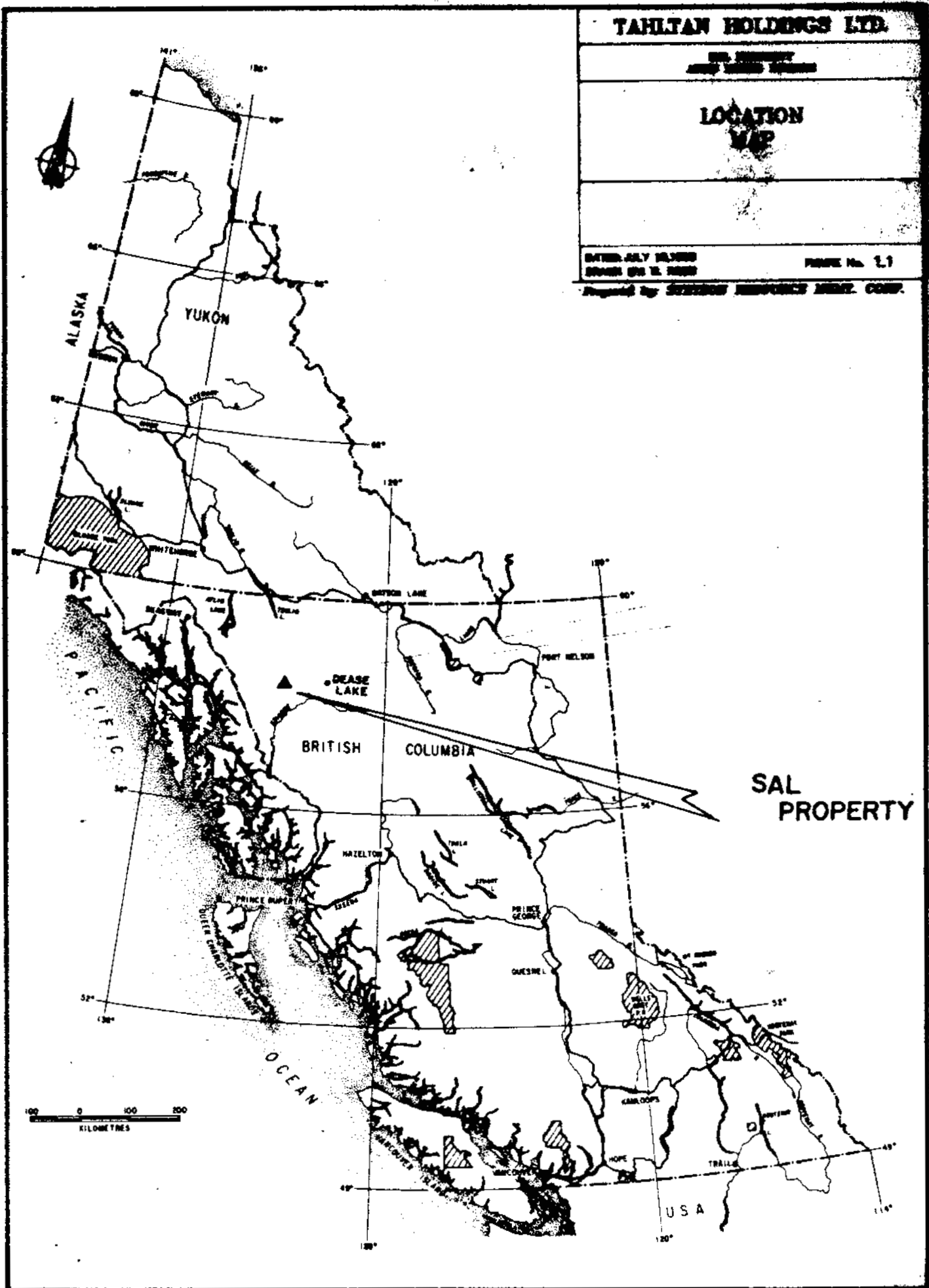
**100 PERCENT  
TAHLTAN HOLDINGS LTD.**

**LOCATION  
MAP**

**DATE: JULY 1988  
DRAWN BY: J. B. BIRD**

**FIGURE No. 1.1**

**Prepared by: STRONG RESOURCES MGMT. CORP.**



## 1.2 Property

The Sal property covers two contiguous claims comprised of 40 units as listed below. Tahltan Holdings Ltd. holds title to the property by staking or Bill of Sale. Claim locations have been verified by legal (and other) corner posts, and blazed - flagged lines.

Table 1.2  
Claim Status

<u>Claim Name</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Expiry Date</u>	<u>No. Units</u>
Sal 1	3046	07/10/87		20
Sal 2	3047	07/10/87		20

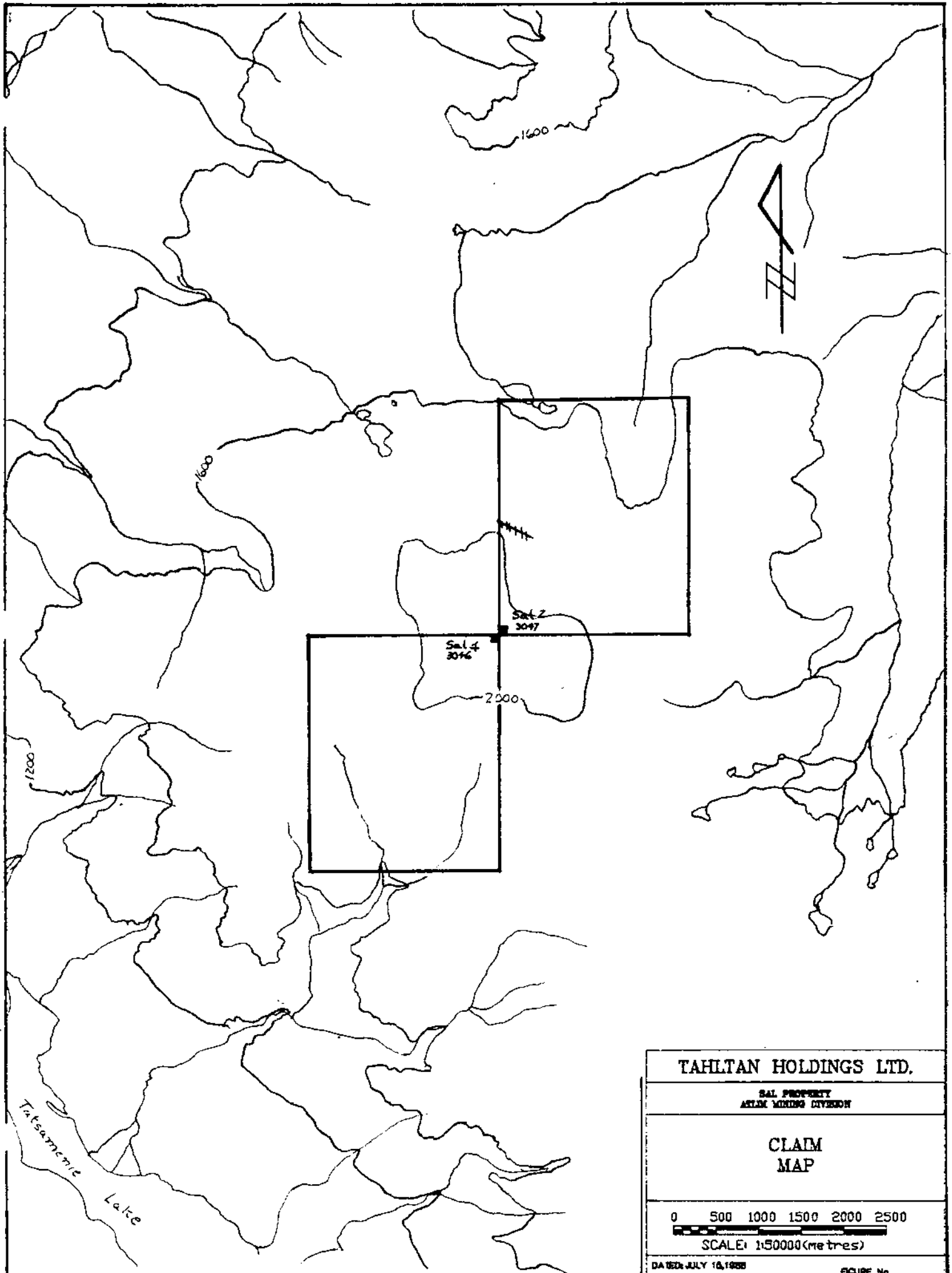
## 1.3 Physiography, Vegetation and Climate

The claims are situated on the lee side of the Coast Range Mountains, 80 kilometers east of the Pacific Coast. The region has a relatively dry climate; snow cover in winter is moderate; snow, rain and wind storms are common all year round.

The property covers a semi-rugged to sub-alpine terrain. Elevations range from 760 meters (2,500 feet) to 1,950 meters (6,400 feet). Some slopes are fairly steep, but most may be traversed with care.

Vegetation is sparse; treeline is at a elevation of approximately 1,000 meters above which alpine tundra covers the property; shrubs and trees are restricted to valley bottoms. Engelmann spruce, alpine fir, lodgepole pine, white spruce and white bark pine trees characterize the vegetation.

Water and timber resources for exploration and development purposes are available in valleys of creeks flowing northeasterly into the Samotua River. Several tributaries to these main creeks carry sufficient drilling water during most of the year.



TAHLTAN HOLDINGS LTD.

SAL PROPERTY  
ATLIM MORDING DIVISION

CLAIM  
MAP

0 500 1000 1500 2000 2500

SCALE: 1:50000 (metres)

DATE: JULY 18, 1988  
DRAWN BY: WRC/BB

FIGURE No.

**1.4 History**

The Tatsamenie Lake area was initially explored in the fifties for its porphyry copper potential. Of several copper showings in the area; two have been classified as small porphyry copper type occurrences.

In August of 1980, an exploration program was carried out by Utah Mines Ltd. to delineate a shear zone containing chalcocite, bornite, molybdenite and precious metal mineralization.



### 1.5 1987 Exploration Program

In 1987 an exploration program was undertaken by geologists, prospectors and field technicians employed by Stetson Resource Management Corp. under the direction of J.C. Freeze of Stillwater Enterprises Ltd. Approximately \$23,000.00 was spent on the following surveys which were carried out between August 17 and September 17:

- 1) Geological mapping was carried out over the center portion of the property at a scale of 1:5,000 and at larger scales where mineralization was discovered (see Figures 2.2 and 2.2.1).
- 2) Rock chip sampling of quartz veins, and all pyritic rocks was carried out over the areas mapped (see Figure 3.1);
- 3) Soil and talus sampling was carried out at 2 meter intervals on lines spaced 25 meters apart covering the shear zone on the Sal 2 claims. (see Figure 3.2)

## 2. GEOLOGY

### 2.1 Regional Geology

The Tatsamenie Lake area was mapped as part of the Tulsequah map sheet by J.G. Souther of the Geological Survey of Canada in 1971 (Figure 2.1). The oldest unit in the area is a diorite gneiss of unknown age. Permian serpentinite and limestone units are overlain by Pre-Upper Triassic clastic sediments and volcanic rocks. The Permian and Pre-Upper Triassic rocks belong to the Stikine Terrane which is an allochthonous package accreted to the North American craton in latest Triassic to Middle Jurassic time (Monger, 1984). Sedimentary, volcanic and volcanoclastic rocks were deposited on the Stikine Terrane in Triassic to Jurassic time. Four igneous events have intruded these rocks: a Triassic granodiorite; a Jurassic diorite (part of the Coast Complex); a Cretaceous-Tertiary group of rhyolite dykes, and porphyritic feldspar diorite and Late Tertiary-Pleistocene intermediate and felsic extrusive and intrusive rocks.

### 2.2 Regional Mineralization

The Stikine Terrane hosts several precious and base metal ore deposits.

In the Iskut area, at the southern end of the terrane, two structurally controlled precious metal deposits have been outlined. Both the Reg property held by Skyline Explorations Ltd. and the Snip property held in joint venture by Cominco Ltd. and Delaware Resource Corp. will be put into production in the near future.

In the Stikine River area two porphyry copper - gold ± molybdenum deposits on Galore Creek and Schaft Creek have been outlined.

In the Stikine Arch area the Red Dog property hosts structurally controlled gold mineralization with associated base metals.

At the northern end of the terrane, in the Taku River area, base and precious metal ore in volcanogenic massive sulphides were produced at the Tulsequah Chief mine and gold ore was produced at the Polaris Taku mine.

