

'80-#970-#8825

REPORT ON  
BONANZA #3, NEW PHOENIX FR., GOLD VIKING,  
SPRINGER #1&2, PORT HOPE FR., AND VIKING FR.

MINERAL CLAIMS

SLOCAN MINING DIVISION, B.C.

82F/14W

49°47'33" North Latitude

and

117°26'45" West Longitude

FOR

AMERGAS RESOURCES LTD.

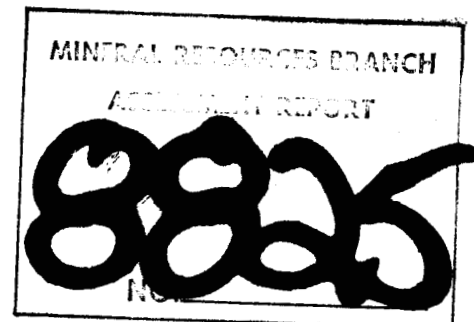
705 - 850 WEST HASTINGS STREET

VANCOUVER, B.C.

BY

G.C. SINGHAI, M.Tech., P.Eng.

DECEMBER 17, 1980



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1. Location Map.
2. Claim Map with Location of Samples.
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SUMMARY

The eighteen mineral claims are acquired by the Amergas Resources Ltd. and are located about 3.2 air kilometres northeast of Slocan Mining Division of British Columbia. Four of these mineral claims are Crown Granted mineral claims reverted to the Crown, and remaining 14 claims are Located. The history of the mining property dates back to early 1900, and some high grade gold and silver ore was shipped to Trail smelter during 1933-1935 by mining Gold Viking vein. This shipment of 3 tons of ore carried 5.00 oz. of Gold and 41.00 oz. of Silver.

The area is underlain by granodioritic Nelson Batholith of Cretaceous age and formations of Slocan Group of Triassic and/or Lower Jurassic age. The area is mineralized by three veins which are known as New Phoenix, Gold Viking and Bonanza veins. These veins are striking north-south to northeasterly with a dip of 70°E. The thickness of these veins varies from 0.5 to 1.00 metres. The mineralization in these veins was exposed by adits along their strikes. These veins are rusty to white in colour and mineralization of galena, sphalerite and minor chalcopyrite and pyrite is noticed.

The geochemical anomalies seem to be strong and very encouraging therefore an exploration program is recommended to cost \$46,200.00.

REPORT ON  
BONANZA #3, NEW PHOENIX FR., VIKING FR.,  
GOLD VIKING, SPRINGER #1&2, AND PORT HOPE FR.  
SPRINGER CREEK AREA  
SLOCAN MINING DIVISION, B.C.  
FOR  
AMERGAS RESOURCES LTD.

INTRODUCTION

This report is on 4 reverted Crown Granted mineral claims and 14 Located mineral claims. These mineral claims are located about 3.2 air kilometres northeast of Slocan in the Mining Division of Slocan, B.C. This report is prepared at the request of Mr. Emil Leimanis, the President of Amergas Resources Ltd., 705 - 850 West Hastings Street, Vancouver, B.C. This report is based on a visit by the writer on October 2 and 3, 1980, and accompanied by Mr. Henry Smith of Kaslo, B.C. The writer of this report is also familiar with the surrounding areas since 1966. He had visited some of the old underground and surface workings. These underground workings are unaccessible as the portals of these workings are caved. A general traverse of the property was made in order to study general geology of the area. Mr. Leimanis carried out a program of soil sampling, and electromagnetic survey on a grid pattern during the period of August and September 1980. The author also referred all written information supplied by Amergas Resources Ltd. This study was undertaken to evaluate these mineral claims and propose a program of exploration if it warrants.

PROPERTY AND OWNERSHIP

The Bonanza #3, New Phoenix Fr., Viking Fr., Gold Viking Crown Granted mineral claims were reverted to the Crown and later leased by Mr. George Sipos of Kaslo, B.C. Springer #1&2, Port Hope Fr., Viking Fr. #2, and Pay Rock #1 (10 units) are Located mineral claims which are owned by Mr. George Sipos of Kaslo, B.C. The Amergas Resources Ltd. has acquired these mineral claims and leases by bill of sale.



The names of claims and leases, and their record numbers and lot numbers are as follows:

Reverted Crown Granted Leases

<u>Name of Claims</u>	<u>Lot Nos.</u>	<u>Record Nos.</u>	<u>Acreage</u>
Bonanza No. 3	5497	1667	20.11
Gold Viking	4850	526	45.81
New Phoenix Fr.	4851	527	31.74
Viking Fr.	4852	528	9.99

Located Mineral Claims

<u>Name of Claims</u>	<u>Record Nos.</u>	<u>Date of Expiry</u>
Pay Rock #1 (10 units)	1515	Oct. 12, 1981
Springer #1&2	1495 & 1496	Oct. 3, 1981
Port Hope Fr.	1497	Oct. 3, 1981
Viking Fr. #2	1516	Oct. 12, 1981

The mineral claims are located in accordance with the Mineral Act of the Province of British Columbia and are in good standing.

LOCATION AND ACCESSIBILITY

The property is located about 3.2 air kilometres northeast of Slocan and about 1.5 kilometres east of Slocan Lake, in the Slocan Mining Division, B.C. The property is centred approximately 49°47'33" North latitude, and 117°26'45" West longitude.

The property is accessible by about 6 kilometres of all weather gravel road from Slocan City. The supply can be available from Slocan City, New Denver and Castlegar. The smelter is located at Trail, B.C. which is only about 78 kilometres by Highway #6.

TOPOGRAPHY, VEGETATION AND CLIMATE

The property is located on the southwestern slope of Ottawa Hill but the physiography of these claims is characterized by a moderately southeasterly slope, with variable elevation of

about 1220 metres to 915 metres above sea level. The area is moderately to thickly timbered by fir, spruce and balsam with slight undergrowth.

The climate of the area is moderate and most pleasant for the greater part of the year. Rainfall is heavy sometimes but most of the summer is dry. The winter is moderate and temperature often goes below freezing in the area. The snowfall on higher elevations is fairly heavier than lower elevations. The exploration and mining can be carried out throughout the year.

Water is available for diamond drilling and mining from Springer Creek and its tributaries which run close to the south end of the property.

#### HISTORY AND PREVIOUS WORK

The history of the Gold Viking and Bonanza #3 goes back to 1902 when these claims were owned by G. Henderson. He made a shipment of 7 tons of ore to Trail smelter. He put a drift of 76 feet long with 40 feet of raises and 15 feet of winzes. (Report of Minister of Mines 1902, page #H170.)

Mr. Henderson shipped 16 tons of ore from Gold Viking to Trail smelter during the period 1933 to 1935. A shipment of 3 tons of ore was made which carried 5 oz. of Gold and 41 oz. of Silver. (Report of Minister of Mines 1935, page #E49.)

Mr. Emil Leimanis had established 10 north-south running base lines 100 metres apart and grid lines perpendicular to it with 50 metre station on each base line during the period of August and September 1980. These grids were covered by soil sampling and E.M. survey. Each soil sample was assayed for Mo, Cu, Pb, Zn, Ag, Ni, Co., and Mn in parts per million.

#### GEOLOGY

The regional geology of the area had been studied by H.W. Little of Geological Survey of Canada during the period of 1948-1952, and published a map #1090A as Geology Nelson (west

half), Kootenay and Similkameen Districts of British Columbia, to accompany G.S.C. Memoir 308 by H.W. Little, 1960. The study of this map suggests that the area is underlain by the contact of paragneiss probably of Slocan Group of Triassic and/or Lower Jurassic age and the Nelson Batholith of Cretaceous age. The Nelson Batholith consists of granodiorite, quartz diorite and mainly porphyritic granite. The paragneiss probably consist of the Slocan Group of rocks which comprises limestone slate, argillite and quartzite with volcanic rocks.

The New Phoenix adit follows a shear zone with a quartz vein in paragneiss, and the Gold Viking adit follows a shear zone which is in granodiorite. The wall rocks near these quartz veins are altered to chlorite, biotite and kaoline. At a number of locations pegmatitic phases are noticed.

#### MINERALIZATION

The area under study is intersected by a number of N30°E to N-S striking with 60° to 70°E dipping shear zones. It is observed that the mineralization occurs in three vein systems which are explored by adits and exposed in these adits, with the width of 0.5-1.0 metres.

Vein #1 is located on New Phoenix at the elevation of about 926.83 metres above the sea level. It is exposed by an adit of 40 metres long which follows a N15°E striking and 70°E dipping shear zone. This shear zone is occupied by a lenticular quartz vein which varies in width from 0.5 metres to 1.00 metres. The hanging wall and foot wall of granodiorite is highly altered and silicified. This vein is slightly mineralized by galena, sphalerite and pyrite with quartz and calcite as gangue minerals.

