

673801

VENTURES MINING LTD.
Examination of
The Reister Group
Smithers, B. C.

932/14

ALRAE ENGINEERING LTD.

September 9, 1970

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ALRAE ENGINEERING LTD.
VANCOUVER, B.C.
ENGINEERS & GEOLOGISTS

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INTRODUCTION

The Reisetser Creek property was examined on behalf of Ventures Mining Ltd., on August 21, 1970, by A.G. Ditto, F.J. Guardia and W. Ash, of Alrae Engineering Ltd., in the company of Mr. A. Mesich, vendor of the property.

The claim group, known as Reisetser 1-12, is located less than ten air miles north of Smithers, on Reisetser Creek, a westerly flowing tributary of the Bulkley River.

The showings consist of several narrow but continuous fissure veins locally mineralized with massive stibnite accompanied by minor quantities of other sulphides. The veins have been partially explored by bulldozer trenches from which 21 tons of ore have recently been cobbled and shipped to the smelter.

LOCATION, ACCESS AND TOPOGRAPHY

The Reisetser 1-12 claims are located at elevations between 1,600 feet and 3,200 feet, on the south bank of Reisetser Creek. The exact location of the claims is at 54°55'N latitude and 127°10'W longitude.

Access to the claims is by 14 miles of all-weather gravel road to Moricetown from Smithers, thence by two miles of unimproved bush road (negotiable by two-wheel drive vehicles in dry weather), for a total distance of some 16 miles. Railway facilities (CNR) exist in Smithers.

Gradients are moderate in the neighbourhood of the showings but steepen as Reisetser Creek is approached. Forest cover is of mixed deciduous and coniferous types. Depth of overburden is light but uniform. The average snowfall is 73 inches and the average mean night temperature for January is +7°F. Adequate supplies of timber

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and a few fresh water springs are located on the property but the springs are probably frozen in winter. An unlimited supply of water is obtainable from Reiseter Creek, some 800 feet below the main showings.

HISTORY

The claims were staked by Mr. Anthony Mesich in 1957 and work has been confined to bulldozer stripping and high grade pitting. The only exception is an inclined shaft which Mr. Mesich sunk on a narrow vein structure. The bulldozer work has uncovered several veins of considerable length. Twenty-one tons of hand-cobbed ore has been removed from the better exposed No. 1 vein and shipped to the Laredo, Texas smelter. Smelter returns are not yet available. Three other piles of cobbed ore have been stacked near the No. 1 and No. 2 veins.

No geophysical, geochemical or geological reports are known to exist on this property. However, two brief examination reports have been done; one by R.G. Jury, P. Eng., of Alrae Engineering Ltd. (June, 1964) and one by A.J. Macbeth (July, 1970).

PROPERTY

The property consists of 12 mineral claims which are believed to be held in good standing by Mr. Anthony Mesich, Box 759, Smithers, Omineca Mining Division.

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>RECORD DATE</u>	<u>EXPIRY DATE</u>
Reiseter # 1	64846	Nov. 12/68	Nov. 12/72
Reiseter # 2	64847	Nov. 12/68	Nov. 12/72
Reiseter # 3	13799	June 23/61	June 23/74
Reiseter # 4	13800	June 23/61	June 23/74
Reiseter # 5	11934	Oct. 28/57	Oct. 28/73
Reiseter # 6	11935	Oct. 28/57	Oct. 28/73
Reiseter # 7	12622	June 19/59	?
Reiseter # 8	12623	June 19/59	?

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Reiseter # 9	64848	Nov. 12/68	Nov. 12/72
Reiseter #10	64849	Nov. 12/68	Nov. 12/72
Reiseter #11	83582	Dec. 2/69	Dec. 2/70
Reiseter #12	83583	Dec. 2/69	Dec. 2/70

The ground adjoining the claims to the east and west of the claims is staked by ^{Anthony} Thomas Mesich and ~~Emil Mesich~~ but apparently the ground is open to the north and south of the claims.

GEOLOGY

The regional geology of the area is shown on G.S.C. map 971A (Smithers-Ft. St. James) and on B.C. Department of Mines map 69-1.

In the region of the showings argillite, quartzite, siltstone and tuffaceous greywacke with variable degrees of alteration and hornfelsing are intruded by granodiorite. The latter exists in stock-like form and as dykes and veinlets intruded into the host sediments.

The sedimentary country rocks are reported (G.S.C.) to be part of the Jurassic Hazelton Group, while the intrusive granodiorite belongs to the Upper Cretaceous to early Tertiary intrusives, with which many of the Smithers-Hazelton area mineral deposits are associated.

Seven northerly to northeasterly fissure veins, with dips between 30° - 80° to the east have been partially explored by bulldozer trenching. The veins vary from a narrow zone of minor shattering and bleaching of the country rock to massive sulphides emplaced in a well defined vein structure. Intermediate stages, whereby narrow stringers of sulphides occur with quartz within a brecciated zone are the more common occurrence. The principle sulphide occurring in the veins is stibnite. This is accompanied by minor amounts of pyrite, chalcopyrite, galena, tetrahedrite, and locally, arsenopyrite. In all

probability the mineralogy is considerably more complex and would require detailed study for full determination.

As no mapping was done during the present examination, the correct relative positions of the veins exposed in the trenches have not been determined. However, the overall dimensions of the mineralized area are 1,200 feet by 1,700 feet. Another vein structure containing antimony exists 2,000 feet northwest of the main showings.

The width and mineralization of the veins varies from narrow bleached fracture zones with sparse mineralization to over two and one-half feet with good sulphide content. The veins are strong along the strike length exposed and generally disappear under overburden.

The sketch map of R.G. Jury indicates a somewhat radial arrangement of the veins centered on an area some 1,600 feet northeast of the mineralized area.

During the examination it was noted that the ore shoots within the fissures appeared to be limited in extent, but frequent and rich. However, Mr. Mesich's property was set up for a high-grade operation rather than for promotional purposes. He therefore made no attempt to improve sections of the vein which did not instantly disclose high-grade vein material. Therefore, although the high-grade material was only noted to make up some 20 percent of the vein's length; this may be a conservative estimate.

ASSAYS

Eight samples were taken during the examination. The results are tabulated below. Seven of these were channel samples taken across the veins and one sample was taken as being representative of a pile of cobbled ore.