**LEGEND**

**LATE TERTIARY**

10 LEVEL MOUNTAIN GROUP -

**CRETACEOUS and TERTIARY**

SLOKO GROUP - Felsic volcanic flows, intrusives and pyroclastics

9Q Quartz monzonite

9F Felsite

9R Rhyolite

**UPPER JURASSIC**

8 Diorite granodiorite

**JURASSIC**

**LABERGE GROUP**

7 TAKWAHONI FORMATION - Conglomerate, sandstone

**UPPER TRIASSIC**

6 SINWA FORMATION - Limestone, clastics, chert

5 STUHINI GROUP - Volcanic and sedimentary rocks

**TRIASSIC**

4 Granodiorite, quartz diorite, foliated diorite

**PRE-UPPER TRIASSIC**

3 Sedimentary and volcanic rocks

**PERMIAN**

2 Limestone, dolomitic limestone, chert

1 Serpentinite, peridotite

A Diorite gneiss, age unknown

--- GEOLOGICAL BOUNDARY (defined, approximate)

---+---+---+ BEDDING (inclined, vertical, horizontal)

~ ~ ~ ~ FAULT (defined, approximate)

---▲---▲---▲--- THRUST FAULT (defined, approximate)

MAJOR DYKE SWARM

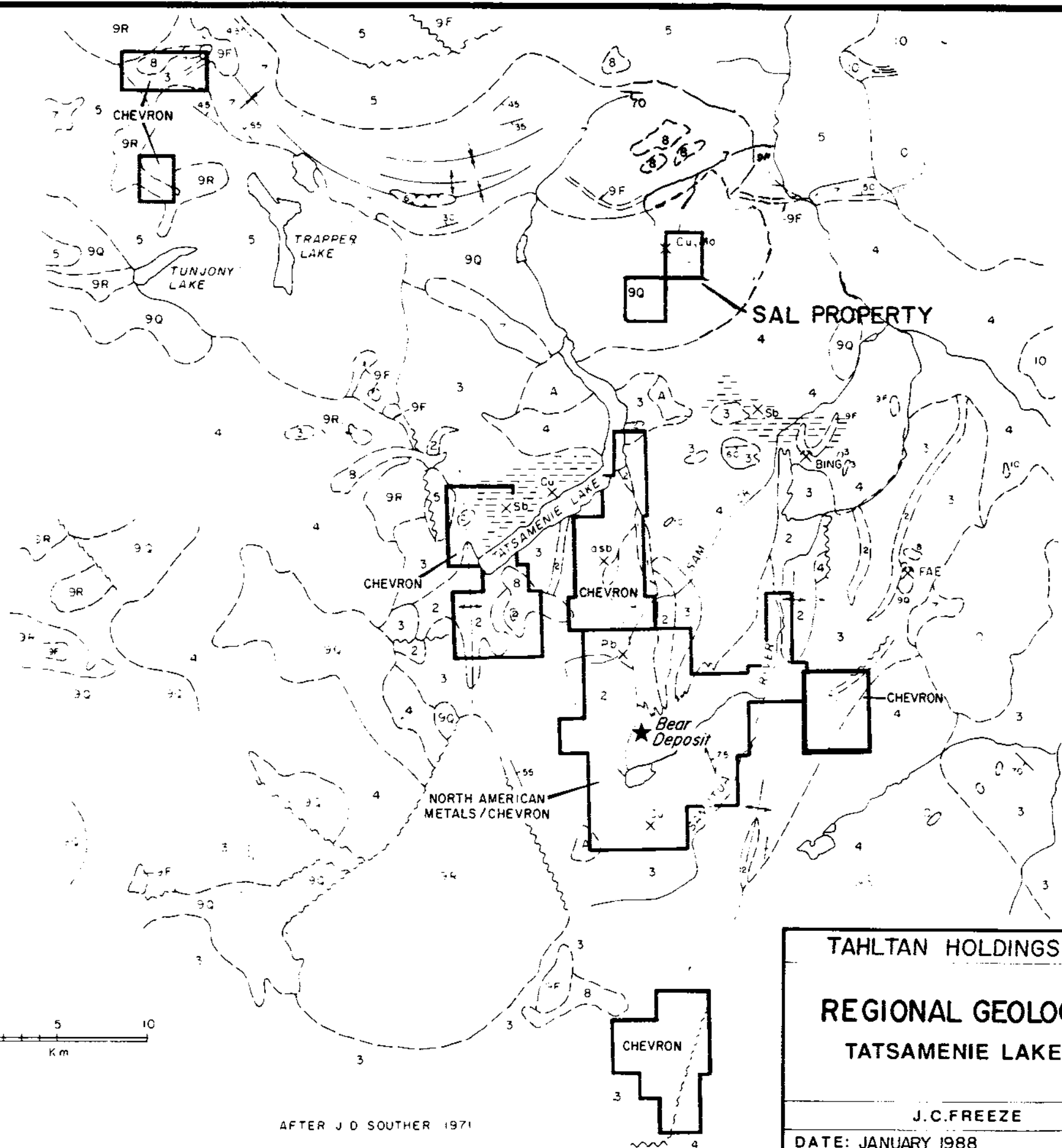
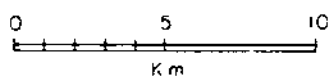
↑ ↓ ANTICLINE (arrow indicates plunge)

↓ ↑ SYNCLINE

--- ZONE OF HYDROTHERMAL ALTERATION  
SILICIFICATION AND PYRITIZATION

X MINERAL OCCURRENCE

⊗ MINERAL PROPERTY



TAHLTAN HOLDINGS LTD.

**REGIONAL GEOLOGY MAP**

**TATSAMENIE LAKE AREA**

J.C.FREEZE

DATE: JANUARY 1988

FIGURE: 2.1

AFTER J. D. SOUTHER 1971

In the Tatsamenie Lake area, centrally located within the Stikine terrane, both porphyry style copper - molybdenum and structurally controlled precious metal mineralization has been found. The most significant precious metal deposit discovered to date is the Bear deposit on the Golden Bear property held by Chevron and North American Metals. The deposit is hosted by an extensive northerly trending structure called the West Wall fault. North trending vertical fault structures between Permian limestone and Pre-Upper Triassic tuff control gold mineralization and associated quartz-carbonate alteration. Both the limestone and the tuff act as hosts to the ore. The gold is commonly associated with disseminations and fracture fillings of fine grained pyrite, predominantly along fault contacts. Accessory minerals include pyrrhotite, arsenopyrite, tetrahedrite and minor galena, sphalerite, chalcopyrite and tellurides. Most of the gold is submicron in size and not visible to the naked eye (Kenway, 1986). The mineralization is considered to fit Lindgren's (1933) mesothermal classification of ore deposits.

The basic model for mineralization in the Bear Deposit comprises:

- 1) Major structures acting as conduits for mineralizing fluids;
- 2) A heat source such as intrusive bodies creating hydrothermal convection cells;
- 3) Structural traps such as folds;
- 4) Host rocks which are either chemically or physically receptive to deposition of metallic mineralization.

### **2.3 Property Geology**

The Sal claims are underlain predominately by a Cretaceous to Early Tertiary Sloko group quartz monzonite batholith (see Figure 2.2). The monzonite is intruded by aplite dykes and quartz veins which are genetically related to the Sloko group.

The quartz monzonite is medium to coarse grained with a color index of 10 or less. Plagioclase occurs as subhedral white to light grey crystals surrounded by anhedral flesh pink crystals of potassium feldspar. Biotite and hornblende are the major mafic minerals present with biotite being predominate.

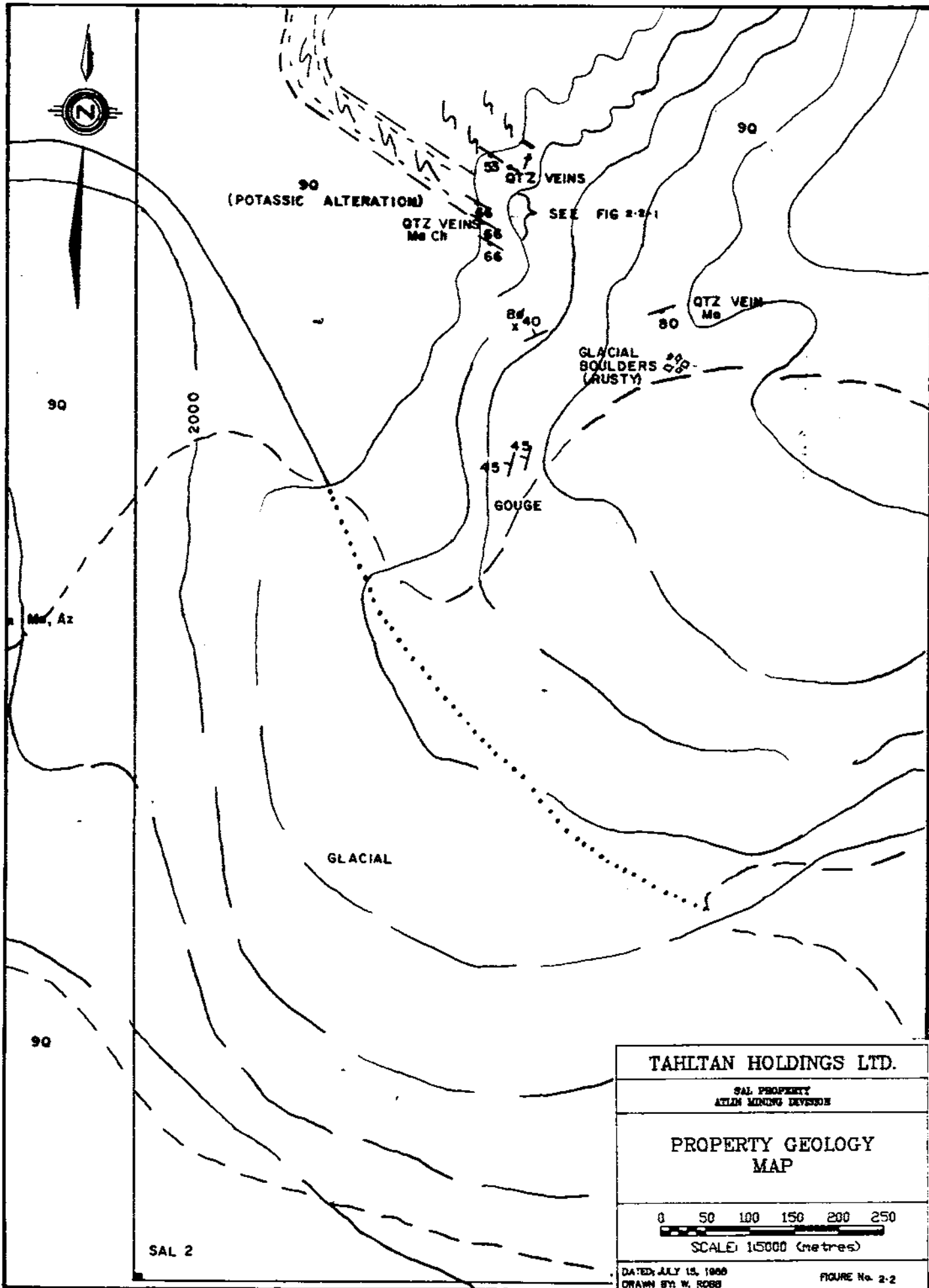
Aplite dykes composed of quartz eye porphyry and quartz monzonite porphyry run parallel to the main shear on the Sal 2 claim. Included in this shear is several parallel quartz veins, which vary in width from 2 to 40 centimeters.

### **2.4 Property Mineralization and Alteration**

The most distinct alteration feature on the Sal property is the shear which occurs on the Sal 2 claim. A potassic to sericitic alteration halo surrounds the shear zone. The shear is 40 metres wide and trends 127 and can be followed for 120 metres and is then lost in talus.

Mineralization on the property occurs in the quartz veins associated with the shear. The veins contain malachite, azurite, bornite, and minor amounts of molybdenum.

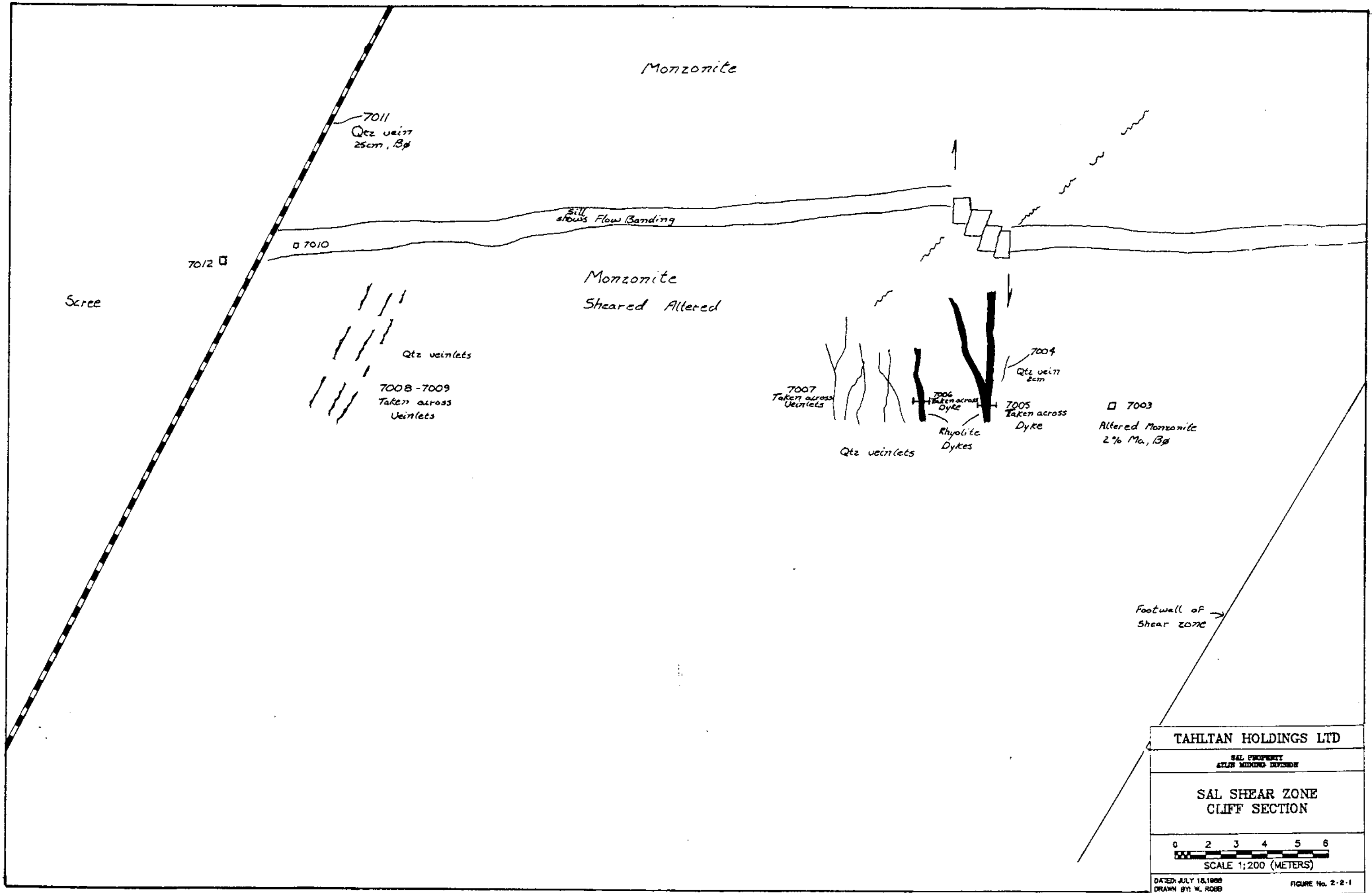
Porphyry style copper and molybdenum mineralization has been known to occur with the Sloko Group quartz-feldspar porphyry stock since the sixties. Quartz stockwork in clay alteration zones within the quartz-feldspar porphyry also host silver and weak gold mineralization.



