

84-#222 - 12175

1983

WORK REPORT FOR TETS GROUP

MINERAL CLAIMS - 40 units

OWNED BY J. SHELFORD

OOTSA LAKE AREA

HOUSTON B. C.

OMINECA MINING DIVISION

126 57 E53 51 N - CLAIM TAP M 93 E 15 W

OPERATOR JOHN SHELFORD

CORE LOGGED BY DEL NYENE (NOTANDA)

BY

JOHN SHELFORD (PROSPECTOR)

BOX 166 BURNS LAKE B. C.

DATE: JAN. 20 1984

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,175**



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## INTRODUCTION

The writer was born in the area in 1916, has prospected actively since 1950, and has been engaged in development work since 1959, during which time two drill programs were observed as to methods and results. In 1980 the writer directed a small drill program which produced useful information.

## HISTORY

The Tets claims were first staked in July 1969 by J. Shelford; Tets 7- 14 were added in April 1970; Tets 15- 16 were staked to replace Tets 1-2 (lapsed by mistake); Tets 17-30 were staked in Sept. 1971; Tets 31-42 were staked in May 1972; Tets 43-54 were staked in May 1972; nine fractions Tets 55-67 were added in Aug. 1973.

The property was optioned to Sibola Copper Mines (later Sibola Mines) in 1970. On June 22, 1973 Grangus Exploration Aktieblag optioned the property and carried out work during 1973- 74, at which time the option was abandoned.

By Sept. 1977 all claims were abandoned except Tets 3-12, Tets 19, 24 and 26.

In Sept. 1977 the claims were regrouped under the grid system as 15 units, named Tets claim.

In 1978 John Roy 5 units, Jim Bo 10 units, South 5 units, and Lake 5 units were added, and grouped as the Tets group.

In Feb. 1980 Sibola dropped the option and all claims were transferred to J. Shelford.

In 1980 a small shallow drill program was undertaken in the area known as Swamp Show, which illustrated the dip and strike of the known mineralized area, assisted by some blasting and trenching etc.

During 1981 drilling at 2 sites was undertaken and physical work was continued.

