

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 MAP M 93E 15 W

OPERATOR : JOHN SHELFORD

consultant: KEN NORTHCOTE . P.ENG.

BY

JOHN SHELFORD (PROSPECTOR)

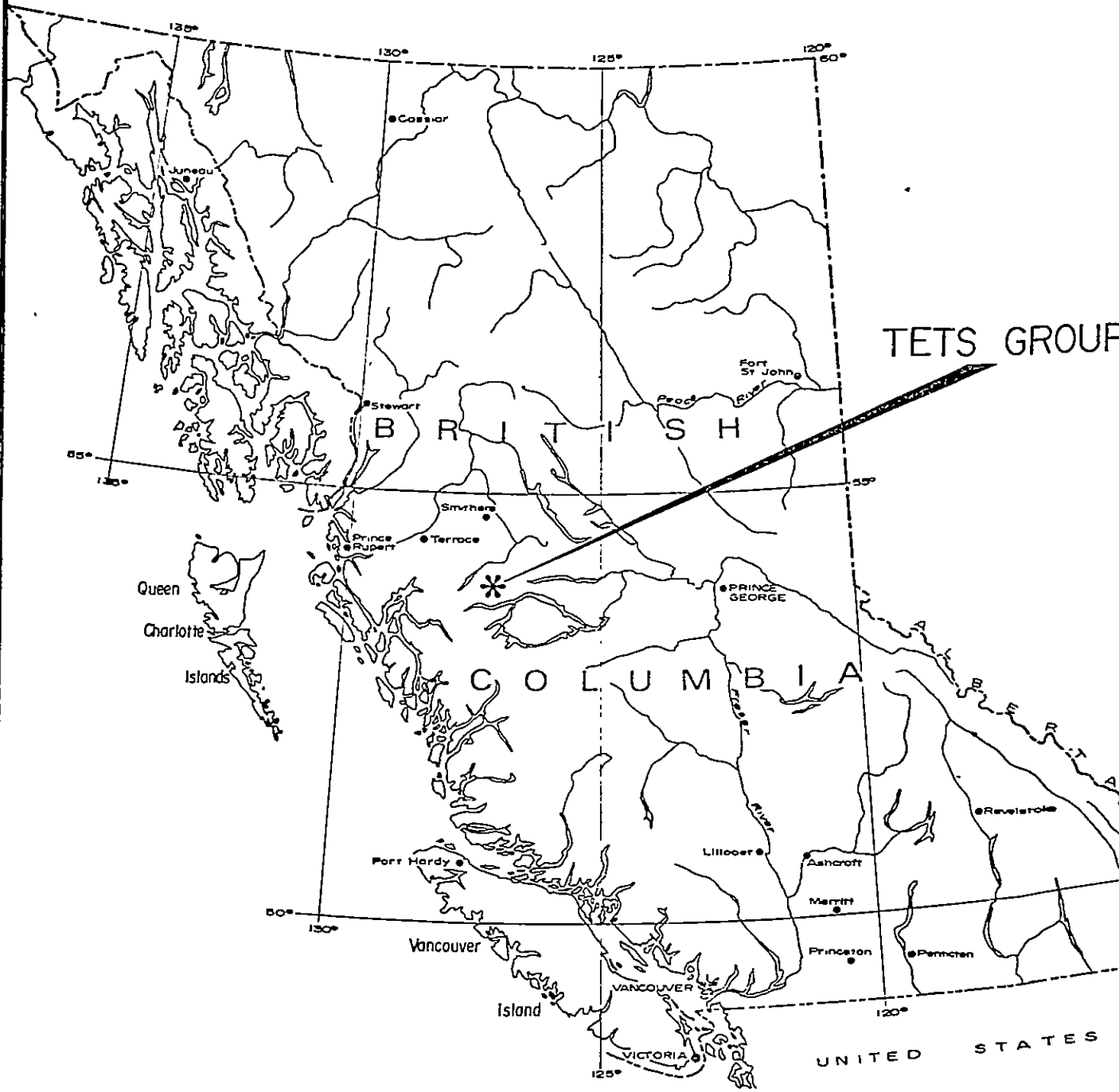
BOX 166. BURNS LAKE. B.C.