TAHLTAN HOLDINGS LTD.	
SAL PROPERTY ATLIM MINING DIVISION	
PROPERTY GEOLOGY MAP	
0 50 100 150 200 250	
SCALE: 1:5000 (metres)	

SAL 2

DATED: JULY 15, 1986  
DRAWN BY: W. ROBB  
FIGURE No. 2-2  
Prepared by: STANTON RESOURCE MGMT. CORP.



TAHLTAN HOLDINGS LTD	
SAL PROPERTY ATLIN MINING DIVISION	
SAL SHEAR ZONE CLIFF SECTION	
SCALE 1:200 (METERS)	
DATED: JULY 18, 1988	FIGURE No. 2-2-1
DRAWN BY: W. ROBB	
Prepared by: STETSON RESOURCE MGMT. CORP.	

### 3. GEOCHEMISTRY

#### 3.1 Rock Chip Sampling

##### 3.1.1 Sampling, Sample Preparation and Analytical Procedures

Rock chip samples were collected from all outcrops with visible mineralization, boxwork, iron staining or silicification, and from all quartz  $\pm$  carbonate stockwork veins.

Selected samples were taken where the width of the zone of interest could not be determined. Chip samples were taken at regular intervals (according to the size of the unit) across: the width of lenses and veins; wallrock to beds and veins; and gossanous, siliceous or pyritic zones. A total of 54 rock samples were collected and sent for analysis.

The samples were placed in numbered plastic bags and sent to Bondar-Clegg in Whitehorse for analysis. In the laboratory, samples were put through primary and secondary crushers. A sub-sample of approximately 250 gm was then pulverized to minus 100, 140 or 150 mesh. The pulp was then analyzed for gold, silver and other elements according to visible or suspected mineralization (see Appendix I for specifics).

##### 3.1.2 Discussion of Results

Quartz veins occurring in the shear zone generally carried low gold values, anomalous gold values were detected from samples 101WR, 111WR, 114WR, 115WR, and 7017. Sample 101WR occurs where the shear is lost to talus. Samples 111, 114, 115WR occur in small parallel shears just to the north of the main shear zone. Sample 7017 was taken in the cirque below the main shear (see Figure 3.1).

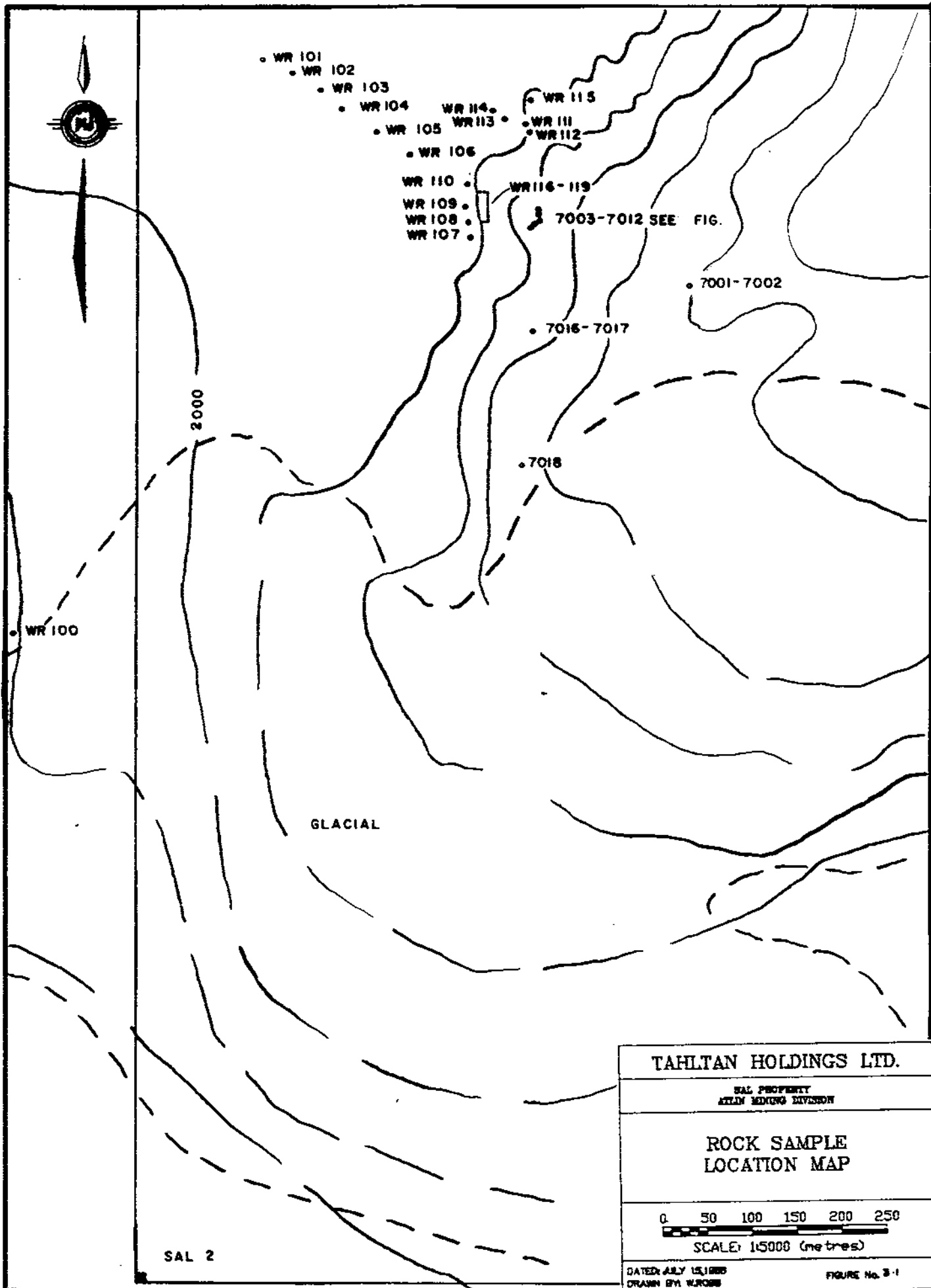
Significant assay results, locations and descriptions of samples are given in Table 3.1. All sample locations are shown on Figure 3.1 and results are in Appendix I.

#### 3.2 Soil Sampling

##### 3.2.1 Sampling, Sample Preparation and Analytical Procedures

On the Sal property soil samples were collected at 2 meter stations on lines trending 020 spaced 25 meters apart. The grid covers the surface expression of the shear on the Sal 2 claims.





SAL 2

TAHLTAN HOLDINGS LTD.	
SAL PROPERTY ATLANTIC DIVISION	
ROCK SAMPLE LOCATION MAP	
SCALE: 1:5000 (metres)	
DATED: JULY 15, 1988 DRAWN BY: WJROB	FIGURE No. 3-1
Prepared by SIBSON RESOURCE MGMT. CORP.	

## Sal Table 3.1

SAMPLE #	LOCATION	ROCK TYPE W/MINERALIZATION	ALTERATION	WIDTH	ATTD.	ANALYTICAL
100 WR	258m along Shear	Quartz breccia Malachite, Azurite, Molybdenite Qtz vein, Float	Potassic	Talus		760 ppb Au 750 ppm Ag
101 WR	233m along Shear	Malachite, Bornite, Molybdenite Quartz vein, Float		Talus		200 ppb Au, 150 ppm Ag
102 WR	203m along Shear	Malachite, Molybdenite Quartz vein Float Malachite		Talus		15 ppb Au, 8.5 ppm Ag
103 WR	180m along Shear	Monzonite, with quartz eyes, Malachite	Potassic	Talus		<5 ppb Au .4 ppm Ag
104 WR	141m along Shear	Monzonite	Potassic	Talus		<5 ppb Au .5 ppm Ag
105 WR	114m along Shear	Sheared Monzonite, 3 quartz veins Malachite	Potassic	Talus		<5 ppb Au .1 ppm Ag
106 WR	at cliff along Shear	Quartz vein, Malachite, Bornite	Potassic	veins 8, 5, 1cm	127/66 SE	5 ppb Au .8 ppm Ag
107 WR	at cliff	Quartz vein, Malachite, Bornite		14cm	127/66 SE	
108 WR	at cliff	Quartz vein, Malachite	Potassic	25cm	127/66 SE	15 ppb Au 7.5 ppm Ag
109 WR	at cliff	Quartz vein, Malachite, Bornite		18cm	127/66 SE	25 ppb Au 5.6 ppm Ag
110 WR	140m North of Main Shear	Quartz vein, Malachite				400 ppb Au 250 ppm Ag
111 WR	20m West of WR II	Quartz vein, Malachite, Bornite		14cm	127/53 SE	50 ppb Au 46 ppm Ag
112 WR	18m West of WR III	Quartz vein, Float, Malachite	Potassic			80 ppb Au 17 ppm Ag
113 WR	35m West of WR	Quartz vein, Float	Potassic			170 ppb Au 750 ppm Ag
114 WR	115 samples	Quartz vein, Malachite, Bornite	Potassic			130 ppb Au 750 ppm Ag
115 WR	116-119 samples	altered Monzonite, Malachite Bornite	Potassic			22 ppb Au .5 ppm Ag
116 WR	Taken at cliff	" " "	Potassic			<5 ppb Au .5 ppm Ag
117 WR	along shear	" " "	Potassic			<5 ppb Au .5 ppm Ag
118 WR		" " "	Potassic			<5 ppb Au .5 ppm Ag
119 WR		" " "	Potassic			<5 ppb Au .5 ppm Ag

SALT REPORT

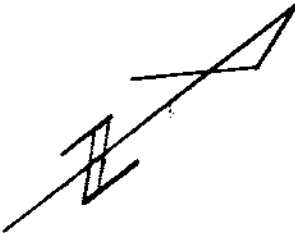
SAMPLE #	LOCATION	ROCK TYPE W/MINERALIZATION	ALTERATION	WIDTH	ATTD.	ANALYTICAL
7001	Knoll at foot of Sal Shr	Monz. Brown Shear // sheeted Qz V.s. to 5cm	Supergene?		070/80S	Ag 0.6 Au 10ppb
7002	" " "	" " " " " "	Supergene	CRAB		Ag 0.8 Au 10ppb
7003	Foot of Sal 0100	Monz. Rusty She. w/ 1cm blebs Mal	Supergene + clay alter.	2m		Not Submitted?
7004	0102m	Monz. K. Sp. Alc. 2cm Qz V.	Potassic-Ksp	0.4m		Ag 1 Au 45
7005	0108m	Rhy's dyke	Not Evident	0.5m	Vertical	
7006	0112m	" " w/ Mal staining	" "	0.2m	"	
7007	0113m	Qz V.s (7 across 5m)	? ?	5.0m	160/80W	Au 320ppb Ag 750
7008	0117	Qz V.s (+2cm) in Brown Wooded Monz	maybe	1.0m	140/80W	
7009	0148	Qz V.s (+2cm) in Brown Wooded Monz	Maybe	1.25m	140/85W	
7010	15m above 7008+9	Rhy's sill Flow breccia 1.5m thick		juke		Ag 0.1 Au 10
7011	20m above 7008+9	Qz V. (+25m) Mal in HW	Potassic Alt. Selvage-Ksp			Ag 0.2 Au 10
7012	30m H/W of Sal Shr	Monz. Rusty w/ blebs of Bø to 20%	Potassic Alt.	3m	→	Ag 8.1 Au 75
7013	0182m	Monz. " Pink w small sugary Qz V.	" "	1m	?	
7014	0184m	Monz. " " " " + Manganese Stains	" "	0.7m	?	Ag 3 Au 45
7015	0170m	Qz V.s (3.5cm + 2cm) Rusty	Unknown	0.175m	122/75W	Ag 0.2 Au 45 Cu 152
7016	1.23m	Msv Bø Monz. Host	" "	Feldspar	→	Ag 1.8 Au 70ppb
7017	"	Msv Bø Tubular 2.5cm thick		"	→	Ag 750 Au 7000ppb
7018	2104m	Monz Qz + Bø 5cm	yes	3m	→	Ag 3.1 Au 10 Cu 3100
7019	3153	Course from L/A (low angle) Fault	Fault Course	0.25m	012/45W	Ag 0.6 Au 5

A total of 80 samples were collected from the "B" soil horizon at an average depth of 10-15 centimeters using a lightweight mattock. All samples were sent to Bondar-Clegg in Whitehorse.