VEINS

No. 1 Vein

The No. 1 vein strikes at 45° azimuth, has a strike length of some 450 feet as exposed by bulldozer and disappeared beneath the overburden to the north. The dip varies from 25° to 55° but averages about 45°. The shipped ore previously mentioned came from the various pits dug along the strike of this vein. The stibnite was noted to be of generally fine-grained, compact nature occurring as banded stringers in hydrothermally altered and quartz impregnated zones and as a cement in brecciated zones. Local fracture zones in the hanging-wall were also seen to carry significant stibnite. Sparse pyrite seemed to be the only other sulphide present. A list of assay results for samples taken during the examination are shown below:

No. 1 Vein

Sample Number	Width	Location	Ag. oz/tn	Sb. %	As. %	Pb. %
18330	27"	Southern exposure	Tr.	1.84	0.75	0.02
18324	10"	80 ft. north of southern exposure	Tr.	1.34	1.50	0.01
18327	16"	280 ft. north of sample 18324	Tr.	6.00	0.69	0.04
18329	29"	25 ft. south of 18327	Tr.	0.36	2.50	0.05

Previous samples taken gave results as shown below:

Width	Sampled by	Year	Ag. oz/tn	Sb. %	As. %
8"	R. G. Jury	1964	0.2	23.42	.5
31"	R. G. Jury	1964	Tr.	4.38	-
28"	R. G. Jury	1964	0.2	n/a	-
12"	A.J. Macbeth	1970	0.2	3.9	-
18"	A.J. Macbeth	1970	0.1	2.1	-
27"	A.J. Macbeth	1970	0.1	2.8	-

No. 2 Vein

The uncovered vein strikes at 10° azimuth and has a strike length of over 350 feet with an average dip of approximately 45° to the east. This vein is partially mineralized with galena and sphalerite as well as stibnite. Assays indicate that silver to lead

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ratios vary from 7:1 to 50:1. Assays from this vein have been reported as follows:

#2 Vein

Sample Number	Wd.	Sampled by	Year	Location	Ag. Ag/ton	Sb. %	As. %	Pb. %	Zn. %
18326	-	F. Guardia	1970	from dump	17.8	0.46	1.37	2.5	
18328	27"	F. Guardia	1970	loc'n line	0.4	11.1	0.37	0.07	
9509	27"	A. Macbeth	1970	N end of trench	10.8	0.3			
9510	18"	A. Macbeth	1970	40' S of 9509	26.2	0.6			
9508	6"	A. Macbeth	1970	350' S of 9509	0.8	4.9			
1764	24"	A. Potter	1965	?	0.30	0.63			
1765	8"	A. Potter	1965	?	0.20	10.94			
1766	24"	A. Potter	1965	?	Tr.	11.20			
1767	9"	A. Potter	1965	?	Tr.	25.58			
1768	9"	A. Potter	1965	?	0.10	19.41			
Grab	-	Mesich	1969	Mineralized float from 100' below the vein	92.3	2.64		5.78	
49151	12"	R. Jury	1964)	50' apart	13.4	1.01		0.96	3.28
49152	36"	R. Jury	1964)		0.06	n/a			

No. 3 Vein

No. 3 vein strikes at 330° azimuth, dips 50°E and cuts into No. 2 vein at an angle of some 40°. The uncovered portion of this vein has a strike length of about 80 feet and cuts the granodiorite. It is believed to be a hangingwall offshoot of No. 2 vein. The vein material contains substantial amounts of arsenopyrite as well as stibnite. Because of its 'contaminated' state and probable short strike length it was not sampled during the investigation. A previous sample taken by R.G. Jury yielded 3.03% Sb across a true width of 12 inches but was not assayed for arsenic.

No. 4 Vein

No. 4 vein strikes 25° azimuth and dips at about 35°. It is uncovered in two places only, some 40 feet apart. The south side of the most northerly exposure was sampled by A.G. Ditto and yielded a trace in lead and silver, 12.0% Sb, 2.50% As across 16 inches. A.J. Macbeth sampled the vein ten feet north of this and it assayed 5.3% Sb and 0.2 oz Ag across 0.5 feet. (Red stain noted in fractures in massive stibnite from this vein may represent an antimonial oxysulfide, which is often found accompanying this type of mineralization.)

According to Mesich and Macbeth, a seven inch diameter piece of float found on the road some 100 feet below the south showing, was found to be well brecciated and mineralized with stibnite.

No. 5 Vein

This vein is actually only a fracture zone, oxidized on surface and containing pyrite. No stibnite has been reported from its 100 foot length.

No. 6 Vein

No. 6 vein strikes about 20° azimuth and dips from 34° to 66° east. It is a very strong showing, well mineralized with stibnite, and is uncovered for a length of 150 feet. Assays taken are as follows:

No. 6 Vein

<u>Sample Number</u>	<u>Width</u>	<u>Sampled by</u>	<u>Year</u>	<u>Location</u>	<u>Ag oz/ton</u>	<u>Sb %</u>	<u>As %</u>	<u>Pb %</u>
18325	30"	Ditto	1970	150' south of N end of trench	19.0	26.8	0.81	0.21
9505	26"	Macbeth	1970	150' south of N end of trench (both from same place?)	3.7	6.1		
9506	12"	Macbeth	1970	80' south of N end of trench	4.4	14.9		

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Float believed to have been found in the proximity of this vein (Jury worksheets) was assayed and yielded 55.8 oz Ag; 3.57% Pb; 14.02% Sb.

No. 7 Vein

No. 7 vein was sparsely mineralized with stibnite but was not sampled.

CONCLUSIONS AND RECOMMENDATIONS

Subparallel, moderately dipping fissure veins containing significant values for antimony and silver have been partially explored by surface trenching on the Reiseler claims. To date, seven distinct vein structures have been distinguished cutting hornfelsed Hazelton Group sedimentary rocks in close proximity to an intrusive granodiorite.

The No. 1 vein, or more westerly vein, has been extensively stripped over its exposed strike length of 450 feet and it was from this vein that the owner had recently shipped 21 tons of hand-cobbed ore. Consequently, it was this vein that received most attention during the present examination.

Assay results received indicate that the better grade mineralization found along the No. 1 vein in no way justifies the interest shown in this vein. However, results received for No. 2 vein, No. 4 vein and particularly No. 6 vein indicate that mineralization of considerable value does exist on the property and would appear to warrant further investigation. The emphasis has consequently been shifted from a potential mining bet to an exploration bet.

In order to assess the significance of some of the high assays obtained on the claims, it is recommended that the property be re-examined with a view to obtaining an option and doing any further

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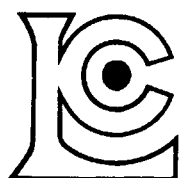
exploration work then considered as warranted.

It is recommended that a geologist and helper spend some two to three days on the claims to make a preliminary location and geological map by compass and tape traversing, to more closely sample and study the vein structures and to do preliminary traverses with the Ronka EM 17 unit to evaluate the feasibility of using this method to extend the veins beyond present exposures, and possibly to locate new veins on the property, as well as to outline the zone of better mineralization within the vein structure.

Costs of re-examination and a report based on the new data is estimated to be in the order of \$1,700.00.

Respectfully submitted:

Francois Guardia
F. Guardia.



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985-0648

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12704

TO: Bacon & Crowhurst
Ste. 1720 - 1055 W. Hastings St.,
Vancouver, 1, B. C.

INVOICE NO. 4486

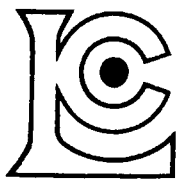
DATE RECEIVED November 6/70

DATE ANALYSED November 13/70

ATTN: Mr. Mike Cowan

SAMPLE NO.:	PPM	PPM	
	Arsenic	Antimony	
50 NW	90 ✓	64 ✓	<i>RESETTER CREEK ANTIMONY PROSPECT</i>
100 NW	83 ✓	10 ✓	
150 NW	90 ✓	16 ✓	
50 NW/B	400 ✓	14 ✓	
100 NW/B	80 ✓	10 ✓	
150 NW/B	60 ✓	10 ✓	
0100 50 SE	300 ✓	180 ✓	
50 100 SE	500 ✓	22 ✓	
100 150 SE	88 ✓	10 ✓	
0100 50 SE/B	200 ✓	10 ✓	
50 100 SE/B	250 ✓	10 ✓	
100 150 SE/B	175 ✓	12 ✓	
Std., #23	20		

Certified by *Paul Buhler*



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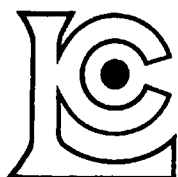
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100 NW/B	80	10
150 NW/B	60	10
0100 50 SE	300	180
50 100 SE	500	22
100 150 SE	88	10
0100 50 SE/B	200	10
50 100 SE/B	250	10
100 150 SE/B	175	12
Std., #23	20	

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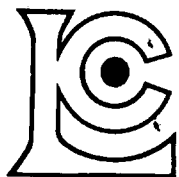
CERTIFICATE NO. 12706
INVOICE NO. 4491
DATE RECEIVED Nov. 6/70
DATE ANALYSED Nov. 13/70

TO: Bacon & Crowhurst
#1720 - 1055 W. Hastings St.,
Vancouver. I. B. C.