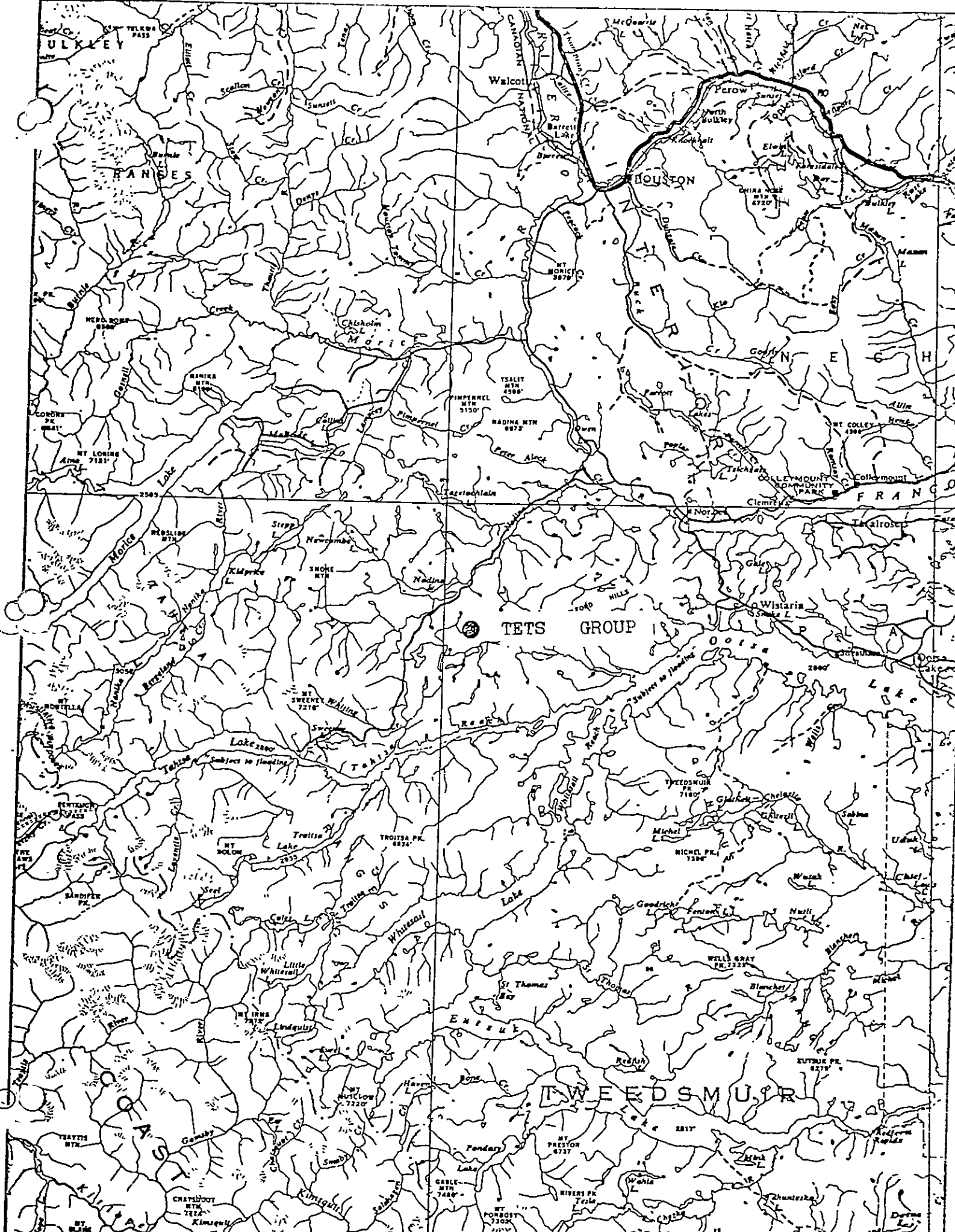
DATE: DEC.20 1981

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

10,308

Omineca Mining Division
APR 7 1982
Sub-Mining Recorder
BURNS LAKE, B.C.





SCALE 1" = 10 MILES

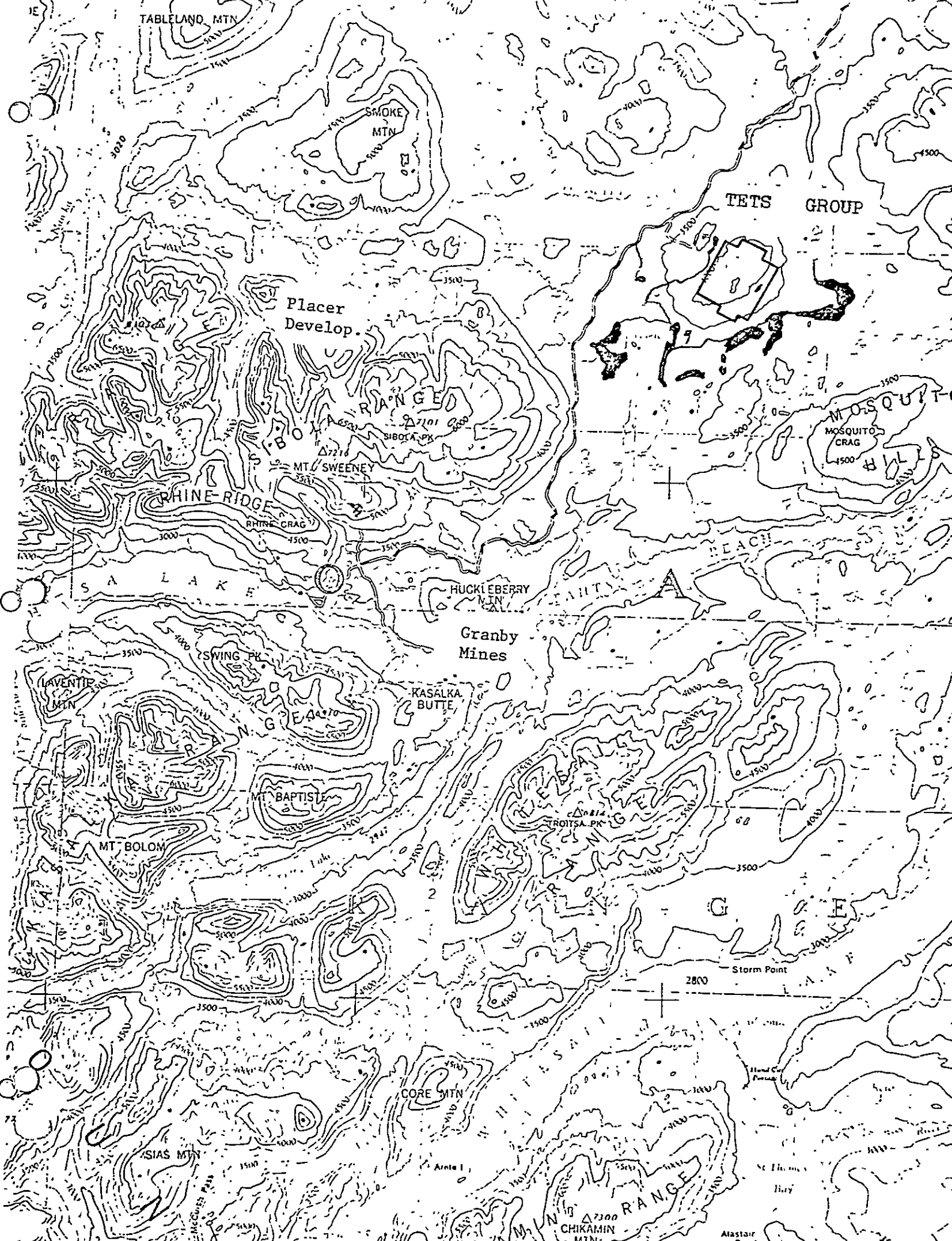


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Location Map

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Figure 6.....Site I Diamond Drill Holes

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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 1- 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 15, 24 and 26.

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

In 1978 John Boy 5 units, Jim Boy 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.

LOCATION AND ACCESS

"The TDS 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 Tahitsa 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 of Coosy Lake. Dr. Neil Church* has spent substantial time on original mapping to 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 and feeder intrusions.

Mineralization most sought after in the area are termed "Volcano-genic" deposits. These are usually higher grade, smaller tonnage, massive and disseminated sulfides of copper, lead and zinc, with substantial values in silver and some gold.

The 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 Coosy Lake deposit, owned by Equity Mining - now under option to Grassy Mountain - consists of four main zones of massive and disseminated mineralization in lower Mesozoic volcanic rocks.

Mineralization includes pyrite, pyrrhotite, chalcopyrite with minor amounts of arsenopyrite. The key value is in the silver which is probably related to the arsenopyrite.

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 Coosy, Nadina to Tsahic Mountain and reaching to the Sibola property has received substantial exploration activity by major and junior companies.

* Church (1970) Geology of the Owen Lake, Parrot Lakes and Coosy Lake Area, C.E.M. rep. 65 - 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 3.75 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 surveys. 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 - 56E, 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 chalcopryrite. 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 veins. 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-chalcopryrite-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 71.5 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 visable rock exposure and sampling .

In zone 1 the Stamp Show. Base 48 area (DD N o. 6 to No.9) , two rock trenches were blasted totalling 1450 cubic feet, and eight pits for 384 cubic feet totalling 1834 ft(58.0)M

In zone 2, the Bear Show (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 Show (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 (DDNo.29) one rock trench was blasted and four rock pits for 696 cubic feet or 19.6 cubic meters

DIAMOND DRILL PROGRAM

Mauro C. Paretta 26985- 100 AVE. Whannook B.C. completed 29 diamond drill holes for a total of 1800FT. using a winkie drill and a Passe Par Toute (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

recommendation that known 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 , consisting of 8 holes. This program succeeded in learning the dip and strike of the mineral in that area .