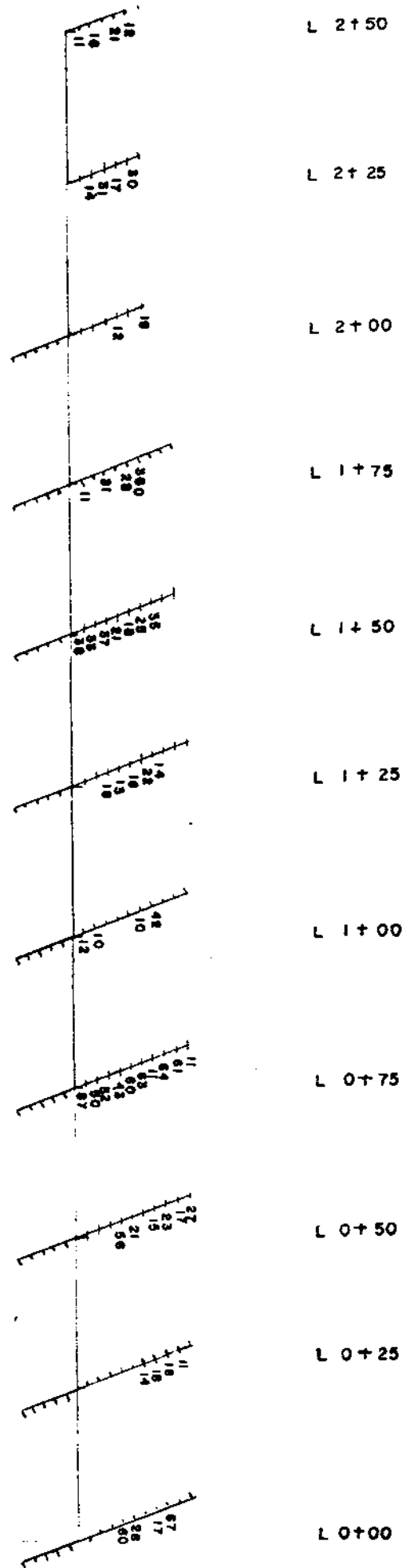
In the laboratory, samples were oven-dried at approximately 60° C. The dried samples were ring pulverized to minus 80 mesh and were analyzed for gold and 33 elements by ICP (Inductively Coupled Plasma).

### 3.2.2 Discussion of Results

Only gold values (ppb) have been plotted, the soil samples do not delineate any major features, several spot highs do occur but do not show any preferred orientation or pattern (see Figure 3.2).



SAMPLES LESS THAN  
10ppb Au ARE NOT PLOTTED



<b>TAHLTAN HOLDINGS LTD.</b>	
SAL PROPERTY ATLANTIC MINING DIVISION	
<b>SOIL GRID AU (PPB)</b>	
<p>SCALE 1:1000 (METERS)</p>	
DATED: JULY 15, 1988	FIGURE No. 3-2
DRAWN BY: W. ROED	
Prepared by: STEINSON RESOURCE MGMT. CORP.	

### CONCLUSIONS

Mineralization on the Sal property is confined primarily to the shear zone located on the Sal 2 claim. Bornite, malachite, azurite and minor amounts of molybdenite are visible in quartz veins. High gold and silver values were obtained from 5 samples either taken from the main shear or from parallel shears to the north.

### RECOMMENDATIONS

Based on the conclusions stated, the following two phased exploration program is recommended. The decision to proceed with Phase II is contingent upon favourable results from Phase I.

#### Phase I

- 1) Geophysical Surveys: Magnetic and Electromagnetic Surveys should be carried out over the main shear zone to delineate its extent.
- 2) Detailed mapping and systematic rock chip sampling of the extension of the shear zone delineated by the geophysical surveys.
- 3) Blasting or trenching of zones with anomalous metal concentrations in soils or felsenmeer.
- 4) Prospecting should be carried out on portions of the property unexplored to date.

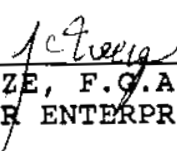
#### Phase II

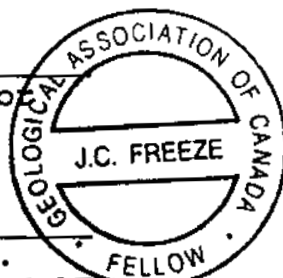
Diamond drilling should be carried out on the best targets outlined by Phase I. Favorable structures should be tested for both strike and depth extents.

Respectfully Submitted,  
STETSON RESOURCE MANAGEMENT CORP.

  
W.J. DYNES, Prospector

  
W. ROBB, B.Sc.

  
J.C. FREEZE, F.G.A.C.  
STILLWATER ENTERPRISES LTD.



**COST STATEMENT FOR THE VINE AND SAL PROPERTIES**

**Project Preparation:**

Printing			\$	54.16
Maps				612.63
Drafting				373.95
<b>Personnel:</b>				
J.C. Freeze	2	man days @ \$300/day		600.00
J.F. Wetherill	10	man days @ \$225/day		2,250.00
				<u>          </u>
			\$	3,890.76

**Field Personnel:**

<b>Geologists:</b>				
J.C. Freeze	12	man days @ \$300/day	\$	3,600.00
J.F. Wetherill	13	man days @ \$225/day		2,925.00
W. Robb	7.5	man days @ \$225/day		1,687.50
<b>Prospectors:</b>				
W.J. Dynes	10	man days @ \$225/day		2,250.00
R. Prois	8	man days @ \$200/day		1,600.00
<b>Field Technicians:</b>				
M. Pym	12	man days @ \$200/day		2,400.00
C. Gjendem	13	man days @ \$175/day		2,275.00
A. Wardwell	11	man days @ \$175/day		1,925.00
L. Beaudin	9	man days @ \$175/day		1,575.00
<b>Cook and First Aid Attendant:</b>				
W. Elliot	11	man days @ \$200/day		2,200.00
				<u>          </u>
		<b>Total:</b>	\$	22,437.50

**Support:**

<b>Mobilization/Demobilization</b>				
Truck Rental			\$	251.46
Freight				370.06
Fixed Wing				2,066.24
Flights				2,905.77
				<u>          </u>
		<b>Total:</b>	\$	5,593.53

**Camp:**

Room	104.5 man days @ \$25.00/mdy	\$	2,612.50
Groceries	104.5 man days @ \$21.77/mdy		2,274.97
Grocery Flights	104.5 man days @ \$ 5.02/mdy		524.59
Motel Accommodation			172.95
Restaurant Meals			309.16
<b>Equipment Rental:</b>			
Generator	104.5 man days @ \$2.77/manday	\$	289.47
Chainsaw	104.5 man days @ \$3.34/manday		349.03
<b>Communications:</b>			
SBX-11-Rental	104.5 man days @ \$1.22/manday		127.49
Parts	104.5 man days @ \$1.84/manday		192.28
Walkie Talkies	104.5 man days @ \$3.23/manday		337.54
Long Distance			330.95
Expediting	104.5 man days @ \$10.95/manday		1,144.28

Total: \$ 8,665.19

Supplies \$ 5,112.57

Assays \$10,551.60

**Transportation:**

Helicopter & Fuel - 31.77 hours @ \$591.9/hour	\$18,804.66
Fuel Flights	1,469.86
Courier & Taxis	412.99

Total: \$ 20,687.51

Sub Total \$ 76,938.66

12% Overhead Administration: \$ 9,232.64

TOTAL COSTS \$ 86,171.30

**Allocation of costs to the Vine Property:**

75.5 man days / 104.5 total man days = 72.25 %

72.25% of Total Costs \$86,171.30 = \$62,258.76

**Allocation of Costs to the Sal Property:**

29 man days / 104.5 total man days = 27.75 %

27.75% of Total Costs \$86,171.30 = \$23,912.54



REFERENCES

- FREEZE, J.C., May 1987 Report on the Northern Gold Project, Atlin Mining Division for Lightning Creek Mines Ltd. and Dia Met Minerals Ltd.
- FREEZE, J. C., Feb. 1988 Report on the Vine Property, Atlin Mining Division for Waterford Resources Ltd.
- FREEZE, J.C., Mar. 1988 Report on the Ant Property, Atlin Mining Division for Wicklow Resources Ltd.
- KENWAY, R.W., 1986 Golden Bear Project of North American Metals Corp. by Uma Engineering Ltd.
- LINDGREN, W., 1933 Mineral Deposits, p. 529-534.
- MONGER, J.W.H., 1984 Cordilleran Tectonics: a Canadian perspective; Societe Geologique de France, Bulletin (7) + XXVI, No. 2 P.255-278.
- NEY, C.S., 1963 Report on Geology and Geochemistry Prospect, Fae claims, Atlin Mining Division for Kennco Explorations Limited.
- SEVENSMA, P.H., 1972 Geological and Geochemical Report for Skyline Explorations Ltd., Norm Group.
- SOUTHER, J.G., 1971 Geology and Mineral Deposits of Tulsequah Map Area, British Columbia; Geol. Surv. Can. Mem. 362.
- STEVENSON, R.W., 1976 Report on Rock, Soil and Silt Geochemical Survey, Fae No. 1 Claim Group for Kennco Explorations Limited.
- THICK, M., and  
WALTON, G., 1983 Assessment Report Geological and Geochemical Survey, Iver Group, Atlin Mining Division.
- WALTON, G., 1984 Assessment Report Geological, Geochemical Surveys, Giver, Taker claims, Atlin Mining Division.

**STATEMENT OF QUALIFICATIONS**

**NAME:** Freeze, J.C., (nee Ridley), F.G.A.C.

**PROFESSION:** Consulting Geologist

**EDUCATION:** 1981 B. Sc. Geology -  
University of British Columbia

1978 B.A. Geography -  
University of Western Ontario

**PROFESSIONAL ASSOCIATIONS:** Fellow of the Geological Association of Canada

**EXPERIENCE:** 1987 - Present: Consulting Geologist with Stillwater Enterprises Ltd. Directing exploration programs and reviewing properties in Canada and U.S.A.

1985 - 1986: Project Coordinator - Geologist with White Geophysical Inc. Coordinating mineral exploration projects involving geology, geochemistry, geophysics and diamond drilling in B.C. and Yukon.

1981 - 1985: Project Geologist with Mark Management Ltd. Hughes-Lang Group. Responsible for precious metals exploration programs involving geology, geochemistry, geophysics and diamond drilling in Western Canada.

1979 - 1981: Summer and part-time Geologist involved with coal exploration in N.E. B.C. with Utah Mines Ltd.

**STATEMENT OF QUALIFICATIONS**

**NAME:** Dynes, W. J.

**PROFESSION:** Prospector

**TRAINING:** 1985 Exploration Geochemistry  
U.B.C.

1983 B.C.D.M. Mineral  
Exploration Course

1982 B.C. Yukon Chamber of Mines  
Prospectors Mining School

**PROFESSIONAL  
ASSOCIATIONS:** Member of the Geological Association  
of Canada - Cordilleran Division

**EXPERIENCE:** 1987 - Present: Prospector with  
Stetson Resource Management Corp.  
Field Supervisor for exploration  
programs involving geology,  
geochemistry, and geophysics in  
B.C. and Yukon.

1984 - 1987: Prospector and Manager  
of Geo P.C. Services Inc.  
Prospector involved with geological  
geochemical and geophysical aspects  
of exploration programs in B.C.

1975 - 1978: Analytical Chemist with  
Noranda Mines Ltd., Boss Mountain  
Division

**STATEMENT OF QUALIFICATIONS**

**NAME:** Wetherill, J. F.

**PROFESSION:** Geologist - Engineer in Training

**EDUCATION:** 1987 B.A.Sc. Geology -  
University of British Columbia

**EXPERIENCE:** 1987 - Present: Geologist with  
Stetson Resource Management Corp.  
Field Supervisor for exploration  
programs involving geology,  
geochemistry, and geophysics in  
B.C. and Yukon.

1986, June - August: Field Assistant  
- Geologist involved with  
geological, geochemical and  
geophysical aspects of exploration  
programs in B.C.

STATEMENT OF QUALIFICATIONS

**NAME:** Robb, W.D.

**PROFESSION:** Geologist

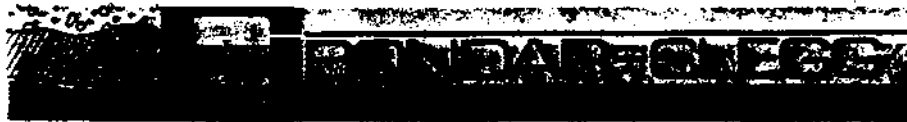
**EDUCATION:** 1987 B.Sc. Geology -  
University of British Columbia

**EXPERIENCE:** 1987 - Present: Geologist with  
Stetson Resource Management Corp.  
Field Supervisor for exploration  
programs involving geology,  
geochemistry, and geophysics in  
B.C. and Yukon.

1986, June - August: Field Assistant  
- Geologist involved with  
geological, geochemical and  
geophysical aspects of exploration  
programs in B.C.

1978 to 1982: Land Surveyor with  
Canadian National Railways,  
Edmonton, Alberta; British Columbia  
Railways, Tumbler Ridge; and  
Hargraves and Associates, Vancouver,  
B.C.

**APPENDIX I**  
**Rock Geochemistry Results**



REPORT: 127-10228 ( COMPLETE )

REFERENCE INFO:

CLIENT: STETSON RESOURCE MANAGEMENT  
 PROJECT: SAL

SUBMITTED BY: UNKNOWN  
 DATE PRINTED: 16-DEC-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag Silver	33	0.1 PPM	HN03-HCL HOT EXTR	Atomic Absorption
2	Au Gold - Fire Assay	33	5 PPB	FIRE-ASSAY	Fire Assay AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	1	1 -80	1	DRY, SIEVE -80	1
R ROCK OR BED ROCK	32	2 -150	32	CRUSH,PULVERIZE -150	32

REMARKS: SAMPLE SAL101WR REPEAT = 50 PPB AU

ASSAY OF HIGH Ag TO FOLLOW ON REPORT #627-10228

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INVOICE TO: STETSON RESOURCE MANG.