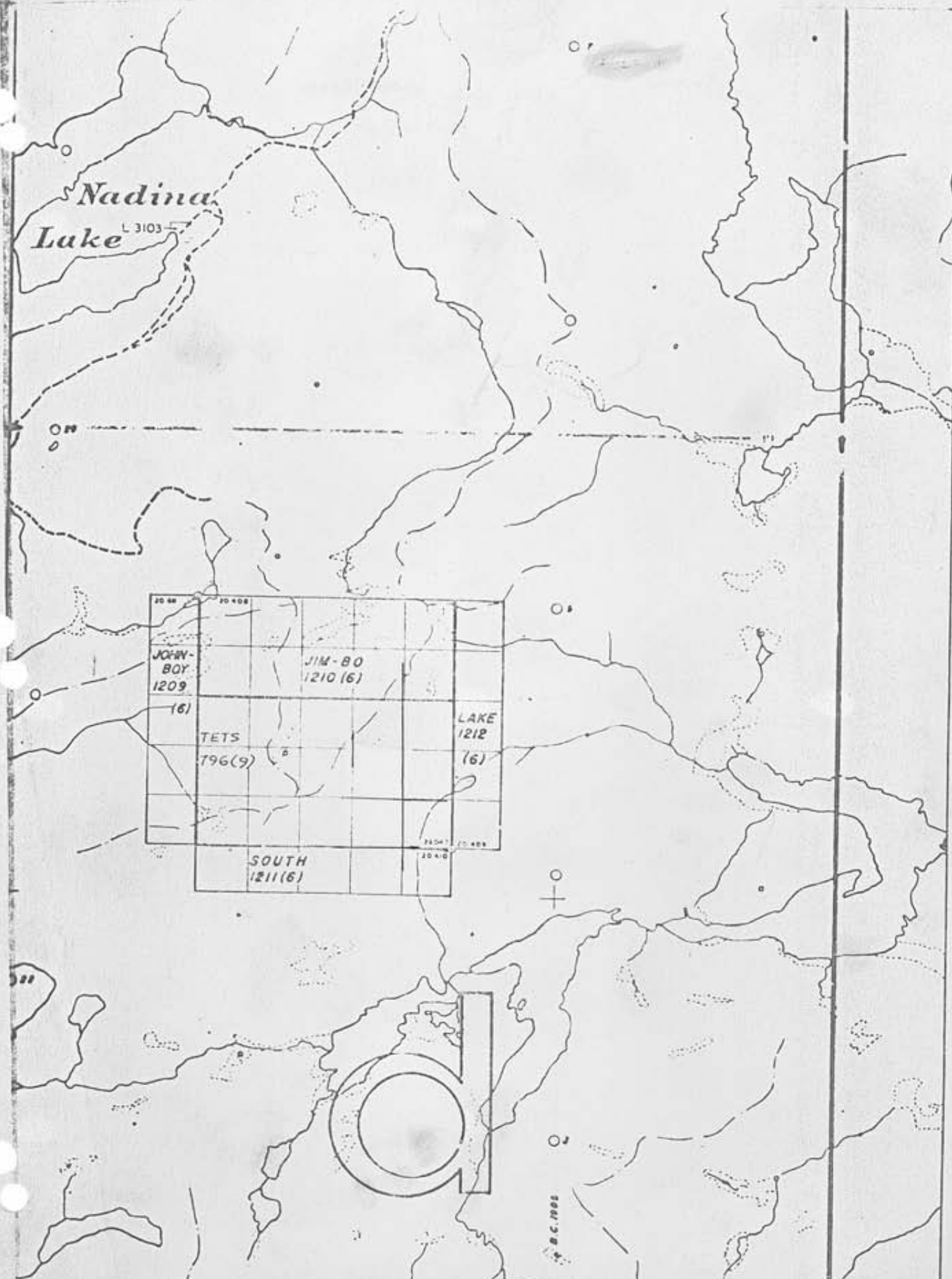


FIGURE 2

#### LOCATION AND ACCESS

"The TETS claims are located approximately 5 miles (8.05 km) northeast of Twinkle Lake, which is 40 miles (64.37 km) south of Houston, B.C. Twinkle Lake is accessible via the Tahtsa Lake road from Houston. During the 1973 program the property was serviced by an Alpine Helicopters machine, based at Twinkle Lake." Sibola built a short, 4-wheel drive access road 84 miles west of Burns Lake, near Nadina Lake, from the northwest. Logging by Eurocan Pulp & Paper has since provided an all-weather access route from the south directly onto the property.

#### TOPOGRAPHY AND CLIMATE

"Topography on the property varies from moderate to rugged with elevations ranging from 3300 to 4700 feet (1,006 m - 1,433 m). The topography appears to be structurally and geologically controlled, with the ridges exposed and the troughs occupied by swampy meadows.

The property is heavily forested with balsam, spruce and pine, all of commercial value. A logging access road has been constructed across the south-west corner of the property.

The climate is of a temperate nature, with warm summers and cold winters. The area is free of snow from July through October, making the area more readily accessible and more easily worked during this period."



## REGIONAL GEOLOGY

The area has received substantial geological activity since the discovery at Goosly Lake. Dr. Neil Church \* has spent substantial time on original mapping in the district. He shows that the region is underlain by "... a diverse suite of Mesozoic and Tertiary volcanic rocks and a number of small intrusions ...".

Specific units of the volcanic suite act as host to mineralization resulting from the feeder intrusions.

Mineralization most sought after in the area are termed "Volcanogenic" deposits. These are usually higher grade, smaller tonnage, massive and mixed sulphides of copper, lead and zinc, with substantial values in silver and some gold.

"The main stratigraphic divisions compose a lower sequence of metamorphosed strata, believed to be early Mesozoic age, and an upper sequence of cover rocks of Tertiary and possible late Mesozoic age."

"The igneous intrusions consist of acid, intermediate and basic alkaline types.

Most of these bodies are clearly younger than the lower series strata and some appear to be volcanic necks and feeders to the Tertiary volcanic rocks."

The Goosly Lake deposit, owned by Equity Mining - now under option to Granby Mines, consists of four main zones of massive and disseminated mineralization in Lower Mesozoic volcanic rocks.

Mineralization includes pyrite, pyrrhotite, chalcopyrite with minor tetrahedrite and sphalerite. The key value is in the silver which is probably related to the tetrahedrite.

The mineral zone lies within an alteration zone near the contact of syeno-monzonites and dacite.

The Nadina property near Owen Lake is also a significant mineral deposit.

The belt from Goosly, Nadina to Tsalit Mountain and reaching to the Sibola property has received substantial exploration activity by major and junior companies.

\* Church (1970) Geology of the Owen Lake, Parrott Lakes and Goosly Lake Area, G.E.M. pp. 119 - 125.

PROPERTY GEOLOGY

No geological map has been made of the area. Intrusive dykes have been recognised in the centre of the property.

Breccia, fracture, and alteration of rock appear to occur in a semicircle to the E, S and west of the intrusive area, which is closely associated with known mineral showings, associated with rhyolite dacite, tuff etc.

Mineralization consists of lenses, breccia fillings and decimated sphalerite, bournite, chalcopyrite and pyrite.

Some geological knowledge was gained during the 1980 drill season. Rock structure in the Swamp Snow area appeared to have a N-S strike and a nearly vertical or past vertical dip, and mineralization appeared to be associated with the structure.

PREVIOUS WORK \*

"On June 22, 1973, GRANGES EXPLORATION AKTIEBOLAG optioned the property and implemented the 1973 program. Between June 30 and August 5 of 1973 they carried out 8.75 miles (14.05 km) of line cutting. They collected and assayed 1294 soil samples and ran 40.63 line miles (65.39 km) of magnetometer survey. The results from this program are given in the report: Sibola Option, GRANGES EXPLORATION AKT. by R.E. Reid and G. Zbituoff.

During 1974, GRANGES carried out a limited amount of soil sampling and trenching (154 samples and two blast trenches), then returned the property to Sibola.

The Company continued the work on the property to determine the validity of the geochemical results. Later in 1974 work was done on the Granges Show at 6N - 66E, to include 33 holes and pits. This soil zinc anomalous area (Granges H5), was found to contain zinc, both "black jack" and "ruby" sphalerite.

The zone follows a massive shatter-breccia zone with mainly disseminated and rim-textured sphalerite with some local chalcopyrite. Comparison of the soil zinc map and the zinc found in place indicates that the soil results are indicative in the Granges Area.

In 1975, physical work was carried out again. A 10' x 10' trench was blasted at "Jim's Pit" and sampled, uncovering massive bornite. Five test pits were dug at the "Zinc Pit" and 3 pits and one trench on the "Hill Top Show". The Zinc Pit contained Zinc, Copper, Silver and Lead replacing shattered pyrite. The Hill Top Show is contained in the large Copper anomalous zone centered 6N - 56E and explains the cause. Blasting and trenching uncovered native copper and chalcocite in small quartz-calcite veinlets. The size or magnitude is not known but can explain high soil copper.

