GEOLOGICAL, GEOCHEMICAL AND PROSPECTING REPORT

for

MARYLOU 1-96 CLAIMS

105J/1

62°07' Lat. 130°22' Long.

STAN CLEMMER

July 18, 1979 to October 3, 1979

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MINING RECORDER
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090704

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

$ 17,299.78

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

B. R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

1979 PROPERTY REPORT

Title:	GEOLOGICAL AND GEOCHEMICAL REPORT, TRAFFIC MOUNTAIN, MARYLOU CLAIMS
Author:	S.G. CLEMMER
Date:	JANUARY 1980
Commodities:	Ag, Pb, Zn, Cu, Au, W, Mo
Location: -Area (Location Code)	Anvil Range Project (3114)
-Mining District	Watson Lake
-Coordinates	Lat. 62°07' Long. 130°22'
-NTS	105J/1

GETTY CANADIAN METALS, LIMITED
VANCOUVER OFFICE

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SUMMARY

The MARYLOU mineral claims are located 70 miles west of Ross River within the Watson Lake mining district of the Yukon Territory on NTS map sheet 105J/1 at approximately Lat. 62°07', Long. 130°22'. The MARYLOU claims were staked as part of the 1979 Anvil Range Project, (Getty Mines, Ltd. - 100% operator).

The mineral showings on the MARYLOU claims at Traffic Mountain were found while following up old Atlas Exploration Co. Ltd. stream geochemistry data. A total of 50 man-days were spent prospecting the area and 328 mineral claims were staked covering all known indications of mineralization. Thirty four soil samples, 106 silt samples and 84 rock chip samples were analaysed.

The rocks at Traffic Mountain consist of Proterozoic and Lower Cambrian sediments and Lower Devonian black shales intruded by at least three intermediate plutonic stocks mapped by the Geological Survey of Canada as Cretaceous in age.

Five significant areas of mineralization were located. To date all mineralization observed appear to be epigenetic and related to the intrusion of the plutonic rocks but the possibility of a syngenetic source should not be overlooked. Assays are as high as 52.1 oz/ton silver were obtained from grab samples. The following styles of mineralization were observed:

i) Arsenopyrite, galena, sphalerite and chalcopyrite occur as breccia fillings, fracture fillings and disseminations at or near intrusive contacts (CLARK, EAST and WEST showings)

ii) Massive pods of arsenopyrite, galena, chalcopyrite and sphalerite occur within alteration zones within a quartzite bed (ML showing)

iii) Sphalerite, chalcopyrite and low gold values occur within skarn zones in a calc-silicate unit (Skarn Showing)

Geochemical silt sampling indicates that most of the streams draining Traffic Mountain are at least marginally anomalous in lead and zinc.

CONCLUSIONS

1. A significant area of Ag-Pb-Zn mineralization has been outlined at Traffic Mtn. and further work is warranted.

2. All mineralization found to date appears to be epigentic but the possibility of a syngenetic source should not be overlooked.

3. The potential for outlining either a high grade, low tonnage or low grade, high tonnage silver zone on Traffic Mountain is excellent.

RECOMMENDATIONS

1. An intensive program of silt sampling should be carried out on all streams in the immediate area of Traffic Mountain. Significant anomalies should be followed up by detailed prospecting. Heavy mineral concentrates should also be collected and analysed for W and Au.

2. Geological mapping should be carried out over the entire MARYLOU claims. Reconnaissance mapping should be carried out over the entire area and detailed mapping in areas of mineralization.

3. Grid controlled soil sampling should be carried out in the valley and cirque containing the ML and EAST showings.

4. All known showings should be mapped, sampled and prospected in detail.

5. A regional program of silt sampling, prospecting and showing evaluation should be carried out in the region surrounding Traffic Mountain.

INTRODUCTION

The data compilation carried out for the 1979 Anvil Range Project acquired the results of a 1968 Atlas Exploration Co. Ltd. stream sediment survey from assessment files in Whitehorse. Part of this survey covered the Traffic Mountain area and indicated that two streams draining the north side of Traffic Mountain are anomalous in lead and zinc. These stream sediment anomalies were followed up in mid-July. Boulders of massive arsenopyrite-galena-sphalerite-chalcopyrite float were found in talus by M. Hill (a geologist employed for the summer by Getty) during this initial evaluation. Subsequent prospecting located five areas of significant mineralization and 96 claims had been staked by mid-August. The silver assays were not received until late August and as a result of these high assays and a limited stream sediment survey carried out by Getty, the MaryLou claim block was expanded to a total of 328 claims in early October.

LOCATION, ACCESS AND TOPOGRAPHY

Traffic Mountain is located 70 miles east of Ross River. The center of the MARYLOU claim group is located at approximately 62°07' latitude and 130°22' longitude.

Access is by helicopter from Ross River and float planes can land on Pelly lakes, 2 miles south of Traffic Mountain. A winter cat trail passes 2 miles south of Traffic Mountain and it is 40 miles to the Robert Campell Highway along this trail.

The topography is rugged and Traffic Mountain is 6739 feet high while the Pelly Lakes are 2897 feet above sea level. Tree line is at about 4500 feet above sea level and about one third of the property is above tree line.

CLAIMS

The MARYLOU 1-328 claims consist of 328 contiguous mineral claims located in the Watson Lake Mining District of the Yukon Territory (see figure 2).

Claims	Date Recorded	Grant No.
MARYLOU 1-32	Aug. 2, 1979	YA45065-YA45096
MARYLOU 33-96	Aug. 28, 1979	YA45544-YA45607
MARYLOU 97-328	Oct. 25, 1979	YA46394-YA46625

PREVIOUS WORK

Traffic Mountain has never been staked before and no mention of mineral showings is known in public literature. A geochemical stream sediment survey carried out by Atlas Exploration

VANCAL

0 100 200 300

miles

Getty Mines, Limited

ANVIL RANGE PROJECT 1979

Location of MARYLOU Claims -

Traffic Mountain, Yukon Territory

DRAWN BY:	JOB NO.	FIG NO.
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DATE:		

WEST
WEST
SKARN
ML
EAST
TRAFFIC MTN.
CLARK
LEGEND
Mineral Showing ML
MARYLOU 1 - 32
(recorded Aug. 2/79)
MARYLOU 33 - 96
(recorded Aug. 28/79)
MARYLOU 97 - 328
(recorded Oct. 25/79)
MILES
0 1/4 1/2
Getty Mines, Limited
ANVIL RANGE PROJECT 1979
MARYLOU 1-328 CLAIMS
(105J/1)
WATSON LAKE MINING DISTRICT
YUKON TERRITORY
DRAWN BY: Altair
CHECKED BY:
DATE:
JOB No
FIG No
2

Co. Ltd. (presently Cima Resources Ltd.) in 1968 indicated that two streams draining the north side of Traffic Mountain are highly anomalous in lead and zinc. The anomalies were apparently followed up but no claims were staked.

The PIKE property of Cima Resources lies seven miles west of Traffic Mountain. The property lies on strike with the same trend that hosts the Traffic Mountain mineralization. Mineralization on the PIKE is related to a subvolcanic, elongate Tertiary granitic stock and consists of disseminated arsenopyrite, chalcopyrite, pyrite, galena and sphalerite both in the country rocks and the stock itself. Cima Resources reported that the No. 1 zone contains 2500 tons per vertical foot of 0.61% Cu and 2.4 oz/T Ag.

CURRENT PROGRAM

As part of the 1979 Anvil Range Project the known anomalous streams on Traffic Mountain were followed up. Initial prospecting located several pieces of massive arsenopyrite-galena-sphalerite-chalcopyrite float in talus. Emphasis was placed on prospecting and a limited silt sampling program was carried out. Work carried out included:

- 4 days prospecting
- 8 day 2-man fly camp
- 7 days claim staking MARYLOU 1-96
- 2 days helicopter silt sampling
- contract staking of MARYLOU 97-328
- 34 soil samples collected
- 84 rock chip samples collected
- 106 silt samples collected

Five significant areas of mineralization were located and several other creeks draining Traffic Mountain were found to be geochemically anomalous.

REGIONAL GEOLOGY

The regional geology surrounding Traffic Mountain is shown in Figure 3. Proterozoic and Lower Cambrian sediments are unconformably overlain by a thick package of Paleozoic sediments and lesser intercalated volcanics. These rocks are cut by Cretaceous and Tertiary intermediate plutonic rocks and overlain by Tertiary volcanic rocks.

Figure 3: Regional Geology, Traffic Mountain
(Reproduced from GSC map 12-1961, Roddick, 1958, 1960, and Green 1960)
See next page for legend
Scale 1:250,000

Legend for figure 3

Quaternary

15	Overburden

Tertiary

14	Mafic to Intermediate volcanics
13	Intermediate Granitic Rocks

Cretaceous

11	Intermediate Granitic Rocks

Upper Devonian and Lower Mississippian

5	Clastic sediments

Silurian and Devonian

4	Carbonate and Clastic sediments

Ordovician and Silurian

3	Road River clastic sediment

Proterozoic

1	Clastic and carbonate sediments

GEOLOGY

(i) Property Geology

Traffic Mountain is part of a large east-west trending anti-formal structure with Proterozoic and Lower Cambrian sediments forming the core flanked on the north side by Road River Shales and on the south by Devonian-Mississippian black shales. These sedimentary rocks are cut by at least three intermediate stocks mapped by GSC as Cretaceous in age. However no age dating has been performed and the stocks may be Tertiary in age.

(ii) Lithology and Structure

A preliminary geological map of Traffic Mountain is shown in Figure 4. The Proterozoic and Lower Cambrian rocks of Unit 1 consist of purple blown pelitic hornfels, grey limestones, garnet bearing light green calc-silicates, grey cherts and white quartzites. The Devonian-Mississippian rocks of Unit 2 consist of black phyllitic shales. The sedimentary rocks generally strike easterly and dip moderately to steeply north and south. The sediments are cut by at least three stocks of medium grained quartz monzonite. The stocks appear to trend east-west parallel to the prominent regional trend. The stocks are presently mapped as Cretaceous in age.