1981 DRILL PROGRAM

In June 1981 the drill was moved in to an area at 70E -16N known as the Harry Show, which appeared to be an intrusion of granite. One hole was drilled to 67FT at an angle of 60° down in a N direction. While drilling this hole, water was lost for a short distance at 28 FT, after recovering water a short distance, the drill cuttings came out inky black, we were into a massive sulfide stringer, no core recovery.

This hole was stopped as the rock type appeared to change.

The drill was moved on July 12 to the area known as the Grangus Show at 67E 6N. IN an area of fractured rhyolite. The drill was located on a previous T. trench where sphalerite had been found.

GI hole was collared at 50° down in a W direction. This whole portion of the drill program developed into a whole series of frustrating experiences which were hard on equipment. This hole was worked on for 5 long days. Water was lost at 11FT. and couldn't be recovered casing was tried, and casing bit wouldn't cut the rock past 14 F.T. No core was recovered after water was lost, so hole was abandoned.

THE drill was moved around to face W 40N. HOLE G2 was collared at 50° down, water was lost at 10 F.T. Hole was cased to 6 FT. Again the bit wouldn't cut the rock. Hole was cemented. On returning cement was drilled out but water still disappeared. After

1981 DRILL PROGRAM CONTINUED

three days work , at a depth of 19 FT. having saved no core past 10 FT. HOLE was abandoned.

Drill was raised to 11° down and hole G3 was collared facing W40 N . Water was lost at 9 FT. after considerable work drilling was able to proceed, after 6 days work G3 reached 87 FT. at which time the bit became muddied in ,after recovering the bit the hole had siesed up and bottom couldnt be reached, so it was abandoned.

It was decided to endeavour to drill G4 as a vertical hole till water was lost , this occurred at 7FT. hole abandoned , after working on it for 3 days

Drill was moved 180 FT. S . IO E.to No I blast hole, from previous site .

Drill was set up facing W, hole G5 was collared at 60° down hole was eased to 5 FT.6 in. at 6 FT. a rock contact was reached , hole abandoned at 10 FT..

Drill was moved around to face W 34 N G6 was collared at 60° down , hole was drilled to 4.5 FT. and on attempting to clean out hole 2 tungsten carbide insets came off a chopping bit became loose and stayed in hole, hole abandoned.

G7 was collared facing W34 N at 42° down ,G7 was drilled to 10 FT. where rock contact was reached so hole abandoned.

Drill was raised to 19° down on reaching 8.6FT. contact was reached so hole abandoned. G8 at W34 N

A report of core logging, assay results with sketches and illustrations follows.

PHISICAL WORK REPORT

Harry Show base 70 E- 16 N

One half mile of Playcat trail brushed out and windfalls cut. To get from clear cut to Harry SHOW

Four pitts were blasted 100 FT. NE of drill site in an attempt to locate source of two pieces of high grade copper float. Rock type was different and attempt unessful.

One water hole blasted in a spring.

Grangus SHow at base 67E 6N trail extended for Playcat 200 yds.

A foot patn was picked out between Grangus Show and Blast hole no I , 180 FT.

Two water holes were blasted and dug out One below the drill site , and one 1000 FT. NE of drillsite in a swampy hillside.

Pitt at blast hole no I was enlarged .

Pitt at blast hole no 2 was enlarged.

One pitt was put in the depression above water hole.

Two trenches were put on hillside above drill.

At the Stump Show one day was spent cleaning off , and stripping one of the showings.

II

ADDITIONAL EXPENCES for 1981

Core Storage Building 7ft. x 8ft. = 56 sq ft.
56 sq. ft. @ \$18.00 sq.ft. = \$1008.00

Core boxes II @ 15.00 = \$175.00

Total \$1183.00

LIST of expenses to substantiate Drill program .

Diamond Drill rental 23days @ \$100.00=	\$2300.00
Power Saw Rental	\$ 500 00
Camper Rental	\$ 800.00
Diamond Drill crew 2 men @\$90.00	\$4140.00
Drill transportation	\$200.00
Transportation to site 180 mi. per day	\$ 14.00
Fuel for drill 59 gal @ 180	\$106.20
Oil for drill 26 qt. @ 189 =	\$ 4914

TETS GROUP

LIST of CLAIMS and Distribution of work

Claims	Record No.	Valid to	Record date	Work credits applied for
TETS L-15	796	1985	Sept. 30/77	2 years
John Roy I-5	I209	1983	June 26/78	1 year
Jim Bo IO	I210	1983	June 26/78	1 year
South I-5	I211	1984	June 26/78	1 year
Lake I-5	I212	1985	June 26/78	

PHISICAL WORK REPORT

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Pitt at blast hole no 2 was enlarged.

One pitt was put in the depression above water hole.

Two trenches were put on hillside above drill.

At the Stump Show one day was spent cleaning off , and stripping one of the showings.

PHISICAL WORK STATMENT FOR 1981

Harry Show

half mile Playcat trail \$ 210.00
 4 pitts 4~~X~~4ft~~X~~4ft deep= 256 cu.ft @1.69= \$432.00
 1 water hole \$ 25.00

Grangus Show

1 foot path for moving drill 180ft \$75.00
 2 water holes 10~~X~~10~~X~~4 =800eu ft @ .75= \$600.00
 3 pitts 4~~X~~4~~X~~4=192 ft @1.69 = \$ 324.48
 2 trenches 3~~X~~16~~X~~4ft= 382 cu ft@ 1.69= \$645.58