Vein #2, known as Gold Viking vein, is located at Gold Viking Crown Grant mineral claim at an elevation of about 957.3 metres. It is striking N-S with a dip of 70°E and exposed by an adit which is filled with water and caved at portal therefore it is not accessible at present time for examination, but examining the old mine dump it appears to be that the quartz is rust in colour and mineralized by galena, sphalerite, trace of chalc-

pyrite and pyrite. Mr. G. Henderson shipped about 3 tons of ore to Trail smelter in 1935 and got paid for 5.0 oz. of Gold and 41.0 oz. of Silver.

Vein #3 is located at Bonanza #3 reverted Crown Grant. The writer was not able to examine this vein but according to the Report of Minister of Mines 1902, page #H170, about 76 tons of ore was shipped to the smelter of unknown grade. This vein is exposed by adit and 40 feet of raises and 15 feet of winzes work.

### SAMPLING

The mineralized zones which are exposed in underground workings and old mine dumps were sampled on October 2, 1980 and have been assayed by the Chemex Labs Ltd. of 212 Brooksbank Avenue, North Vancouver, B.C. The location of these samples is indicated on map. Assay results are as follows (see Appendix #1).

Sample #8212 was collected (chip sample) at the end of adit of Vein #1 (New Phoenix) over the width of 0.38 metres. Assayed 0.01% Cu, 0.05% Pb, 0.06% Zn, 0.04 oz./ton Ag, and less than 0.003 oz./ton Au.

Sample #8213 chip sample over 1 metre width collected about 3.5 metres from end of adit, and assay returned less than 0.01% Cu, 0.23% Pb, 0.16% Zn, 0.26 oz./ton Ag, less than 0.003 oz./ton Au.

Sample #8214 collected (chip sample) from New Phoenix adit, about 2.5 metres from portal over the width of 0.50 metres. Assayed less than 0.01% Cu, 0.18% Pb, 0.05% Zn, 0.2 oz./ton Ag, less than 0.003 oz./ton Au.

Sample #8215 grab sample collected from the mine dump of Gold Viking vein. Assayed less than 0.01% Cu, 0.07% Pb, 0.25% Zn, 1.02 oz./ton Ag, 0.032 oz./ton Au.

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where drying, sieving and analysis was carried out under the supervision of a professional chemist. All these samples were analysed for copper, lead, zinc, silver, molybdenum, nickel, cobalt and manganese in parts per million by hot acid solutions and inductive coupled plasma.

The values of copper, lead, zinc and silver are plotted on the same grid map separately. Intensities ranged from 1 to 59 p.p.m. for copper, 5 to 715 p.p.m. for lead, 7 to 3250 p.p.m. for zinc and 0.1 to 5.2 p.p.m. for silver. These values are plotted on a graph paper to construct a histogram and to find out the background for each metal and to find the anomalous zones. Backgrounds for copper 22 p.p.m., lead 110 p.p.m., zinc 350 p.p.m. and silver 0.7 p.p.m. were established. The thresholds for copper 30-35 p.p.m., lead 130-135 p.p.m., zinc 625-650 p.p.m. and silver 1.00-1.1 p.p.m. Most of the values show high background taking into consideration the depth of overburden and slope of the area. The overburden is about 10 centimetres to 3 metres and slope is moderate to steep.

The mobilization of copper and zinc ions will be more than lead and silver ions but anomalies of copper, lead, zinc and silver almost coincide with each other. The interesting geochemically anomalous areas are marked of copper, lead, zinc and silver geochemical maps known as "A" and "D". Area "A" is about 200 metres long and 75 metres wide, and Area "D" about 350 metres long and 180 metres wide. Other areas, "B" and "C", are also interesting and should be tested. The other high values could be due to migration of metal bearing soil down the slope.

#### ELECTROMAGNETIC SURVEY

The Company carried out E.M. survey by using Ronka E.M.16VLF on a part of the grided area but could not be completed due to malfunctioning of the instrument, therefore it should be repeated.

## CONCLUSIONS

The property discussed in this report is in a favourable geological environment and structure. This area is underlain at the contact of Nelson Batholith of Cretaceous age and paragneiss of Slocan Group of Triassic and/or Lower Jurassic age. The granodiorite varies to diorite at places and pegmatitic in the neighbourhood of mineralized zone.

The mineralization has been observed in three vein systems which are explored by adits, and some shipments had been made during the period of 1933-1935. This of 3 tons averaged 1.16 oz./ton of Gold and 13.66 oz./ton of Silver. These adits follow strike of veins which strike N-S to N15°E and dipping 70°E. The quartz veins are rusty to white in colour with a mineral assemblage of galena, sphalerite, specks of chalcopyrite and pyrite.

The old workings are caved or filled with water and not accessible at present time.

The geochemical anomalies of copper, lead, zinc and silver overlap with each other very encouraging, therefore further program of exploration should be undertaken.

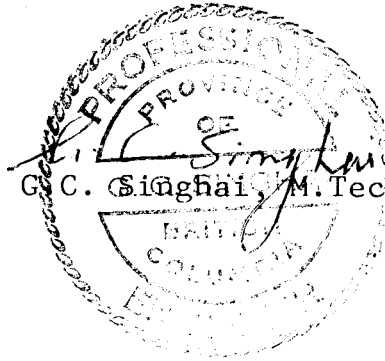
## RECOMMENDATIONS

As a result of the above studies the following program of exploration is recommended.

1. The E.M. survey should be repeated over the whole grided area.
2. Old underground workings should be rehabilitated and geologically mapped and sampled.
3. Geochemical anomalous zones should be tested by trenching and diamond drilling.
4. Area should be mapped geologically in detail.

Respectfully submitted,

Dated at  
5620 Clearwater Drive  
Richmond, B.C.  
December 17, 1980

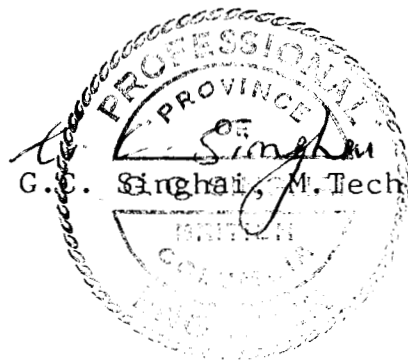


G.C. Singhal, M.Tech, P.Eng.



COST ESTIMATE

1. Rehabilitation of old underground working	\$ 4,000.00
2. Trenching and bulldozing	8,000.00
3. Sampling and assaying	2,000.00
4. Geological mapping and prospecting	7,000.00
5. 600 feet of diamond drilling @ \$35.00/foot	<u>21,000.00</u>
Total	\$42,000.00
Contingencies 10%	<u>4,200.00</u>
<u>Net Total</u>	<u>\$46,200.00</u>



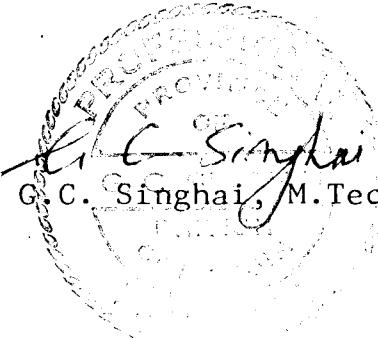
G. S. Singhai, M. Tech, P. Eng.

CERTIFICATION

I, Gyan Chand Singhai of 5620 Clearwater Drive,  
Richmond, B.C., do hereby certify that:

- (1) I am a member of the Association of Professional Engineers of British Columbia since 1969, and member of the Canadian Institute of Mining and Metallurgy.
- (2) I am a post-graduate in Applied Geology (1959) from the University of Saugor, Sagar, Madhya Pradesh, India, and have been practising my profession since that time.
- (3) I was teaching in the University of Saugor, Sagar, and Ravishankar University, Raipur in India, and practised my profession in India, Canada, West Indies, Mexico, Peru, and U.S.A.
- (4) This report is based as a result of personal examination of properties on October 2 and 3, 1980, and the information and data provided by Amergas Resources Ltd.
- (5) I have no interest either directly or indirectly in the property described herein or any other properties or in the securities of Amergas Resources Ltd.
- (6) This report may be used for the purposes of a prospectus, if so desired.

Dated at  
5620 Clearwater Drive  
Richmond, B.C.  
December 17, 1980

A circular professional seal for G.C. Singhai, a Professional Engineer in the Province of British Columbia. The seal contains the text "PROFESSIONAL ENGINEER" and "PROVINCE OF BRITISH COLUMBIA". The name "G.C. Singhai" is written across the seal in a cursive script.  
G.C. Singhai, M.Tech., P.Eng.



To: Amergas Resources Ltd.,  
705 - 850 W. Hastings St.,  
Vancouver, B.C.