In 1976, 27 blast holes and pits and a 15 foot by 4 foot trench were added to the Granges Show.

In 1977, a new area was found at "Base 48". Nineteen test holes, two ten foot trenches, one twelve foot trench and a ten foot by ten foot test hole were blasted into the overburden and underlying rock. This area contains good exposure of copper-silver, bornite-chalcopyrite-tetrahedrite(?) over an area 25 feet by 400 feet, open at both ends."

\* - Summary by Sibola staff.

PREVIOUS WORK CONTINUED

## Rock stripping and trenching 1979

A total of 1054 cubic feet or 171.5 cubic meters of rock was blasted, trenched and pitted in four zones on the property. The areas selected were near the diamond drill targets to broaden the visible rock exposure and sampling.

In zone 1 the Stamp Show, Base 48 area ( DD No. 6 to No.9 ), two rock trenches were blasted totalling 1450 cubic feet, and eight pits for 384 cubic feet totalling 1834 ft<sup>3</sup>(56.0)m<sup>3</sup>

In zone 2, the Bear Snow (DD No.11 to No.16) three rock trenches and twelve pits were blasted, totalling 2402 cubic feet or (82 cubic meters )

In zone 3, the Base 44 Snow ( DD No. 24 and No. 25 ) two rock trenches and two rock pits were blasted for 1122 cubic feet (31.8 cubic meters

In zone 4, the Grangus Show area ( DD No.29) one rock trench was blasted and four rock pits for 696 cubic feet or 19.6 cubic meters

DIAMOND DRILL PROGRAM

Mauro C. Baretta 26985- 100 AVE. Whannook B.C. completed 29 diamond drill holes for a total of 1800 FT. using a winkle drill and a Passe Par Tote ( all terrain vehicle ) for transport of the drill , water was pumped from local water sources with one and two pumps in tandem.

This was done as a result of Ron Stokes

PREVIOUS WORK CONTINUED

recomendation that known showings be crosscut with a drill to test at depth , however very little of this was done , and instead most holes were of a prospecting nature in anomolus areas. Consequently they were so far apart that it is impossible to get structure information from any two holes to compare them.

In 1980 a shallow drill program was done in the Swamp Show area.

In 1981 one drill hole and some trenching was done at the Harry Snow, also eight very shallow holes were put in at the Granges Show.

1983 DRILL PROGRAM

On June 19 the drill was moved , and set up at the Stump Show at 48 E 2 S . Drill was placed with the intent of crosscutting the contact of a dark volcanic tuff and a red volcanic porphery breccia, with a gossan between them . SI was collared on the red volcanic at 45° down facing N60 E. Water supply was poor , and remained so all year. The water pressure pump broke down , so a siphon system was tried . At 4 ft the drill bitt was ruined and the diamonds were lost in the hole at 4 ft , so SI was abandoned.

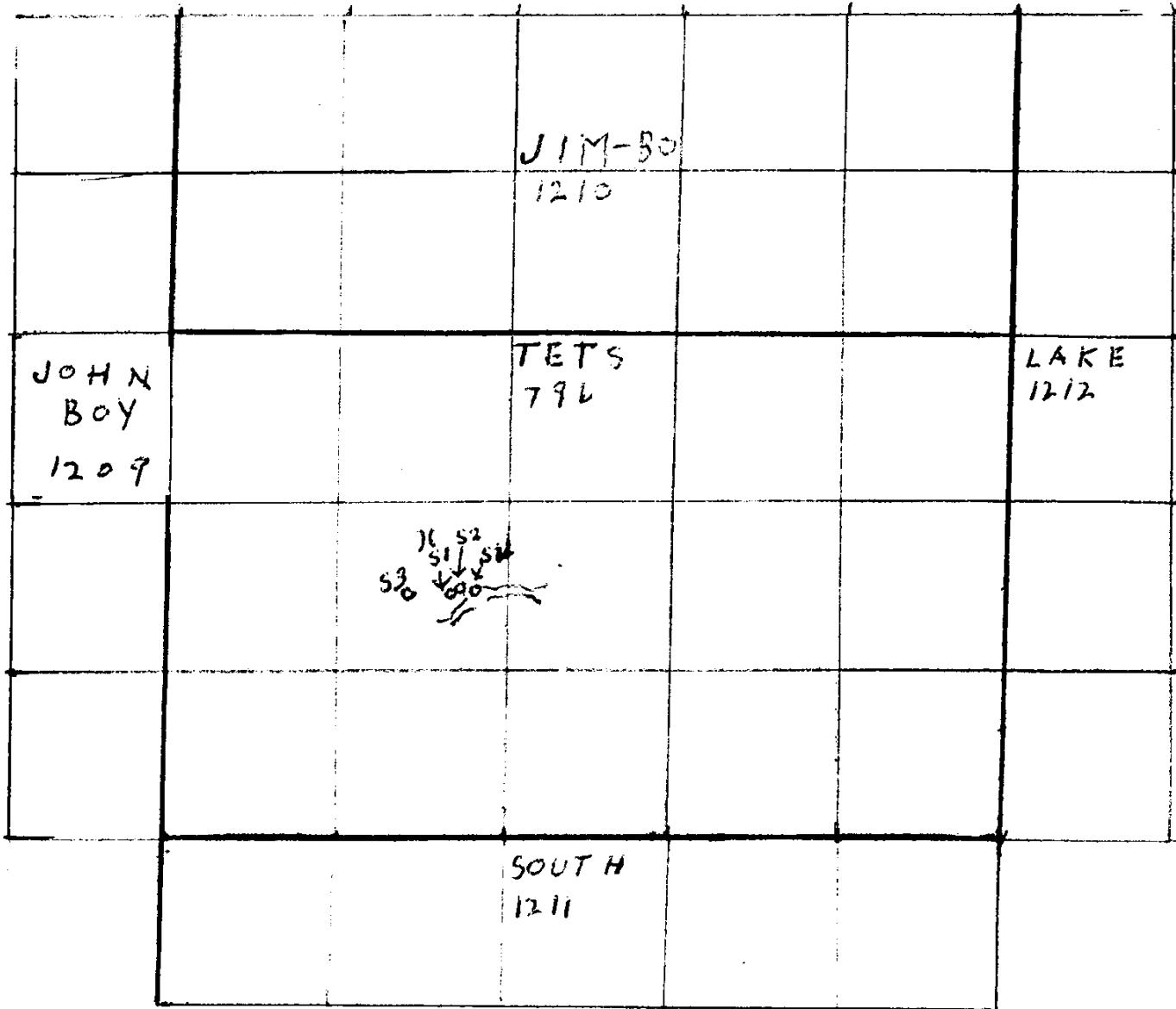
S2 was collared at the same site at 50° down facing N60E on June 26 got to 10 ft , cased to 4 ft , ground was very badly fractured and lots of problems were encountered, core recovery was poor , and drill just wouldnt penetrate , on July 10 hole S2 was abandoned and drill was moved 30 ft S60W to a rock face which didnt appear to be as badly fractured . Hole S3 was collared at 45° down facing N60E . Cased 2 ft , drilled to 9 ft , from 9 ft to 13 ft no core was recovered .