Stamp Show

stripping 10~~X~~3~~X~~2 = 60 eu ft@ 1.69 = \$101.00

 \$2413.46

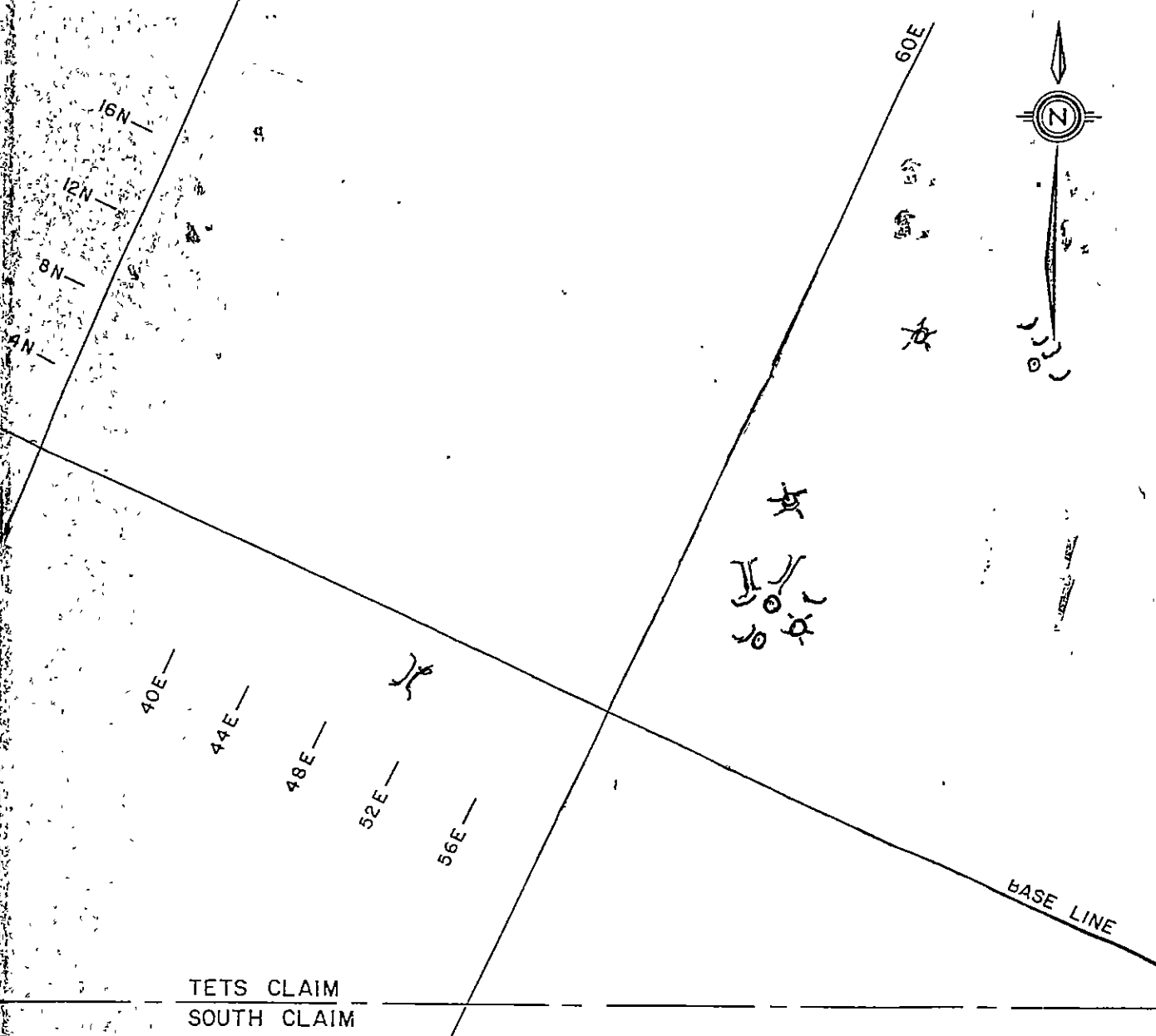
DISCUSSION

Core is stored at the residence of J.Shelford.

The writer showed the property to two representatives of two different mining companies during the past year. Both appeared to agree with the writer that the rock in the centre of the property contains intrusive dykes, surrounding this area is a vast area with fracturing and brecciation and alteration. Connected with this fracturing in a moon shaped area extending from one half mile to one mile from the dykes, containing most of the pyrite, and mineral occurrences.

Due to the difficulty of drilling in the Granges Show area with a small drill, further drilling will be done elsewhere, probably in the Stump SHOW area or nearer to the intrusive dykes.





JIM - BO CLAIM



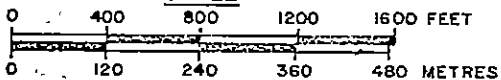
TETS CLAIM
SOUTH CLAIM

FIGURE 3

LEGEND

-  Rock Trenches
-  Rock Pits
-  Water Hole
-  Diamond Drill Holes

SCALE

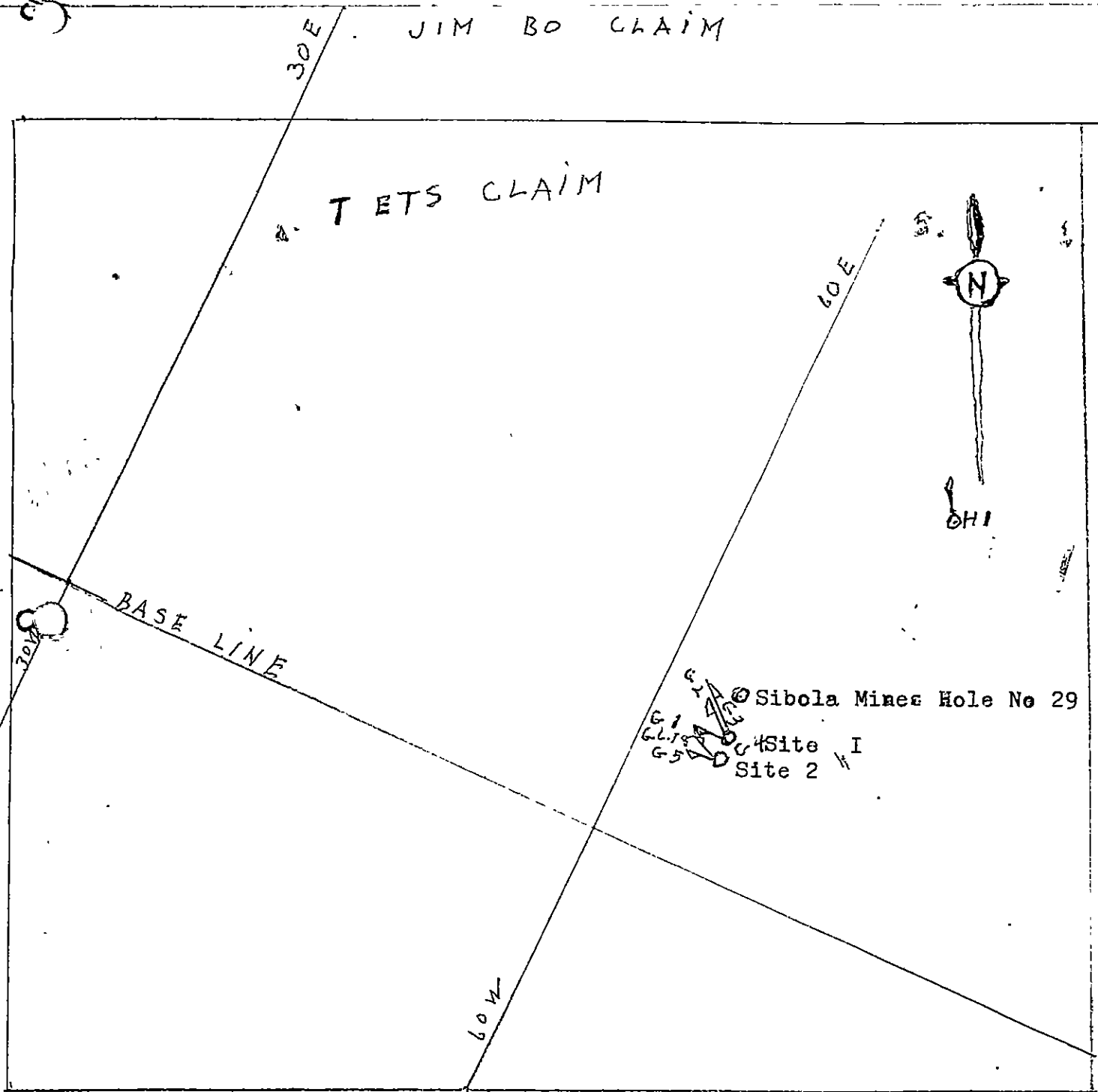


Tets Group

**ROCK STRIPPING & TRENCHING
LOCATION MAP**

J. Shelford

DATE -
Mar. 16
1982



SOUTH CLAIM

Legend

- ⊙ Vertical Hole
- ↖ Direction Of Hole

Scale
 0 400 800 1200 1600 FT.
 0 120 240 360 480 Meters

FIGURE 4

Tets Group	
Nadina Lake Area	
1981	
Diamond Drill TARGETS	
Locations Map	
J. Shelford	Date
Burns Lake B.C.	Feb. 27