REPORT: 127-10228

PROJECT: SAL

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Au PPB
S1 FAULT GOUGE		0.8	10
R2 DY503		0.4	<5
R2 DY514		0.6	10
R2 DY518		11.0	35
R2 DY522		0.8	<5
R2 JCF 108		0.1	10
R2 SAL100WR		>50.0	760
R2 SAL101WR		15.0	200
R2 SAL102WR		8.5	15
R2 SAL103WR		14.0	10
R2 SAL104WR		0.4	<5
R2 SAL105WR		0.5	<5
R2 SAL106WR		0.1	<5
R2 SAL107WR		0.8	5
R2 SAL109WR A		0.2	<5
R2 SAL109WR B		7.5	15
R2 SAL110WR		5.6	25
R2 SAL111WR		>50.0	400
R2 SAL112WR		46.0	50
R2 SAL113WR		17.0	80
R2 SAL114WR		>50.0	170
R2 SAL115WR		>50.0	130
R2 7001		0.6	10
R2 7004		0.1	<5
R2 7010		0.1	<5
R2 7011		0.2	10
R2 7012		3.1	75
R2 7016		1.8	70
R2 7017		>50.0	7900
R2 7021		1.4	10
R2 7022		0.5	<5
R2 7024		0.1	<5
R2 7029		<0.1	<5





OCT 08 1987

REPORT: 127-7336 ( COMPLETE )

REFERENCE INFO:

CLIENT: STETSON RESOURCE MANAGEMENT  
PROJECT: SALSUBMITTED BY: J. FREEZE  
DATE PRINTED: 6-OCT-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	46	5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
2	Sb Antimony	46	0.2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
3	As Arsenic	46	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
4	Ba Barium	46	100 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
5	Br Bromine	46	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
6	Cd Cadmium	46	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
7	Ce Cerium	46	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
8	Cs Cesium	46	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
9	Cr Chromium	46	50 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
10	Co Cobalt	46	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
11	Eu Europium	46	2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
12	Hf Hafnium	46	2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
13	Ir Iridium	46	100 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
14	Fe Iron	46	0.5 PCT	NOT APPLICABLE	INST. NEUTRON ACTIV.
15	La Lanthanum	46	5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
16	Lu Lutetium	46	0.5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
17	Mo Molybdenum	46	2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
18	Ni Nickel	46	50 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
19	Rb Rubidium	46	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
20	Sa Samarium	46	0.1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
21	Sc Scandium	46	0.5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
22	Se Selenium	46	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
23	Ag Silver	46	5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
24	Na Sodium	46	0.05 PCT	NOT APPLICABLE	INST. NEUTRON ACTIV.
25	Ta Tantalum	46	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
26	Te Tellurium	46	20 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
27	Tb Terbium	46	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
28	Th Thorium	46	0.5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
29	Sn Tin	46	200 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
30	W Tungsten	46	2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
31	U Uranium	46	0.5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
32	Yb Ytterbium	46	5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
33	Zn Zinc	46	200 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
34	Zr Zirconium	46	500 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.

Bondar-Clegg & Company Ltd.  
130 Pemberton Ave.  
North Vancouver, B.C.  
Canada V7P 2R5  
Phone: (604) 985-0881  
Telex: 04-152867



Geochemical  
Lab Report

REPORT: 127-7336 ( COMPLETE )

REFERENCE INFO:

CLIENT: STETSON RESOURCE MANAGEMENT  
PROJECT: SAL

SUBMITTED BY: J. FREEZE  
DATE PRINTED: 6-OCT-87

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	46	2 -150	46	CRUSH, PULVERIZE -150	46

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REPORT: 127-7336

PROJECT: SAL

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SAMPLE NUMBER	ELEMENT UNITS	Au PPM	Sb PPM	Ag PPM	Ba PPM	B* PPM	Ca PPM	Co PPM	Cs PPM	Cr PPM	Cu PPM	Eu PPM	Hf PPM
R2 L0+00 2MS		<5	9.5	17	690	<5	<10	34	2	<50	<10	<2	5
R2 L0+00 4MS		4	2.9	13	760	<5	<10	15	3	<50	<10	<2	3
R2 L0+00 6MS		<5	3.7	16	710	<5	<10	23	4	<50	<10	<2	4
R2 L0+00 8MS		<5	3.4	16	850	<5	<10	23	2	<50	<10	<2	7
R2 L0+00 10MS		<5	1.2	7	620	<5	<10	11	<1	79	<10	<2	2
R2 L0+25 2MS		<5	1.3	8	1100	<5	<10	<10	4	<50	<10	<2	<2
R2 L0+25 4MS		<5	1.3	13	810	<5	<10	25	3	<50	<10	2	1
R2 L0+25 6MS		<5	1.5	9	900	<5	<10	18	2	<50	<10	<2	<2
R2 L0+25 8MS		<5	1.2	9	770	<5	<10	13	2	59	<10	<2	2
R2 L0+25 10MS		<5	1.3	6	1100	<5	<10	17	2	<50	<10	<2	4
R2 L0+50 2MS		<5	2.5	31	1100	<5	<10	17	2	<50	<10	<2	<2
R2 L0+50 4MS		<5	1.8	15	930	<5	<10	<10	1	70	<10	<2	2
R2 L0+50 6MS		<5	2.3	13	960	<5	<10	13	2	<50	<10	<2	<2
R2 L0+50 8MS		<5	1.8	10	760	<5	<10	<10	2	<50	<10	<2	<2
R2 L0+50 10MS		<5	1.1	6	1100	<5	<10	20	2	129	<10	<2	2
R2 L0+50 12MS		<5	1.5	16	1100	<5	<10	<10	8	59	<10	<2	<2
R2 L0+75 2MS		<5	2.0	10	820	<5	<10	<10	2	59	<10	2	<2
R2 L0+75 4MS		<5	1.8	8	1000	<5	<10	16	3	73	<10	<2	<2
R2 L0+75 6MS		7	11.0	88	1100	<5	<10	22	1	<50	<10	<2	3
R2 L0+75 8MS		<5	1.6	8	1200	<5	<10	<10	3	89	<10	<2	3
R2 L0+75 10MS		<5	2.1	11	1100	<5	<10	<10	2	<50	<10	<2	5
R2 L1+00 2MS		<5	2.3	8	1100	<5	<10	<10	1	56	<10	<2	6
R2 L1+00 4MS		<5	1.7	6	1000	<5	<10	<10	3	<50	<10	<2	2
R2 L1+00 6MS		<5	1.9	7	1200	<5	<10	<10	<1	<50	<10	<2	3
R2 L1+00 8MS		<5	2.2	7	1100	<5	<10	12	1	110	<10	<2	3
R2 L1+00 10MS		<5	1.4	5	1000	<5	<10	11	1	77	<10	<2	2
R2 L1+25 2MS		<5	1.9	12	690	<5	<10	31	4	<50	<10	<2	3
R2 L1+25 4MS		<5	1.9	13	1000	<5	<10	38	5	61	<10	<2	2
R2 L1+25 6MS		<5	1.1	6	580	<5	<10	<10	<1	84	<10	<2	3
R2 L1+25 8MS		7	1.7	7	1000	<5	<10	17	2	99	<10	<2	3
R2 L1+25 10MS		<5	1.6	8	1300	<5	<10	<10	3	57	<10	<2	<2
R2 L1+50 2MS		<5	2.0	7	560	<5	<10	<10	2	72	<10	<2	<2
R2 L1+50 4MS		<5	1.1	4	1200	<5	<10	<10	<1	50	<10	<2	2
R2 L1+50 6MS		<5	2.1	16	710	<5	<10	22	3	83	<10	<2	<2
R2 L1+50 8MS		<5	1.1	7	1300	<5	<10	13	2	62	<10	<2	2
R2 L1+50 10MS		<5	1.1	5	1100	<5	<10	<10	2	120	<10	<2	3
R2 L1+75 2MS		<5	0.8	4	730	<5	<10	<10	3	<50	<10	<2	4
R2 L1+75 4MS		<5	1.1	6	990	<5	<10	16	2	<50	<10	<2	<2
R2 L1+75 6MS		<5	2.1	7	960	<5	<10	16	3	100	<10	<2	3
R2 L1+75 8MS		<5	1.0	6	1200	<5	<10	<10	1	85	<10	<2	3



REPORT: 127-7336

PROJECT: SAL

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SAMPLE NUMBER	ELEMENT UNITS	Ir PPM	Fe PCT	La PPM	Lu PPM	Pr PPM	Ni PPM	Rb PPM	Sr PPM	Sc PPM	Se PPM	Ag PPM	Nb PCT
R2 L0+00 2MS		<100	0.9	6	<0.5	4	<50	67	1.4	2.4	<10	<5	3.47
R2 L0+00 4MS		<100	0.7	8	<0.5	<2	<50	47	1.3	2.3	<10	<5	2.50
R2 L0+00 6MS		<100	1.2	?	<0.5	<2	<50	32	1.3	2.6	<10	<5	3.27
R2 L0+00 8MS		<100	1.1	<5	<0.5	3	<50	80	0.7	2.3	<10	<5	3.20
R2 L0+00 10MS		<100	0.8	<5	<0.5	<2	<50	49	0.5	1.9	<10	<5	2.19
R2 L0+25 2MS		<100	1.8	?	<0.5	2	<50	49	1.3	1.3	<10	<5	2.47
R2 L0+25 4MS		<100	0.8	6	<0.5	<2	<50	41	1.0	1.9	<10	<5	2.40
R2 L0+25 6MS		<100	0.9	5	<0.5	3	<50	23	0.7	3.9	<10	<5	2.50
R2 L0+25 8MS		<100	<0.5	6	<0.5	<2	<50	48	0.8	1.3	<10	<5	1.50
R2 L0+25 10MS		<100	0.7	<5	<0.5	2	<50	50	0.7	1.2	<10	<5	2.29
R2 L0+50 2MS		<100	1.3	6	<0.5	3	<50	34	0.9	1.8	<10	<5	3.20
R2 L0+50 4MS		<100	1.0	<5	<0.5	<2	<50	58	0.7	2.3	<10	<5	2.60
R2 L0+50 6MS		<100	1.6	<5	<0.5	<2	<50	40	0.7	2.1	<10	<5	2.80
R2 L0+50 8MS		<100	0.8	5	<0.5	<2	<50	42	0.8	2.2	<10	11	3.10
R2 L0+50 10MS		<100	1.2	8	<0.5	3	<50	22	0.9	1.3	<10	<5	2.30
R2 L0+50 12MS		<100	1.8	10	<0.5	2	<50	49	1.8	3.4	<10	<5	2.09
R2 L0+75 2MS		<100	1.3	6	<0.5	3	<50	37	0.7	1.2	<10	<5	3.10
R2 L0+75 4MS		<100	1.4	<5	<0.5	4	<50	76	0.8	1.6	<10	<5	2.60
R2 L0+75 6MS		<100	1.2	7	<0.5	4	<50	40	1.1	1.4	<10	<5	2.20
R2 L0+75 8MS		<100	1.3	<5	<0.5	3	<50	48	0.7	1.5	<10	<5	2.30
R2 L0+75 10MS		<100	0.6	<5	<0.5	2	<50	56	0.9	1.0	<10	<5	2.30
R2 L1+00 2MS		<100	1.1	<5	<0.5	4	<50	43	0.7	2.7	<10	<5	3.50
R2 L1+00 4MS		<100	1.0	6	<0.5	2	<50	50	0.7	2.4	<10	<5	2.90
R2 L1+00 6MS		<100	1.4	5	<0.5	3	<50	43	0.7	2.0	<10	9	2.60
R2 L1+00 8MS		<100	1.0	<5	<0.5	3	<50	52	0.6	2.0	<10	8	2.70
R2 L1+00 10MS		<100	0.7	<5	<0.5	3	<50	33	0.7	1.3	<10	<5	2.20
R2 L1+25 2MS		<100	2.4	17	<0.5	3	<50	65	1.8	3.3	<10	<5	2.40
R2 L1+25 4MS		<100	2.2	17	0.5	4	<50	39	2.6	3.9	<10	<5	2.30
R2 L1+25 6MS		<100	0.7	<5	<0.5	<2	<50	<21	0.9	1.6	<10	<5	3.10
R2 L1+25 8MS		<100	0.9	<5	<0.5	<2	<50	68	0.7	2.0	<10	<5	2.60
R2 L1+25 10MS		<100	1.3	<5	<0.5	2	<50	49	0.7	2.2	<10	6	2.10
R2 L1+50 2MS		<100	1.5	<5	<0.5	3	<50	<22	0.7	2.5	<10	<5	4.30
R2 L1+50 4MS		<100	0.6	<5	<0.5	9	<50	50	0.5	1.0	<10	<5	2.70
R2 L1+50 6MS		<100	1.3	7	<0.5	7	<50	51	0.8	2.3	<10	<5	2.70
R2 L1+50 8MS		<100	0.8	<5	<0.5	<2	<50	50	0.7	1.7	<10	<5	2.30
R2 L1+50 10MS		<100	0.7	<5	<0.5	3	<50	60	0.6	1.8	<10	<5	2.00
R2 L1+75 2MS		<100	<0.5	6	<0.5	2	<50	47	0.9	2.1	<10	<5	4.00
R2 L1+75 4MS		<100	0.3	8	<0.5	3	<50	41	1.1	0.9	<10	<5	2.4
R2 L1+75 6MS		<100	0.8	7	<0.5	4	<50	28	1.1	2.8	<10	<5	3.30
R2 L1+75 8MS		<100	1.1	<5	<0.5	5	<50	85	0.6	1.5	<10	<5	2.4