Assaying &amp; Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-1049

Type of Samples Soil

Disposition

**GEOCHEMICAL ASSAY CERTIFICATE**

Attn. Emil Leimanis

P.1

SAMPLE No.		Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn		
BL01	1 S	1	7	20	49	.1	2	2	.8	47		1
	2	1	6	13	20	.1	1	2	.4	58		2
	3	1	2	66	16	.1	1	1	.3	21		3
	4	1	12	10	34	.1	2	2	.8	124		4
	5	1	4	37	17	.1	1	1	.5	23		5
	6	1	5	33	35	.1	2	3	.9	66		6
	7	3	11	24	56	.7	5	4	2.4	148		7
	8	2	11	30	68	.4	4	3	1.7	70		8
	9	1	5	17	22	.1	1	1	.2	17		9
	10	1	4	41	19	.1	1	1	.5	33		10
	11	3	7	186	67	.2	3	4	2.3	224		11
	12	5	12	105	226	.8	5	5	3.0	2110		12
	13	2	9	21	56	.2	3	2	1.2	74		13
	14	8	9	25	172	1.0	6	10	5.6	545		14
	15	2	7	22	62	.3	4	5	1.9	215		15
	16	10	15	85	405	5.2	6	7	4.0	809		16
	17	2	4	21	340	.5	5	5	1.9	142		17
	18	4	15	30	119	.7	8	9	3.3	360		18
	19	4	11	25	110	.3	6	7	3.0	495		19
	20	4	7	40	69	.1	5	4	2.0	99		20
	21	1	1	4	7	.1	1	1	.1	10		21
	22	1	2	5	17	.1	1	1	.3	84		22
	23	2	9	59	118	.4	9	5	1.9	595		23
	24	1	3	35	24	.1	2	2	.5	54		24
	25	2	6	13	39	.2	4	2	1.2	47		25
	26	1	7	56	79	.5	3	4	1.2	1375		26
	27	2	7	27	220	.3	7	6	1.7	635		27
	28	2	10	28	187	.6	7	7	2.4	420		28
	29	2	6	25	77	.4	4	4	1.7	117		29
BL01	30 S	1	4	24	48	.1	4	3	1.0	74		30
												31
01#	1	4	20	1080	456	1.9	8	7	2.8	395		32
	2	2	7	58	49	.1	2	2	.6	38		33
	3	2	11	45	97	.2	4	5	1.6	1720		34
	4	4	15	66	46	1.3	4	3	.9	2265		35
	5	1	5	30	30	.2	2	2	.6	435		36
	6	3	11	27	207	.6	8	8	2.6	1855		37
01#	7	2	5	30	41	.1	3	3	1.0	215		38
												39
												40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED SEPT. 10, 1980

DATE REPORTS MAILED SEPT. 17, 1980

ASSAYER

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Amergas Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-1049

Type of Samples Soil

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

P.2

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn		
01# N 8	7	9	52	75	.4	4	8	1.4	1280		1
9	5	10	27	111	.7	5	5	2.7	192		2
10	2	10	102	219	.2	4	4	.9	2250		3
11	5	6	164	131	.2	5	6	2.4	360		4
12	3	8	295	149	.4	3	2	.9	1130		5
13	1	4	12	27	.1	1	2	.4	30		6
14	1	6	58	65	.1	3	3	.8	920		7
15	1	5	35	67	.1	3	3	.9	495		8
16	3	12	42	156	1.2	10	7	2.5	240		9
17	1	7	88	105	.1	3	3	.9	1150		10
18	1	6	16	54	.1	3	3	.8	1080		11
19	1	2	12	17	.1	1	1	.3	35		12
01# N 20	3	11	31	194	.1	7	6	2.6	400		13
											14
BL02 1 S	2	12	19	32	.1	3	2	.9	24		15
2	3	11	68	148	.6	6	5	1.9	885		16
3	1	5	14	26	.1	2	1	.8	54		17
4	3	9	23	129	.4	5	5	2.3	315		18
5	2	9	21	81	.4	5	3	1.9	114		19
6	2	12	23	57	.3	3	4	1.2	750		20
7	3	7	30	209	.3	4	5	1.9	1110		21
8	1	2	7	12	.1	1	1	.2	20		22
9	2	5	37	136	.1	7	5	1.4	710		23
10	1	4	91	64	.1	3	4	1.3	820		24
11	2	7	46	67	.1	5	4	1.6	215		25
12	2	6	120	57	.1	2	3	.7	1835		26
13	2	6	15	71	.1	4	4	1.3	455		27
14	1	3	9	24	.1	1	2	.5	78		28
15	3	8	18	193	.2	6	6	2.4	660		29
16	1	5	15	67	.1	3	3	1.0	465		30
17	5	11	32	185	1.0	7	9	3.6	1090		31
18	3	6	38	72	.5	5	5	1.9	91		32
19	1	5	10	36	.1	2	2	.6	535		33
20	2	10	25	163	.4	9	7	2.1	270		34
21	3	8	27	151	.7	7	8	2.3	710		35
22	3	9	32	300	.9	5	7	2.5	132		36
23	1	7	22	57	.1	3	3	1.0	1475		37
BL02 24 S	2	9	25	205	.6	7	7	2.0	640		38
											39
											40

All reports are the confidential property of clients  
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED SEPT. 10, 1980

DATE REPORTS MAILED SEPT. 17, 1980

ASSAYER Dean Toye

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Amergas Resources Ltd.,

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phone:253 - 3158

File No. 80-1049

Type of Samples Soil

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

P.3

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn		
BL02 25 S	1	6	41	117	.2	4	5	1.2	2100		1
26	2	9	32	288	.3	6	5	1.6	1230		2
27	1	4	10	65	.1	3	3	.7	835		3
28	2	8	20	136	.2	7	4	1.8	223		4
29	2	12	36	193	.2	10	6	2.2	780		5
30	2	11	28	172	.4	9	7	2.2	1220		6
31	1	5	43	71	.1	2	3	1.0	860		7
32	1	5	10	56	.1	4	3	1.1	375		8
BL02 33 S	3	15	27	127	.2	12	7	2.3	930		9
02 - 1 N	3	11	81	249	.3	8	7	2.4	2375		10
2	1	4	18	35	.1	1	1	.3	1650		11
3	3	7	22	138	.2	7	6	2.6	360		12
4	1	7	27	56	.1	2	3	.7	400		13
5	5	12	405	316	.7	7	5	2.6	205		14
6	1	6	64	34	.1	2	2	.5	875		15
7	1	7	13	33	.2	2	2	.6	360		16
8	2	5	62	121	.1	3	4	1.3	925		17
9	2	11	72	255	.3	7	6	1.7	3075		18
10	1	5	155	100	.1	1	1	.1	142		19
11	3	29	113	97	2.6	6	2	.6	1800		20
12	3	11	33	215	.4	6	7	2.2	480		21
13	2	13	69	109	.1	3	2	.6	850		22
14	3	11	22	33	.7	2	1	.1	260		23
15	1	2	37	34	.1	2	1	.4	39		24
16	3	10	47	124	.5	6	7	2.4	240		25
17	2	6	17	97	.1	4	5	1.5	1470		26
18	3	10	29	179	.4	8	7	2.3	465		27
19	2	8	114	126	.4	4	7	1.6	1700		28
02 - 20 N	2	9	23	94	.1	6	5	1.7	910		29
BL03 1 S	4	11	30	99	.5	5	5	2.4	113		30
2	2	10	65	179	.1	3	3	1.0	1620		31
3	1	2	9	23	.1	1	1	.3	370		32
4	3	11	30	105	.6	7	5	2.7	153		33
5	4	12	22	179	.3	7	7	2.6	470		34
6	2	13	230	50	.2	3	2	.4	450		35
7	1	7	75	54	.1	2	3	.8	1600		36
BL03 8 S	3	8	39	148	.3	8	6	2.2	880		37
											38
											39
											40

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 DIGESTION:.....  
 DETERMINATION:.....