Site 2 Reek assay from EQUITY Mines showed
CU.04 AG 2g/t , AU.18 g/t, PB.01 ZN.22

Legend

- Vertical Hole
- ↘ Direction of Hole

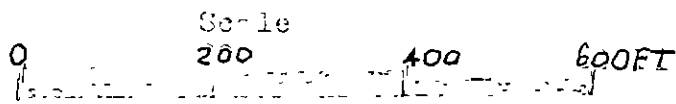
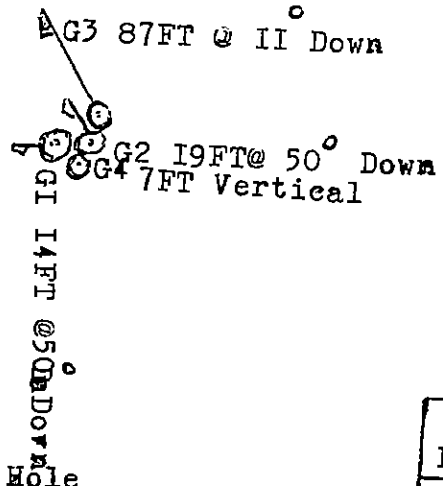


Figure 5

Site 2
Diamond Drill Holes

G5 G6 G7 G8
For 1981 Season

J. Shelford
Burns Lake S.C. Feb. 27
1982



Legend

- ⊙ Vertical Hole
- ↙ Direction of Hole

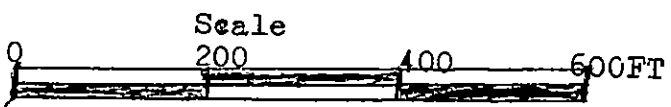


Figure 6

Site I Diamond Drill Holes	
G 1, G 2, G 3, G 4. For 1981 Season	
J. Shelford Burns Lake B.C.	Feb. 27 1982

TETS MINERAL CLAIM GROUP

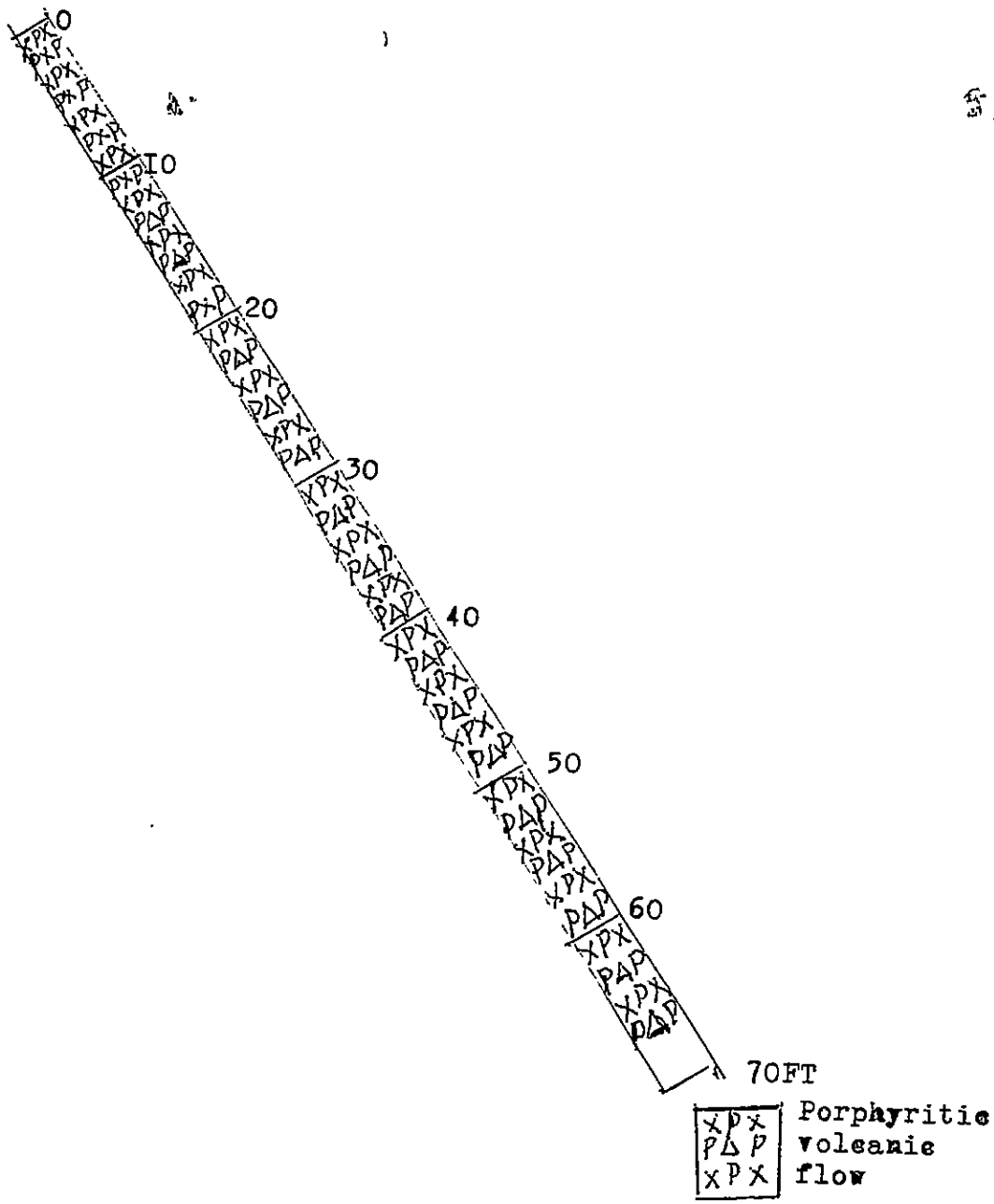
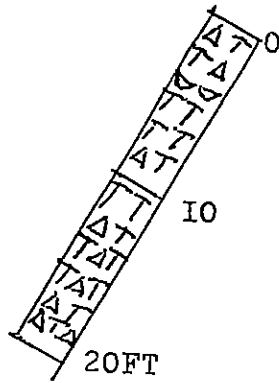