On July 17 we worked all day , and got no core and wore out drill equipment , so we cemented hole . On July 24 cement was drilled out , there was no improvement , so S3 was abandoned.

Drill was moved back 40 ft on to the dark volcanic rock at the original Stump Show . S4 was collared at 40° down facing N30E , drilled to 12 ft and cemented hole . On Aug. 28 cement was drilled out and got to 19.6 ft . Sept. 1 drilled to 35 ft , Sept. 18 drilled to 55 ft . On Sept 25 drilled to 65 ft . On Oct. 23 drilled to 72 ft , had frost problems with water line . So drill was dismantled , Motors taken out for overhaul , and equipment stored , for next season.



FIGURE 3



LEGEND

- ROCK TRENCH
- DIAMOND DRILL HOLE

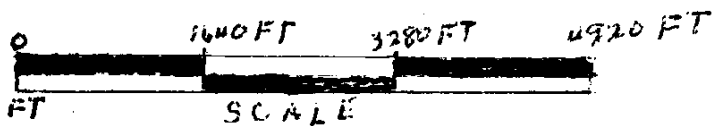
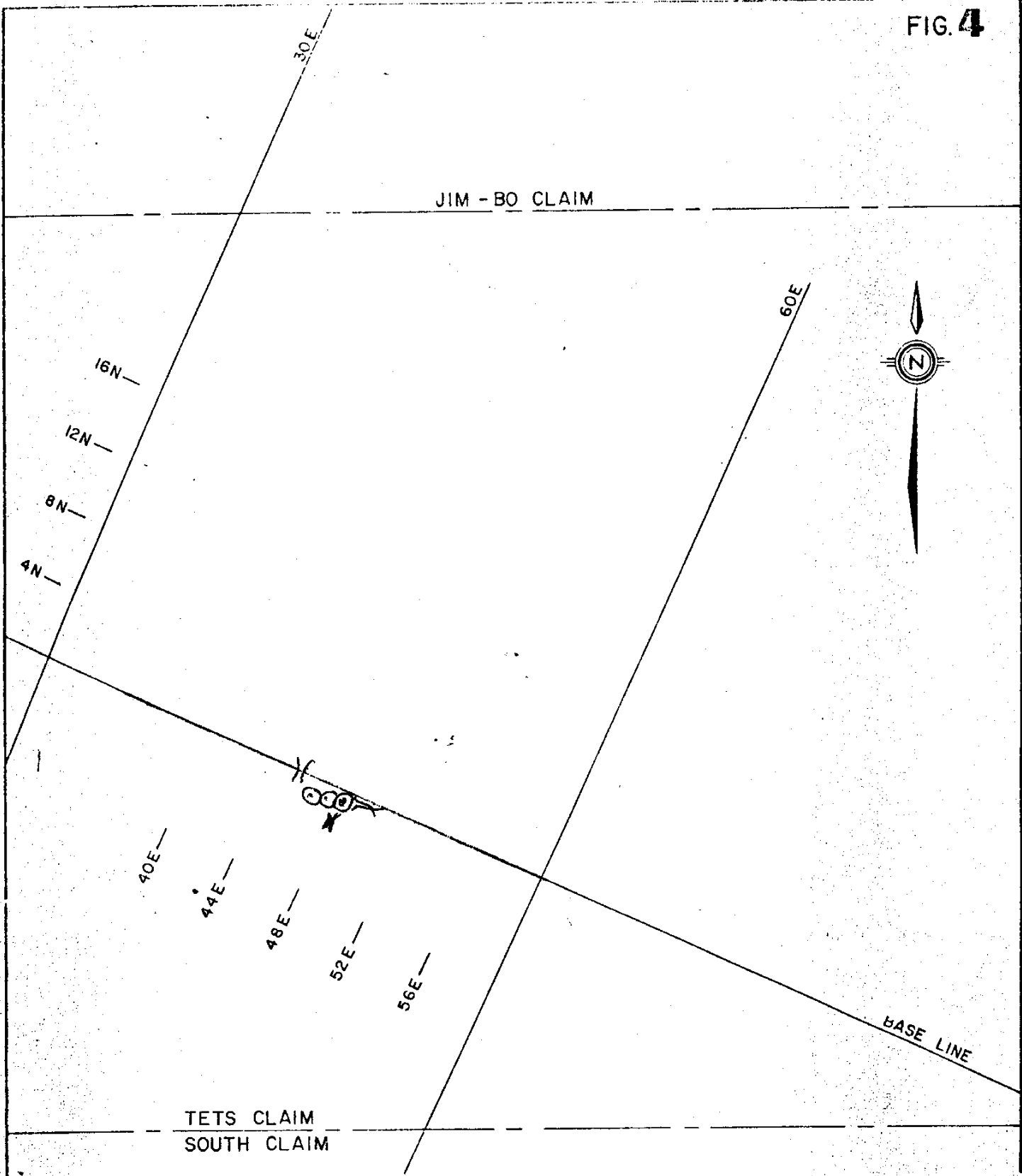