DATE SAMPLES RECEIVED SEPT. 10, 1980  
 DATE REPORTS MAILED SEPT. 17, 1980  
 ASSAYER Dean Toye

DEAN TOYE, B.Sc.  
 CHIEF CHEMIST  
 CERTIFIED B.C. ASSAYER



To: Amergas Resources Ltd.,

File No. 80-1049

Type of Samples Soil

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

4

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn		
BL03 9 S	1	5	33	79	.1	3	3	.9	390		1
10	1	3	10	53	.1	2	3	1.1	275		2
11	3	11	23	209	.4	11	7	2.8	450		3
12	4	11	35	145	.3	7	7	3.3	1030		4
13	2	6	17	133	.2	5	5	1.8	890		5
14	4	10	30	215	.5	6	10	3.0	595		6
15	1	3	15	147	.1	2	3	.9	355		7
16	3	8	40	186	.4	6	6	2.1	850		8
17	3	8	40	199	.5	8	6	1.9	660		9
18	5	8	25	93	.3	4	10	2.2	1650		10
19	3	10	30	235	.4	7	8	2.7	650		11
20	1	3	6	30	.1	1	2	.4	485		12
21	1	5	12	96	.1	3	4	1.0	570		13
22	2	9	42	93	.3	4	4	1.1	310		14
23	2	7	37	136	.2	6	5	1.8	100		15
24	3	10	24	183	.4	8	6	2.0	890		16
25	1	3	7	50	.1	2	2	.6	695		17
26	4	12	32	230	.3	9	7	2.7	1825		18
BL03 27 S	3	10	63	219	.3	9	6	2.5	1375		19
BL03 30 S	4	19	38	152	.5	13	8	2.9	585		20
31	3	11	74	154	.2	9	7	2.4	1000		21
32	4	9	28	114	.4	7	7	3.3	680		22
33	2	12	29	105	.3	7	4	1.6	745		23
BL03 34 S	2	8	29	225	.2	8	5	1.7	790		24
BL03 1 N	4	13	35	125	.2	10	7	2.7	475		25
2	4	24	223	215	.8	6	5	1.9	1385		26
3	5	27	98	167	.5	12	10	3.4	615		27
4	5	18	63	181	.9	8	5	3.1	385		28
5	5	51	92	525	2.0	12	6	1.8	3950		29
6	2	10	30	101	.2	7	4	1.8	255		30
7	4	14	66	289	.5	11	8	3.4	550		31
8	5	12	79	303	.2	6	17	5.2	3080		32
9	4	11	39	183	1.1	7	8	2.8	505		33
10	2	10	58	208	.1	7	6	2.0	485		34
11	1	4	13	38	.1	2	2	.8	460		35
12	1	5	16	42	.1	3	3	.8	605		36
BL03 13 N	1	4	17	40	.1	2	2	.5	72		37
											38
											39
											40

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DETERMINATION:.....

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ASSAYER *D. Toye*

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Amergas Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-1049

Type of Samples Soil

### GEOCHEMICAL ASSAY CERTIFICATE

Disposition \_\_\_\_\_

P.5

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn		
BL03 14 N	3	7	34	63	.1	4	3	2.0	650		1
15	1	6	14	76	.1	5	4	1.2	550		2
16	1	3	9	12	.1	1	1	.3	23		3
17	1	3	17	14	.1	1	1	.4	75		4
18	1	4	8	24	.1	1	2	.4	285		5
19	1	1	5	7	.1	1	1	.3	16		6
BL03 20 N	1	5	25	25	.1	1	2	.4	235		7
											8
BL04 0 S	1	5	15	31	.1	2	2	.5	455		9
1	2	12	27	125	.4	8	6	2.0	510		10
2	1	4	11	21	.1	1	2	.4	355		11
3	1	4	8	30	.1	1	1	.2	380		12
4	2	8	25	210	.1	7	6	1.8	1320		13
5	1	3	21	35	.1	1	2	.3	420		14
6	2	8	58	136	.1	5	4	1.3	1200		15
7	4	9	55	199	.2	6	6	3.4	1575		16
8	5	18	42	106	1.5	9	5	2.0	2880		17
9	1	5	14	41	.3	3	3	.9	125		18
10	3	10	47	133	.4	7	7	2.2	775		19
11	3	12	23	246	.4	9	7	2.4	1550		20
12	1	9	25	127	.1	2	2	.5	1500		21
13	1	5	8	30	.1	1	2	.5	270		22
14	4	9	35	145	.3	11	8	3.4	870		23
BL04 15 S	3	10	32	176	.2	9	7	3.0	795		24
											25
BL04 18 S	2	14	47	200	.3	9	4	1.5	1125		26
19	3	11	30	264	.4	10	7	2.1	1185		27
20	3	10	28	197	.4	11	7	2.3	415		28
21	3	11	26	232	.6	9	7	2.1	1300		29
22	1	5	14	72	.1	3	3	.9	855		30
23	2	8	20	153	.2	6	5	1.7	820		31
24	1	5	83	105	.1	3	3	1.0	1235		32
25	1	9	7	23	.1	1	3	.6	450		33
26	3	10	38	191	.3	9	7	2.0	840		34
27	4	8	30	142	.2	10	6	3.2	1165		35
28	1	4	20	68	.1	3	3	.7	850		36
29	2	5	17	70	.1	4	4	1.0	490		37
BL04 30 S	3	13	31	123	.3	9	8	2.8	385		38
											39
											40

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DETERMINATION:.....

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ASSAYER *D. Toye*

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Amergas Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-1049

Type of Samples Soil

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

P.6

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn	
BL04 31 S	1	7	51	187	.1	4	4	1.1	1045	1
32	2	6	16	99	.1	4	4	1.3	1060	2
33	2	9	65	75	.3	6	5	1.7	310	3
34	3	10	35	118	.4	8	6	2.5	400	4
35	3	11	24	153	.2	8	6	2.6	735	5
36	2	13	34	132	.3	6	5	1.7	615	6
37	2	14	26	178	.2	5	6	2.0	1850	7
38	3	9	34	303	.3	9	6	2.4	730	8
39	2	11	27	154	.3	6	5	1.5	1320	9
BL04 40 S	3	10	55	158	.2	8	6	2.6	800	10
										11
BL04 1 N	2	11	30	360	.5	8	7	2.0	4440	12
2	3	11	40	247	.3	10	8	2.5	575	13
3	2	6	31	68	.1	4	4	1.1	250	14
4	5	21	40	264	.7	11	12	2.8	1500	15
5	2	12	15	241	.2	5	5	1.3	1390	16
6	1	3	13	42	.1	1	2	.3	190	17
7	1	5	23	81	.1	3	4	1.1	670	18
8	2	9	75	161	.3	5	6	1.7	1160	19
9	4	10	36	309	.4	9	8	2.5	1150	20
10	2	7	45	160	.2	5	5	1.4	1800	21
11	4	11	80	184	.3	5	6	2.1	1370	22
12	1	5	25	37	.1	1	2	.6	130	23
13	4	19	44	103	.3	5	3	2.3	275	24
14	4	6	36	64	.1	3	6	2.4	63	25
15	3	14	255	59	.3	2	1	.2	445	26
16	2	5	13	27	.1	2	2	.9	215	27
17	1	4	40	21	.1	2	2	.4	50	28
18	1	5	27	41	.1	2	1	.3	345	29
19	1	3	6	21	.1	1	2	.4	325	30
BL04 20 N	3	8	20	178	.1	6	7	2.8	565	31
										32
BL05 10 S	1	3	13	31	.1	2	3	.6	530	33
11	1	4	13	84	.1	2	3	1.0	790	34
12	4	6	22	120	.3	4	6	3.8	950	35
13	2	8	32	138	.1	6	4	1.2	1670	36
14	3	13	28	177	.2	9	7	3.3	1320	37
BL05 15 S	2	11	20	129	.1	8	6	2.0	1020	38
										39
										40

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DETERMINATION:.....

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ASSAYER Dean Toyne

DEAN TOYNE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER





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Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-1049

Type of Samples Soil

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

P.7

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn		
BL05 16 S	1	8	15	73	.1	5	3	1.0	220		1
18	3	12	30	179	.4	11	8	2.0	1740		2
19	1	3	9	17	.1	1	2	.4	53		3
20	2	3	28	163	.3	6	6	1.8	685		4
22	2	4	28	43	.1	3	3	.9	59		5
23	4	9	24	229	.2	10	8	2.8	655		6
24	4	13	26	167	.2	11	7	2.6	550		7
25	4	18	22	108	.3	10	7	2.9	154		8
26	3	11	48	149	.5	10	7	2.2	370		9
27	2	9	80	135	.3	5	4	1.2	365		10
29	6	18	110	153	.6	8	8	3.5	895		11
30	1	6	12	115	.1	4	4	1.1	850		12
31	2	11	30	231	.3	11	7	2.2	350		13
32	1	5	14	80	.1	4	4	1.0	620		14
33	3	11	25	128	.2	8	6	2.6	420		15
34	3	13	36	347	.4	8	7	2.2	1215		16
35	1	17	42	267	.4	7	5	1.2	4220		17
36	3	11	44	162	.2	10	6	2.0	1050		18
37	5	19	57	193	.6	10	8	3.4	2100		19
38	4	15	81	165	.5	6	7	3.0	1980		20
39	2	10	21	163	.1	5	5	1.5	950		21
BL05 40 S	3	12	205	238	.3	6	5	2.0	2340		22
											23
BL06 10 S	2	14	56	212	.2	7	5	1.4	2425		24
11	1	4	10	63	.1	3	2	.5	325		25
12	4	14	35	566	.8	25	9	2.4	450		26
13	4	9	49	267	.3	8	7	2.3	1550		27
14	2	7	107	257	.2	4	4	.9	1420		28
15	4	9	30	166	.2	11	7	2.8	220		29
16	2	9	19	225	.1	6	4	1.3	630		30
17	3	11	20	143	.2	6	7	1.8	730		31
18	3	16	36	316	.4	16	8	2.4	1240		32
19	1	4	27	68	.1	3	4	.8	640		33
20	3	10	27	169	.3	9	6	2.2	430		34
21	3	11	33	291	.3	7	6	2.6	750		35
22	3	13	37	163	.3	8	6	2.3	590		36
23	3	10	27	219	.3	9	7	2.7	320		37
24	4	11	32	253	.2	9	8	2.7	520		38
BL06 25 S	4	7	36	156	.2	3	5	2.8	615		39
											40