FIGURE 7

J. Shelford
Diamond Drill
Hole H I
Mar. 9 1982

TETS MINERAL CLAIM GROUP



△ T △	Rhyodacite
T △ T	tuff
△ T △	breccia

FIGURE 9

J. Shelford
Diamond Drill Hole G 2
Mar. 9 1982

TETS MINERAL CLAIM GROUP

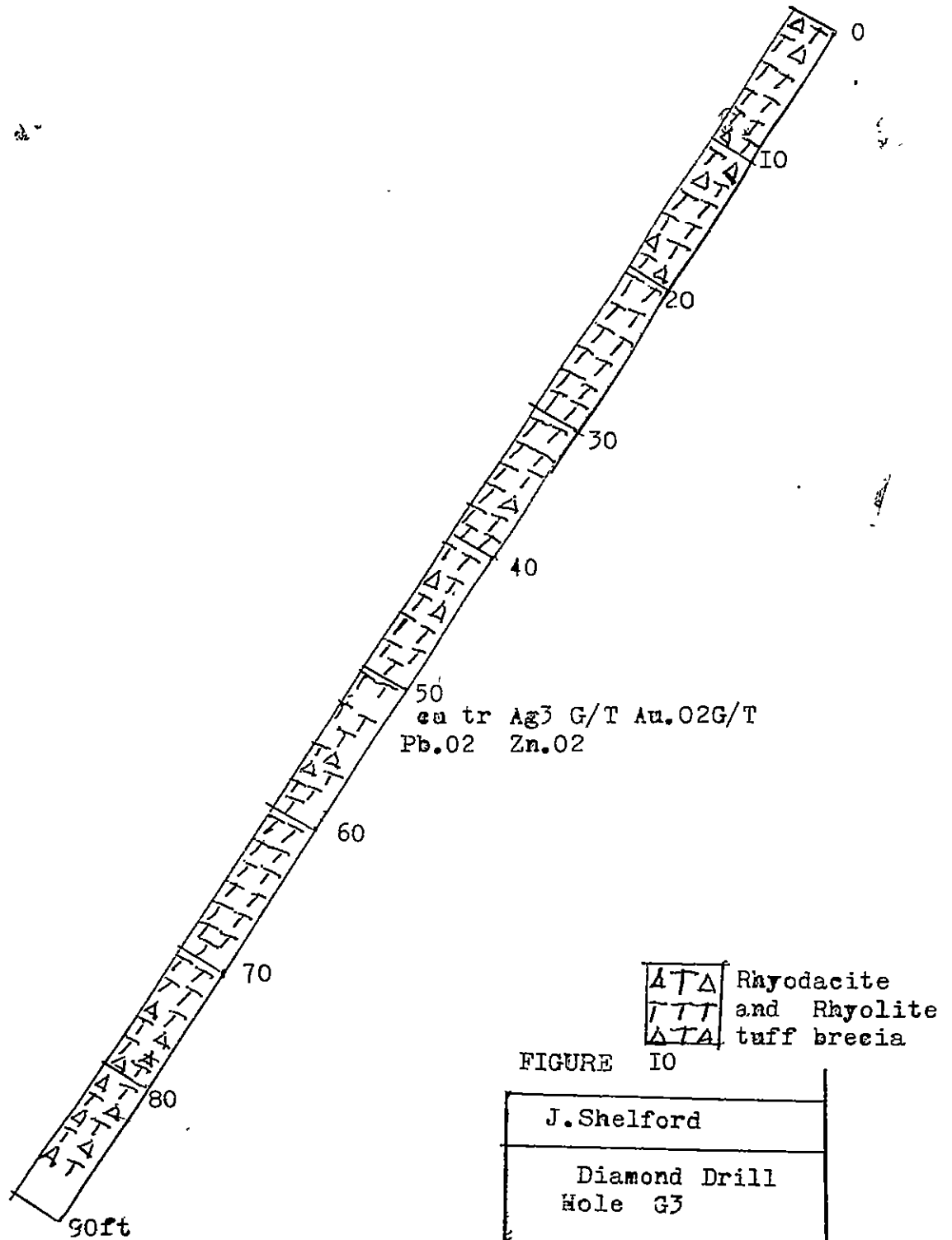


FIGURE 10

J. Shelford
Diamond Drill Hole G3
Mar. 9 1982

TETS MINERAL CLAIM GROUP

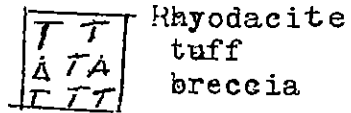
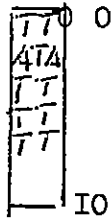
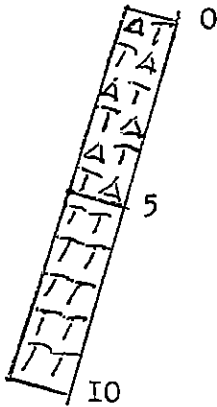


FIGURE II

J. Shelford
Diamond Drill Hole G4
Mar. 9 1982

TETS MINERAL CLAIM GROUP

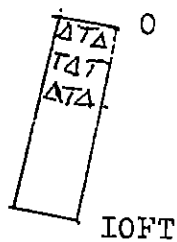


A T	Rhyodacite
T A T	tuff
T T T	Andesitic tuff

FIGURE I2

J.Shelford
Diamond Drill Hole G5
Mar.9 1982

TETS MINERAL CLAIM GROUP



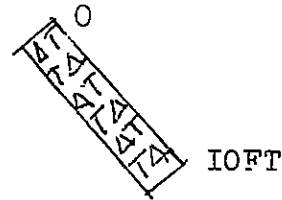
ATA	Rhyodacite
ATA	tuff
ATA	breccia

FIGURE 13

J. Shelford
Diamond Drill Hole G. 6
Mar. 9 1982

PROPERTY Tets Group
LOCATION 53° 52' N127W
Diamond Drill Hole #1
Harry Show 70 L 16N
DEPTH of HOLE 67 ft
ANGLE of HOLE 60° down
DIRECTION of HOLE north
DATE COMPLETED July 5

TETS MINERAL CLAIM GROUP

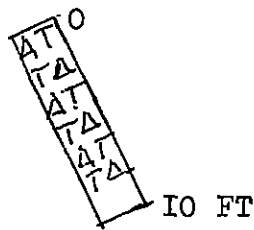


ATA	Rhyodacite
TAT	tuff breccia

FIGURE 14

J. Saelford
DIAMOND Drill Hole G.7
Mar. 9 1982

TETS MINERAL CLAIM GROUP



A T Δ	Rhyodacite
T Δ T	tuff
Δ T A	breccia

FIGURE 15

J. Shelford
Diamond Drill Hole G8
Mar. 9 1982

17

PROPERTY Tets Group

LOCATION 53° 52' N127W

Diamond Drill Hole #1

Harry Show 70 E 16N

DEPTH of HOLE 67 ft

ANGLE of HOLE 60° down

DIRECTION of HOLE north

DATE COMPLETED July 5

INT	REC	STRAT INT	FR	L	DESCRIPTION	M	MIN	ASSAY INT	ALTERATION & MINERALIZATION	
51		50	XXXX	ΔΔΔ	Porph volc; medium to coarse grained phenocrysts, with altered plagioclase and mafic grains and small granitic and tuffaceous polymictic fragments in a very fine granular purplish grey hematitic matrix. Low crystal to matrix ratio. Lighter coloured bleached interval. 10 cms. Brecciated nature locally obvious.	Tr	Pyr		Traces disseminated pyrite	
		55	XXXX	ΔΔΔ						10 cm zone of abundant finely disseminated pyrite Narrow <0.5 cm band of strong disseminated pyrite.
57.5		60	XXXX	ΔΔΔ						
62		65	XXXX	ΔΔΔ						
65		67	XXXX	ΔΔΔ						
67					Total Depth 67 ft.					
		70								