FIGURE 3	
TETS GROUP	
DIAMOND DRILL HOLE	
AND TRENCHING	
LOCATION MAP	
J SHELFORD	FEB 20 1984

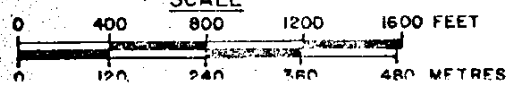
FIG. 4



**LEGEND**

-  Rock Trenches
-  Rock Pits
-  Diamond Drill Holes

**SCALE**



1983 PHISICAL WORK REPORT

Blasted and stripped downhill to south from Stump Show to expose continuation of mineralization, extended trench for 10 ft x 3 ft x 4 ft deep.

During the drill program, stripping was done on road bank to north of road across Stump Show for 96 ft to east, this stripping revealed a probable structure in this area of strike N, dip vertical, and mineralization appearing to be structure controlled. Four bands of mineralization were crossed in this trench, SI the original Stump Show 12 ft wide, an erratic fracture fill, containing bornite and chalcopyrite. Then a blank of 7 ft, then a band of 7 ft (S2) containing disseminated chalcopyrite and some galena. Then a 7 ft blank followed by another 7 ft of mineralization (S3) similar in all respects to S2, then a blank of 10 ft, followed by 34 ft of mineralization (S4) similar in all respects to S2 and S3. This appears to be the most stable deposit found to date. A sample is away for assay, and drilling should be done on this showing.

One trench was blasted at base 46 at a contact of two different rock types, which revealed chalcopyrite in red porphery. Trench 10 ft X 4 ft X 3 ft.

PHISICAL WORK STATEMENT FOR 1983

I trench 10 ft x 3ft x 4ft deep= 120 cu ft @ \$1.69 = \$202.80  
Itrench 10ft x 4ft x 3ft deep = 120 cu ft @ \$ 1.69 = \$ 202.80  
stripping 96 ft x 3ft x 3ft = 864 cu ft @ \$ 1.69 = \$1443.26

-----  
\$ 1848.86

II

DRILL HOLE STATEMENT 1983

<u>Hole</u>	<u>Casing</u>	<u>Depth</u>	<u>Days Worked</u>	<u>Dates Worked</u>	<u>Hole Cemented</u>
SI	4 ft	4 ft	1	June 19	
S2	4 ft	10 ft	2	June 26 July 10	
S3	2 ft	13 ft	3	July 10 , 17, 24	12 ft
S4		72 ft	6	July 24, Aug. 28, Sept. 11, 18, 25, Oct. 23	13 ft
	10ft	99ft	10		25 ft

10 ft cased @ \$ 50.00 \$500.00  
 25 ft cemented @ \$10.00 \$250.00  
 99 ft core @ \$25.00 \$2475.00  
 Total \$3225.00

ADDITIONAL EXPENSES FOR 1983

Core Storage Building 7ft x 8 ft = 56 sq. ft.

56 sq.ft. @ \$18 .00 sqft. = \$ 1008.00

Core boxes 4 @ \$15.00 = \$60.00

Total \$1068.00



LIST OF EXPENSES TO SUBSTANTIATE DRILL PROGRAM  
FOR 1983

Diamond Drill rental 10 days @ \$100.00 =	\$1000.00
Power Saw rental	\$400.00
Camper rental	\$700.00
Play-cat rental	\$500.00
Diamond Drill crew 2 men @ \$90.00 =	\$1800.00
Transportation to claims 180. miles =	\$360.00
Fuel for drill 50 gal @ 2.10 gal=	\$105.00
Oil for drill 15 qts. @ 1.89 . =	\$ 28.35

PUMP HILL

Some work and study was done at 56 E 112 N an area known as Pump Hill. This area is composed of the most exposed rocks on the property, a knob like hill, with a steep face, composed of a gabbro plug, and several small gabbro dykes radiating from plug into an andesite body, one dyke can be traced for 300 ft from plug. These dykes appear to have a random strike and dip.