REPORT: 127-7136

PROJECT: DAL

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SAMPLE NUMBER	ELEMENT UNITS	Ta PPM	Tb PPM	Tc PPM	Td PPM	Sn PPM	U PPM	V PPM	Yb PPM	Zn PPM	Zr PPM
R2 L1+00 2MS		1	<20	<1	2.2	<200	5	2.2	<5	<200	<500
R2 L0+00 4MS		1	<20	<1	2.3	<200	<2	2.3	<5	<200	<500
R2 L0+00 6MS		<1	<20	<1	2.6	<200	<2	2.5	<5	<200	<500
R2 L0+00 8MS		1	<20	<1	2.5	<200	<2	1.8	<5	<200	<500
R2 L0+00 10MS		<1	<20	<1	2.6	<200	<2	1.1	<5	<200	<500
R2 L0+25 2MS		<1	<20	<1	1.5	<200	3	1.2	<5	<200	740
R2 L0+25 4MS		<1	<20	<1	1.9	<200	<2	2.1	<5	<200	<500
R2 L0+25 6MS		<1	<20	<1	2.3	<200	<2	1.3	<5	<200	600
R2 L0+25 8MS		<1	<20	<1	2.1	<200	<2	1.2	<5	<200	<500
R2 L0+25 10MS		<1	<20	<1	2.1	<200	<2	1.2	<5	<200	<500
R2 L0+50 2MS		<1	<20	<1	0.9	<200	3	2.2	<5	<200	<500
R2 L0+50 4MS		<1	<20	<1	2.9	<200	<2	2.2	<5	<200	<500
R2 L0+50 6MS		<1	<20	<1	1.6	<200	3	1.3	<5	<200	<500
R2 L0+50 8MS		<1	<20	<1	2.3	<200	2	1.6	<5	<200	990
R2 L0+50 10MS		<1	<20	<1	2.0	<200	<2	1.7	<5	<200	<500
R2 L0+50 12MS		<1	<20	<1	1.9	<200	2	3.8	<5	<200	<500
R2 L0+75 2MS		<1	<20	<1	1.4	<200	4	1.7	<5	<200	<500
R2 L0+75 4MS		<1	<20	<1	1.7	<200	2	1.4	<5	<200	<500
R2 L0+75 6MS		<1	<20	<1	1.6	<200	<2	4.0	<5	<200	<500
R2 L0+75 8MS		<1	<20	<1	1.7	<200	<2	1.6	<5	<200	<500
R2 L0+75 10MS		<1	<20	<1	2.5	<200	<2	1.2	<5	230	<500
R2 L1+00 2MS		<1	<20	<1	1.9	<200	5	2.2	<5	<200	<500
R2 L1+00 4MS		<1	<20	<1	1.6	<200	<2	1.4	<5	260	<500
R2 L1+00 6MS		<1	<20	<1	1.1	<200	<2	1.5	<5	<200	<500
R2 L1+00 8MS		<1	<20	<1	1.7	<200	<2	1.6	<5	<200	<500
R2 L1+00 10MS		<1	<20	<1	2.1	<200	<2	1.8	<5	<200	<500
R2 L1+25 2MS		<1	<20	<1	6.1	<200	3	5.3	<5	<200	<500
R2 L1+25 4MS		<1	<20	<1	6.7	<200	<2	6.1	<5	<200	760
R2 L1+25 6MS		<1	<20	<1	1.8	<200	<2	1.2	<5	<200	<500
R2 L1+25 8MS		<1	<20	<1	2.0	<200	2	1.3	<5	<200	<500
R2 L1+25 10MS		<1	<20	<1	1.4	<200	3	1.7	<5	<200	<500
R2 L1+50 2MS		<1	<20	<1	1.4	<200	5	1.2	<5	<200	<500
R2 L1+50 4MS		<1	<20	<1	1.5	<200	<2	5.0	<5	<200	<500
R2 L1+50 6MS		<1	<20	<1	3.6	<200	4	3.5	<5	<200	910
R2 L1+50 8MS		<1	<20	<1	1.2	<200	<2	1.9	<5	<200	<500
R2 L1+50 10MS		<1	<20	<1	2.0	<200	<2	1.5	<5	<200	<500
R2 L1+75 2MS		<1	<20	<1	1.5	<200	4	1.5	<5	<200	<500
R2 L1+75 4MS		<1	<20	<1	1.5	<200	4	1.2	<5	<200	<500
R2 L1+75 6MS		<1	<20	<1	2.0	<200	3	2.2	<5	<200	<500
R2 L1+75 8MS		<1	<20	<1	2.5	<200	<2	2.0	<5	<200	<500



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PROJECT: SAL

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SAMPLE NUMBER	ELEMENT UNITS	Au PPM	Sb PPM	As PPM	Ba PPM	Br PPM	Cd PPM	Ce PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM
R2 L1+75 10MS		<5	0.8	4	1200	<5	<10	18	3	63	<10	<2	<2
R2 L2+00 2MS		<5	1.2	6	640	<5	<10	22	2	66	<10	<2	2
R2 L2+00 4MS		<5	1.5	7	910	<5	<10	17	3	58	<10	<2	<2
R2 L2+00 6MS		<5	1.5	7	980	<5	<10	14	2	<50	<10	<2	<2
R2 L2+00 8MS		6	1.3	5	780	<5	<10	19	2	90	<10	<2	2
R2 L2+00 10MS		<5	1.5	7	910	<5	<10	12	1	66	<10	<2	2



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PROJECT: SAL

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SAMPLE NUMBER	ELEMENT UNITS	Ir PPB	Fe PCT	La PPM	Lu PPM	Nb PPM	Ni PPM	Rb PPM	Sr PPM	Sc PPM	Se PPM	Ag PPM	Zn PCT
R2 L1+75 1GMS		<100	0.6	<5	<0.5	4	<50	67	0.6	1.6	<10	<5	2.50
R2 L2+00 2MS		<100	1.1	<5	<0.5	5	<50	31	0.9	2.1	<10	<5	3.10
R2 L2+00 4MS		<100	0.3	6	<0.5	2	<50	41	1.3	2.5	<10	<5	3.20
R2 L2+00 6MS		<100	0.9	<5	<0.5	4	<50	51	0.7	1.9	<10	<5	2.10
R2 L2+00 8MS		<100	1.3	5	<0.5	20	<50	40	0.9	1.3	<10	6	2.50
R2 L2+00 10MS		<100	<0.5	<5	<0.5	4	<50	47	0.7	1.2	<10	<5	1.70



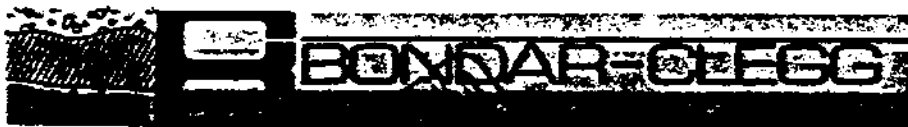
REPORT: 127-7336

PROJECT: GAL

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SAMPLE NUMBER	ELEMENT UNITS	Ta PPM	Tc PPM	Tb PPM	Th PPM	Sr PPM	U PPM	Yb PPM	Zn PPM	Zr PPM	
R2 L1+75 10MS		<1	<20	<1	1.5	<200	<2	1.5	<5	<200	<500
R2 L2+00 2MS		<1	<20	<1	2.5	<200	<2	2.2	<5	<200	<500
R2 L2+00 4MS		<1	<20	<1	2.3	<200	2	2.6	<5	<200	<500
R2 L2+00 6MS		<1	<20	<1	1.2	<200	<2	1.9	<5	<200	<500
R2 L2+00 8MS		<1	<20	<1	2.3	<200	<2	2.1	<5	<200	<500
R2 L2+00 10MS		<1	<20	<1	1.4	<200	<2	2.1	<5	<200	<500





APPROVED  
 OCT 21 1987  
 J.S. JONES

REPORT: 127-7346 ( COMPLETE )

REFERENCE INFO:

CLIENT: STETSON RESOURCE MANAGEMENT  
 PROJECT: SAL 200

SUBMITTED BY: J.C. FREEZE  
 DATE PRINTED: 20-OCT-87

Wolf

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	87	5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
2	Sb Antimony	87	0.2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
3	As Arsenic	87	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
4	Ba Barium	87	100 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
5	Br Bromine	87	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
6	Cd Cadmium	87	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
7	Ce Cerium	87	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
8	Cs Cesium	87	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
9	Cr Chromium	87	50 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
10	Co Cobalt	87	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
11	Eu Europium	87	2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
12	Hf Hafnium	87	2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
13	Ir Iridium	87	100 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
14	Fe Iron	87	0.5 PCT	NOT APPLICABLE	INST. NEUTRON ACTIV.
15	La Lanthanum	87	5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
16	Lu Lutetium	87	0.5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
17	Mo Molybdenum	87	2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
18	Ni Nickel	87	50 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
19	Rb Rubidium	87	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
20	Sa Samarium	87	0.1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
21	Sc Scandium	87	0.5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
22	Se Selenium	87	10 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
23	Ag Silver	87	5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
24	Na Sodium	87	0.05 PCT	NOT APPLICABLE	INST. NEUTRON ACTIV.
25	Ta Tantalum	87	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
26	Te Tellurium	87	20 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
27	Tb Terbium	87	1 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
28	Th Thorium	87	0.5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
29	Sr Strontium	87	200 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
30	W Tungsten	87	2 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
31	U Uranium	87	0.5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
32	Yb Ytterbium	87	5 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
33	Zn Zinc	87	200 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.
34	Zr Zirconium	87	500 PPM	NOT APPLICABLE	INST. NEUTRON ACTIV.



REPORT: 127-7346 ( COMPLETE )

REFERENCE INFO:

CLIENT: STETSON RESOURCE MANAGEMENT  
PROJECT: SAL 200

SUBMITTED BY: J.C. FREEZE  
DATE PRINTED: 20-OCT-87

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	79	1 -80	79	DRY, SIEVE -80	79
R ROCK OR BED ROCK	8	2 -150	8	CRUSH,PULVERIZE -150	8

REPORT COPIES TO: STETSON RESOURCE MANG.

INVOICE TO: STETSON RESOURCE MANG.



REPORT: 127-7346

PROJECT: SAL 200

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPM	Sb PPM	As PPM	Ba PPM	Bf PPM	Cd PPM	Ce PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM
S1 0+00W 2 N.N		<5	3.5	18	1100	7	<10	29	6	<50	<10	<2	5
S1 0+00W 4 N.N		<5	3.7	35	1100	7	<10	<23	7	<50	<10	2	<2
S1 0+00W 6 N.N		<5	8.0	67	880	9	<10	57	15	<50	<10	3	6
S1 0+00W 8 N.N		60	5.9	41	990	9	<10	27	12	<50	<10	<2	<2
S1 0+00W 10 N.N		28	5.7	42	1000	8	<10	22	11	<50	<10	<2	5
S1 0+00W 12 N.N		<5	6.7	45	1200	10	<10	30	12	<50	<10	<2	6
S1 0+00W 14 N.N		17	6.0	41	770	8	<10	<21	12	<50	<10	<2	5
S1 0+00W 16 N.N		67	4.5	28	1100	11	<10	39	11	58	<10	<2	5
S1 0+00W 18 N.N		15	6.7	35	1000	9	<10	29	12	<50	<10	<2	5
S1 0+25W 2 N.N		<10	2.4	15	1000	9	<10	<32	12	<50	<10	<2	6
S1 0+25W 4 N.N		12	4.4	20	1100	<5	<10	26	9	<50	<10	<2	5
S1 0+25W 6 N.N		<5	4.8	20	1100	5	<10	21	8	<50	<10	3	5
S1 0+25W 8 N.N		<5	3.6	17	1100	6	<10	<10	8	<50	<10	<2	4
S1 0+25W 10 N.N		<5	3.3	23	830	9	<10	<10	10	<50	<10	<2	<2
S1 0+25W 12 N.N		14	3.4	42	1000	6	<10	28	6	<50	<10	4	5
S1 0+25W 14 N.N		18	3.3	22	900	10	<10	33	11	57	<10	<2	<2
S1 0+25W 16 N.N		18	3.7	41	910	9	<10	<10	7	<50	<10	<2	4
S1 0+25W 18 N.N		11	3.2	26	1000	8	<10	25	10	<50	<10	<2	6
S1 0+50W 2 N.N		<5	3.5	23	860	11	<10	32	6	<50	<10	<2	6
S1 0+50W 4 N.N		<5	3.4	18	1100	10	<10	43	7	<50	<10	<2	6
S1 0+50W 6 N.N		<5	3.1	16	910	11	<10	21	8	62	20	<2	5
S1 0+50W 8 N.N		56	3.7	17	710	10	<10	23	6	<50	<10	<2	6
S1 0+50W 10 N.N		21	6.5	26	920	8	<10	45	7	<50	<10	<2	5
S1 0+50W 12 N.N		8	5.4	41	1000	7	<10	<21	5	<50	<10	<2	6
S1 0+50W 14 N.N		15	6.6	67	1200	7	<10	49	5	<50	<10	<2	9
S1 0+50W 16 N.N		23	5.8	100	870	12	<10	33	8	<50	<10	<2	<2
S1 0+50W 18 N.N		17	4.1	81	1000	9	<10	<21	7	<50	<10	<2	5
S1 0+50W 20 N.N		27	2.8	25	880	10	<10	29	7	<50	<10	<2	4
S1 0+75W 2 N.N		87	3.4	21	900	13	<10	23	6	<50	<10	<2	8
S1 0+75W 4 N.N		50	4.1	17	980	8	<10	22	7	<50	<10	<2	6
S1 0+75W 6 N.N		52	4.9	19	890	11	<10	33	5	<50	<10	<2	6
S1 0+75W 8 N.N		43	6.5	23	900	11	<10	37	7	<50	13	<2	9
S1 0+75W 10 N.N		60	6.2	24	890	14	<10	50	7	<50	15	<2	7
S1 0+75W 12 N.N		63	5.2	43	940	13	<10	<10	6	<50	<10	<2	6
S1 0+75W 14 N.N		11	4.9	29	1200	11	<10	27	13	<50	<10	<2	4
S1 0+75W 16 N.N		64	6.2	52	970	7	<10	26	10	<50	<10	<2	7
S1 0+75W 18 N.N		61	5.0	47	860	10	<10	46	8	<50	<10	<2	6
S1 0+75W 20 N.N		11	3.3	32	810	7	<10	<10	8	<50	<10	<2	5
S1 1+00W 2 N.N		12	3.7	16	960	8	<10	39	6	52	<10	<2	5
S1 1+00W 4 N.N		10	4.0	15	790	10	<10	34	4	<50	<10	<2	5