(iii) Mineralization

Five mineral showings were located on the MaryLou claims and are shown in Figure 5.

a. ML Showing

The showing is located 6200 feet above sea level in the west central part of the claim group. The showing is exposed in a steep shute and access is difficult. The enclosing rocks consist of intercalated white quartzite and brown pelitic hornfels of unit 1. Massive arsenopyrite-galena-sphalerite-chalcopyrite sulfides occur as discontinuous lenses, patches and breccia fillings within a zone of alteration contained within a 12 m thick quartzite bed. The largest lens of massive mineralization is up to 2 m thick and appears to extend along strike for 10 m. The alteration zone is up to 5 m wide and can be traced for 50 metres along strike. The zone of alteration is rusty to yellow-green weathering and contains minor disseminated arsenopyrite, galena and chalcopyrite. Grab samples of the massive sulfides

assayed up to 52.1 oz/ton Ag. The results of limited chip sampling carried out across the higher grade lenses is given in Table 1. The location of some of the chip samples is shown on Plate 1. No significant gold values are known at the ML showing.

b. EAST Showing

The EAST Showing is located 700 m east of the ML showing within the same cirque. The mineralization appears to be localized at the contact between peletic hornfels and cherts of unit 1 and the quartz monzonite of unit 3. The rusty gossan associated with this mineralization extends 2 miles across the property but only the immediate vicinity of the EAST showing has been prospected in detail.

Arsenopyrite, pyrrhotite, sphalerite, galena and chalcopyrite occur as fracture and breccia fillings and as disseminations both within the hornfels sediments and in altered quartz monzonite at or near the contact between the two. The higher grade mineralization occurs in fractured and brecciated cherts. A grab sample of mineralized chert from outcrop assayed 4.8 oz/ton Ag, 0.37% Cu, 3.20% Pb and 6.70% Zn. Grab samples of mineralized float assayed up to 18.9 oz/ton Ag. A grab sample of altered quartz monzonite float assayed 1.91 oz/ton Ag, 1425 ppm Cu, 6300 ppm Pb and 1.46% Zn. Only one sample from the EAST showing contained significant gold, containing 1,400 ppb. Overburden cover in this area prevents a good evaluation of the extent of this showing. The best exposed area of mineralization observed was exposed over an area 0.5x5m before being obscured by overburden.

c. CLARK Showing

A lens of massive pyrrhotite-galena-sphalerite-pyrite mineralization (0.5 m wide, 3 m long) occurs at the contact between an altered elongate quartz monzonite stock and Devonian black phyllitic shales. The massive mineralization has a sheared appearance suggesting it is localized in an east-west shear zone. The GSC regional map (Figure 3) shows an east-west trending fault in this area. The results of several grab sample assays are given in Table 2.

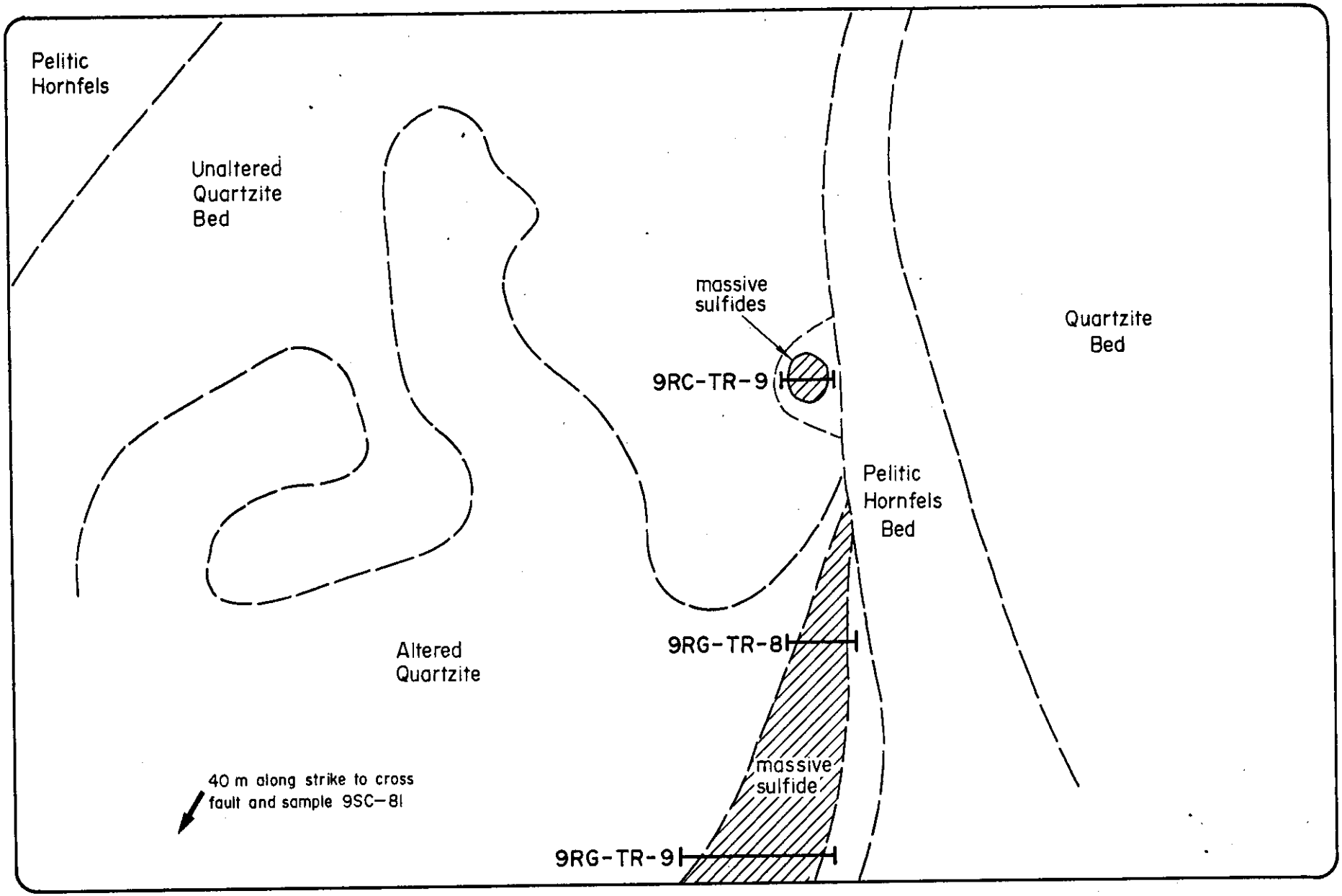


PLATE 1 : Geology and Chip Sample Locations, ML Showing Chip Sample Results in Table 2.

TABLE 1: RESULTS OF CHIP SAMPLING ML SHOWING

Sample No.	Interval	Ag oz/ton	Cu %	Pb %	Zn %	Description
9RC-TR-6	2m	14.6	1.01	5.10	1.96	-lense of massive sulfide 2m x 10m
9RC-TR-8	½m	3.21	0.45	2.64	0.13	-narrow end section of lens sampled in 9RC-TR-6
9RC-TR-9	1m	23.4	1.05	12.5	0.18	-small pod 1m x 3m, 10 m up from 9RC-TR-8
9SC-81	1m	5.97	0.09	2.20	0.11	-shear or breccia zone, 50m east of 9RC-TR-6

TABLE 2: ANALYSIS OF CLARK SHOWING GRAB SAMPLES

Sample No.	Ag	Cu	Pb	Zn	Au	Description
9RC-TR-16	15.2 oz/ton	0.03%	10.4%	14.4%	0.002 oz/T	Massive sulfide
-17	23.5	0.03	19.7	1.06	0.002	Massive sulfide
-18	6.22	0.01	4.56	0.18	0.020	Massive sulfide
-19	0.63 oz/ton	0.01%	0.53%	0.07%	0.002 oz/T	Mineralized altered pluton
-20	5.4 ppm	20 ppm	2420 ppm	131 ppm	45 ppb	Altered pluton
-21	0.4 ppm	18	64	113	5	Unaltered pluton
9RC-TR-22	6.5 ppm	320 ppm	920 ppm	600 ppm	130 ppb	Altered pluton

d. Skarn Showing

Minor skarn zones occur to the north of the EAST showing within a thick calc-silicate unit of unit 1. The skarn zones contain disseminated sphalerite, chalcopyrite, scheelite and locally molybdenite. The largest skarn zone observed is 1 metre thick. The results of geochemical analysis of mineralized skarn material is given in Table 3. Gold assays of 3800 ppb (approx. 0.1 oz/ton) were obtained in float samples of skarn. One sample of pyroxene rich skarn float assayed 0.60% WO_3.

e. WEST Showing

Two minor occurrences (9RG-57,62) occur near the western claim boundary. Arsenopyrite occurs within breccia zones as small 0.2x0.1 metre patches. Grab sample assays are given in Table 4. Of particular note are the significant gold values.

f. Other Mineralization

(i) Arsenopyrite was observed along an intrusive contact on the far east knob at station 9MB-62. A grab sample contained no signficant quantities of economic elements.

(ii) Massive arsenopyrite-galena-sphalerite occur in a piece of quartzite breccia float assayed 6.10 oz/ton Ag, 0.14% Cu, 12.7% Pb and 15.6% Zn (sample 9RG-53-1). The sample location is ½ mile west of the ML showing in the adjacent cirque.

(iii) A sample (9ML-74) of fractured quarzite float contains sphalerite, chalcopyrite and pyrrhotite and assayed 10.7 oz/ton Ag, 0.42% Cu, 1.19% Pb and 0.51% Zn. The sample location is 3/4 of a mile east of the EAST showing.

TABLE 3: ANALYSIS OF SKARN SAMPLES

Sample No.	Ag	Cu	Pb	Zn	Mo	W	Au	Description
9SC-82	0.20 oz/ton	0.25%	0.01%	0.42%	4 ppm	120 ppm	0.040 oz/ton	Float, skarn bearing calc-silicate, minor pyrrhotite, chalcopyrite
-83	6 ppm	560 ppm	100 ppm	780 ppm	1 ppm	2 ppm	5 ppb	Float, monor chalcopyrite in calc-silicate
-88	12.2 ppm	1160 ppm	23 ppm	3800 ppm	240 ppm	G2000 ppm	3640 ppb	Float, minor sphalerite, chalcpyrite, molybdenite in skarn
-90	0.44 oz/ton	0.27%	0.01%	0.44%	91 ppm	650 ppm	0.050 oz/ton	Outcrop, grab sample from 1 m thick skarn zone, disseminated sphalerite, chalcopyrite
9SC-91	30.0 ppm	5600 ppm	30 ppm	3400 ppm	1.30%	0.24%	3840 ppb	Float, molybdenite, chalcopyrite, pyrrhotite, arsenopyrite in skarn
9ML-75	1.2 ppm	33 ppm	33 ppm	120 ppm	46 ppm	0.60%	105 ppb	Float, pyroxene rich skarn, 500 m south of 9SC-90

TABLE 4: ANALYSIS OF WEST SHOWING GRAB SAMPLES

Sample No.	Ag oz/ton	Cu %	Pb %	Zn %	Mo ppm	W ppm	Au oz/ton	Description
9RG-57-1	1.94	0.01	0.33	0.16	5	2	0.010	-outcrop, breccia zone
9RG-59	0.60	0.88	0.06	0.01	3	8	0.002	-float, arsenopyrite in breccia
9RG-62	0.05	0.06	0.02	0.01	2	4	0.11	-outcrop breccia zone

GEOCHEMISTRY

A total of 106 stream sediment samples and 34 soil samples were taken during the 1979 field season. The samples were analysed for Ag, Cu, Pb, Zn, Mo, W and Au using the -80 mesh fraction and standard geochemical methods.