ATTN:

SAMPLE NO.:	% Copper	% Antimony	Oz/Ton Silver	
41152	0.13 ✓		0.03 ✓	} REISETER CREEK ANTIMONY PROSPECT
41153		13.15 ✓	7.64 ✓	
41154		1.93 ✓	0.70 ✓	
41155		14.50 ✓	0.20 ✓	
41156		13.40 ✓	0.18 ✓	
41157		24.90 ✓	0.79 ✓	
41158		0.68 ✓	0.06 ✓	
41159		1.37 ✓	0.01 ✓	

Certified by Hart Biddle



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CERTIFICATE OF ANALYSIS

TO: Bacon & Crowhurst
#1720 - 1055 W. Hastings St.,
Vancouver. 1. B. C.

CERTIFICATE NO. 12706
INVOICE NO. 4491
DATE RECEIVED Nov. 6/70
DATE ANALYSED Nov. 13/70

ATTN:

SAMPLE NO.:	% Copper	% Antimony	Oz/Ton Silver
41152	0.13		0.03
41153		13.15	7.64
41154		1.93	0.70
41155		14.50	0.20
41156		13.40	0.18
41157		24.90	0.79
41158		0.68	0.06
41159		1.37	0.01

Certified by Harbiller

TO: N. S. EDGAR
FROM: A. J. MACBETH
DATE: JULY 24, 1970

RE: ANTIMONY-SILVER PROSPECT
REISETER CREEK, NEAR SMITHERS, B.C.
ANTHONY MESICH - OWNER

On July 17 and 18, 1970 I visited this prospect located on Reisetter Creek Group of 12 claims, 15 miles north of Smithers, B.C., two miles by 4 x 4 trail east of the Moricetown (Telkwa Hi-) Road - along the south side of Reisetter Creek, alt. about 2800.

Owner - Anthony Mesich, Box 759, Smithers, B.C.
(Phone father - Mike) 603-847-2320.

These 12 claims are in an area of "Hornfels" (which may be recooked sediments or volcanics) with intrusive granodiorite, chief mineral is stibnite.

Mesich has recently shipped a carload of hand cobbled ore from No. 1 vein to National Leads Texas Mining & Smelting Div. at Laredo, Texas, and is awaiting smelter returns.

The property has been opened up to a certain extent by bulldozer trenching and some small drilled and blasted pits. (See sketch) There are seven known fractures, 4 of which strike N45 degrees E, and dip 50 degrees E, the others differ slightly in dip and strike, but all could belong to the same fracture pattern. To the north of the large intrusive, there are copper traces and in the center of the area, Mo occurs as thin platting in fractures.

VEIN NO. 1 is the strongest looking and the best mineralized strike N45 degrees E, dip 50 degrees E, length 470' and disappears under the overburden to the north. Four chip samples, numbers 9512 through 9515, were taken, plus one hard sample 9516. The chip samples are being assayed for Sb. and Ag. The vein is a system of fractures from 1.0' to 2.5' wide; consists of 1 to 3 stibnite seams up to 1" thick, some gouge or mud seams, minor qtz, some brecciation, very minor galena and sphalerite, some pale alteration and pyrite mineralization of the wall rocks.

VEIN NO. 2 is exposed for 350' strike N 45 degrees E dip 50 degrees E. Three chip samples, 9508, 9509 and 9510 were taken, and are being assayed for Sb., Ag., and Cu. At 350'N the vein enters an intrusive granodiorite and becomes tight and barren. No. 2 vein varies from 0.5' to 2.4' wide. Mineralization is stibnite, galena, sphalerite, tetrahedrite (?), arsenopyrite (?), minor qtz., minor gouge, some breccia, alt. of wall rock and pyrite in the wall rock.

VEIN NO. 3 is probably a hanging wall fracture off the southern continuation of vein no. 2 strike N 10 degrees E, dip 40 degrees E is opened up for 40', shows a small pod of ore about 10' long and 1.0' wide at the widest part Sb., Pb., Zn., Cu. Hand specimen 9511.

VEIN NO. 4 is exposed at two points about 40' apart strikes N 25 degrees E, dips 30 degrees E is 0.5' wide, and nicely mineralized sample 9507 Sb., Ag. Float on road 100' downhill from No. 4 vein, about 7" diam. shows good Sb. and breccia.

VEIN NO. 5 strike 0 degrees dip 50 degrees E, a rusty fracture showing very little min. No samples.

VEIN NO. 6 N 45 degrees E, dip 50 degrees E, 250' long, width 1.0' to 2.2' samples 9505, 9506, Sb., Ag., length 150'.

VEIN NO. 7 Strike N 45 degrees E dip 50 degrees E, length 150', shows strong alteration of wall rock, but only spotty mineralization. Not sampled.

CREST LABORATORIES LTD.

7911 ARGYLL ROAD
EDMONTON 82, ALBERTA
PHONE 469-2391

CREST LABORATORIES (B.C.) LTD.
1068 HOMER STREET
VANCOUVER 3, B.C.
PHONE 688-8506

CERTIFICATE OF ASSAY

TO Northwest Explorers (1967) Ltd.

Lab No. 903

Suite 410 - 10355 Jasper Avenue,

July 27, 1970.

Edmonton, Alberta. Attention: Mr. N.S. Edgar.

I hereby certify THAT THE FOLLOWING ARE THE RESULTS OF ASSAYS MADE BY US UPON THE HEREIN DESCRIBED SAMPLES.

MARKED	GOLD		SILVER	COPPER	ANTIMONY						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
#6 { 9503			3.7	----	6.1						
9506			4.4	----	14.9						
#4 - 9507			0.2	----	5.3						
#2 { 9508			0.8	0.08	4.9						
9509			10.8	0.18	0.3						
9510			26.2	0.18	0.6						
#1 vein { 9512			0.2	----	2.1						
9513			0.2	----	3.9						
9514			0.1	----	2.1						
9515			0.1	----	2.8						

wilks ?

NOTE:

Rejects retained one month.
Pulps retained three months
unless otherwise arranged.