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ASSAYER  
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CHIEF CHEMIST  
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Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-1049

Type of Samples Soil

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

1.8

SAMPLE No.		Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn		
BL06	26 S	3	16	50	254	.3	9	7	2.4	1000		1
	27	4	14	34	126	.4	8	7	2.6	400		2
	28	4	14	27	88	.1	9	6	2.5	310		3
	29	3	18	38	148	.2	12	8	2.7	630		4
	30	3	10	16	205	.4	5	6	2.3	1310		5
	31	1	4	15	42	.1	2	3	.5	450		6
	32	2	6	14	92	.1	4	4	1.3	580		7
	33	1	5	11	59	.1	2	3	.6	405		8
	34	3	11	34	215	.4	12	7	2.4	800		9
	34A	2	14	31	162	.4	8	6	1.8	960		10
	35	3	8	28	136	.1	3	6	2.6	635		11
	36	2	13	27	182	.3	8	6	1.8	880		12
	37	4	17	50	147	.5	10	6	2.5	615		13
	38	4	13	75	222	.6	8	6	2.4	1300		14
	39	2	10	31	174	.2	3	3	1.5	1380		15
	40	4	15	43	200	.4	12	8	3.0	560		16
	41	1	7	12	110	.1	2	3	1.1	640		17
	42	1	4	21	50	.1	2	2	.5	330		18
BL06	43 S	5	12	56	174	.6	8	6	3.4	800		19
												20
BL07	10 S	2	10	32	99	.1	5	5	1.3	870		21
	11	5	11	97	318	.3	7	7	2.9	2960		22
	12	3	11	32	240	.2	9	7	2.3	1120		23
	13	3	8	58	147	.2	5	5	2.4	330		24
	14	3	6	27	186	.1	8	6	2.3	480		25
	15	1	5	16	58	.1	4	4	1.0	490		26
	16	2	7	27	158	.1	5	5	1.3	1260		27
	17	2	13	145	231	.3	10	6	1.9	990		28
	18	2	10	57	160	.2	7	5	1.4	880		29
	19	3	14	34	239	.3	11	8	2.3	1565		30
	20	3	13	47	250	.2	10	7	2.3	1260		31
	21	3	14	41	227	.3	10	8	2.8	1565		32
	22	3	7	15	91	.2	5	4	2.1	120		33
	23	3	17	38	196	.7	10	7	2.3	460		34
	24	3	14	44	400	.3	14	8	2.7	640		35
	25	7	14	50	159	.4	8	10	4.0	640		36
	26	2	6	37	148	.1	6	5	1.7	540		37
BL07	28 S	3	5	20	68	.1	3	4	1.7	450		38
												39
												40

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Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-1049

Type of Samples Soil

Disposition \_\_\_\_\_

### GEOCHEMICAL ASSAY CERTIFICATE

P.9

SAMPLE No.		Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn		
BL07	29 S	3	11	27	154	.3	7	6	2.0	1290		1
	30	1	5	24	89	.1	5	5	1.2	730		2
	31	3	8	34	212	.3	7	7	2.5	1190		3
	32	3	14	36	113	.3	9	6	2.2	380		4
	34	4	5	20	75	.1	4	3	2.1	425		5
	35	3	12	64	151	.3	9	5	2.2	775		6
	36	1	4	46	59	.1	2	3	.8	400		7
	37	3	10	44	129	.2	12	6	2.2	630		8
	38	10	12	41	151	.4	4	9	4.7	970		9
	39	2	11	107	230	.2	7	5	1.6	1900		10
	40	3	10	63	118	.6	5	6	2.0	1250		11
	41	3	12	109	207	.2	10	6	2.0	1375		12
	42	2	11	80	173	.4	5	6	1.9	1925		13
	43	2	9	40	158	.2	7	5	1.7	950		14
BL07	44 S	1	7	23	143	.1	5	3	.8	925		15
												16
BL08	10 S	3	6	58	124	.1	6	5	2.0	580		17
	11	1	3	83	49	.1	1	2	.5	198		18
	12	2	7	19	112	.1	5	4	1.5	1085		19
	13	1	9	51	172	.1	3	3	.9	620		20
	14	3	15	30	359	.5	8	7	2.3	815		21
	15	3	8	24	149	.1	6	5	2.5	590		22
	16	3	20	178	254	.3	8	8	3.5	1560		23
	17	4	15	26	105	.2	7	9	3.9	665		24
	18	3	17	22	170	.4	10	7	2.4	980		25
	19	1	4	57	85	.1	4	3	.8	940		26
	20	3	15	32	195	.3	11	7	2.3	360		27
	21	2	7	18	127	.1	6	5	1.8	365		28
	22	2	7	24	113	.1	7	5	1.7	665		29
	23	3	8	50	305	.2	7	5	2.2	1470		30
BL08	24 S	2	7	17	70	.4	6	4	1.5	216		31
												32
BL08	27 S	3	13	32	292	.3	9	7	2.2	1250		33
	28	3	8	37	326	.2	11	7	2.3	835		34
	29	2	5	44	96	.1	4	3	.9	90		35
	30	2	10	42	156	.3	8	6	1.8	450		36
	31	1	2	11	13	.1	1	1	.3	21		37
	32	2	11	40	143	.2	8	5	1.7	1030		38
BL08	33 S	1	10	32	77	.1	4	3	.8	780		39
												40

N533 →

All reports are the confidential property of clients  
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED SEPT. 10, 1980

DATE REPORTS MAILED SEPT. 17, 1980

ASSAYER  
=====

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Amergas Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-1049

Type of Samples Soil

Disposition \_\_\_\_\_

### GEOCHEMICAL ASSAY CERTIFICATE

P.11

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Ni	Co	Fe%	Mn		
BL09 36 S	3	12	31	106	.2	6	6	2.2	790		1
37	3	14	41	366	.3	7	6	2.4	1260		2
38	4	19	35	1495	.6	49	6	2.3	340		3
39	(59)	(59)	715	3250	1.6	81	13	5.0	690		4
40	3	9	35	390	.3	16	5	1.6	630		5
41	2	8	21	278	.1	8	4	1.3	540		6
42	6	22	42	700	.6	28	5	2.1	360		7
43	6	23	32	718	.2	20	5	1.9	260		8
BL09 44 S	2	8	22	817	.2	20	4	1.5	310		9
											10
											11
											12
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											37
											38
											39
											40

All reports are the confidential property of clients  
 All results are in PPM.  
 DIGESTION:.....  
 DETERMINATION:.....

DATE SAMPLES RECEIVED SEPT. 10, 1980  
 DATE REPORTS MAILED SEPT. 17, 1980  
 ASSAYER \_\_\_\_\_  
 DEAN TOYE, B.Sc.  
 CHIEF CHEMIST  
 CERTIFIED B.C. ASSAYER



APPENDIX - II

# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE: 984-0221  
AREA CODE: 604  
TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ASSAY

TO: Mr. G.C. Singhai  
5620 Clearwater Street  
Richmond, B.C.

ATTN:

c.c. Singhai Engineering

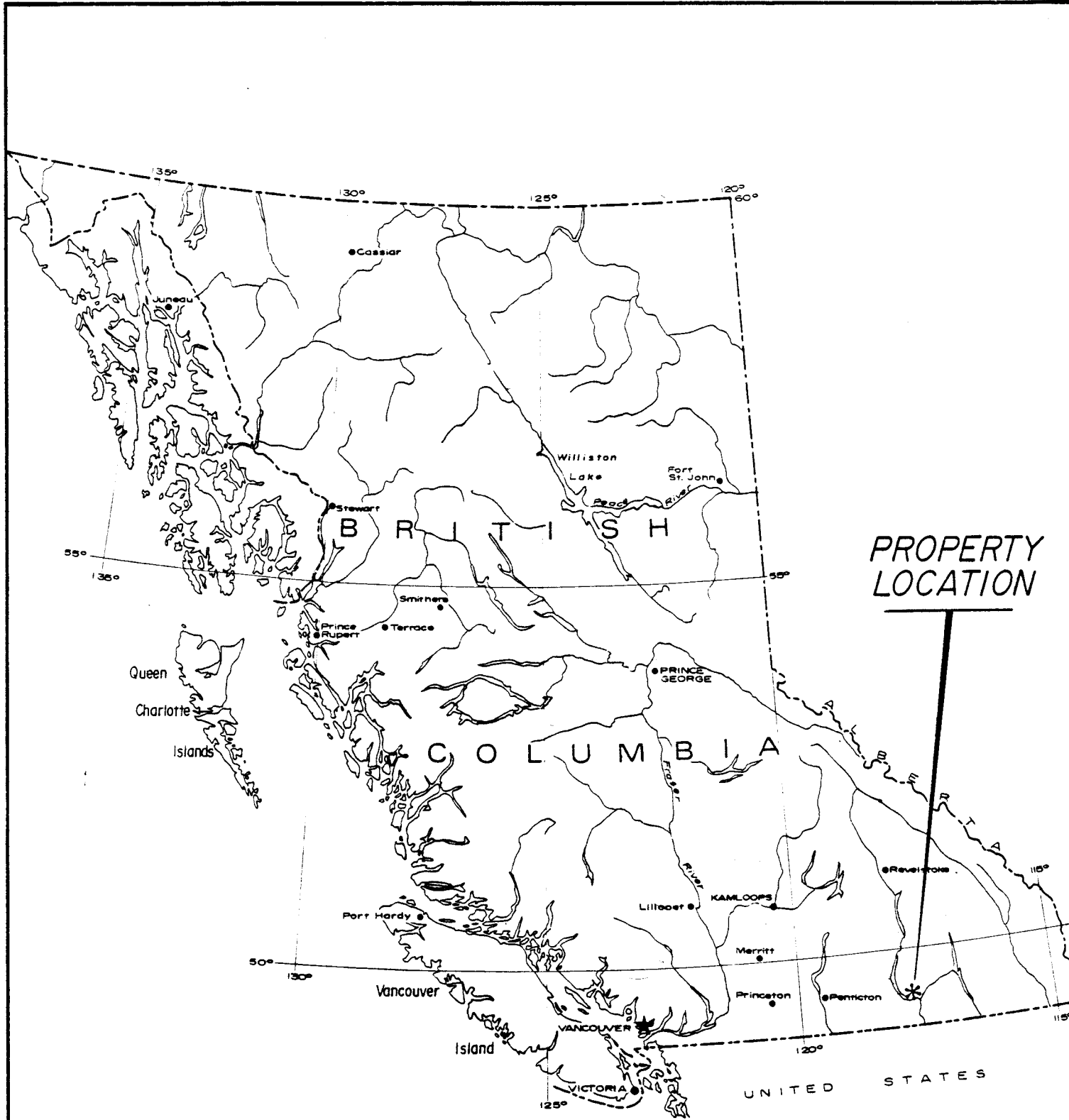
CERTIFICATE NO. 70363  
INVOICE NO. 40045  
RECEIVED Oct. 7/80  
ANALYSED Oct. 31/80

SAMPLE NO. :	%	%	%	oz/ton	oz/ton	Width of sample
	Cu	Pb	Zn	Ag	Au	
8212	0.01	0.05	0.06	0.04	<0.003	0.38 meters
8213	<0.01	0.23	0.16	0.24	<0.003	1.00 "
8214	<0.01	0.18	0.05	0.20	<0.003	0.05 "
8215	<0.01	0.07	0.25	1.02	0.032	0.20 "



MEMBER  
CANADIAN TESTING  
ASSOCIATION

*R. White*  
REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA

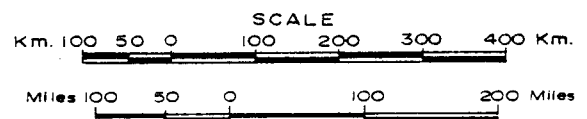
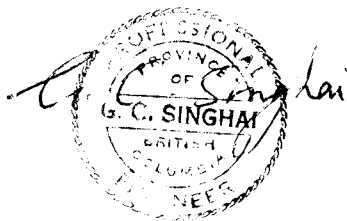


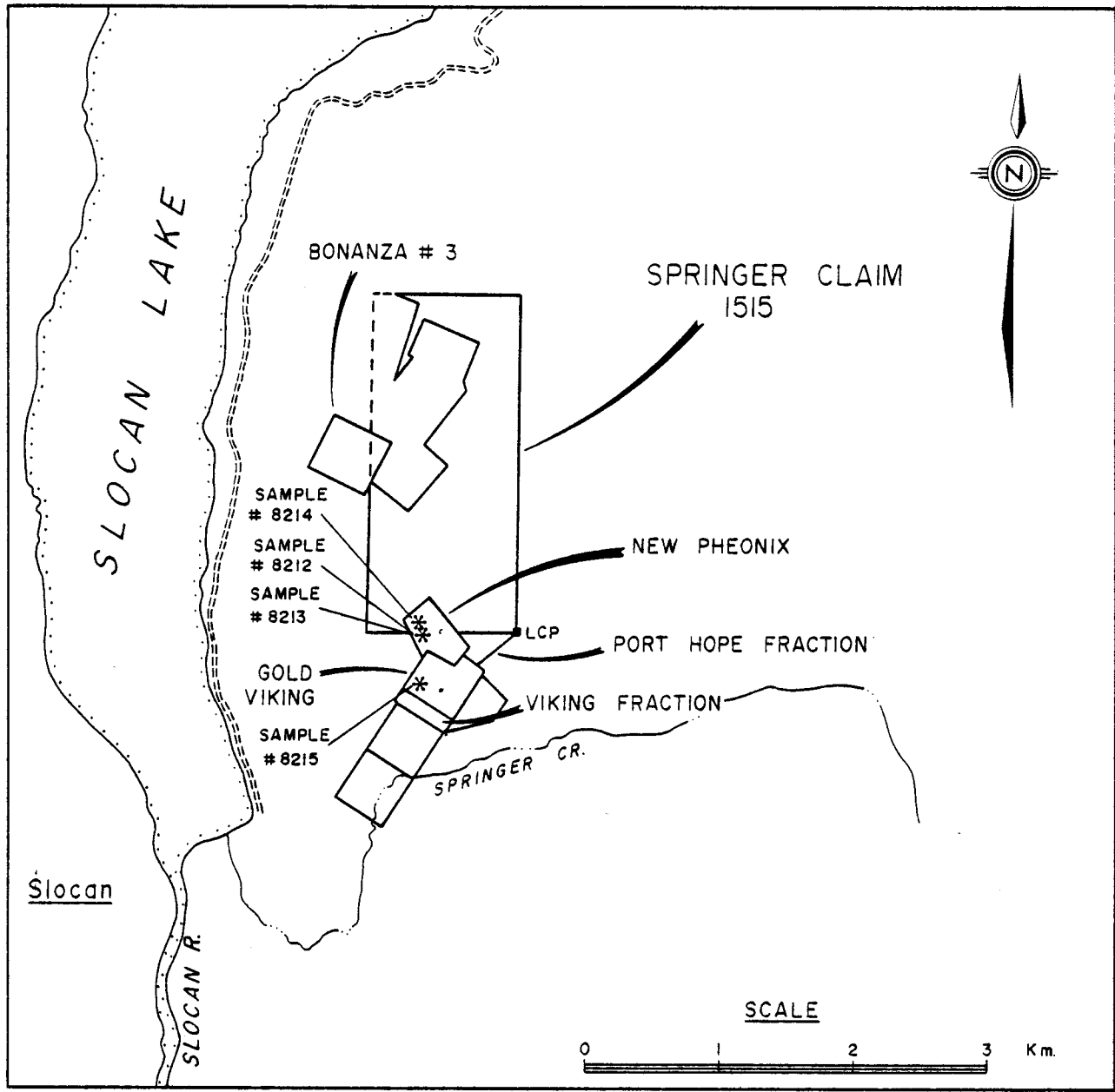
AMERGAS RESOURCES LTD.

SPRINGER MINERAL GROUP

SLOCAN M.D., BC.

LOCATION MAP





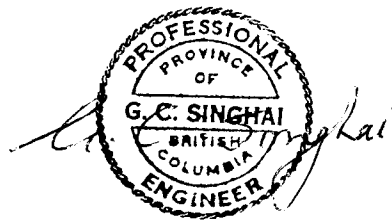
Slocan

AMERGAS RESOURCES LTD.