1. Stream Sediment Survey

The following threshold values were determined for elements analysed:

Element	Background	Threshold	Remarks
Ag	0.4 ppm	1.5 ppm	-statistically determined*
Cu	45	100	" "
Pb	20	55	" "
Zn	150 ppm	275	" "
Mo	-	10	-arbitrarily chosen
W	-	10 ppm	- " "
Au	-	15 ppb	" "

The results of the stream sediment survey are shown in figures 7 & 8.

In general Pb and Zn anomalies coincide and highly anomalous Pb and Zn anomalies are usually accompanied by Cu and Ag anomalies. No highly anomalous Mo or W anomalies were detected and in the case of tungsten this could reflect sampling techniques (-80 mesh material analysed). Only one stream was found to be highly anomalous in gold.

The stream sediment survey outlined three anomalous areas (see Fig. 7)

Zone 1: A broad anomalous area is indicated extending from east of the EAST showing west to the WEST showing. This area coincides with the general trend of an elongate quartz monzonite stock. The geochemical anomalies are most intense in the stream draining the areas around the EAST and ML showings. A gold anomaly of 145 ppb

* anomalous population is taken as upper 2.5 percent of population.

Au is present in the cirque just west of the ML showing.

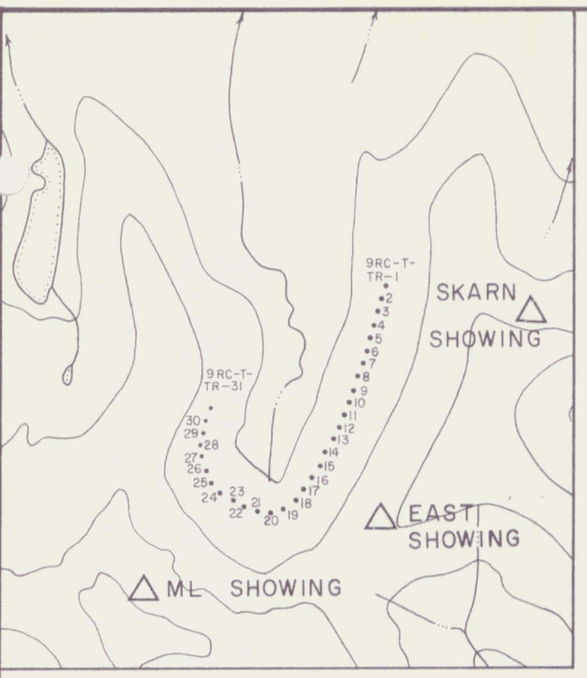
Zone 2: Two anomalous areas occur along the trend of the quartz monzonite exposed at the CLARK showing. A potential strike length of 2 miles is suggested.

Zone 3: A coincident Cu-Pb-Zn-Ag-Au anomaly is present in the stream draining the far east hill (station 9SCL-89).

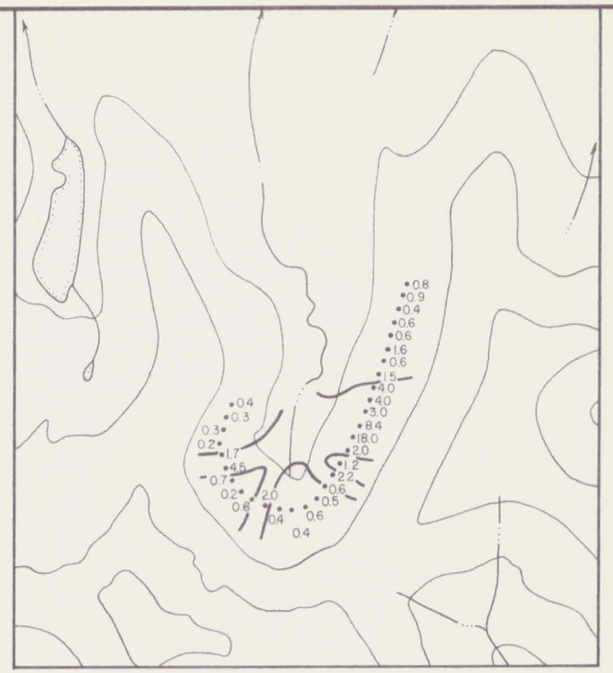
Other Areas: A Cu-Mo-Ag anomaly is present in a creek south of the CLARK showing off the claim group.

2. Soil Sampling

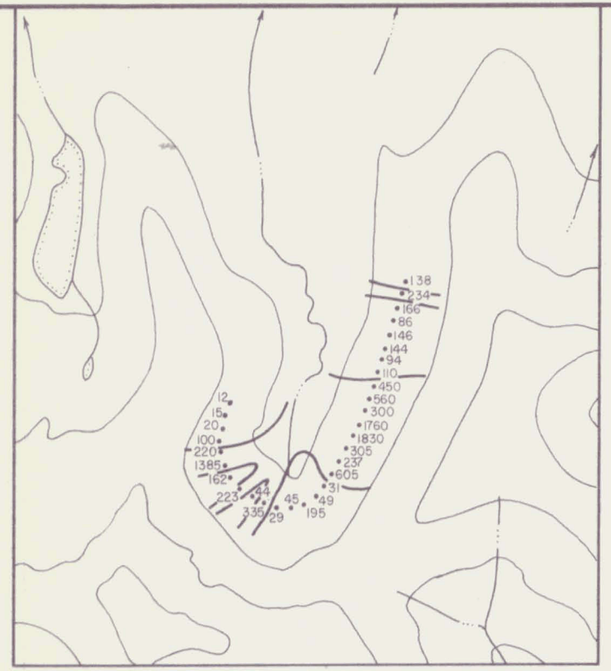
Contour soil sampling was carried out around the cirque containing the ML and EAST showings. The soil sampling results are shown in Figure 9. The soil sampling gave an intense Ag-Pb anomaly 300 m wide on the east side of the cirque that continues 500 m west and narrows to 75 m on the west side of the cirque. Zinc shows a similar but more erratic pattern. Two samples are anomalous in tungsten (300 and 32 ppm W) just north of the Pb-Ag anomaly.