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

[Signature]
.....
Registered Assayer, Province of British Columbia

ADDITIONAL SAMPLING DATA

REISETER CREEK ANTIMONY

Silver Standard Mines
 Sampled by Al Potter
 Believed to be No. 2 Vein

28 July 1965

This is No. 1 vein
~~2.711~~



No.	Width	Ozs. Au.	Ozs. Ag.	c/o Sb.	c/o Zn.
1764	24"	0.01	0.30	0.63	-
1765	8"	Tr.	0.20	10.94	-
1766	24"	Tr.	Tr.	11.20	-
1767	9"	Tr.	Tr.	25.58	0.23
1768	9"	Tr.	0.10	19.41	-

= 11.67% Sb
average width = 24"
Length = 100' to 120'
As. not accounted for.

6 June 1969 selected sample (Mesich) grab
 No. 2 Vein

0.02 (92.3) 2.64 2.29

c/oPb c/o Cu.
 5.78 0.32



PHONE (604) 876-4111
 TELEX 0450353
 CABLE ADDRESS
 ELDRICO

Mr. A. Mesich

P.O. Box 759

Smithers, B.C.

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

FILE NO. **A.3-M.1-69-6100**

DATE **June 6, 1969**

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES

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

SAMPLE IDENTIFICATION	Al	Sb	Ba	Bi	Bi	B	Cd	Ca	Cr	Co	Cu	Ga	Au	Fe	
72751	6.0	*	ND	0.2	ND	ND	0.001	<u>0.01</u>	5.0	0.01	ND	0.7	ND	<u>Trace</u>	5.0

?

SAMPLE IDENTIFICATION	Mg	Mn	Mo	Nb	Ni	Si	Ag	Sn	Tl	Sr	Ta	W	V	Zn
	*	1.5	0.3	0.003	ND	0.001	Matrix	0.3	0.03	ND	ND	0.5	ND	0.005 *

Note: Results obtained on **PERCENT BY WEIGHT**
 Pulps retained one month.

COAST ELDRIDGE PROFESSIONAL SERVICES DIVISION

S.K. [Signature]

REMIT



PHONE (604) 876-4111
 TELEX 0950353
 CABLE ADDRESS
 ELDRICO

TO: Mr. A. Hoelch

P.O. Box 759

Smithers, B.C.

Select from No 2 Vein system

i.e. Grab sample

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-M.1-69-6100

DATE June 6, 1969

We Herby Certify that the following are the results of assays made by us upon submitted one samples

MARKED	GOLD		SILVER	Antimony	Lead (Pb)	Zinc (Zn)	Copper (Cu)	PER CENT	PER CENT
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	(Sb) CENT.	PER CENT	CENT	CENT		
1	0.02	0.70	92.3	2.64	5.78	2.29	0.82		

Gold calculated at \$ per ounce

1/3P

Note: Rejects retained one week
 Pulps retained one month.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

H. Stanger

Provincial Assayer

**TEXAS MINING AND SMELTING DIVISION
OF NATIONAL LEAD COMPANY**
P. O. Box 559
LAREDO, TEXAS

No. Mesich 8-1

ORE SETTLEMENT SHEET

Mix Reference Bed 685 Date August 31, 1970

Shipper Anthony Mesich - British Columbia

<u>Lot Number</u>	<u>Car</u> <u>Initials Number</u>	<u>Ex-car</u> <u>Initials Number</u>	<u>Type of Ore</u>	<u>Date Received</u>
OS-AM-70-1	CN 162541		Mixed	8-3-70

WEIGHTS

PRICE

Gross Wgt. _____ Kgs.	30 % Ore Pays per Short Ton. Unit	\$ 12.00
Gross Wgt. _____ Lbs.	Plus Assay Adjustment 2.4 % at \$.40	.96
Tare (Actual) _____ Lbs.	_____ at _____	
(Marked) _____ Lbs.	Total Price per Short Ton Unit	\$ 12.96
Net Weight <u>43,225</u> Lbs.	<u>694.65</u> Short Ton Units Sb. at above price	\$ 9,002.66
Moisture <u>0.8</u> %	Add or Deduct _____	
Dry Weight <u>42,879</u> Lbs.		

VALUE

ANALYSIS

Gross Liquidation

	<u>Assay %</u>	<u>Contents Lbs.</u>
Sb	32.4	13,893
As		
Pb		
SiO2		
CaCO3		
Fe2O3		
S	11.3	
Al2O3		
Other		

DEDUCTIONS:

Advances	Documentation			
<u>Collected</u>	<u>U. S. Customs</u>	<u>R H & D</u>	<u>Freight</u>	
\$ _____	\$ _____	\$ 7.50	\$ 2,370.00	\$ 2,377.50
				6,625.16
				\$ 9,002.66

NET SETTLEMENT

Made By mb
Checked By [Signature]

**TEXAS MINING AND SMELTING DIVISION
OF NATIONAL LEAD COMPANY**

By [Signature]

REISETER CR

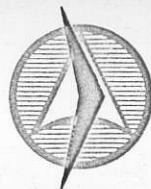
To:

MESICH PROPERTY

Silver Standard Mines Ltd.

808 - 602 West Hastings Street

Vancouver, B. C.



Certificate of Assay
COAST ELDRIDGE
 ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE. VANCOUVER 10, CANADA



PHONE: 876-4111

CABLE ADDRESS "ELDRICO"

FILE NO. A.3-S.5-64 14042

DATE October 5, 1964

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

MARKED	GOLD		SILVER	PER CENT.	Lead (Pb)	Zinc (Zn)	Copper (Cu)	Antimony (Sb)	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON		PER CENT.	PER CENT.	PER CENT.	PER CENT.	
7-1338 LARGE PCS FLOAT	Trace	\$	0.4		0.05			8.94	
"-1339 SMALL PILE FLOAT	0.10	3.50	97.2		22.95			8.06	
2-1341 - 12"	0.01	0.35	5.6		0.66	1.39		0.90	
1-1342 - 8" - PICKED.	Trace		Trace		Trace		Trace	49.90	
2-1344 - 5'4"	0.01	0.35	0.3		0.05			0.90	
1-1345 - 30" -	Trace		Trace		Trace			4.62	
12" VEIN PLUS MIN'0 FRACTURES IN FOOT & HANGING WALLS.	NOT WELL EXPOSED VEIN - ZONE COULD BE WIDER.								