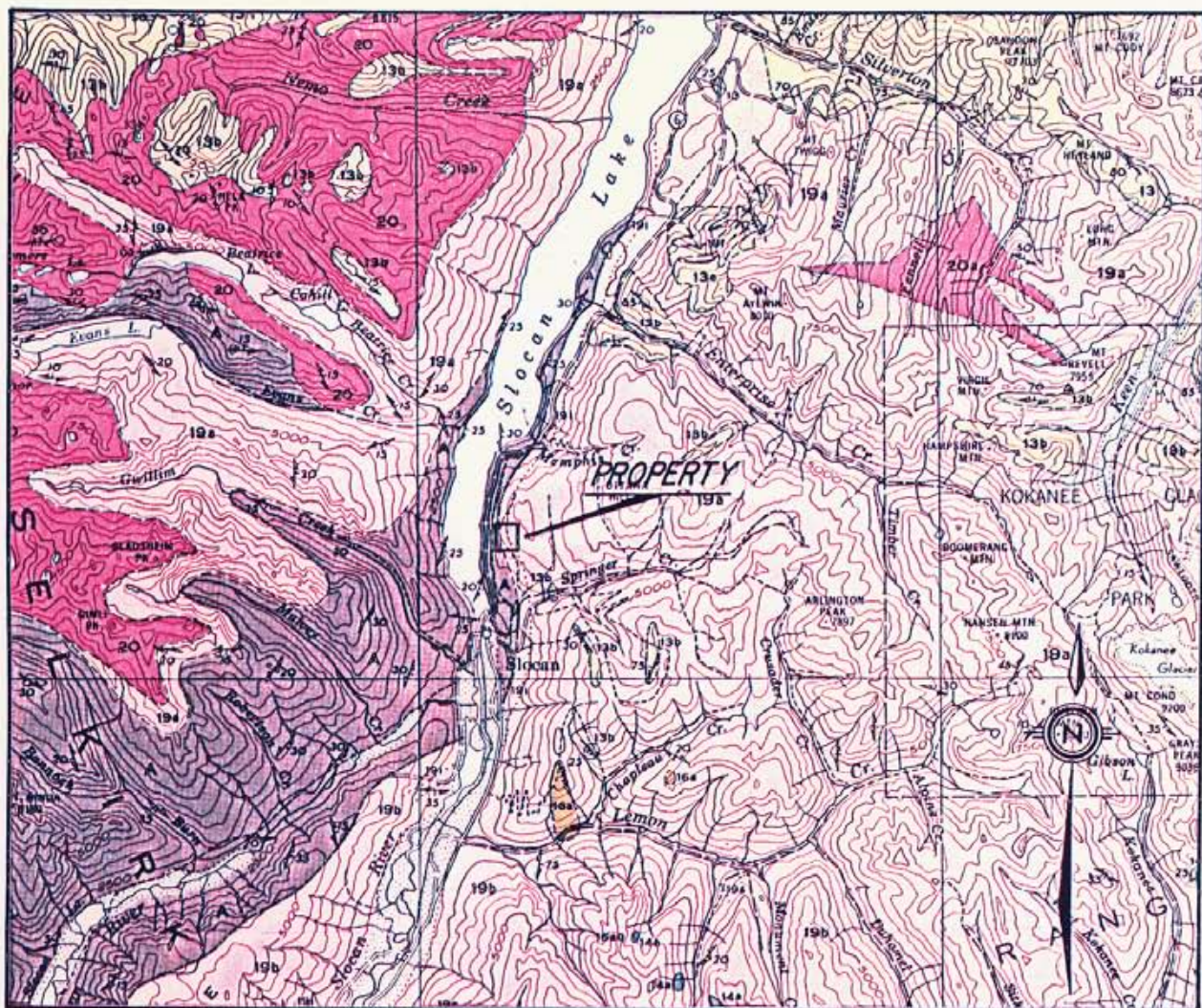
MINERAL CLAIMS MAP

SHOWING LOCATIONS OF SAMPLES

SINGHAI ENGINEERING INTERNATIONAL LTD.







**LEGEND**

- MESOZOIC**
- LOWER CRETACEOUS (?)
    - 20** Valhalla Plutonic Rocks
    - 19** Nelson Plutonic Rocks
  - LOWER JURASSIC
    - 16** Rosland Formation
  - TRIASSIC AND (?) LOWER JURASSIC
    - 13** Slocan Group
    - A** Augen gneiss, hornblende - biotite - feldspar gneiss.

**AMERGAS RESOURCES LTD.**

**SPRINGER MINERAL GROUP**

SLOCAN M.D., B.C.

**REGIONAL GEOLOGY MAP**

SCALE IN MILES



SINGHAI ENGINEERING INTERNATIONAL LTD.

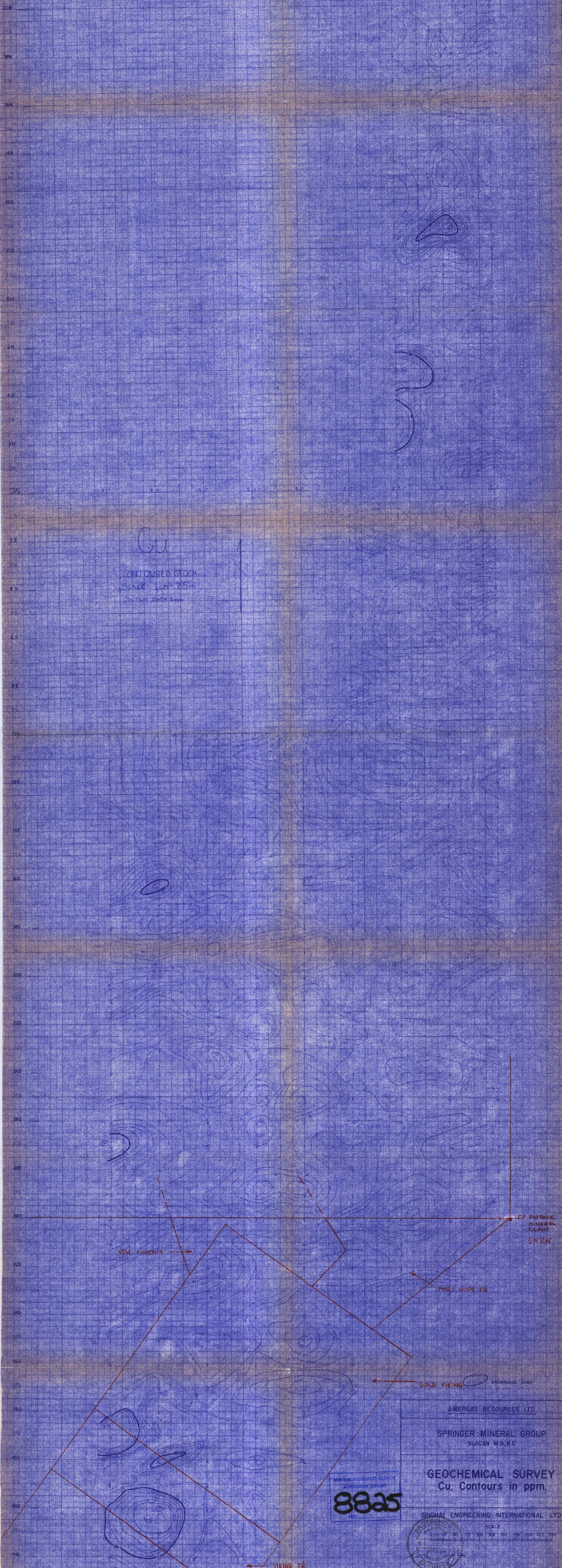




COST STATEMENT  
GOLD VIKING GROUP

TRANSPORTATION AND ACCOMADATION	\$	825.00
4 × 4 RENTAL	\$	450.00
PROSPECTING	\$	750.00
SOIL SAMPLING AND ASSAYING	\$	2800.00
E.M. SURVEY	\$	1500.00
SUPERVISION	\$	1200.00
GEOLOGICAL REPORT G.C. SINGHAI	\$	5300.00
		<hr/>
TOTAL	\$	12825.00





Cu  
 CONTOURED BLOCK  
 SCALE: 1cm = 25m  
 CONTOUR 200 ppm

NEW PHOENIX

LCP PATRICK  
 MINERAL  
 CLAIM  
 5N 2W

PORT HOPE FR

GOLD VIKING

ANOMALOUS ZONE

VIKING FA

AMERGAS RESOURCES LTD.

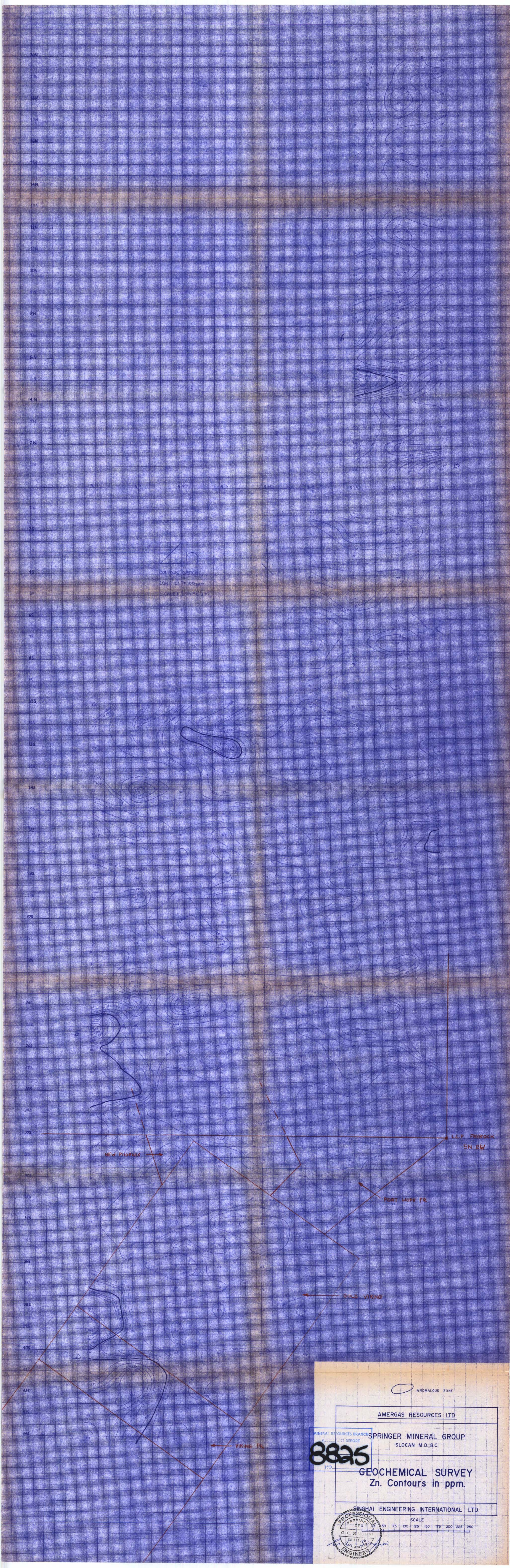
SPRINGER MINERAL GROUP  
 SLOCAN, M.D. B.C.

