12/88

ASSESSMENT REPORT

ON THE

INDEPENDANCE PROPERTY 3097 (1)

LOCATED IN THE

ALBERNI MINING DIVISION

NTS 92E / 15E

49° ~~56'~~ 57'54" North latitude
126° 40'5" West Longitude

GEOCHEMICAL, GEOLOGICAL, GEOPHYSICAL

REPORT

Owner/Operator: North American Ventures

16,673

BY: J. Paul Stevenson
618 - 475 Howe St.
Vancouver, B.C.
V6C 2B3

November 28, 1987

TABLE OF CONTENTS

APPENDIX I:

- MAG/BASE STATION RAW DATA
- Rock Chip Sample Analyses
- Soil Sample Analyses
- EM VLF RAW DATA

ILLUSTRATIONS

SUMMARY AND CONCLUSIONS

The Independence property occurs in the Zeballos Gold Camp of north western Vancouver Island. The Zeballos camp has produced over 287,000 ounces of gold and 124,700 ounces of silver from narrow quartz-sulphide filled shear zones cutting volcanic, sedimentary and intrusive rocks. Although rarely exceeding 30 centimeters in thickness, the veins are persistant over considerable distances and had an average production grade of 0.44 ounces per ton.

On the Independence property, two westerly trending shear-hosted veins cut andesitic volcanic rock. The principle vein system, known as The Main Showing, was explored by open cuts and a 150 meter adit in 1939 by Bralorne Mines Ltd. The main zone varies in thickness from 2 meters to less than 30 centimeters and has been traced over a distance of 150 meters and remains open on strike and to depth. Sampling of the vein and sulphide-mineralized sheared wall rock by J.W. Hoadley of The Geological Survey of Canada obtained gold values to 1.18 ounces per ton. Resampling of the adit during the current program obtained gold values to 0.528 ounces per ton.

The second vein system, known as The North Shear Zone, is up to 2 meters wide and can be traced in outcrop for 10 meters before disappearing under overburden. A 1 meter channel sample across the shear-hosted vein assayed

0.036 ounces per ton gold. The North Shear Zone remains open on strike and to depth.

Soil sampling on a widely spaced grid (100 meters by 50 meters) over the central portion of the property highlight numerous areas of the claims as anomalous for silver, copper and zinc including a copper value to 528 ppb over The North Shear. The grid was not extended far enough to the west to cover The Main Shear. Sources of the remaining silver, copper and zinc anomalies are not explained. These anomalies may be caused by shear-hosted veins concealed beneath overburden.

A limited geophysical program of VLF EM and Magnetometer surveying was carried out over a few lines in the east part of the geochemical grid. The contoured Fraser Filtered VLF EM data identified several east-west trending conductors, one of which, is co-incident with The North Shear.

Exploration to date indicates the Independence property to have a good potential for a high-grade, vein-type, gold-silver deposit similar to those mined elsewhere in the Zeballos Gold Camp. Future exploration of the property should be designed to outline a gold deposit in narrow shear-hosted vein systems having a reserve on excess of 150,000 tons grading 0.04. To this end a comprehensive, two phase exploration program having a combined cost of $125,750 is recommended.

B) INTRODUCTION

At the request of J. Paul Stevenson of J. Paul Stevenson & Associates Ltd., the writer compiled this report on the Independence property situated in the Zeballos Gold Camp of western Vancouver Island.

The report is based on a one day examination of the claim on July 11, 1987, review of geochemical, geophysical and rock sampling data provided by Renegade Resources Ltd. and review of all available government maps and assessment reports describing work on the Independence property.

1) Location

The Independence property occurs in the Alberni Mining Division, British Columbia approximately 4 kilometers north of the village Tahsis. More exactly, it lies at 49 degrees 56 minutes north latitude and 126 degrees 40 minutes west longitude (National Topography System Map 92E/16).

2) Access and Physiography

The Independence property is readily accessible from Campbell River via Highway 28 to the village of Gold River, then by 65 kilometers of all weather gravel road to Tahsis. From Tahsis, a secondary gravel road extends to the south western corner of the claim. Access to the remainder of

LOCATION MAP INDEPENDENCE PROPERTY

Fig 1

the claim is by foot.

The claim covers a steep easterly facing slope over looking the Tahsis River. Elevations vary from 30 meters at the river to over 1000 meters at the western property boundary.