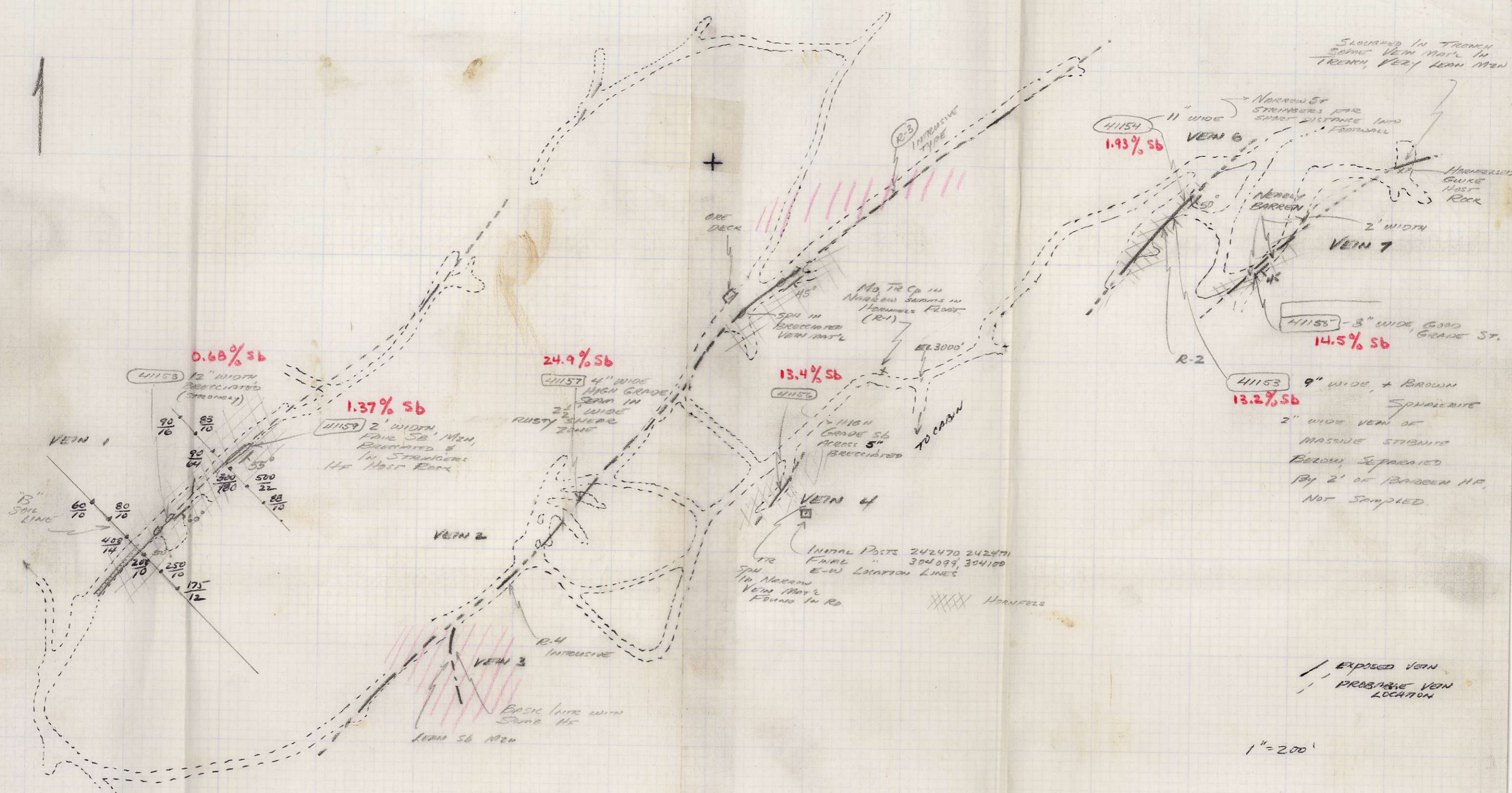
Gold calculated at \$.....per ounce

Note. Rejects retained one week.
 Pulps retained one month.
 Pulps and rejects may be stored for a maximum of
 one year by special arrangement.

Unless it is specifically stated otherwise, gold and
 silver values reported on these sheets have not been
 adjusted to compensate for losses and gains inher-
 ent in the fire assay process.

H. Shaffer

Provincial Assayer



NATIONAL LEAD COMPANY

TEXAS MINING & SMELTING DIVISION

P. O. BOX 559

LAREDO, TEXAS 78040

J. C. ARCHIBALD Jr.
Manager

PHONE
512 722-2486

December 2, 1969

Air Mail

Mr. Anthony Mesich
P. O. Box 759
Smithers, British Columbia

Dear Mr. Mesich:

The samples that you sent us
ran as follows:

%

48.7	Sb.
17.0	S
.096	As
.023	Pb

Yours sincerely,

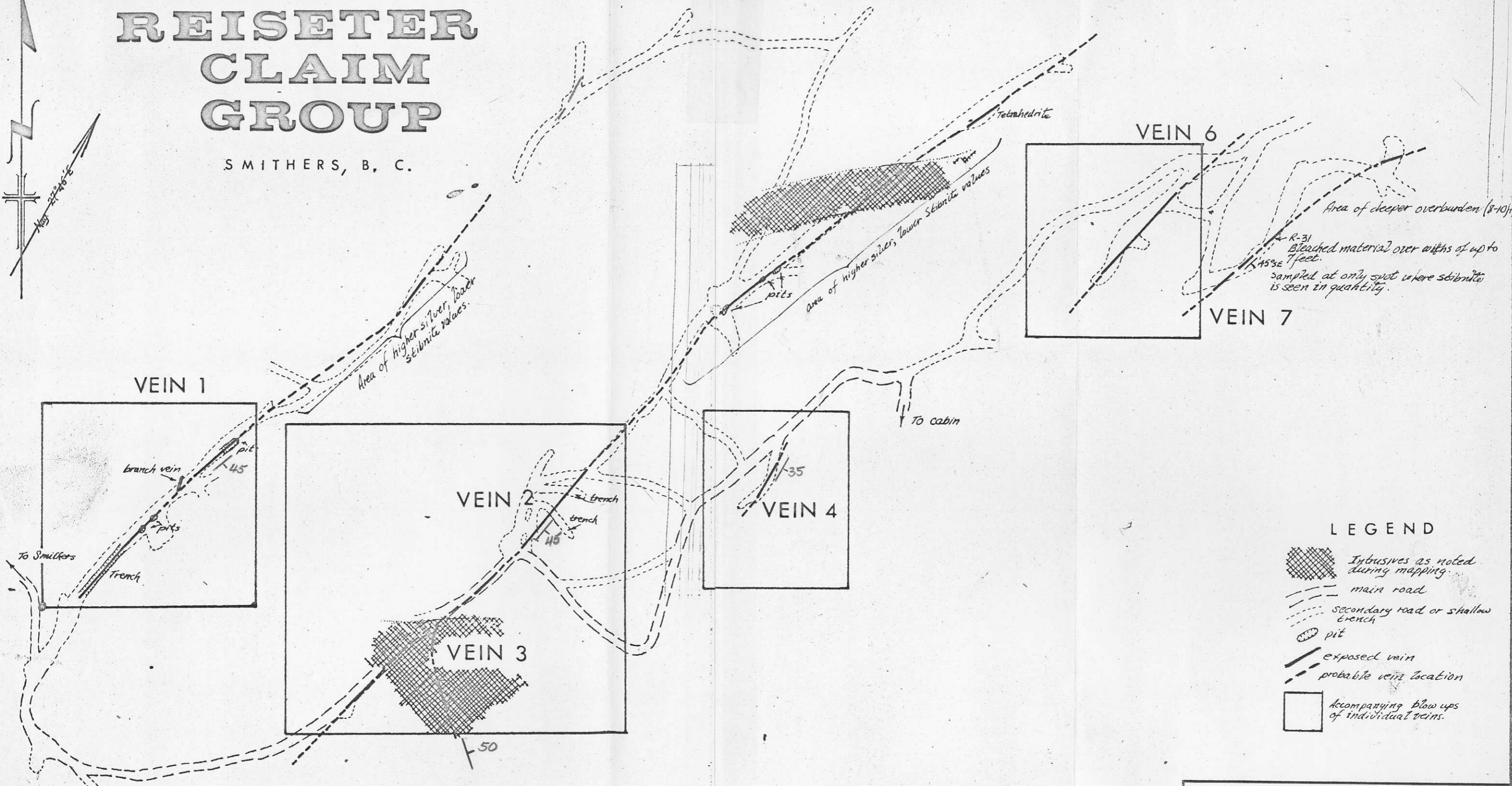
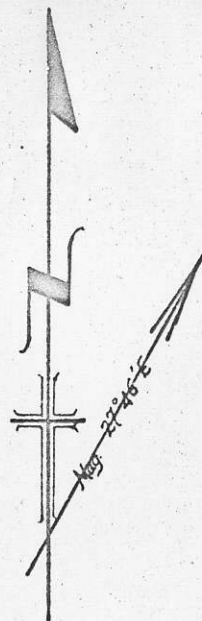
Angelica Cortez

(Miss) Angelica Cortez, Secretary
to Mr. Archibald

ac

REISETER CLAIM GROUP

SMITHERS, B. C.