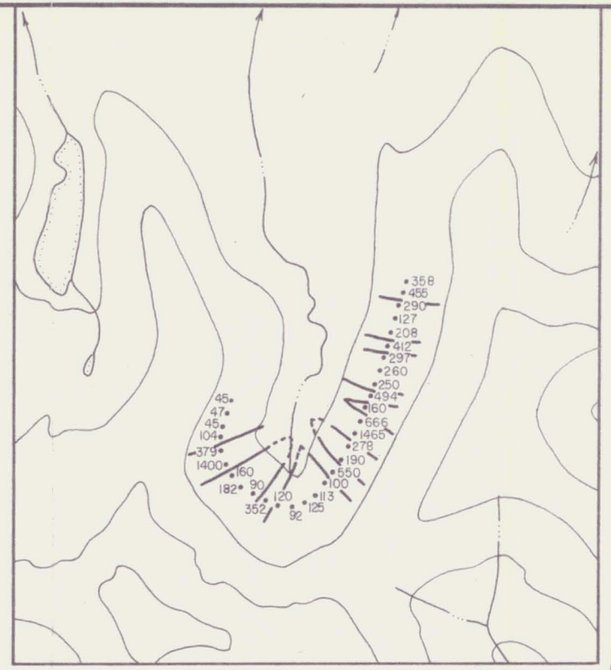
SAMPLE LOCATIONS



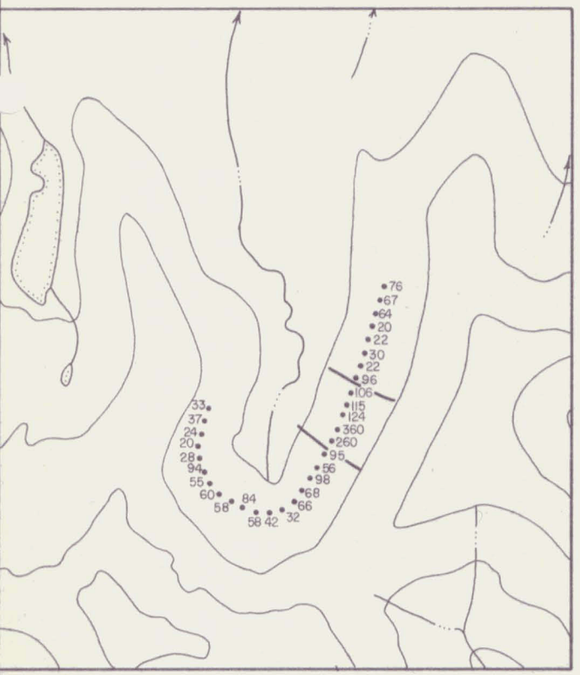
Ag P.P.M., 2.0 P.P.M. CONTOUR



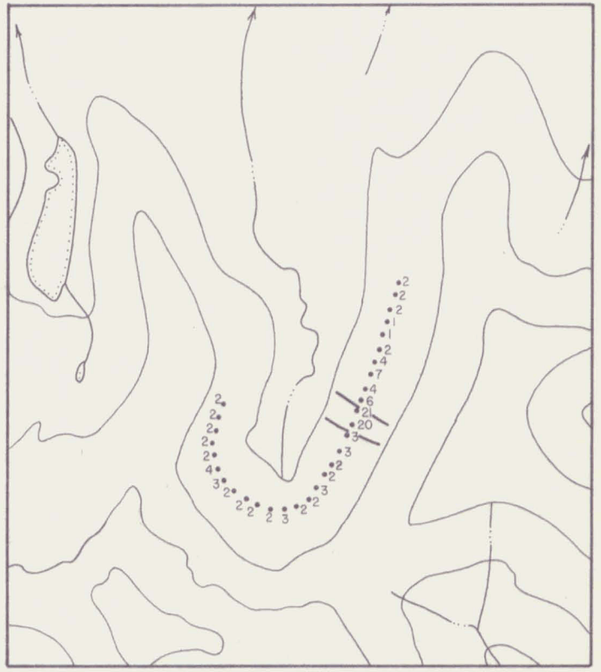
Pb P.P.M., 200 P.P.M. CONTOUR



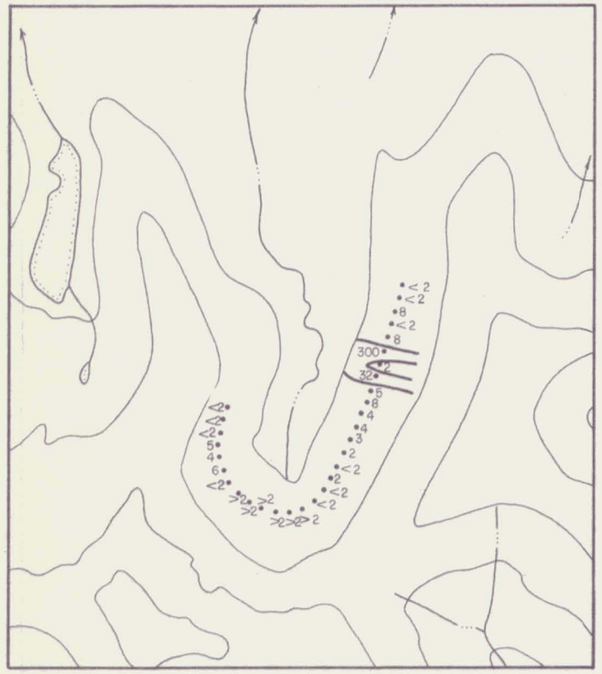
Zn P.P.M., 300 P.P.M. CONTOUR



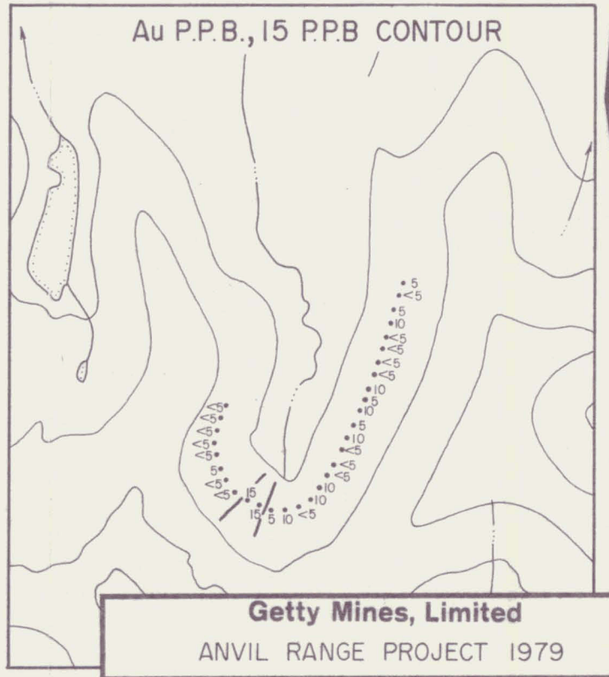
Cu P.P.M., 100 P.P.M. CONTOUR



Mo P.P.M., 20 P.P.M. CONTOUR



W P.P.M., 30 P.P.M. CONTOUR



500 0 500 1000

SCALE IN METRES

Getty Mines, Limited

ANVIL RANGE PROJECT 1979

SOIL SAMPLING
ML-EAST SHOWING CIRQUE
(See Figure 6 For Locations)

DRAWN BY: Altair	JOB No.	FIG No.
CHECKED BY:		9
DATE:		

Discussion

The following section is a discussion of current ideas on controls of mineralization on the Mary Lou claims.

ML Showing

Three features are thought to be important in localizing the ML mineralization:

(i) a porous white quartzite bed

(ii) a mineralized cross fault that offsets the quartzite bed by a few metres

(iii) an impervious pelitic hornfels hanging wall

Mineralizing solutions probably moved along the quartzite unit and were trapped by the combination of the impervious crossfault and pelitic hornfels bed. Mineralizing solutions could also have originally moved along the crossfault and then into the quartzite bed. Therefore it is expected that the intersection of the crossfault and quartzite bed should localize the mineralization to depth. Other crossfaults may cross the quartzite bed on strike and localize other areas of mineralization.

CLARK Showing

The massive sulfides at the Clark showing occur at the contact between altered quartz monzonite and black phyllitic shales. The sulfides have a sheared appearance suggesting they occur in a fault or shear zone. The shear zone appears to trend east-west and prospecting along this lineament is strongly recommended.

EAST Showing

This showing is localized at the sediment-quartz monzonite contact and in detail, the contact is very irregular. Delineation of this contact and location of other intrusive bodies will form an important prospecting guide. Brittle rock units such as chert appear to be important hosts for this mineralization.

SKARN Showings

Skarn zones found to date occur within the calc-silicate unit. Of particular note are high god assays up to 0.1 oz/ton Au from grab samples. The calc-silicate unit should be carefully prospected and skarn material analysed for Au and W.

APPENDIX 1

Traffic Mountain Rock Assay and Geochemistry.

-all samples collected in 1979.

-Samplers:	SC	Stan Clemmer
	RG	Rick Gregory
	RC	Rick Clark
	ML	MaryLouise Hill
	MB	Marcus Buck

-TR is used occasionally to refer to samples collected at Traffic Mountain

-see figure 6 for location of samples

APPENDIX 1

TRAFFIC MOUNTAIN ROCK ASSAY AND GEOCHEMISTRY

Sample No.	Ag	Cu	Pb	Zn	Mo	W	Au	Description
9SC-44	3.7 oz/T	1600	1.31%	150	5	4	165 ppb	-talus (breccia) float, arseno fracture filling
45	23.8 ppm	412	2500	2500	7	2	< 5	-talus (qtzite), < 1% diss. galena
46	2.0	80	666	475	10	2	< 5	-skarn zone outcrop, garnet, minor pyrrhotite
47	2.4 ppm	33	234	148	5	2	< 5	-multiple sample of yellow stained float
81	5.97 oz/T	.09%	2.2%	0.11%	2	4	.002 oz/T	-chip (ML Showing) across altered light green zone
82	0.20 oz/T	.25%	0.01	0.42	4	120	.040 oz/T	-float (skarn) calc-silicate minor pyrrhotite & cpy
83	6.0 ppm	560	100	780	1	2	< 5	-minor cyp in skarny calc-silicate
88	12.2 ppm	1160	23	3800	240	G2000	3640	-moly-carb. rich skarn
90	0.44 oz/T	.27	0.01	0.44%	91	650	.050 oz/T	-outcrop calcsilicate skarn 1% Cu-Zn
9SC-91	30.0 ppm	5600	30	3400	1.3%	0.24%	3840	-.24% WO_3 skarn impressive moly
9RG-37	1.3	71	65	20	5	2	< 5	-lt. & dk. grey banded siliceous siltstone
39	15.8 ppm	210	32	50	5	2	< 5	-interbed-siltstone & carbonate py mineraliz.
49-1	5.91 oz/T	.56	4.53	.12	4	16	.002	-grab sample from ML showing seems to be continuous; could be associated with vein along some type of fault gal.-sph., arseno minor Cu
-2	7.88	2.38	2.49	.15	7	10	.002	
-3	44.5	1.38	12.7	.92	2	12	.002	
-4	9.20	1.65	3.00	.32	4	4	< .002	
-5	52.1	1.00	33.7	.31	4	6	.002	
-6	25.4	.59	5.45	.17	2	4	.002	

Sample No.	Ag	Cu	Pb	Zn	Mo	W	Au	Description
9RG-50-1	.51	.01	0.18	.05	3	2	.002	-float from showings east side of main cirque
50-3	1.02	.01	0.90	1.41	4	3	.002	
53-1	6.1	.14	12.7	15.6	5	4	.002	-float from west side of west cirque-yellow-green stained arseno, gal., sph.
-2	.18	.01	0.11	0.6	8	4	.002	
-3	12.4	1.2	6.75	2.77	2	3	.002	
56-1	23.2	3.55	11.6	1.08	1	4	< .002	-azurite & malachite float main chute
-2	6.21	.34	2.54	.33	1	3	.002	-galena in qtz breccia float main chute
57-1	1.94 oz./T	.01	.33	.16	5	< 2	.010	-Far west chip sample - small pockets arseno & gal.
-2	.4	54	28	17	-	-	-	-host rock chip sample pyrrhotite in silty shale (hornfels)
9RG-58	5.0 ppm	125	72	90	-	-	-	-float hematite-rich breccia
59	.60 oz/T	.88	.06	.01	3	8	.002	-arseno in float in far west area
50-2	18.3 oz/T	1520	12.5%	7.90%	2	2	< 5	-chert found containing pyrrhotite
54	1.4 ppm	57	124	91	4	2	35	-chip sample of host qtzite down from main showings
55	.6 ppm	137	16	30	4	2	< 5	-float, chert with pyrrhotite
9RG-62	.05 oz/T	.06	.02	.01	2	4	.1oz/T	-breccia outcrop with arseno. Far west area
9ML-37-2	4.96	2000	1.13	1832	5	12	1400 ppb	-rusty boulder of altered sed-containing py
38-1	12.4 oz/T	1.31	4.55	1.97	5	< 2	90	-massive sulphides boulders arseno gal. chalco - probably sph. talus mat.
-2	7.01 oz/T	1.00	3.77	2.45	5	< 2	40	
-3	1.9 ppm	3250	40	1.29	5	< 2	5	-malachite stained qtzite float in talus
39-1	22.2 oz/T	1200	4.15	2000	7	< 2	15	-qtzite malachite staining-galena visible

Sample No.	Ag	Cu	Pb	Zn	Mo	W	Au	Description
9ML-41-1	2.19 oz/T	1050	1.05	200	5	8	20	-breccia boulder - arseno fracture filling
64	.4 ppm	68	10	16	2	< 2	-	-chip sample from phrrhotite-bearing porphyry
65	1.9 "	68	80	1155	8	2	-	-chip sample-hornfelsed siliceous seds dess. pyrrhotite
70	.1 "	37	10	160	1	< 2	40	-chip sample - rusty plutonic talus-phrrhotite
72	.2 "	60	5	45	1	2	< 5	-chip sample - quartzite
74	10.7 oz/T	.42	1.19	.51	1	2	.002 oz/T	-float in talus sph, chalcopyrite,pyrrhotite,qtzite host rock
75	1.2 ppm	33	33	120	46	.6%	105	-talus material rusty pyroxene rich skarn - pyrrhotite
9ML-76	3.7 ppm	107	200	4000	3	3	20	-chip sample of talus - mineralized altered pluton
9RC-28-1	6.4 ppm	178	41	1405	7	4	< 5	-qtz monz 1% diss. pyrrhotite
-2	6.2	53	626	550	5	2	30	-massive arseno.
-3	2.92 oz/T	706	1.92	1.78	5	4	75	-py, po, sp, gal, arseno, fracture filling - chert breccia
-4	16.5 ppm	180	2250	1765	2	2	5	-minor pyrrhotite sph, gal. in chert
-5	2.0	192	110	100	10	16	15	-pyrrhotite in qtz monz.
-6	23.0 ppm	132	1900	812	5	2	5	-po minor sp & ga. as fracture fillings in qtz. monz.