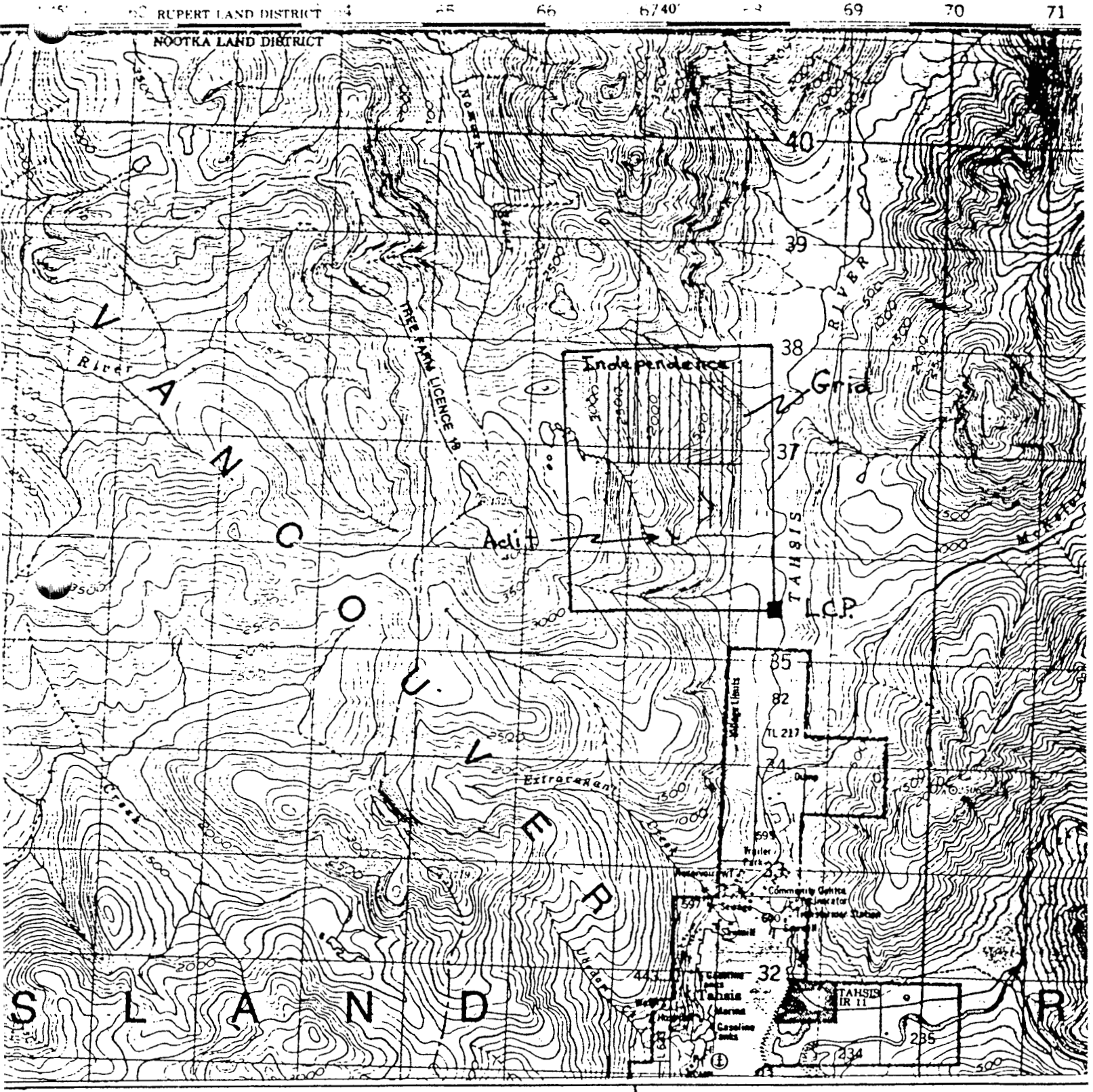
Vegetation is dense, consisting of mature stands of cedar, fir and hemlock on the upper slopes and dense second growth alder, cedar and hemlock in the Tahsis River Valley. The Tahsis area receives heavy precipitation, close to 500 centimeters per year.

3) Ownership

At the time of the writers examination the Independance property consisted of a single mineral claim located under the British Columbia Modified Grid System.

Claim Name	# of units	Record #	Expiry Date
Independance	20	3097	1/5/88

All interest in the above described claims are held by North American Ventures Ltd.



INDEPENDENCE PROPERTY

CLAIM LOCATION

Scale I:50,000

0 3000 m

Fig 2

NTS 92E I5E

The legal corner post and claim lines of the Independence claim observed during the course of the writer's examination conformed to the regulations of the British Columbia Mineral Act.