MINERAL BRANCH
10,308

*K. E. Northcote
K. E. Northcote
K. E. Northcote*

8

8

8

PROPERTY Tets Group

LOCATION 53° 52' N I27 W

GRANGUS SHOW 67 E 7 N

Site I

Diamond Drill Hole G I

Depth of HOLE 14 ft

ANGLE of HOLE 50° down

DIRECTION of HOLE W

DATE Completed July 29 1981

Diamond Drill Hole G 2

Depth of Hole 19 ft

Angle of Hole 50° down

Direction of Hole W 40° N

Date completed Aug 9 1981

INT	REC	STRAT INT	FR	L	DESCRIPTION	M	MIN	ASSAY INT	ALTERATION & MINERALIZATION
0		0					MnO ₂		
Rec 5.5'	83%				Rhyodacite tuff breccia; mottled cream tan & light grey aphanitic matrix; fragments crystal tuff aphanitic matrix. Rhyodacite tuff; mottled cream tan and light grey, widely scattered feldspar crystals. Irregular carbonate in fillings with margin of cavity filled with sphalerite. Rhyodacite tuff shows some pale brown alteration or staining. Layering @ 30° to core axis. Cone of bedding possibilities.		?	TS	Sericite alteration. Mn & Fe staining in fractures. Character sample. Scattered cavities limonite-filled.
6.6									
Rec 1.4	100%								
Rec 2'	66%								
11									
Rec 2'	66%								
14									
Total depth 14 feet.									
Abundantly broken core as a result of blocking during drilling.									
81 G-2 Page 1 of 1									
0		0					?		
Rec 6'	50%				Rhyodacite tuff breccia, tuffaceous fragments and matrix contains scattered fine grained feldspar phenocrysts. Rhyodacite tuff; mottled cream-tan & light grey, aphanitic matrix, scattered fine grained feldspar phenocrysts or crystal fragments. Irregular carbonate masses filling irregular cavities the margins of which are lined by thin layers of sphalerite Thin carbon. Pale yellow-brown staining adjacent to carbonate filled cavities, adjacent to veins & insipient fractures. Note - one fragment of granite in fragmented drill core in place?		Sph MnPyr	TS	Sericitic alterations. For mineral identification. Carbonate vug or vein filling approximately 4 cm wide. Traces of pyrite in fractures.
11.8									
Rec 0.4'	5%				Rhyodacite tuff breccia, polymictic, fine fragmental. Fragmental nature masked by broken nature of core. Very poor recovery; section largely unknown.				
19.5									
Note - ? - Carbonate-filled cavities-lined by silver-black bright metallic micaceous habit mineral that gives a creamy brown streak. Laboratory determination required.									

MINERAL RESEARCH
LABORATORY

10308

*K. E. Northcote
Ph.D. PERM.*

PROPERTY Tets Group

LOCATION 53° 52' N I27 W

Grangus Saow 67 E 7 N

Site I

Diamond Drill Hole G 3

Depth of Hole 87 FT

Angle of Hole II° down

Direction of Hole W 40° N

Date completed Sept 6 1981

INT	REC	STRAT INT	FR	L	DESCRIPTION	M	MIN	ASSAY INT	ALTERATION & MINERALIZATION
		0		△△	Rhyodacite tuff breccia, light orange cream, iron staining, cream green altered fragments. Healed by or intermixed with light/medium grey aphanitic and very fine grained granular to intrusive rock. Core abundantly broken as a result of blocking during drilling.		Cpy Sph?		Fe staining. Mn staining. Traces of disseminated chalcopyrite and associated with drusy in fillings. Copper staining. Disseminated pyrite in granular matrix. Sericitic alteration, strong locally. Mn and weak iron staining on fracture surfaces.
Rec 5'	55%	5		△△		Siliceous veins or infilling between tuff fragments Layering @ 30° to core axis. Less obvious breccia texture but may be masked by intensely broken nature of core.			
Rec 1.9'	100%	9		△△	Rhyodacite tuff breccia, mottled light orange-cream and light grey.				Sericitic alteration, strong locally. @ 12'6" @ 13' @ 13'6"
Rec 10.9'	90%	10		△△	Some interlayering with fine granular texture.				
Rec 4.6'	90%	12		△△	Some interlayering with fine granular texture. Rhyodacite tuff, less obvious brecciation, strong local mottling by pale orange brown iron staining.			Mn and weak iron staining on fracture surfaces. Mn and weak iron staining on fracture surfaces.	
Rec 2.2'	90%	17		△△		Layering @ 30° to core axis. Local tuff breccia interval.			
		19.5		△△					
		20		△△	Thin, black, very fine interbeds.				
Rec 10'	80%	25		△△	Tuff, light cream grey, greenish tint, locally irregularly mottled by light orange brown iron staining.				Fe & Mn staining on fracture surfaces.
		29.5		△△	Scattered thin medium/dark grey very fine grained interbeds.				
		30		△△	Intensely broken core which resulted from drilling.				
		35		△△	Trace of fine grained granular interbed				
		37.2		△△	Tuff, light cream grey, greenish tint, with scattered irregular interlayering with light and medium grey tuffaceous layers most very fine grained with some fine granular texture.				
		40		△△	Scattered carbonate veinlets.		Sph Cpy		TS Minor sphalerite in fractures with carbonate; traces of chalcopyrite. Pyrobitumen(?) & Mn staining.
		45		△△					
		50		△△	Fine granular salt & pepper interbed.		Cpy		Trace of disseminated chalcopyrite.

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Handwritten notes:
K. E. Northcote
PH.D.P.E.M.