Sample No.	Ag	Cu	Pb	Zn	Mo	W	Au	Description
9RC-28-7	1.99 oz/T	108	6750	9400	5	3	<5	-po minor sp & ga. as fracture fillings in qtz monz.
-8	11.0 oz/T	3500	3.06	1.0	5	3	90	-massive arseno.
-9	9.2 ppm	200	550	580	5	2	<5	-po in qtz monz.
-10	1.91 oz/T	1425	6300	1.46	15	8	10	-arseno in altered qtz monz.
-TR-1	45.6	.71	20.4	.05	2	3	.002	-outcrop main showing gal, chalco & arseno
9RC-TR-3	11.5 oz/T	.17	2.56	.19	4	6	.002	-talus chute outcrop east side of main cirque - gal & arseno
9RC-TR-4	.80 oz/T	.03	.52	.28	3	3	.002	-east side of cirque highly min gal py & arseno (bd rk)
-5	4.89	.37	3.20	6.70	4	4	.002	-gal py & arseno in chert bd rk
-6	14.6	1.01	5.10	1.96	2	6	.002	-chip sample (2 m width) includes altered & mineralized zone
-8	3.21	.45	2.64	.13	1	12	.002	-chip sample across mineralized area ½ m intervals
-9	23.4	1.05	12.5	.18	2	4	.002	-chip sample 1 m interval
-10	.23	.08	.10	.04	1	3	.002	-float east side of cirque altered pluton
-11	.82	.02	.26	.48	4	4	.002	do.
-12	18.9	.07	3.55	.11	2	6	.002	-float from east side highly altered/green & yel. weath.
-13	1.31	.01	1.39	.89	4	3	.002	-float from east side altered breccia
-14	.66 oz/T	.01	.41	.06	2	2	.002	do.

Sample No.	Ag	Cu	Pb	Zn	Mo	W	Au	Description
9RC-TR-3?	G100 ppm	298	1460	1260	2	340	35 ppm	-locality & type unknown
-16	15.2 oz/T	.03	10.4	14.4	2	<2	<.002	-massive mineralization (CLARKS Showing 16-22)
-17	23.5	.03	19.7	1.06	1	<2	<.002	do.
-18	6.22	.01	4.56	.18	2	4	.020	-heavily mineralized gal pyrrhotite arseno
-19	.63 oz/T	.01	.53	.07	2	3	<.002	-galena in altered plutonics
-20	5.4	20	2420	131	3	2	45	-galena in altered plutonic rock
-21	.4	18	64	113	2	<2	<5	-porphyry with no apparent mineralization
-22	6.5	320	920	600	1	<2	130 ppb	-chip sample in altered plutonic rock
9MB- 30d	2.5	218	125	50	10	1800	95 ppb	
30e	0.9	210	36	75	17	G2000	180	
30g	1.0	15	30	35	10	G2000	95	
30K-1	1.5	325	36	15	5	24	105	-See Map
30K-2	22.3 ppm	400	9500	4300	5	16	350	
30L	.04 oz/T	.11	.01	.01	7	3	<5	
30l-F	19.3 oz/T	1.39	4.28	3.55	10	2	5	-chip sample - boulder of massive arseno sph. & gal.
64	3.1 ppm	290	55	13	2	2	5	-arseno - from outcrop Buck's Nob

TRAFFIC MOUNTAIN SILT SAMPLES

Sample Number	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Au ppb
9RG-S-12	3.4	116	295	362	11	2	145
13	1.2	127	122	245	8	< 2	< 5
14	.8	80	83	149	-	-	-
9RC-L-40	.4	43	36	118	4	< 2	5
41	1.2	370	200	1100	4	< 2	35
42	.6	93	152	512	4	< 2	5
43	.6	103	134	550	3	< 2	5
44	.6	92	66	475	3	< 2	10
45	.6	124	60	666	3	2	10
46	.6	68	46	262	3	< 2	15
47	15.0	490	3440	2600	4	13	10
9SC-L-28	.5	50	47	190	1	2	10
9ML-L-32	2.3	50	360	700	1	6	5
9RG-L-1 (soil)	30.0	1500	7600	4400	3	4	160
9RC-TR-L-1	1.1	68	172	300	2	14	5
2	2.2	140	176	460	9	28	10

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Type of Samples Soil
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Au	W					
9SC-L-29	2	57	18	146	.2	.020	0					1
30	3	59	19	174	.4	.005	0					2
31	2	56	35	245	.3	.010	0					3
32	1	33	21	124	.2	.005	0					4
33	1	30	20	142	.1	.005	0					5
34	2	78	51	390	.3	.005	0					6
35	1	76	35	355	.3	.005	0					7
36	2	56	28	180	.3	.005	0					8
37	2	74	60	465	.4	.005	0					9
38	1	72	108	950	.5	.005	0					10
39	2	50	57	945	1.1	.005	0					11
40	3	52	62	240	.4	.005	0					12
41	1	48	84	162	.3	.005	0					13
42	1	50	82	156	.2	.005	0					14
43	3	70	62	395	.2	.005	0					15
44	6	134	23	890	.4	.005	0					16
45	1	7	14	19	.3	.005	0					17
46	14	136	28	310	1.3	.005	0					18
47	19	74	18	130	1.6	.010	0					19
48	16	96	17	94	3.0	.010	2					20
49	4	74	39	162	.9	.005	0					21
50	3	62	41	104	.8	.010	0					22
51	2	50	70	630	.5	.005	0					23
52	2	44	96	330	.8	.005	0					24
53	1	25	47	148	.3	.010	0					25
54	2	49	126	186	.9	.020	0					26
55	1	32	106	210	.5	.005	0					27
56	1	25	64	122	.2	.010	0					28
57	9	62	32	340	.6	.005	0					29
58	4	52	36	205	.6	.005	0					30
59	2	62	86	960	.6	.005	0					31
60	1	42	29	140	.2	.010	0					32
61	3	106	158	1000	1.8	.005	0					33
62	1	31	33	110	.1	.010	0					34
63	1	38	34	138	.2	.030	0					35
64	1	52	120	270	.4	.010	0					36
9SC-L-65	2	38	40	225	.4	.005	0					37
												38
												39
												40

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DETERMINATION:

DATE SAMPLES RECEIVED Oct. 5, 1979
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ASSAYER Dean Toye

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SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Au	W	
9SC-L- 67	1	21	48	94	.1	.005	0	1
68	1	20	39	74	.1	.005	0	2
69	1	24	62	96	.1	.005	0	3
70	1	20	41	98	.1	.005	0	4
71	1	25	102	124	.2	.005	0	5
72	1	30	104	150	.1	.005	0	6
73	1	64	188	320	.8	.010	0	7
74	1	80	460	450	.8	.005	0	8
75	1	62	116	356	.9	.005	2	9
76	2	45	24	156	.3	.005	0	10
77	1	32	30	148	.1	.005	0	11
78	1	36	43	200	.1	.010	0	12
79	1	42	26	144	.3	.005	0	13
80	1	29	18	102	.1	.005	0	14
81	1	40	19	104	.2	.005	0	15
82	1	46	18	138	.2	.005	0	16
83	2	51	20	158	.4	.005	0	17
84	2	39	16	126	.2	.005	0	18
85	2	44	18	158	.2	.005	0	19
86	2	56	20	174	.3	.005	0	20
87	1	48	19	164	.3	.005	0	21
88	1	40	7	45	.2	.005	0	22
89	1	230	84	740	1.6	.020	0	23
90	1	26	15	88	.1	.005	0	24
91	1	45	20	140	.3	.005	0	25
92	2	46	21	160	.2	.005	0	26
93	1	27	20	128	.2	.005	0	27
94	1	82	132	450	1.0	.010	0	28
95	1	106	150	535	1.2	.005	0	29
96	1	78	220	550	1.4	.010	0	30
97	1	24	17	176	.3	.005	0	31
98	1	33	18	122	.1	.005	2	32
99	2	57	19	170	.4	.020	0	33
100	1	56	23	154	.4	.005	0	34
9SC-L-101	1	55	19	142	.3	.010	0	35
								36
								37
								38
								39
								40

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DETERMINATION:

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ASSAYER

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phone:253 - 3158

To: Getty Mines Ltd.

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4

SAMPLE No.		Mo	Cu	Pb	Zn	Ag	Au	W					
9SC-L-104		2	45	24	146	.3	.005	0					1
105		2	46	22	154	.3	.005	0					2
106		3	66	23	174	.6	.010	0					3
107		1	37	22	140	.3	.005	2					4
108		1	28	27	96	.2	.020	0					5
109		3	52	22	188	.7	.005	0					6
110		2	53	108	285	.8	.005	0					7
111		2	54	53	205	.3	.005	0					8
112		2	31	28	94	.1	.005	0					9
113		1	62	196	410	1.2	.010	0					10
114		2	94	400	720	2.3	.010	0					11
115		2	138	560	915	3.1	.020	0					12
116		1	39	46	225	.3	.010	0					13
117		1	38	39	130	.2	.010	0					14
118		2	44	84	320	.4	.010	0					15
119		1	41	50	138	.2	.005	0					16
120		2	36	18	114	.2	.005	0					17
121		1	25	16	134	.3	.020	0					18
9SC-L-122		2	32	17	110	.2	.005	0					19
													20
													21
													22
													23
													24
													25
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CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

APPENDIX 3

Silt Sampling Results North of Traffic Mountain

SUMMARY

A total of 35 silt samples and 2 rock chip samples was collected in an area 3 to 5 miles north of the MaryLou claims at Traffic Mtn. (see figure A-1).