4) History and Previous Work

The Independence property occurs in the Zeballos Gold Camp, one of the Canadian Cordillera's important gold producing areas. (Economic Geology Report # 1)

The area has a long history of exploration, development and mining dating back to the early 1900's, when placer gold was discovered in the Zeballos River (Holland 1950).

In 1924, the discovery of gold-bearing quartz veins on the Tagore property sparked a flurry of exploration activity which lead to the discovery and staking of over 40 gold prospects. By 1934, shipments of high-grade gold ore had been made from several properties to smelters in Trail and Tacoma. In 1936, the Privateer Mine was discovered and by 1939 a mill had been built and the mine was in full production. Over twenty other properties were under development or in production by 1940.

Production from the Zeballos Gold Camp continued until 1943 when the mines were closed due to labour shortages (Hoadley 1950). In 1945, the Privateer Mine was reopened and ran until 1948 when low-gold prices ($35 per ounce)

combined with rising costs caused closure. (Hoadley 1950).

Total lode gold production up to 1948 from the Zeballos Gold Camp is reported by the B.C. Department of Mines to be 287,811 ounces from 651,000 tons mined giving an average ore grade of 0.44 oz per ton. The bulk of the production was from the Privateer Mines which produced 154,381 ounces from 278,771 tons mined. Production from the various mines in the Zeballos Camp is summarized by J.F. Stevenson of the B.C. Department of Mines as follows:

Mine	Production Ounce of Gold
Privateer	154,381
Spud Valley	54,039
Mount Zeballos	30,525
Central Zeballos	20,472
Prident	13,937
White Star	7,081
Others	7,387
	287,811

From 1948 until 1980, the area was sporadically explored by various companies and individuals. In 1983, New Privateer Mines Ltd. began re-evaluating the Privateer Mine, and planned to place the property back into production. Current reserves of the Privateer Mine are reported by New Privateer to be in the order of 135,000 tons grading 0.267 oz per ton gold. Elsewhere in the Zeballos area, the Spud Valley property, situated 12 kilometers northeast of the Independance property, is being explored by McAdam Resources. McAdam Resources report a reserve of 429,990 tons grading 0.25 oz per ton

(B.C. Mineral Exploration Review 1986).

The first reported work on what is now the Independance claims was in 1938 when William Elliot, William Hamilton and George Hatlow staked claims in the area. Bralorne Mines optioned the claims and explored the gold showings with a series of open cuts and a 150 meter adit. Bralorne Mines relinquished their option in 1939. Since 1939, the vicinity of the workings has been staked by numerous individuals but no reported exploration of the property has occured.

5) Economic Considerations

The Independance property is linked to the village of Tahsis by 4 kilometers of gravel road. The infrastructure at Tahsis could support development in the Independance area. Electrical power is available in Tahsis and a reliable supply of water is available from the Tahsis River. There is adequate are on the Independance property for both waste and/or tailings disposal.

C) GEOCHEMISTRY

During May 1987, Renegade Minerals Exploration Ltd., prepared a grid and collected 290 soil samples at 100 meter intervals along east/west oriented lines spaced 50 meters apart over the central portion of the Independance

claim. Unfortunately, due in part to the dense forest cover and in part to initial confusion over the precise location of the adit, Renegade Minerals positioned the grid to the east of the known gold mineralization. As a result, the soil lines were stopped short of the old workings.

At each station, a sample of "B" horizon soil was collected using a Polaski tool and placed in a labeled Kraft envelope. THE SAMPLES WERE TAKEN FROM A DEPTH OF 15 TO 30 CM. All of the soil samples were sent to Vangeochem Labratories Ltd. in North Vancouver where they were analysed by atomic absorption for gold, silver, copper and zinc. Results of sample analyses were statistically analysed to determine the anomalous levels for each element. Since silver, copper and zinc values displayed a lognormal distribution, statistical manipualtions were carried out on the logrithms of the values. Anomalous levels for the elements were taken at mean plus two standard deviations.

Elements	Mean	Anomalous
Gold (ppb)	N.D.	N.D.
Silver (ppm)	0.1	0.9
Copper (ppm)	40	240
Zinc (ppm)	27	120

All the gold, copper, silver and zinc values were plotted on figure 3. Silver, copper and zinc values displayed distinctly anomalous populations and are plotted

on figures 6 through 8, respectively. Analytical results for all of the elements are provided in Appendix I.