GEOCHEMICAL SURVEY  
 Cu. Contours in ppm.

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**8825**  
 NO.

SINGHA ENGINEERING INTERNATIONAL LTD.  
 SCALE: 1cm = 25m  
 0 25 50 75 100 125 150 175 200 225 250





Zn  
 CONTOUR LEVELS  
 10000, 20000, 30000 ppm  
 SCALE: 1cm = 100m

NEW PHOENIX

PORT HOPE FR.

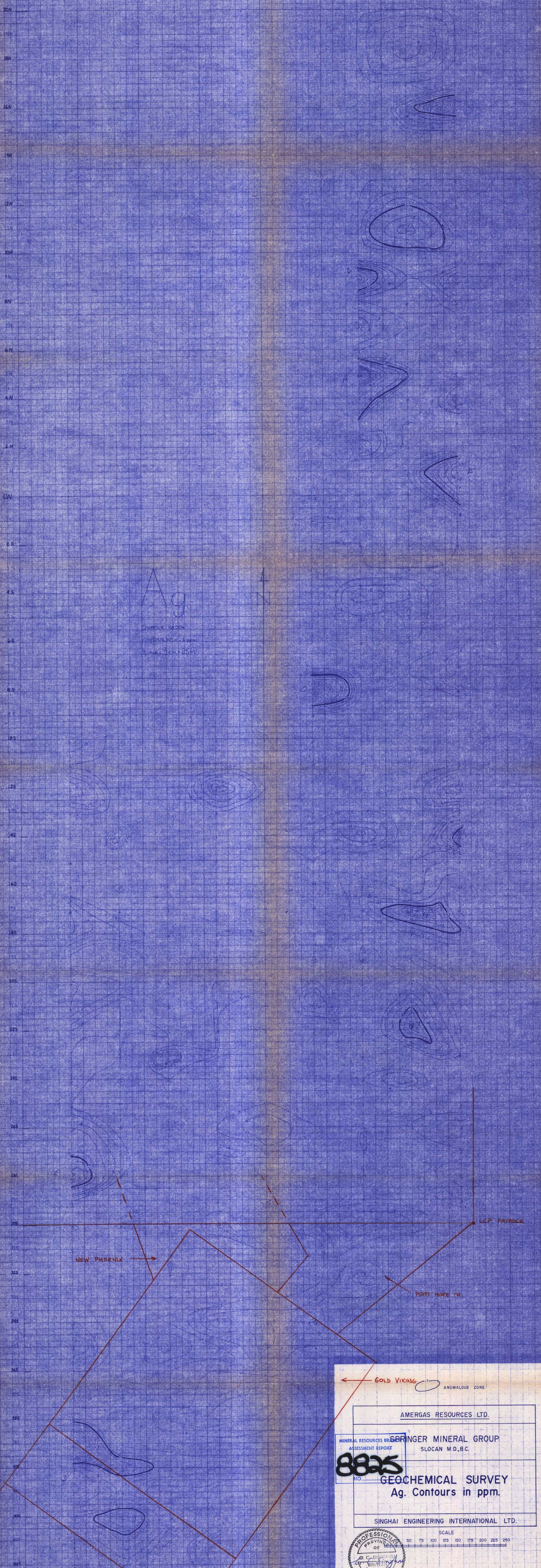
GOLD VIKING

VIKING FR.

ANOMALOUS ZONE

AMERGAS RESOURCES LTD.	
MINERAL RESOURCES BRANCH	SPRINGER MINERAL GROUP
SLOCAN M.D., B.C.	
NO. 8825	GEOCHEMICAL SURVEY
Zn. Contours in ppm.	
SINGHAI ENGINEERING INTERNATIONAL LTD.	
SCALE 0 50 75 100 125 150 175 200 225 250	





Ag

CONTOUR INTERVAL = 2 ppm

NEW PHOENIX

PORT HOPE FR.

VIKING FR.

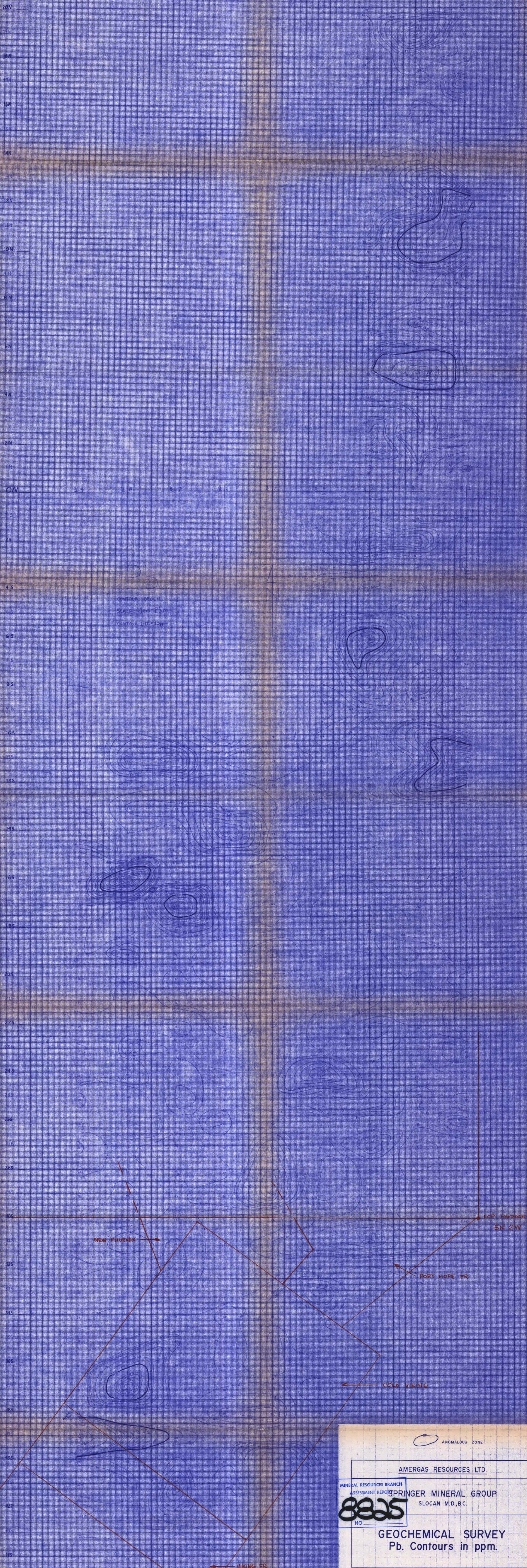
← GOLD VIKING ANOMALOUS ZONE

AMERGAS RESOURCES LTD.	
MINERAL RESOURCES BRANCH	SPRINGER MINERAL GROUP
ASSESSMENT REPORT	SLOCAN M.D., B.C.
<b>8825</b>	
NO.	<b>GEOCHEMICAL SURVEY</b>
	<b>Ag. Contours in ppm.</b>
SINGHAI ENGINEERING INTERNATIONAL LTD.	

SCALE 50 75 100 125 150 175 200 225 250


PROFESSIONAL ENGINEER OF BRITISH COLUMBIA





Pb  
 CONTOUR SCALE  
 SCALE: 1cm=5m  
 CONTOUR INTERVAL: 10ppm

ANOMALOUS ZONE

AMERGAS RESOURCES LTD.	
MINERAL RESOURCES BRANCH ASSESSMENT REPORT <b>8825</b> NO.	SPRINGER MINERAL GROUP SLOCAN M.D., B.C.
<b>GEOCHEMICAL SURVEY</b> <b>Pb. Contours in ppm.</b>	
SINGHAI ENGINEERING INTERNATIONAL LTD.	
	SCALE 75 100 125 150 175 200 225 250