A small skarn area has been located at base of cliff between the gabbro and andesite.

Two assays are enclosed from this area, Pump Hill no 1 an assay of a grab sample of a flat lying tetrahedrite vein in andesite. Pump Hill no 2 a spectographic assay of dyke material, showing an unusual gallium assay.

This would be an interesting area to drill, but water supply is very difficult, as no known stream can be used. There is a small catch basin to N/W of hill which exists for one month.



Mr. John C. Shelford  
P.O. Box 166  
Burns Lake, B.C.

**Warnock Hersey Professional Services Ltd.**  
125 East 4th Avenue Vancouver B.C. V5T1G4  
(604) 876-4111 Telex 04-54360

FILE NO. 468 - 23915

DATE April 11, 1978

## SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES

We Herby Certify that the following are the results of semi quantitative spectrographic analyses made on ORE samples submitted.

SAMPLE IDENTIFICATION	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Ga	Au	Fe
	3.0	ND	ND	0.01	ND	ND	ND	ND	5.0	0.01	Trace	0.03	0.02	Trace	Major
SAMPLE IDENTIFICATION	Pb	Mg	Mn	Mo	Nb	Ni	Si	Ag	Sr	Ta	Sn	Ti	W	V	Zn
gabro dike from Pump Hill	ND	3.0	0.2	Trace	ND	0.005	matrix trace		0.03	ND	ND	0.6	ND	0.03	Trace

All results expressed as Percent by weight  
Note: Rejects retained one week.  
Rejects retained one month.

Warnock Hersey Professional Services Ltd.



PHONE: (604) 676-4111  
 TELEX: 04-50353  
 CABLE ADDRESS:  
 ELDRICO

Mr. John Shelford

P.O. Box 166

Burns Lake, B.C.

**Certificate of Assay**  
**COAST ELDRIDGE**  
 PROFESSIONAL SERVICES DIVISION  
 WARNOCK HERSEY INTERNATIONAL LIMITED  
 125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

FILE NO. A.3-3.1-69-7579

DATE August 15, 1969

We Hereby Certify that the following are the results of assays made by us upon submitted ..... samples

MARKED	GOLD		SILVER	COPPER PER CENT	PER CENT	PER CENT	PER CENT	PER CENT
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON					
I6	0.02	\$ 0.70	33.3	51.53				

Gold calculated at \$ ..... per ounce

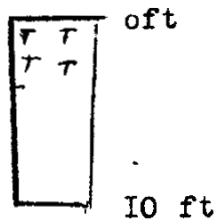
I7

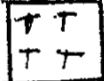
TETS GROUP

LIST OF CLAIMS and DISTRIBUTION OF WORK

CLAIMS	RECORD NO.	VALID TO	RECORD DATE	WORK CREDITS APPLIED FOR
TETS I-15	796	1987	sept	I year
JOHN BOY I-5	I209	1984	JUNE	I year
JIM BO I-10	I210	1984	JUNE	I year
SOUTH I-5	I211	1985	JUNE	
LAKE I-5	I212	1985	JUNE	I year