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PROJECT: SAL 200

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SAMPLE NUMBER	ELEMENT UNITS	Ir PPB	Fe PCT	La PPM	Tu PPM	Mo PPM	Ni PPM	Rb PPM	Sr PPB	Sc PPM	Se PPM	Ag PPM	Na PCT
S1 0+00W 2 N.N.		<100	2.2	13	0.5	2	<50	61	2.0	4.8	<10	<5	2.80
S1 0+00W 4 N.N.		<100	2.9	12	0.5	3	<50	66	1.6	5.6	<10	<5	2.70
S1 0+00W 6 N.N.		<100	2.7	19	0.6	8	<50	82	2.1	6.2	<10	8	2.60
S1 0+00W 8 N.N.		<100	3.3	15	<0.5	3	<50	93	1.6	5.6	<10	<5	2.50
S1 0+00W 10 N.N.		<100	2.3	11	<0.5	3	<50	81	1.4	5.4	<10	<5	2.30
S1 0+00W 12 N.N.		<100	2.6	16	<0.5	4	<50	97	1.5	4.9	<10	<5	2.30
S1 0+00W 14 N.N.		<100	2.8	13	0.5	<2	<50	72	1.2	5.2	<10	<5	2.40
S1 0+00W 16 N.N.		<100	2.6	20	<0.5	4	<50	75	2.3	7.1	<10	<5	2.40
S1 0+00W 18 N.N.		<100	2.7	15	<0.5	5	<50	65	1.5	6.1	<10	8	2.50
S1 0+25W 2 N.N.		<100	1.9	20	<0.5	6	<50	93	2.9	6.2	<10	13	2.70
S1 0+25W 4 N.N.		<100	2.8	19	0.6	4	<50	93	2.1	5.7	<10	<5	3.00
S1 0+25W 6 N.N.		<100	2.8	15	<0.5	<2	<50	61	1.8	4.9	<10	<5	3.20
S1 0+25W 8 N.N.		<100	2.4	12	0.5	<2	<50	75	1.4	5.3	<10	<5	2.80
S1 0+25W 10 N.N.		<100	2.9	12	<0.5	<2	<50	68	1.4	5.8	<10	6	2.80
S1 0+25W 12 N.N.		<100	2.4	14	<0.5	5	<50	41	1.7	4.8	<10	7	3.20
S1 0+25W 14 N.N.		<100	2.6	11	0.5	4	<50	56	1.2	7.1	<10	<5	2.40
S1 0+25W 16 N.N.		<100	1.6	10	<0.5	<2	<50	45	1.2	5.4	<10	<5	2.40
S1 0+25W 18 N.N.		<100	2.7	15	<0.5	4	<50	75	1.9	5.1	<10	<5	2.40
S1 0+50W 2 N.N.		<100	1.9	19	<0.5	<2	<50	71	2.8	4.5	<10	<5	2.30
S1 0+50W 4 N.N.		<100	3.0	16	<0.5	2	<50	64	2.3	5.5	<10	<5	2.60
S1 0+50W 6 N.N.		<100	2.4	11	<0.5	<2	<50	69	1.7	5.1	<10	<5	2.90
S1 0+50W 8 N.N.		<100	2.3	11	0.7	<2	<50	71	1.1	5.4	<10	<5	3.20
S1 0+50W 10 N.N.		<100	1.7	14	<0.5	5	<50	88	1.4	4.6	<10	<5	2.90
S1 0+50W 12 N.N.		<100	1.6	12	<0.5	<2	<50	59	1.7	4.9	<10	<5	3.60
S1 0+50W 14 N.N.		<100	2.5	21	<0.5	3	<50	76	2.6	6.9	<10	11	3.00
S1 0+50W 16 N.N.		<100	2.2	21	0.7	2	<50	99	2.5	6.7	<10	<5	2.60
S1 0+50W 18 N.N.		<100	2.7	17	<0.5	3	<50	71	1.8	5.9	<10	<5	2.50
S1 0+50W 20 N.N.		<100	2.5	16	<0.5	<2	<50	68	1.8	6.5	<10	<5	2.30
S1 0+75W 2 N.N.		<100	2.7	11	<0.5	<2	<50	69	1.2	5.1	<10	<5	3.20
S1 0+75W 4 N.N.		<100	2.7	13	<0.5	3	<50	68	1.6	5.6	<10	<5	3.30
S1 0+75W 6 N.N.		<100	3.4	16	<0.5	2	<50	52	2.0	6.7	<10	<5	3.10
S1 0+75W 8 N.N.		<100	2.4	16	<0.5	3	<50	66	2.3	6.5	<10	10	2.80
S1 0+75W 10 N.N.		<100	2.8	16	0.7	3	<50	80	2.1	6.9	<10	<5	3.30
S1 0+75W 12 N.N.		<100	2.2	11	<0.5	2	<50	49	1.2	5.8	<10	<5	2.80
S1 0+75W 14 N.N.		<100	1.9	17	0.7	<2	<50	95	1.9	4.8	<10	<5	2.50
S1 0+75W 16 N.N.		<100	1.9	16	<0.5	4	<50	78	1.8	4.2	<10	<5	3.20
S1 0+75W 18 N.N.		<100	2.8	16	<0.5	6	<50	93	2.0	5.3	<10	<5	2.90
S1 0+75W 20 N.N.		<100	2.2	11	<0.5	3	<50	59	1.2	5.4	<10	<5	2.60
S1 1+00W 2 N.N.		<100	2.0	13	<0.5	5	<50	66	1.5	3.8	<10	<5	2.70
S1 1+00W 4 N.N.		<100	2.6	17	<0.5	<2	<50	76	2.1	6.8	<10	<5	2.70

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SAMPLE NUMBER	ELEMENT UNITS	Ta PPM	Ta PPM	Tb PPM	Tb PPM	Sr PPM	W PPM	U PPM	Yb PPM	Zn PPM	Zr PPM
S1 0+00W 2 N.N		<1	<20	<1	5.0	<200	5	3.8	<5	<200	<500
S1 0+00W 4 N.N		<1	<20	<1	4.0	<200	7	5.6	<5	<200	<500
S1 0+00W 6 N.N		<1	<20	<1	4.9	<200	7	6.4	<5	<200	<500
S1 0+00W 8 N.N		<1	<20	<1	3.9	<200	3	5.0	<5	<200	<500
S1 0+00W 10 N.N		<1	<20	<1	4.2	<200	5	4.8	<5	<200	<500
S1 0+00W 12 N.N		<1	<20	<1	3.5	<200	6	5.0	<5	<200	<500
S1 0+00W 14 N.N		<1	<20	1	4.5	<200	6	5.3	<5	<200	840
S1 0+00W 16 N.N		<1	<20	<1	5.0	<200	6	5.7	<5	<200	<500
S1 0+00W 18 N.N		<1	<20	<1	4.5	<200	6	4.7	<5	<200	<500
S1 0+25W 2 N.N		<1	<41	<1	2.3	<200	<2	4.4	<5	<200	<1200
S1 0+25W 4 N.N		<1	<20	<1	4.3	<200	5	3.5	<5	<200	<500
S1 0+25W 6 N.N		<1	<20	<1	3.7	<200	4	4.0	<5	<200	<500
S1 0+25W 8 N.N		<1	<20	<1	3.0	<200	4	3.5	<5	<200	<500
S1 0+25W 10 N.N		1	<20	<1	4.0	<200	4	3.7	<5	<200	<500
S1 0+25W 12 N.N		<1	<20	<1	2.9	<200	2	3.1	<5	<200	<500
S1 0+25W 14 N.N		<1	<20	<1	3.6	<200	7	4.8	<5	<200	<500
S1 0+25W 16 N.N		<1	<20	<1	3.2	<200	3	4.3	<5	<200	<500
S1 0+25W 18 N.N		<1	<20	<1	4.1	<200	5	4.5	<5	<200	<500
S1 0+50W 2 N.N		<1	<20	<1	5.5	<200	3	4.7	<5	<200	910
S1 0+50W 4 N.N		<1	<20	<1	5.6	<200	6	4.5	<5	<200	<500
S1 0+50W 6 N.N		1	<20	<1	5.3	<200	<2	3.4	<5	<200	1100
S1 0+50W 8 N.N		<1	<20	<1	3.0	<200	<2	3.4	<5	<200	<500
S1 0+50W 10 N.N		<1	<20	<1	4.0	<200	6	3.9	<5	<200	<500
S1 0+50W 12 N.N		<1	<20	<1	4.6	<200	4	2.8	<5	<200	<500
S1 0+50W 14 N.N		<1	<20	<1	5.6	<200	7	5.1	<5	<200	<500
S1 0+50W 16 N.N		1	<20	<1	5.7	<200	4	5.9	<5	<200	1600
S1 0+50W 18 N.N		<1	<20	<1	4.6	<200	4	5.7	<5	<200	<500
S1 0+50W 20 N.N		<1	<20	<1	3.2	<200	5	5.7	<5	<200	810
S1 0+75W 2 N.N		<1	<20	<1	4.6	<200	4	3.0	<5	<200	<500
S1 0+75W 4 N.N		<1	<20	<1	5.4	<200	4	4.1	<5	<200	<500
S1 0+75W 6 N.N		<1	<20	<1	4.5	<200	3	4.3	<5	<200	<500
S1 0+75W 8 N.N		<1	<20	<1	4.2	<200	6	4.5	<5	300	<500
S1 0+75W 10 N.N		<1	<20	<1	4.6	<200	7	4.9	<5	<200	<500
S1 0+75W 12 N.N		<1	<20	<1	3.2	<200	7	3.5	<5	<200	<500
S1 0+75W 14 N.N		<1	<20	<1	4.6	<200	4	6.2	<5	<200	<500
S1 0+75W 16 N.N		<1	<20	<1	3.9	<200	6	4.2	<5	<200	780
S1 0+75W 18 N.N		<1	<20	<1	2.4	<200	6	4.1	<5	<200	<500
S1 0+75W 20 N.N		<1	<20	<1	4.6	<200	3	4.0	<5	<200	<500
S1 1+00W 2 N.N		<1	<20	<1	3.8	<200	6	4.4	<5	210	<500
S1 1+00W 4 N.N		<1	<20	<1	3.9	<200	5	5.0	<5	<200	1100



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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Br* PPM	Cd PPM	Ca PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM
S1 1+00W 6 N.N		<5	5.9	21	790	7	<10	<21	6	<50	<10	<2	6
S1 1+00W 8 N.N		<5	7.8	29	800	12	<10	42	6	83	<10	<2	6
S1 1+00W 10 N.N		<5	6.0	31	670	11	<10	<10	4	<50	<10	<2	4
S1 1+00W 12 N.N		10	6.1	62	1000	18	<10	44	9	<50	<10	<2	<2
S1 1+00W 14 N.N		42	6.2	16	990	6	<10	37	7	60	<10	<2	<2
S1 1+00W 16 N.N		7	5.7	33	570	<5	<10	23	4	<50	<10	<2	4
S1 1+00W 18 N.N		7	5.0	27	730	6	<10	35	8	<50	<10	<2	<2
S1 1+00W 20 N.N		<5	3.7	20	660	6	<10	<10	6	<50	<10	<2	<2
S1 1+25W 2 N.N		8	3.1	13	680	<5	<10	26	6	<50	<10	<2	<2
S1 1+25W 4 N.N		<5	3.4	17	670	8	<10	<10	6	67	<10	<2	6
S1 1+25W 6 N.N		18	2.9	17	740	10	<10	28	7	<50	<10	<2	<2
S1 1+25W 8 N.N		13	3.7	19	960	11	<10	37	11	<50	15	<2	5
S1 1+25W 10 N.N		16	4.2	22	930	13	<10	24	10	<50	<10	<2	<2
S1 1+25W 12 N.N		22	5.1	40	700	10	<10	<21	9	<50	<10	<2	4
S1 1+25W 14 N.N		14	5.5	58	720	10	<10	36	6	57	13	<2	<2
S1 1+25W 16 N.N		9	3.6	30	650	7	<10	25	7	<50	<10	<2	3
S1 1+25W 18 N.N		<5	2.9	27	980	7	<10	27	9	<50	<10	<2	<2
S1 1+50W 2 N.N		28	3.7	21	940	13	<10	35	16	<50	<10	<2	6
S1 1+50W 4 N.N		33	3.3	21	890	19	<10	40	8	<50	<10	<2	6
S1 1+50W 6 N.N		37	2.5	20	800	22	<10	33	11	<50	<10	<2	6
S1 1+50W 8 N.N		21	4.6	52	1100	16	<10	56	29	<50	<10	<2	<2
S1 1+50W 10 N.N		18	3.0	31	990	14	<10	<21	23	<50	<10	<2	<2
S1 1+50W 12 N.N		25	2.7	33	1000	17	<10	<22	20	<50	<10	<2	<2
S1 1+50W 14 N.N		35	3.4	28	1100	17	<10	30	15	<50	<10	<2	<2
S1 1+75W 8 N.N		31	4.8	43	1000	9	<10	44	9	<50	<10	<2	8
S1 1+75W 10 N.N		<5	5.3	41	1000	8	<10	43	11	<50	<10	<2	<2
S1 1+75W 12 N.N		28	4.0	44	1100	11	<10	<21	9	<50	<10	<2	6
S1 1+75W 14 N.N		360	5.9	63	850	7	<10	43	10	<50	<10	<2	9
S1 2+00W 6 N.N		<5	5.6	19	900	<5	<10	20	7	<50	<10	<2	6
S1 2+00W 8 N.N		12	6.9	20	950	<5	<10	33	8	<50	<10	<2	4
S1 2+00W 10 N.N		<5	6.1	28	900	<5	<10	44	6	<50	<10	<2	3
S1 2+00W 12 N.N		19	6.0	29	760	8	<10	25	8	<50	<10	<2	4
S1 2+25W 6 N.N		31	6.0	20	870	<5	<10	17	5	<50	<10	<2	<2
S1 2+25W 8 N.N		17	7.1	39	890	<5	<10	36	5	<50	<10	<2	8
S1 2+25W 10 N.N		30	7.0	32	900	<5	<10	19	7	<50	<10	<2	4
S1 2+50W 4 N.N		16	3.0	20	740	<5	<10	<10	5	<50	<10	<2	3
S1 2+50W 6 N.N		8	6.9	23	740	<5	<10	35	8	<50	<10	<2	5
S1 2+50W 8 N.N		21	9.0	29	560	<5	<10	<10	5	<50	<10	<2	5
S1 2+50W 10 N.N		12	7.8	25	690	<5	<10	<10	4	<50	<10	<2	4
R2 1+75W 2 N.N		11	1.1	7	930	<5	<10	<10	3	66	<10	<2	3