Area of deeper overburden (8-10) feet.
 R-31 Bleached material over widths of up to 75 feet.
 sampled at only spot where stibnite is seen in quantity.

LEGEND

- Intrusives as noted during mapping.
- main road
- secondary road or shallow trench
- pit
- exposed vein
- probable vein location
- accompanying blow ups of individual veins.

ALRAE ENGINEERING LTD.	
<small>CONSULTING ENGINEERS & GEOLOGISTS, VANCOUVER, CANADA</small>	
VENTURES MINING LTD.	
SCALE: 1" = 200'	DESIGNED: W.A.
DATE: Sept. 15/70	DRAWN: W.A.
REVISED:	CHECKED:
	MAP NO:

001 + 005

Maps

001

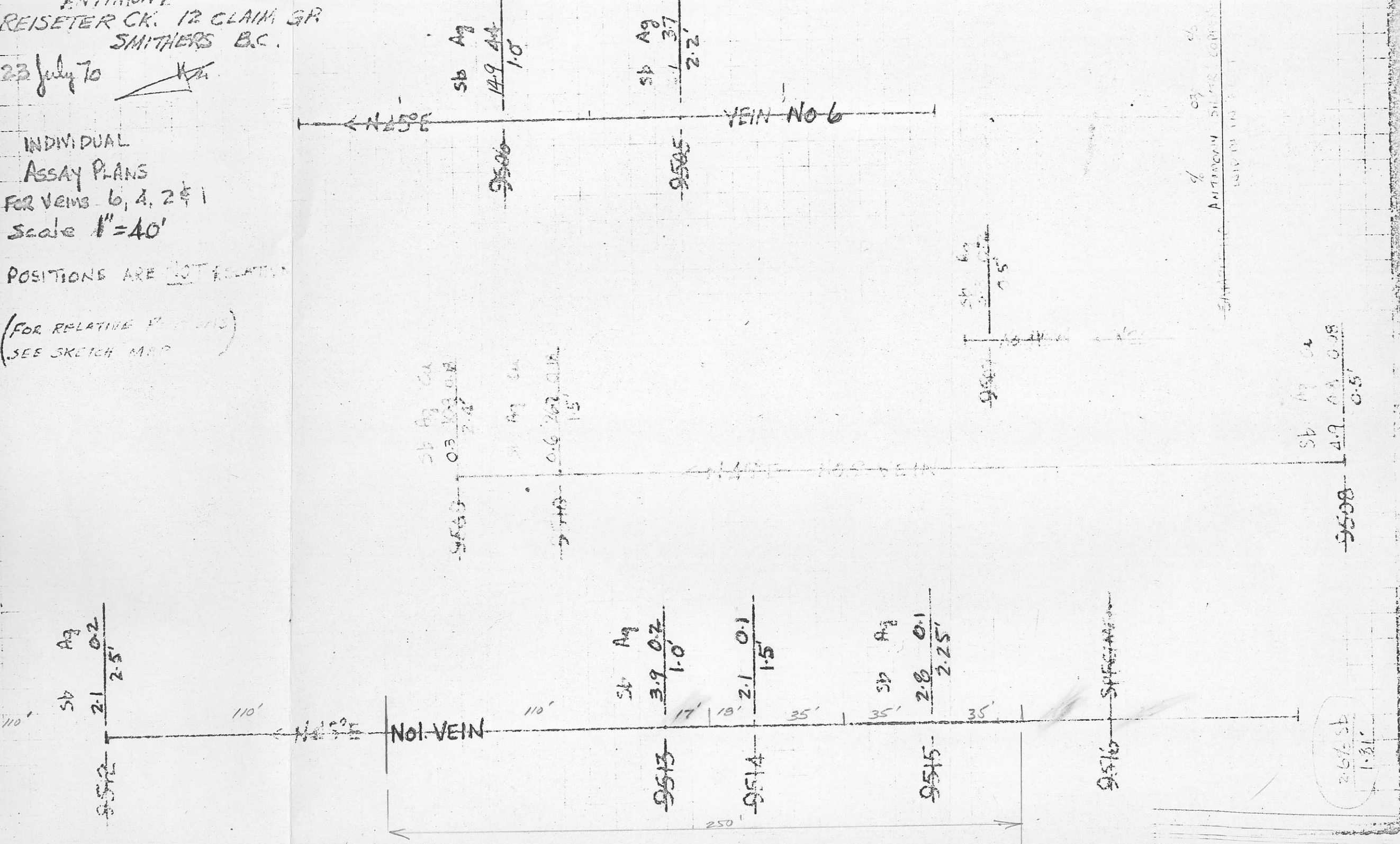
REISETER CK. 12 CLAIM GR.
SMITHERS B.C.

23 July 70

INDIVIDUAL
ASSAY PLANS
FOR VEINS 6, 4, 2 & 1
Scale 1" = 40'

POSITIONS ARE NOT RELATIVE

(FOR RELATIVE PLACEMENTS)
(SEE SKETCH MAP)



SMITHERS
ANTIMONY SILVER COPPER
LABORATORY

2.6% sb
1.31

9511 C 1'

STAKED
SHOULD BE

12 CLAIM
"REISETER GROUP"

Nos. SHOWN ON
CLAIMS ARE
"NOS OF RECORD"

NOT CLAIM TAG
Nos.

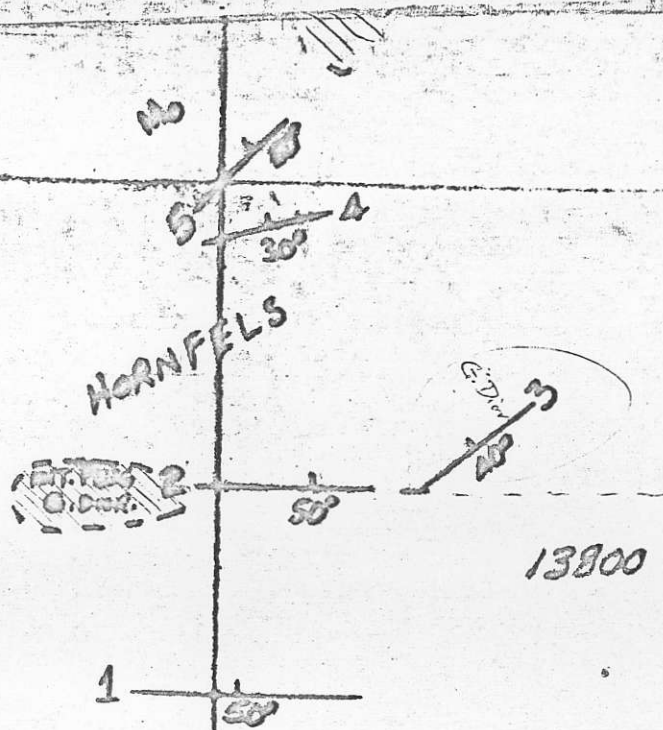
ALT. (CENTRAL) 2800

13799

13800

64846

60847



VEIN No 2 Pb Zn Cu
 9508 SW end 6"
 9509 250' NE 2-4'
 9510 40' SW 1-5'
 from 9509 200' NE
 VEIN ENTERS
 GRANODIORITE &
 BECOMES VERY
 TIGHT. NO MIN.