INT	REC	STRAT INT	FR	L	DESCRIPTION	M	MIN	ASSAY INT	ALTERATION & MINERALIZATION
		50		T	Core missing, sent for assay. Rhyodacite tuff, interlayered light cream with green tint, light, medium and dark grey layers. Scattered calcite veinlets throughout interval.		Zn		Sphalerite & galena in carbonate filled cavities. Note - Greenockite reported in this interval but not confirmed by Northcote. Mn & weak Fe staining in fractures.
Rec 5'	77%			T			Gal		
		55		T	Scattered breccia intervals.				Abundantly broken core.
56.4				T					
Rec 2.5'	65%			T					Abundantly broken core.
59.5				T					
Rec 2.5'	36%			T					Abundantly broken core.
66.5				T					
Rec 1'	43%			T					Abundantly broken core.
68.8				T					
Rec 0.4'	10%			T					Mn & weak Fe staining in fractcs.
72.6				T					
Rec 3'	75%			T	Scattered purplish red flecks in a cream green tuffaceous matrix. Rhyolite tuff breccia, polymictic fragments, most less than 1 cm, most shades of light, medium and dark grey, some reddish or purplish tint. Some mottling by iron stained intervals.				
77.5				T					
Rec 1.5'	27%			T	Scattered calcite veinlets.				
83				T					
Rec 1.5'	38%			T	Rhyolitic tuff breccia, polymictic fragments, cream, shades of light medium and dark grey.				
85				T					
				T	Scattered calcite veinlets.				
87				T					
					T.D. 87 ft.				

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K. E. Northcote
Ph.D. Perm.

PROPERTY Tets Group

Location 53 52' N I27 W

Grangus Show 67 E 7 N

Site 1

Diamond Drill Hole G4

Depth of Hole 7.5 ft

Angle of Hole Vertical

Direction of Hole Vertical

Date completed Sept. 13 1981

Site 2

Diamond Drill Hole G5

Depth of Hole 10 ft.

Angle of Hole 60 down

Direction of Hole W

Date completed Sept. 20 1981

Diamond Drill Hole G 6

Depth of Hole 4.5 ft

Angle of Hole 60 down

Direction of Hole W. 34 N

Date completed Sept 24 1981

INT	REC	STRAT INT	FR	L	DESCRIPTION	M	MIN	ASSAY INT	ALTERATION & MINERALIZATION
Rec 3'	67%	0		T T Δ T Δ T T Δ T Δ T T	Rhyodacite tuff/tuff breccia; mottled light/medium grey and light orange tan staining - locally brecciated.				Abundantly broken core may mask brecciated nature of the rock. Mn and minor Fe staining on fracture surfaces. Scattered flecks bright green waxy mineral.
4.5'		5		T T T T T T	Irregular carbonate infillings lined by black micaceous mineral.				
Rec 3"	8%			T T T T	Very poor recovery.				
7.5'					T.D. 7.5 ft.				
81 G-5		Page 1 of 1							
Rec 1'	25%	0		T T Δ T T Δ T T Δ T T Δ T T Δ	Rhyodacite tuff; mottled light cream grey and pale orange tan, some core chips show brecciated texture.				Mn and weak Fe staining on fractures. Traces of disseminated pyrite. Small bleb of fine granular pyrite
Rec 4'	63%	5		T T Δ T T Δ T T Δ T T Δ	Locally brecciated healed by vfg black matrix containing micaceous material. Core missing.	W/M	Pyr		
5.6'				T T T T T T	Andesitic tuff, dark green-grey, massive, cut by small irregular carbonate veinlets <0.2 to 0.5 cms. Matrix contains disseminated dark grey green and orange red blebs.				
Rec 4.4'	100%	10		T T T T	Cut by calcite veinlets. T.D. 10 ft.				
81 G-6		Page 1 of 1							
Rec 3'	60%	0		T T Δ T T Δ T T Δ T T Δ	Rhyodacite tuff breccia, very fine tuff mottled light cream grey with light orangy cream stain, brecciated. Matrix between fragments rimmed by sphalerite & filled with calcite. Scattered blebs of fine granular pyrrhotite and chalcopyrite(?)		Sph Cpy?		Mn and lesser Fe staining on fracture surfaces. Traces sericite alteration. Note - granular metallic mineral too dull for cpy, soft, non-magnetic.
4.5'		5		T T T T	T.D. 4.5 ft.				

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*K. E. Northcote
PHD PER.*

PROPERTY Tets Group

LOCATION 53° 52' N I27 W

Grangus Show 67 L 7 N

SITE 2

Diamond Drill Hole G 7

Depth of Hole 10 ft

Angle of Hole 42° down

Direction of Hole W 34° N

Date completed Sept. 30 1981

Diamond Drill Hole G8

Depth of WOLE 8.5 ft

Angle of Hole 19° down

Direction of Hole W34° N

Date completed Sept. 30 1981

INT	REC	STRAT INT	FR	L	DESCRIPTION	M	MIN	ASSAY INT	ALTERATION & MINERALIZATION
		0	S	T Δ T	Rhyodacite tuff breccia, very fine tuff, mottled light cream grey with light orangy cream stain, brecciated.		Pyr Sph		Mn and lesser Fe staining on fracture surfaces. Traces of sericite alteration.
4.5'		5	W	T Δ T	Matrix between fragments rimmed by sphalerite & siderite and filled with calcite.				
6'				T Δ T	Scattered blebs of granular pyrrhotite and chalcopyrite.				Pyr, too dull for chalcopyrite. Sparsely disseminated small single grains of soft black metallic mineral.
10'		10		T Δ T	Scattered blebs of blue green waxy sericite(?)				
					T.D. 10 ft.				
81 G-8 Page 1 of 1									
Rec 2.5'	68%	0	S	T Δ T	Rhyodacite tuff breccia, very fine tuff, scattered plagioclase crystals, mottled light cream grey with light orangy cream stain, brecciated.		Pyr		Mn and lesser Fe staining on fracture surfaces. Trace disseminated pyr
4'		5		T Δ T	Dark grey very fine grained siliceous material forming matrix between breccia fragments.				
Rec 2.5'	56%			T Δ T	One or two core fragments show calcite breccia infilling rimmed by thin layer of sphalerite & scattered blebs of soft granular dull pyrrhotite.		Sph		Traces sphalerite rimming calcite breccia infillings.
8.5'			W	T Δ T	Abundantly broken core as a result of drilling.				
		10		T Δ T	Bottom 6 inches darker tuff, andesitic, massive, disseminated orange-red flecks.				
					Bedding @ ~ 45° to core axis.				
					T.D. 8.5 ft.				
					Cone of bedding possibilities.				

10,308

*K. E. Northcote
Ph.D. PER.*

DIST: A/C 130-530
 DEPT: Geology

EQUITY SILVER MINES LIMITED

ASSAY CERTIFICATE

Attention: _____ Engineering _____
 Mine Manager _____ Geology _____
 Mill Supt. _____ Mill _____
 Pit Supt. _____ Research Met _____
 Plant Supt. _____ Research Leach _____
 Adm. Supt. _____ Leach Plant _____

DATE 8th Dec. 1981

SAMPLE	Cu	Ag	Au	Sb	As	Pb	Zn		
	%	g/t	g/t	%	%	%	%	%	%
1	TR	3	.02	Drill Core BDH G3	50'	.00	.67		
2	.04	2	.18	Printed Site 2	Valc G5-8)	RK .01	.23		
3	[REDACTED]								
4	[REDACTED]								
5	[REDACTED]								
6									
7									
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20									
21									
22									
23									

Harold Hewitt

ND - Not Detected
 TR - .01%
 IN Ag TR - 1.0 gm/TONNE

Signed 