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SAMPLE NUMBER	ELEMENT UNITS	Ir PPB	Fe PCT	La PPM	Lu PPM	Mo PPM	Ni PPM	Rb PPM	Sr PPM	Sc PPM	Se PPM	Ag PPM	Na PCT
S1 1+00W 6 N.N		<100	2.1	14	<0.5	<2	<50	59	1.5	5.5	<10	8	3.10
S1 1+00W 8 N.N		<100	2.5	13	0.6	<2	<50	56	1.5	4.2	<10	<5	2.80
S1 1+00W 10 N.N		<100	1.4	11	<0.5	<2	<50	39	1.3	4.2	<10	<5	2.90
S1 1+00W 12 N.N		<100	2.3	20	0.6	4	<50	88	3.2	5.6	<10	<5	2.20
S1 1+00W 14 N.N		<100	2.2	16	<0.5	6	<50	58	2.2	4.4	<10	<5	3.00
S1 1+00W 16 N.N		<100	1.6	12	<0.5	4	<50	61	1.6	4.1	<10	<5	3.30
S1 1+00W 18 N.N		<100	1.6	14	<0.5	5	<50	74	1.7	4.2	<10	<5	2.60
S1 1+00W 20 N.N		<100	2.3	9	<0.5	2	<50	69	1.1	4.7	<10	7	2.10
S1 1+25W 2 N.N		<100	2.2	9	<0.5	3	<50	59	1.0	3.6	<10	<5	2.50
S1 1+25W 4 N.N		<100	2.2	14	<0.5	4	<50	73	1.2	5.0	<10	<5	2.90
S1 1+25W 6 N.N		<100	3.0	21	0.5	2	<50	85	1.8	6.1	<10	<5	2.50
S1 1+25W 8 N.N		<100	3.5	15	0.6	4	<50	58	2.0	6.3	<10	<5	2.30
S1 1+25W 10 N.N		<100	1.9	18	0.6	<2	<50	61	2.6	5.8	<10	<5	2.40
S1 1+25W 12 N.N		<100	2.2	17	0.6	3	<50	79	2.2	3.5	<10	<5	2.50
S1 1+25W 14 N.N		<100	2.1	18	<0.5	7	<50	51	2.0	5.0	<10	<5	3.00
S1 1+25W 16 N.N		<100	1.8	12	<0.5	2	<50	58	1.5	3.6	<10	<5	2.20
S1 1+25W 18 N.N		<100	2.4	10	<0.5	4	<50	60	1.4	5.2	<10	<5	1.70
S1 1+50W 2 N.N		<100	3.5	15	<0.5	7	<50	100	1.8	8.1	<10	<5	2.90
S1 1+50W 4 N.N		<100	3.4	14	0.8	8	<50	78	1.9	6.3	<10	<5	2.20
S1 1+50W 6 N.N		<100	2.9	11	<0.5	7	<50	66	1.6	7.2	<10	<5	2.40
S1 1+50W 8 N.N		<100	2.7	20	1.3	7	<50	110	2.5	8.2	<10	9	1.90
S1 1+50W 10 N.N		<100	2.5	12	0.6	2	<50	87	1.2	6.5	<10	<5	1.70
S1 1+50W 12 N.N		<100	2.6	15	0.8	4	<50	69	2.1	6.6	<10	<5	1.50
S1 1+50W 14 N.N		<100	1.9	14	1.0	4	77	110	2.3	6.2	<10	<5	2.30
S1 1+75W 8 N.N		<100	2.4	16	<0.5	8	54	77	2.4	5.8	<10	11	2.80
S1 1+75W 10 N.N		<100	2.5	16	<0.5	7	<50	64	2.0	5.0	<10	<5	2.60
S1 1+75W 12 N.N		<100	2.4	14	0.5	6	<50	61	1.8	5.8	<10	<5	2.40
S1 1+75W 14 N.N		<100	2.5	17	0.7	4	<50	58	1.9	5.7	<10	<5	3.20
S1 2+00W 6 N.N		<100	1.5	15	<0.5	4	<50	51	1.6	3.1	<10	<5	3.00
S1 2+00W 8 N.N		<100	2.1	16	<0.5	4	<50	77	2.2	3.7	<10	<5	3.30
S1 2+00W 10 N.N		<100	1.6	15	<0.5	4	<50	64	2.0	4.8	<10	<5	3.30
S1 2+00W 12 N.N		<100	1.7	15	<0.5	<2	<50	72	1.9	5.1	<10	<5	2.80
S1 2+25W 6 N.N		<100	1.9	13	<0.5	6	<50	<10	1.5	3.7	<10	<5	3.30
S1 2+25W 8 N.N		<100	2.0	14	<0.5	6	<50	42	1.9	4.0	<10	6	3.20
S1 2+25W 10 N.N		<100	1.7	15	0.6	3	<50	92	2.0	4.2	<10	<5	3.30
S1 2+50W 4 N.N		<100	1.5	8	<0.5	5	<50	48	1.3	2.5	<10	<5	2.90
S1 2+50W 6 N.N		<100	1.3	9	0.5	5	<50	53	1.5	2.1	<10	<5	3.10
S1 2+50W 8 N.N		<100	1.1	12	<0.5	4	<50	53	1.5	2.7	<10	<5	3.60
S1 2+50W 10 N.N		<100	1.3	11	<0.5	<2	<50	54	1.4	3.4	<10	<5	3.20
R2 1+75W 2 N.N		<100	1.3	<5	<0.5	4	<50	64	<0.5	1.6	<10	8	3.20

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SAMPLE NUMBER	ELEMENT UNITS	Ta PPM	Te PPM	Tb PPM	Th PPM	Sa PPM	W PPM	U PPM	Yb PPM	Zn PPM	Zr PPM
S1 1+00W 6 N.N		<1	<20	<1	3.4	<200	4	4.0	<5	<200	<500
S1 1+00W 8 N.N		<1	<20	<1	2.8	<200	5	3.8	<5	<200	<500
S1 1+00W 10 N.N		<1	<20	<1	3.4	<200	4	3.6	<5	<200	<500
S1 1+00W 12 N.N		<1	<20	<1	4.9	<200	<2	7.9	<5	<200	<500
S1 1+00W 14 N.N		<1	<20	<1	4.2	<200	4	4.4	<5	<200	<500
S1 1+00W 16 N.N		<1	<20	<1	3.6	<200	6	4.7	<5	<200	810
S1 1+00W 18 N.N		<1	<20	<1	2.9	<200	3	3.5	<5	220	1800
S1 1+00W 20 N.N		<1	<20	<1	3.1	<200	3	3.3	<5	<200	<500
S1 1+25W 2 N.N		<1	<20	<1	2.8	<200	4	3.2	<5	<200	710
S1 1+25W 4 N.N		<1	<20	<1	4.9	<200	<2	4.7	<5	<200	<500
S1 1+25W 6 N.N		<1	<20	<1	5.4	<200	3	5.4	<5	<200	<500
S1 1+25W 8 N.N		<1	<20	<1	3.8	<200	5	4.3	<5	<200	<500
S1 1+25W 10 N.N		1	<20	1	4.0	<200	4	4.8	<5	<200	<500
S1 1+25W 12 N.N		<1	<20	<1	5.3	<200	4	5.8	<5	<200	<500
S1 1+25W 14 N.N		<1	<20	<1	5.2	<200	5	6.0	<5	<200	<500
S1 1+25W 16 N.N		<1	<20	<1	3.2	<200	2	4.3	<5	<200	<500
S1 1+25W 18 N.N		<1	<20	<1	3.9	<200	6	3.7	<5	200	<500
S1 1+50W 2 N.N		<1	<20	<1	4.7	<200	5	6.6	<5	710	1400
S1 1+50W 4 N.N		<1	<20	<1	4.7	<200	5	6.5	<5	270	<500
S1 1+50W 6 N.N		<1	<20	<1	4.2	<200	6	6.4	<5	<200	<500
S1 1+50W 8 N.N		<1	<20	1	5.7	<200	<2	17.0	<5	<200	<500
S1 1+50W 10 N.N		<1	<20	<1	4.5	<200	4	8.7	<5	<200	<500
S1 1+50W 12 N.N		<1	<20	<1	5.6	<200	7	11.0	<5	<200	<500
S1 1+50W 14 N.N		<1	<20	<1	6.1	<200	5	11.0	<5	<200	<500
S1 1+75W 8 N.N		<1	<20	1	5.4	<200	4	9.1	<5	<200	1100
S1 1+75W 10 N.N		<1	<20	<1	4.1	<200	5	6.7	<5	230	<500
S1 1+75W 12 N.N		<1	<20	<1	4.2	<200	7	5.9	<5	<200	<500
S1 1+75W 14 N.N		<1	<20	<1	5.2	<200	3	6.8	<5	<200	<500
S1 2+00W 6 N.N		<1	<20	<1	2.0	<200	7	3.6	<5	<200	<500
S1 2+00W 8 N.N		<1	<20	<1	2.7	<200	9	4.1	<5	<200	<500
S1 2+00W 10 N.N		<1	<20	<1	3.0	<200	6	3.4	<5	<200	<500
S1 2+00W 12 N.N		1	<20	<1	3.4	<200	4	4.6	<5	<200	<500
S1 2+25W 6 N.N		<1	<20	<1	3.3	<200	4	4.3	<5	<200	<500
S1 2+25W 8 N.N		<1	<20	1	3.6	<200	8	5.8	<5	<200	<500
S1 2+25W 10 N.N		<1	<20	<1	3.9	<200	3	5.5	<5	<200	<500
S1 2+50W 4 N.N		<1	<20	<1	2.4	<200	3	3.9	<5	<200	<500
S1 2+50W 6 N.N		2	<20	<1	3.6	<200	4	3.5	<5	<200	<500
S1 2+50W 8 N.N		<1	<20	<1	3.5	<200	5	4.4	<5	<200	<500
S1 2+50W 10 N.N		<1	<20	<1	2.8	<200	<2	3.8	<5	<200	<500
R2 1+75W 2 N.N		<1	<20	<1	1.5	<200	<2	1.7	<5	<200	<500





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SAMPLE NUMBER	ELEMENT UNITS	Au ppm	Sb ppm	As ppm	Ba ppm	Br ppm	Cd ppm	Ca ppm	Cs ppm	Cr ppm	Co ppm	Eu ppm	Hf ppm
R2 1+75W 4 N.N		8	1.8	4	900	<5	<10	19	<1	64	<10	<2	<2
R2 1+75W 6 N.N		<5	2.7	13	740	<5	<10	16	2	55	<10	<2	<2
R2 2+00W 2 N.N		<5	1.4	5	1100	<5	<10	<10	3	110	<10	<2	2
R2 2+00W 4 N.N		8	1.5	6	770	<5	<10	<10	2	84	<10	<2	3
R2 2+25W 2 N.N		5	0.9	9	1200	<5	<10	29	2	110	<10	<2	<2
R2 2+25W 4 N.N		14	2.2	10	940	<5	<10	<10	4	62	<10	<2	2
R2 2+50W 2 N.N		11	5.5	42	960	<5	<10	<10	2	110	<10	<2	2



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PROJECT: CAL 200

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SAMPLE NUMBER	ELEMENT UNITS	Ir PPM	Fe PCT	La PPM	Lu PPM	Nb PPM	Ni PPM	Rb PPM	Sr PPM	Sc PPM	Se PPM	Ag PPM	Na PCT
R2 1+75W 4 N.N		<100	0.9	<5	<0.5	4	<50	32	0.7	1.7	<10	7	3.90
R2 1+75W 6 N.N		<100	1.0	8	<0.5	7	<50	46	0.7	1.2	<10	<5	3.30
R2 2+00W 2 N.N		<100	0.7	<5	<0.5	7	<50	64	<0.5	1.7	<10	6	2.40
R2 2+00W 4 N.N		<100	0.6	8	<0.5	3	<50	51	0.8	1.9	<10	<5	3.20
R2 2+25W 2 N.N		<100	0.6	6	0.6	16	<50	59	0.7	2.2	<10	6	2.80
R2 2+25W 4 N.N		<100	1.3	9	<0.5	5	<50	48	1.0	2.2	<10	<5	3.20
R2 2+50W 2 N.N		<100	1.3	6	<0.5	<2	<50	55	0.8	2.2	<10	6	2.90



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PROJECT: DAL 330

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SAMPLE NUMBER	ELEMENT UNITS	Ta ppm	Te ppm	Tb ppm	Tc ppm	Sn ppm	U ppm	V ppm	Yb ppm	Zn ppm	Zr ppm
R2 1-75M 4 N.N		<1	<20	<1	2.3	<200	<2	1.5	<5	<200	<500
R2 1-75M 6 N.N		<1	<20	<1	1.7	<200	2	1.9	<5	<200	<500
R2 2-100M 2 N.N		<1	<20	<1	1.1	<200	<2	1.5	<5	<200	<500
R2 2-100M 4 N.N		<1	<20	<1	2.1	<200	<2	2.2	<5	<200	<500
R2 2-25M 2 N.N		<1	<20	<1	3.4	<200	<2	3.7	<5	<200	<500
R2 2-25M 4 N.N		<1	<20	<1	2.1	<200	<2	3.1	<5	<200	<500
R2 2-50M 2 N.N		<1	<20	<1	2.6	<200	<2	2.5	<5	<200	<500