83582

VEIN No 1 Pb
 9512 NE end 30°
 9513 220' SW 1'-
 9514 35' SW 1-5
 9515 70' SW 2-25'
 9516 70' SW GRAB

REISETER CREEK

W.P.V.
 27 July 70
 02 K705 Q2

SCALE 1" = 40'
 ANTHONY M. OSSEN
 SMITHSONIAN B.C.
 COUNTRY ROCK IS
 AN ALKALINE SED. (F)
 WITH CLAUDEANITE
 PLUGS INTRUDING.
 "VEINS" ARE FRACT.
 SYSTEMS CONTAINING
 MINOR QTZ, MUD
 SEAMS UP TO 1", &
 ARE USUALLY MIN.
 WITH MASS. STKS.
 OF SULPHS. UP TO
 1" OR MORE THICK.

12622

12623

64849

11934

NOIRFELS

11935

VEIN NO 7 VL
 GOOD ALT. No N

VEIN NO 6 S
 9505 10' NS 2
 9506 10' NS 1

VEIN NO 5 M
 ASHGT RUSTY
 FRACT.

VEIN NO 4 SB
 9507 6" 6"

10/19/88



TASEKO - PHONE CALL FROM
W.H.H.S.T. OCT 26/70

Sb property, 15 MILES FROM SMITHERS
2500', NO SNOW

12 CLAIMS, HELD CONTINUOUSLY SINCE 1957

STIBNITE - 30% Sb_2S_3 ACROSS 2'-4'
30% (Sb?)

84 TONS FROM OPEN CUT VEIN - \$9500 SHIPPED TO TEXAS
- TETRAHEDRITE & GALENA @ ONE END OF VEIN

- 7 PARALLEL VEINS IN MAIN SHEAR ZONE,
(INTRUSIVE PLUGS IN VICINITY
) IN SEDIMENTS (?)

ANTIMONY - \$150/lb.

$$34 \times \overset{1000}{5000} \times \frac{3}{2} = 72,000$$

13.2% Sb

#1 Vein - Assays.

Chip Samples

220'

By M.F. Cowan

WIDTH	INTERVAL	ASSAY	WIDTH X INTERVAL	WIDTH X INTERVAL X ASSAY
1'	220'	0.68	220	150
<u>2'</u>	220'	1.37	<u>440</u>	<u>600</u>
1.5' - Avg width			660	750

$$\text{Avg assay} = \frac{750}{660} = 1.14\% \text{ Sb}$$

$$\frac{1.5}{2} (1.14) = 0.43\% \text{ Sb}$$

86

SAMPLING BY SILVER STANDARD

1 VEIN

Sb.

minimum stopping width

ASSAY	WIDTH (INCHES)	WIDTH (FEET)	ASSAY x WIDTH	
10.94	8"	.67	5.35	7.32
11.00	24"	2.0	48.00	22.40
95.58	9"	.75	6.75	19.20
19.41	9"	.75	6.75	<u>14.60</u>
		<u>4.17</u>	<u>66.85</u>	<u>63.52</u>
		1.04		

AVERAGE ASSAY = $\frac{\sum (ASSAY \times WIDTH)}{\sum WIDTH}$

= $\frac{66.85}{4.17} = 16\%$

$\frac{63.52}{16} = 3.97\%$
avg grade / 4'

$\frac{63.52}{4.17} = 15.2\%$ / 1.04

15.2

4%

100' LENGTH

~ 4% OVER 4' WIDTH. ASSUMING

EQUAL SAMPLE

80# / ton

80# / ton

INTERVALS ALONG VEIN

\$40 / TON @

\$1000 / 16 Sb

4% ANTIMONY

Avg Grade = $\frac{\sum (width \times interval \times assay)}{\sum (width \times interval)}$

$\sum (width \times interval)$

Avg width = $\frac{\sum (width \times interval)}{\sum (interval)}$

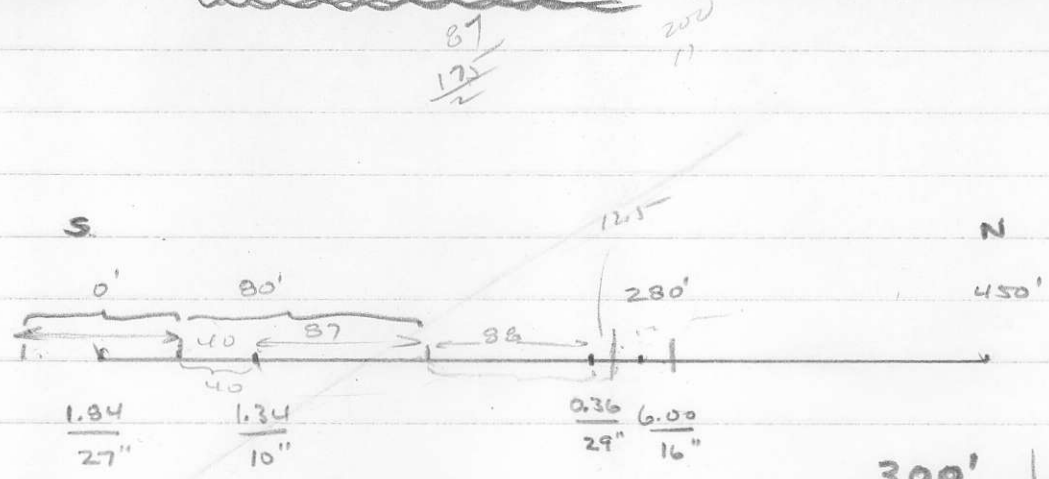
$\sum (interval)$

Bin = 0.2 ppm

Sb = 0.2 ppm

54' 57"
126' 09"

No. 1 Venn - From Areas Report.



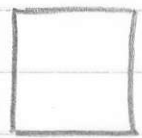
300' LENGTH
4' MINING WIDTH.

Width	Interval	Assay	Width x Interval	Width x Interval x Assay
27"	80'	1.34	184	339
10"	127'	1.34	106	142
29"	100.5'	0.36	203	75
16"	25'	6.00	33.3	199
			<u>531.3</u>	<u>755</u>

Avg width = 1.624'

Avg assay = $\frac{755}{531.3} = 1.42\%$ Sb

Avg assay over 4' = $\frac{1.62}{4} (1.42) = .5\%$



$\frac{.5\%}{100\%} \cdot \frac{3000\%}{1\text{ ton}} \cdot \frac{\#100}{1\%} = \#10/\text{TON}$

1 VEIN

INFORMATION FROM "INDIVIDUAL Assay Plans"

WIDTH	INTERVAL	% Sb Assay	WIDTH x INTERVAL	WIDTH x INTERVAL x ASSAY
2.5'	210'	2.1	525	1100
1.0'	127'	3.9	127	495
1.5'	53'	2.1	79.5	167
<u>2.25</u>	<u>70'</u>	<u>2.8</u>	<u>157</u>	<u>456</u>
7.35			888.5	2218

$$\frac{7.35}{4} = 1.84'$$

$$\text{AVG Assay} = \frac{2218}{888.5} = 2.5\%$$

$$\text{Avg Assay over 4'} = \frac{1.84}{4} (2.5) = 1.25\%$$

$$1.25\% \text{ OVER } 470' \\ \text{\$ 25 / TON} \quad \text{\$ 25 / TON} \quad @ \quad \text{\$ 1.00 / lb}$$

[Faint background text and diagrams, including a large bracketed area and various handwritten notes.]