The results of the silt sampling are given on the following figures A-2, A-3, A-4, A-5 and A-6. No anomalous samples were collected.

The area is underlain by Upper Cambrian and Ordovician shales and Proterozoic and Lower Cambrian shales and quartzites. A brief summary of each outcrop observed is given below (see figure A-2 for locations):

1. 9ML-44, outcrop

   -dark grey, very finely bedded argillite
   -1% fine disseminated pyrite
   -bedding 280, 60N
   -geochemical analysis 0.4 ppm Ag, 16 ppm Cu, 18 ppm Pb, 40 ppm Zn

2. 9ML-43, float

   -siliceous chert breccia with 5% pyrite
   -geochemical analysis: 0.6 ppm Ag, 20 ppm Cu, 21 ppm Pb and 20 ppm Zn

3. 9MB-48 outcrop

   -red slate, cleavage 140, 60NE

4. 9MB-49, outcrop

   -reddish grey slate, cleavage 169, 70E

5. 9MB-50, outcrop

   -reddish grey slate, cleavage 140, 70NE

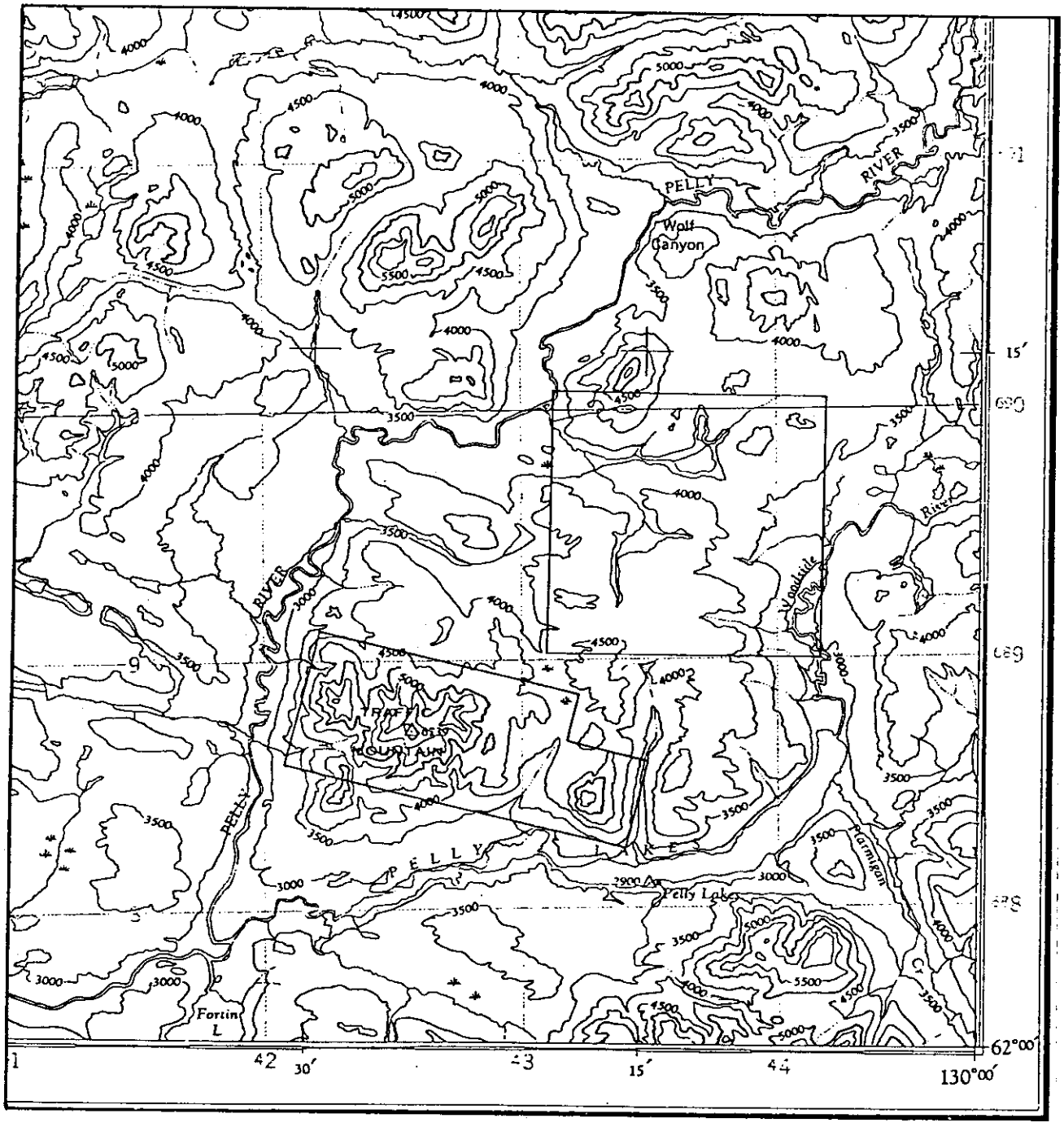
6. 9MB-51, outcrop

   -reddish-grey slate, cleavage 150, 85NE

No significant mineralization was observed in this area.

Conclusions and Recommendations

Upper Cambrian and Ordovician shales are present in the area and are potential hosts for massive sulfide deposits. Therefore, it is recommended that additional creeks be silt sampled and prospected in detail.



Outline of Silt Sampling Area ——

Outline MARYLOU claims ——

Scale

0 5

km

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Location of Silt sampling area north of Traffic Mtn.

DRAWN BY:	JOB No.	FIG No.
CHECKED BY:		
DATE:		

LEGEND

Silt Sample Site □ 9SCL-21

Station and/or Rock Chip ● 9ML-44

Float ○ 9ML-43

Scale

0 500 1000 1500 2000

metres

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ANVIL RANGE PROJECT 1979

Geochemical Silt Sampling
North of Traffic Mtn.

Sample Locations

DRAWN BY:	JOB No.	FIG No.
CHECKED BY:		A-2
DATE:		

LEGEND

Silt Sample Site	□ 9SCL-21
Station and/or Rock Chip	● 9ML-44
Float	○ 9ML-43
Silt Sample (Ag in ppm)	9SCL-21 □ (0.3)

Scale

0 500 1000 1500 2000

metres

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Geochemical Silt Sampling
North of Traffic Mtn.

Silver Results in ppm.

DRAWN BY:	JOB No.	FIG No.
CHECKED BY:		A-3
DATE:		

LEGEND

Silt Sample Site	□ 9SCL-21
Station and/or Rock Chip	● 9ML-44
Float	○ 9ML-43
Silt Sample (Cu in ppm)	9SCL-21 □ (42)

Scale

0 500 1000 1500 2000

metres

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Geochemical Silt Sampling
North of Traffic Mtn.

Copper Results in ppm.

DRAWN BY:	JOB No.	FIG No.
CHECKED BY:		A-4
DATE:		

LEGEND

Silt Sample Site — □ 9SCL-21

Station and/or Rock Chip — ● 9ML-44

Float — ○ 9ML-43

Silt Sample (Zn in ppm) — □ 9SCL-21 (107)

Scale

0 500 1000 1500 2000

metres

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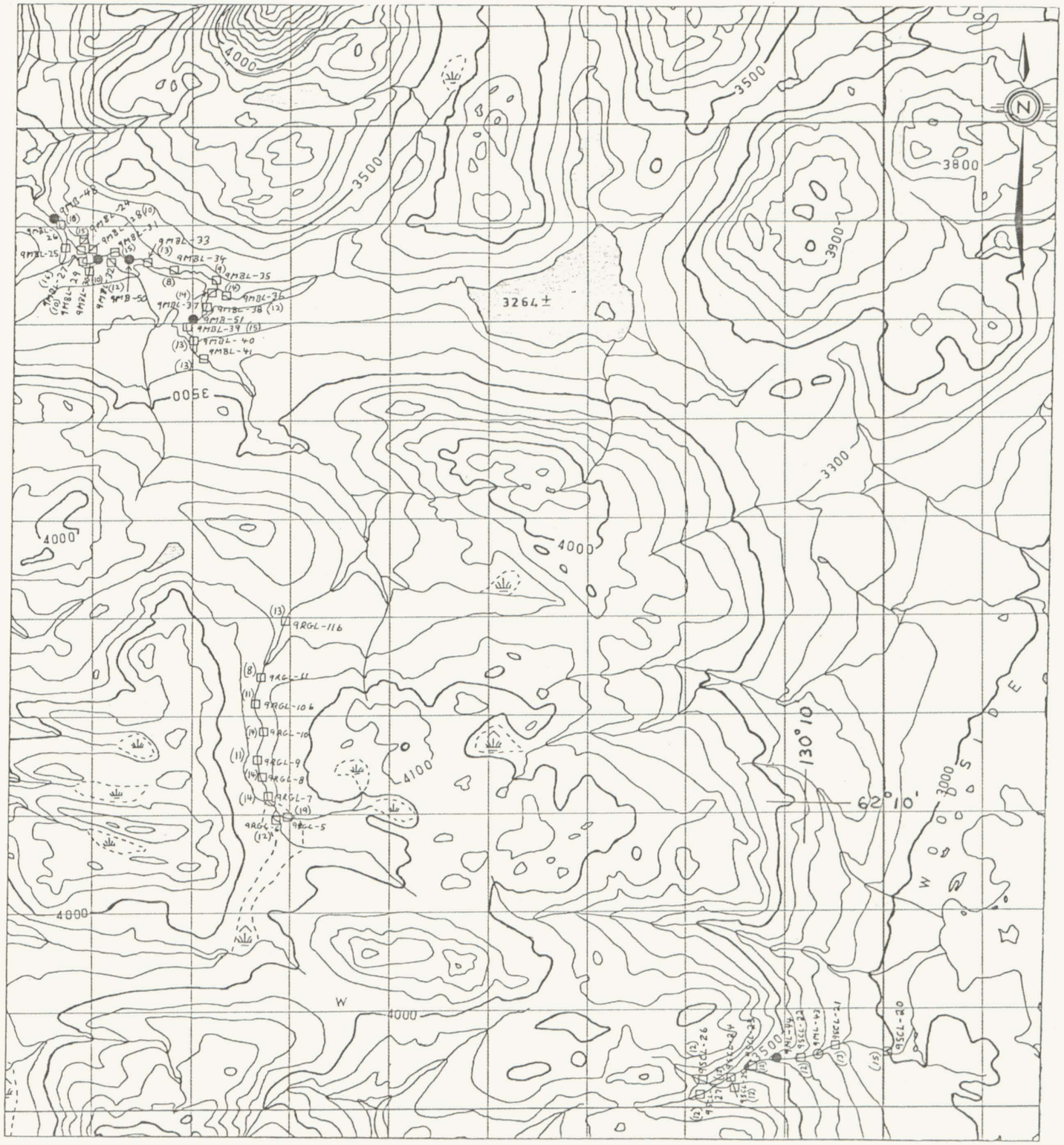
Geochemical Silt Sampling
North of Traffic Mtn.