1983 DIAMOND DRILL PROGRAM



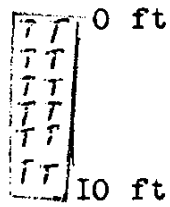
 Andesitic Tuff  
or flow

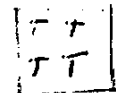
FIGURE

J. Shelford
Diamond Drill Hole S I
Mar. 20 1984



1983 DIAMOND DRILL PROGRAM



 Andesitic Tuff  
or flow

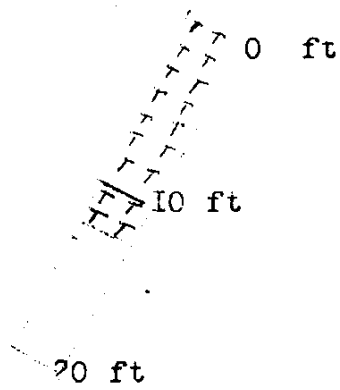
FIGURE

J. Shelford

Diamond Drill  
Hole S 2

Mar. 20 1984

1983 DIAMOND DRILL PROGRAM



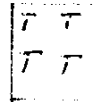
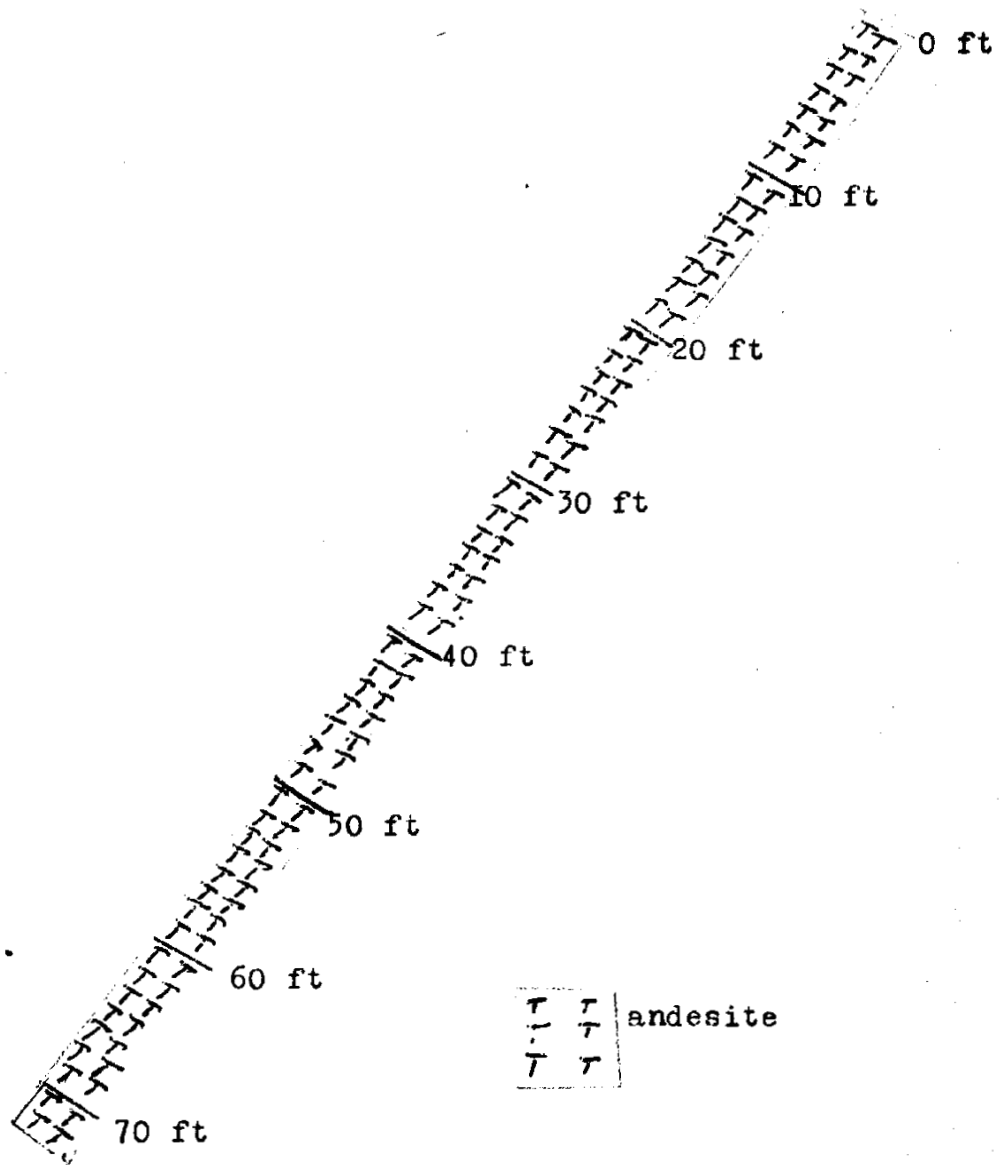
 andesitic

FIGURE  
J. Shelford  
Diamond Drill  
Hole S3  
  
Mar. 20 1984

1983 DIAMOND DRILL PROGRAM



FIGURE

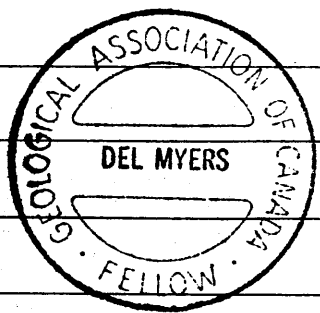
J. Shelford
Diamond Drill Hole S 4
Mar. 20 1984



NORANDA EXPLORATION COMPANY, LIMITED

Completed 10 July 83	Core Size 23 mm	Property Tets (Stump showing)	Project No --	NTS No. 93 E/15W
FIELD COORDINATES		SURVEYED COORDINATES		
Elev.	Dip - 50°	Lat.	Elev.	Dip
Depth 10 feet	Bearing N 60° E	Dep.	Depth	Bearing
				Hole No. S - 2

Photage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
			4' casing, same location as S-1										
			2' core recovered as follows:										
			fractured, some 2 stage breccia, carbonate veined,										
			very fine grained, dark grayish red crystal tuff										
			or flow as in S-1, also dark brownish black										23
			(5 YR 3/1) to dark olive gray (5 Y 3/1), very fine										
			grain, andesite flow with carbonate filled fractures										
			and vesicules, no visible sulfides										

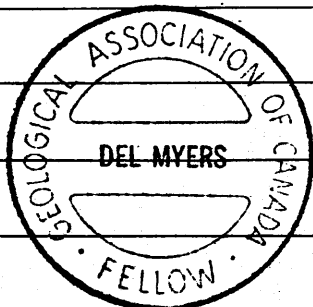


*Del Myers*

NORANDA EXPLORATION COMPANY, LIMITED

Completed 24 July 83	Core Size 23 mm	Property Tets (Stump showing)	Project No --	NTS No. 93 E/15W
FIELD COORDINATES		SURVEYED COORDINATES		Sheet / of /
Elev.	Dip -45°	Lat.	Elev.	Dip
Depth 13 feet	Bearing N 60° E	Dep.	Depth	Bearing
				Hole No. S - 3

Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
		30 feet @ S60°W from S-1								
		2' casing								
		0-5' : 3' core recovered								
		5-10' : 3' core recovered								
		10-13' : 2.5' core recovered								
		very fine grain, olive black (5 Y 2/1), to olive gray								24
		(5 Y 4/1), andesite with 5-10% pink feldspar crystals								
		to 3 mm								
		coarse sand, mainly moderate brown in color (5 YR 3/4),								
		andesitic, similar to S-1 and S-2 rock except broken								
		into sand								
		EOH								