[Faint text: "Information from Individual Assay Plans"]

[Faint text: "Width x Interval x Assay"]

[Faint text: "2.5' 210' 2.1 525 1100"]

[Faint text: "1.0' 127' 3.9 127 495"]

[Faint text: "1.5' 53' 2.1 79.5 167"]

[Faint text: "2.25 70' 2.8 157 456"]

[Faint text: "7.35 888.5 2218"]

[Faint text: "AVG Assay = 2.5%"]

[Faint text: "Avg Assay over 4' = 1.25%"]

[Faint text: "1.25% OVER 470'"]

[Faint text: "\$ 25 / TON @ \$ 1.00 / lb"]

80% recovery

1.25%

1.25 lb. 2000 lb 25 lb
100 lb 1 TON TON

	# 41152 -	.13% Cu ✓
MOFFAT CREEK	53 -	13.2% Sb.
(HORSESHOE SHOULDER)	54	1.93% Sb
	55	14.5% Sb
	56	13.4% Sb.
	57	24.9% Sb.
	58	.68% Sb
	59	1.37% Sb

WATER SAMPLE NO. 23 pp 6
 Uranium Nitrate
 Pellet free
 Fluorimeter -
 (Colorimeter - U_3O_8)
 < .01%

[Boundary Ft. St. James]

1125 / 24 mm

AS THURSDAY AFTER COLORIMETER

AA

STEEL PLATE - {Mn} HARDENED
 {Cr}

STEEL \$ 30 / SET

CERAMIC \$ 170 / SET

VEIN LENGTHS	#	
	# 1	1000'
	# 2	1200'
	# 6	400'
	# 7	500'

NOTES

- ① CANNOT ESTIMATE RESERVES - ONLY WITH SYSTEMATIC SAMPLING (E.G. - EVERY 10' ALONG VEIN STRUCTURE)
- ② INTERESTING MINERALOGY
 - ① STIBNITE
 - ② PYRITE
 - ③ CHALCOPYRITE
 - ④ PYRRHOTITE
 - ⑤ SPHALERITE
 - ⑥ GALENA
 - ⑦ BOURNONITE (?) $2PbS \cdot Cu_2S \cdot Sb_2S_3$
 - ⑧ TETRAHEDRITE
 - ⑨ ARSENOPIRYRITE
 - ⑩ MOLYBDENITE
- ③ BISMUTH - ND ON SEMI-QUANT. SPEC ANALYSIS

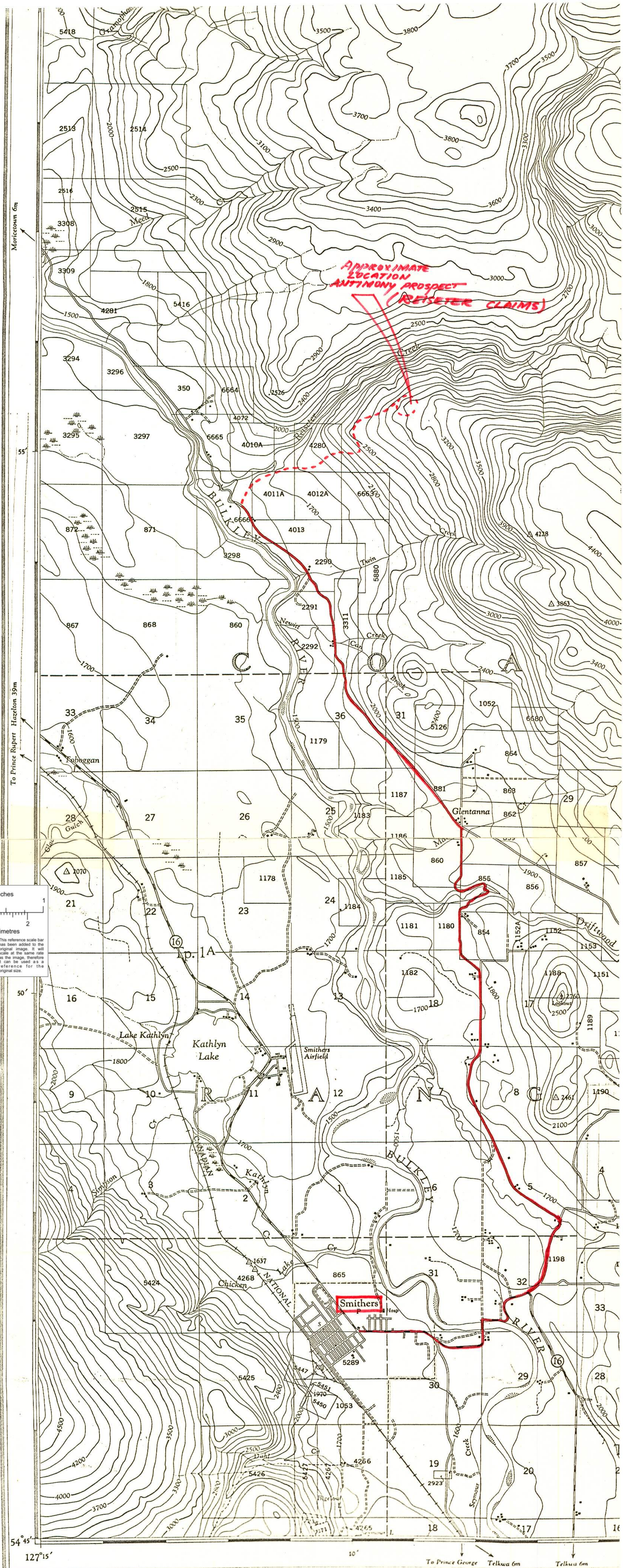
POSITIVE FACTORS

- ① ACCESS
- ② COMPLEX MINERALOGY
- ③ ALTERATION
- ④ PROXIMITY TO INTRUSIVE
- ⑤ CONTINUITY OF VEINS

NEGATIVE

- ① Volatility of Antimony Price ↑ control by
CHINESE
- ② ORE SHOOTS WITHIN FISSURES PROBABLY LIMITED IN EXTENT
- ③ POSSIBLY FRACTURED HANGING WALL

A REASONABLE POSSIBILITY OF SMALL, PROFITABLE OPERATION



Surveyed and compiled by the Surveys and Mapping Branch,
 Department of Lands and Forest, British Columbia, 1950.
 Cartography and reproduction by the Army Survey Establishment, RCE
 Department of National Defence, 1955.

FIGURE 31

SMITHERS
 BRITISH COLUMBIA

93L/14
 EAST HALF

Scale 1:50,000
 1.25 inches to 1 Mile approximately