Zinc Results in ppm.

DRAWN BY:	JOB No.	FIG No.
CHECKED BY:		A-5
DATE:		



LEGEND

Silt Sample Site — □ 9SCL-21

Station and/or Rock Chip — ● 9ML-44

Float — ○ 9ML-43

Silt Sample (Pb in ppm) — □ 9SCL-21 (15)

Scale

0 500 1000 1500 2000

metres

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ANVIL RANGE PROJECT 1979

Geochemical Silt Sampling
North of Traffic Mtn.

Lead Results in ppm.

DRAWN BY:	JOB No.	FIG No.
CHECKED BY:		A-6
DATE:		

Table 1: Silt Sample Results North of Traffic Mountain.

	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
9RGL-5	1.2	64	19	200
6	0.4	32	12	95
7	0.5	36	14	120
8	0.5	44	14	109
9	0.5	32	11	101
10	0.4	36	14	120
10b	0.3	26	11	110
11	0.2	12	8	73
11b	0.3	31	13	121
9SCL-20	0.5	37	15	100
21	0.3	42	13	107
22	0.4	36	12	108
23	0.4	42	12	120
24	0.5	40	12	116
25	0.5	38	12	100
26	0.4	52	12	119
27	0.4	28	12	108
9MBL-24	0.4	30	15	91
25	0.4	20	12	120
26	0.3	22	10	102
27	0.4	28	16	120
28	0.4	27	10	97
29	0.6	20	10	109
30	0.3	32	10	102
31	0.4	23	15	112
32	0.3	28	12	122
33	0.3	40	13	106
34	0.4	20	8	102
35	0.3	20	9	116
36	0.4	30	14	111

	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
9MBL-37	0.2	31	14	130
38	0.5	37	12	132
39	0.5	36	15	153
40	0.6	36	13	149
41	0.3	38	13	159

APPENDIX 4

LIST OF PERSONNEL

1.	Stan G. Clemmer 1705 Garden Avenue North Vancouver, B.C. V7P 3A6	Geologist
2.	Rick Gregory 2323 West 6th Avenue Vancouver, B.C	Geologist
3.	Rick Clark #414-1215 Pacific Avenue Vancouver, B.C.	Prospector
4.	Mary Louise Hill 347 Mercer Street Princeton, N.J. U.S.A.	Geologist
5.	Marcus Buck 28 Oakridge Boulevard Nepean Ontario K2G 2T5	Geological Assistant

APPENDIX 5

WRITER'S CERTIFICATE

I, Stan Clemmer, of North Vancouver, British Columbia, hereby certify that:

1. I am a geologist residing at 1705 Garden Avenue, North Vancouver, and I am employed by Getty Canadian Metals, Limited of Suite 604-750 West Pender Street, Vancouver, B.C.

2. I received a Bachelor of Science degree in geology from Carleton University in 1978.

3. I have practised my profession continuously since 1978.

4. I am author of this report which is based on field work conducted during a period from July 18, 1979 to October 3, 1979 (inclusive).

GETTY CANADIAN METALS, LIMITED

STAN CLEMMER, B. Sc.

April 1980

Vancouver, B.C.

C A N A D A)
)
TO WIT)

In the matter of a geological, geochemical and prospecting report on behalf of Getty Canadian Metals, Limited

I, S.G. Clemmer, Agent for Getty Canadian Metals, Limited of the city of Vancouver in the Province of British Columbia do solemnly declare,- reconnaissance geological mapping, geochemical silt and soil sampling and prospecting were conducted on the MARYLOU 1-96 mineral claims, Watson Lake Mining District, Y.T., during the period July 18, 1979 to October 3, 1979 to the value of at least $16,928.00.

Expenditures for this work include:

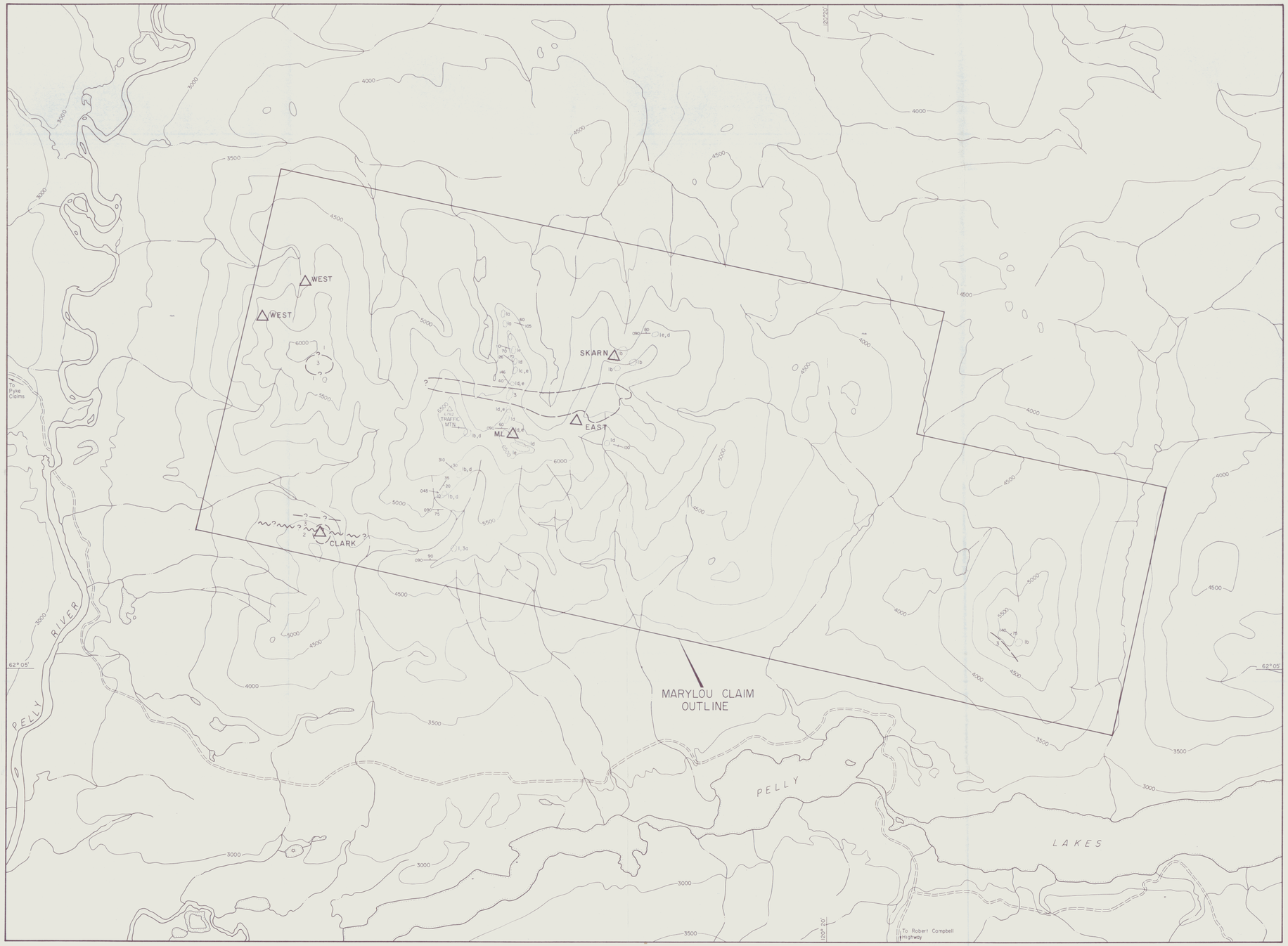
Helicopter	$11,736.18
Fixed-Wing Aircraft	158.00
Salaries and Wages	2,423.00
Food	252.12
Geochemical Analysis	2,730.48
	$17,299.78

And I make this solumn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared before me at Watson Lk)
in the Yukon this)
27 day of May 1980)