*Del Myers*

DATE 13 March 84

LOGGED BY Del Myers



NORANDA EXPLORATION COMPANY, LIMITED

Collared			Completed 23 Oct. 83		Core Size 23 mm		Property Tets (Stump Showing)				Project No --		NTS No. 93 E/15W					
FIELD COORDINATES							SURVEYED COORDINATES							Sheet 1 of 3				
Lat.			Elev.		Dip -40°		Lat.			Elev.		Dip			Hole No.			
Dep.			Depth 72 feet		Bearing		Dep.			Depth		Bearing			S - 4			
Footage	Rec'y	Graphic Log	Description							% Sulp.	Est. Grade	Sample No.	Lt.					
			10 feet south of S-1															
			0-14' : 10' recovered															
			14-19.5' : 5.5' recovered															
			19.5-25' : 4.5' recovered															
			25-29' : 3.5' recovered															
			29-35' : 5' recovered															
			35-42' : 7' recovered															
			42-55' : 9' recovered															
			55-60' : 5' recovered															
			60-72' : 3' recovered															
			72' 52.5' recovered (73% recovery)															
0			assume no recovery															
4			very fine grain, dark brownish gray (5 YR 3/1)															
			with 1 mm feldspar crystals and carbonate --															
			chlorite (?) veinlets															

24 A

NORANDA EXPLORATION COMPANY, LIMITED

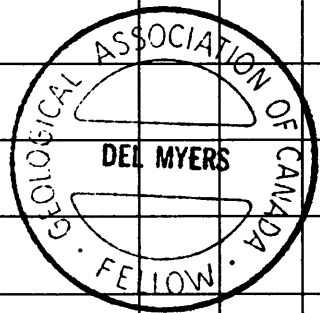
Lat.	Completed	Core Size	Property Tets (Stump showing)			Project No	NTS No.			
FIELD COORDINATES			SURVEYED COORDINATES						Sheet 2 of 3	
Elev.	Dip	Lat.	Elev.	Dip	Hole No. S - 4					
Depth	Bearing	Dep.	Depth	Bearing						

Notage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
7			very fine grain, dark brownish gray (5 YR 3/1)								
			andesite flow and flow breccia with abundant calcite-filled vesicles with pale green silicate mineral as rims.								
16			very fine grain, dark brownish gray andesite flow with minor calcite veinlets and amygdules								25
19.5			ash to lapilli tuff of above rock with calcite-green silicate mineral matrix, 2 cm thick calcite veinlet								
20.5			very fine grain, dark brownish gray andesite with common calcite amygdules								
24			very fine grain, dark olive gray (5 Y 3/1) to dark brownish gray (5 YR 3/1) andesite with common to intense fracturing commonly filled with calcite and/or hematite, rock appears to have been flow with short sections of tuff or breccia								

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property	Tets (Stump showing)	Project No	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 3 of 3
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.
Dep.	Depth	Bearing	Dep.	Depth	Bearing	S - 4

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
			Samples for Geochemical Analyses:			(ppm)	<u>Au</u>	<u>Ag</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Mo</u>	
			20 - 20.5'	--		X14522	.010	0.6	18	2	190	< 2	
			40-40.5'	--		X14523	.010	0.4	4	24	730	< 2	
			60-60.5'	--		X14524	.010	0.4	16	2	290	< 2	
													26



*Del Myers*

COMMENTS

Core is stored at the home of J.Shelford.

At 27 ft the drill cuttings came out inky black , usually an indication of sulfides. No sludge was saved ,and on pulling core no core was saved for aprox 2 ft.

During the past two years the writer has done considerable study of mineralization in the Stump Show area to form an opinion on just what the minerals were present , and just what mineral carried the silver.Which consistently runs between 1oz. to 22oz Samples of rock in large pieces were brought home from Stump I 2, 3, and 4 also Stump South , and cut into slabs in a rock saw , these slabs were studied under a microscope for rock alteration and mineralization, all areas appeared to be similiar in rock types , and to a great degree in alteration , calcite , chlorite , montmillerite and pyrophyllite. Mineralization varied a lot , and is hard to define because some mineralization is very fine only visable under a microscope .

Streak , hardness , acid tests and percipitation were tried, Copper showed more than one would expect from appearence , especially at Stump 4 .

A greyish black , soft metallic mineral appeared in several areas..

One slab from Stump 4 was taken to Smithers to Willard Thompson a geologist. I had seen a greyish mineral ,but due to fineness hadnt identified it ,I asked him if he could identify any mineral which could carry silver . After considerable study through a microscope he said you have two minerals chalcocite ,and tetrahedrite, and he proceeded to point out the minerals with a pin .

On cutting the samples from Stump south , no grey minerals showed , just chalcopyrite and bornite , the interesting part was that on cutting the first slab off a fresh surface only the minerals showed . The second slab revealed a black rim around the mineral, on the third or fourth slab ,and on through the rock to about the third from the end in the centre of the slab the mineral was surrounded by a coating of bright red . this faded in a day or so . Assays shows 2 oz silver .

COMMENTS CONTINUED

On inspecting the core from S 4 hole, the writer observed the following

pyrophyllite  
at 17 ft

bornite  
at 4 ft  
6 ft  
35 ft

pyrite  
at 7 ft  
8 -16 ft  
46 ft

chalcopyrite  
at 6 ft  
7 -8 ft  
12 -15 ft

dark soft metallic (similiar to sample looked at by Thomson

at 22 ft  
26 -32 ft  
38 ft  
44 ft  
52 ft  
54 ft  
57 ft  
58 ft

This mineral is always in or near calcite