S.G. Clemmer

S. McLeod
A notary Public in and for the
Yukon Territory



LEGEND

CRETACEOUS

Unit 3 : QUARTZ MONZONITE
a) PORPHYRITIC QUARTZ MONZONITE

UPPER DEVONIAN & MISSISSIPPIAN

Unit 2 : DARK GREY PHYLLITIC SHALE

PROTEROZOIC

Unit 1 : a) CARBONATE
b) CALC-SILICATE
c) CHERT
d) HORNFELS PELITIC SEDIMENTS
e) QUARTZITE
f) CALCAREOUS SILTSTONE

STRIKE & DIP

GEOLOGICAL OUTCROP

GEOLOGICAL CONTACT, INFERRED, UNCERTAIN

FAULT

ML MINERAL SHOWING

SCALE 1: 25,000

m 500 0 500 1000 1500 m

Getty Mines, Limited

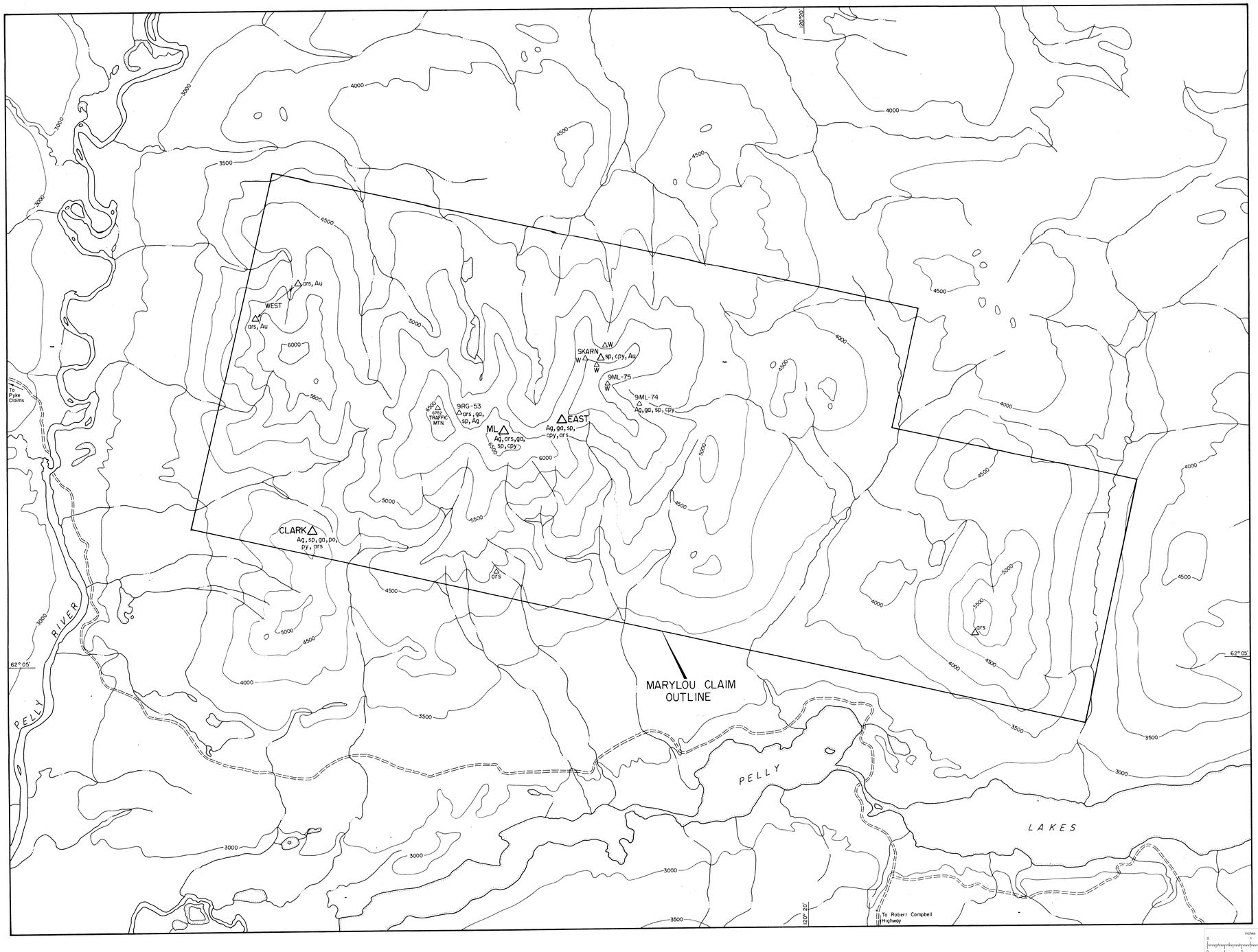
ANVIL RANGE PROJECT 1979

MARYLOU CLAIMS

TRAFFIC MTN.

GEOLOGICAL MAP

DRAWN BY : Altair	JOB No.	FIG. No.
CHECKED BY :	3114	4
DATE :		



LEGEND

- △ SHOWING
- △ OCCURRENCE
- △ FLOAT
- ars ARSENOPYRITE
- ga GALENA
- sp SPHALERITE
- cpy CHALCOPYRITE
- Ag SIGNIFICANT SILVER VALUES
- Au SIGNIFICANT GOLD VALUES
- W SCHEELITE

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

SCALE 1: 25,000

m 500 0 500 1000 1500 m

Getty Mines, Limited

ANVIL RANGE PROJECT 1979

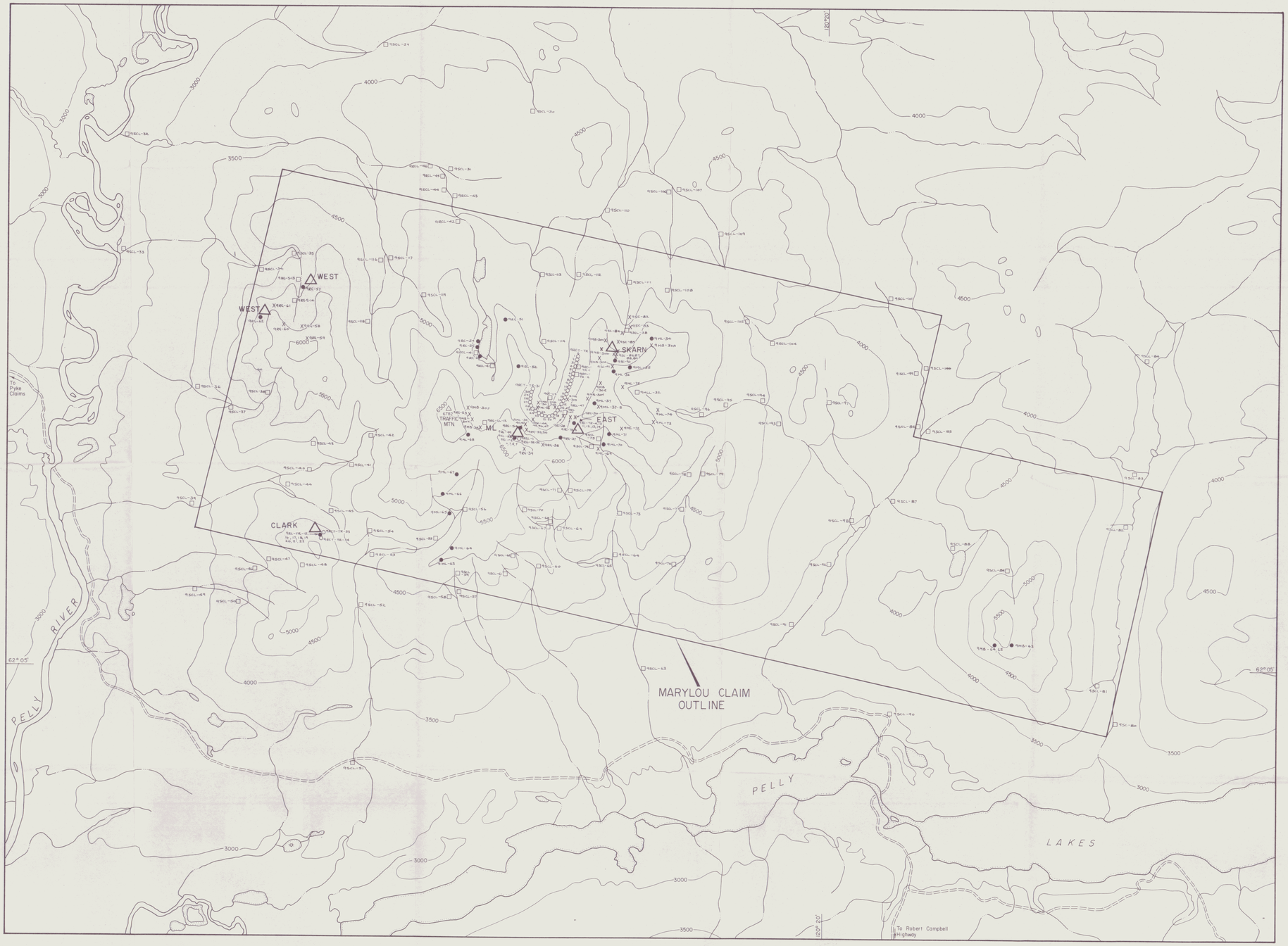
MARYLOU CLAIMS

TRAFFIC MTN.

SHOWING LOCATION MAP

DRAWN BY : Alfair	JOB No.	FIG. No.
CHECKED BY :	3114	5
DATE :		

090704



LEGEND

- ● OUTCROP AND/OR CHIP SAMPLE
- ○ SOIL SAMPLE
- □ SILT SAMPLE
- △ MINERAL SHOWING
- X FLOAT

NUMBERING SYSTEM

9 SCL -

1979 — sampler — Sample type

L - silt
S - soil
T - talus soil

SCALE 1:25,000

m 500 0 500 1000 1500 m

Getty Mines, Limited

ANVIL RANGE PROJECT 1979

MARYLOU CLAIMS

TRAFFIC MTN.

SAMPLE LOCATION MAP

DRAWN BY :	Altair	JOB No.	FIG. No.
CHECKED BY :		3114	6
DATE :			

LEGEND

- 116/2.95/342 □ SAMPLE SITE
- □ Cu / Pb / Zn RESULTS IN P.P.M.
- GENERAL OUTLINE OF INDICATED ANOMALOUS AREAS
- ANOMALOUS COPPER > 100 ppm
- ANOMALOUS LEAD > 55 ppm
- ANOMALOUS ZINC > 275 ppm
- ML △ MINERAL SHOWING

SCALE 1 : 25,000

m 500 0 500 1000 1500 m

Getty Mines, Limited

ANVIL RANGE PROJECT 1979

MARYLOU CLAIMS

TRAFFIC MTN.

STREAM SEDIMENT GEOCHEMISTRY
COPPER, LEAD, ZINC

DRAWN BY: Altair	JOB No.	FIG. No.
CHECKED BY:	3114	7
DATE:		

LEGEND

- SAMPLE SITE
- 15/10/4 Ag, Au, Mo (Ag & Mo IN P.P.M., Au IN P.P.B.)
- ANOMALOUS SILVER > 1.5 ppm
- ANOMALOUS GOLD > 15 ppb
- ANOMALOUS MOLYBDENUM > 10 ppm
- ML MINERAL SHOWING

SCALE 1: 25,000

m 500 0 500 1000 1500 m

Getty Mines, Limited

ANVIL RANGE PROJECT 1979

MARYLOU CLAIMS

TRAFFIC MTN.

STREAM SEDIMENT GEOCHEMISTRY
SILVER, GOLD, MOLYBDENUM

DRAWN BY: Altair	JOB No.	FIG. No.
CHECKED BY:	3114	8
DATE:		