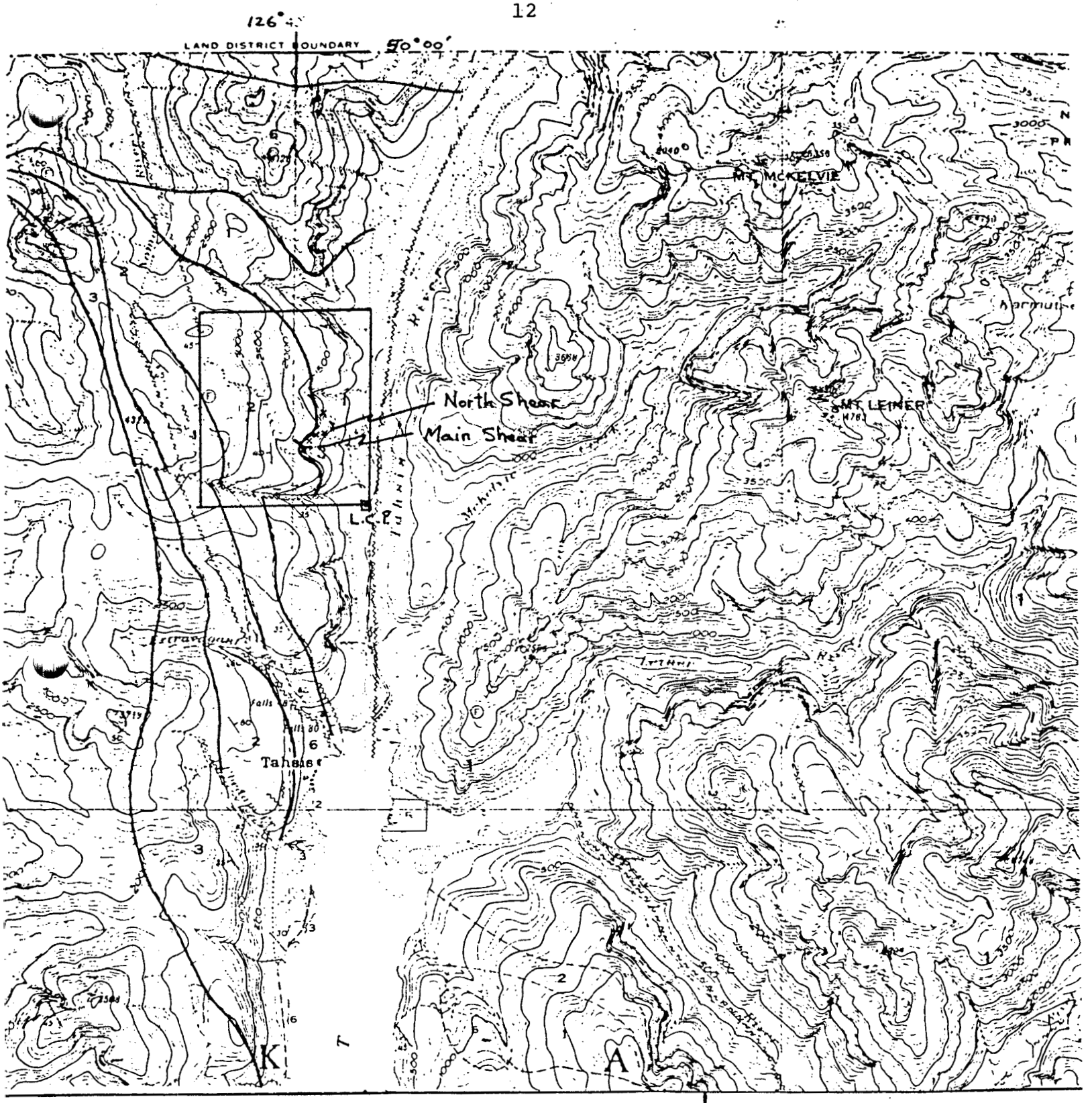
SILVER

Analytical silver results from the soil samples show six separate areas of the grid to be anomalous for silver. The location of the anomalous areas are displayed on figure 6. On the six anomalies, 3 are multisample anomalies with dimensions up to 100 meters by 100 meters. The other 3 anomalies consist of single samples. Silver values in the anomalies are up to 2.1 ppm.

The source of the anomalous silver levels in these areas is unexplained. Since silver occurs in the known veins on the property, it is possible that these silver soil anomalies are caused by mineralized veins concealed beneath overburden. Evaluation of the silver anomalies will require detailed prospecting and more closely spaced soil sampling.

COPPER

The soil sampling revealed seven anomalous areas of the grid (Fig. 7). One anomaly, having 528 ppm copper occurs in the vicinity of a gold bearing vein known as The North Shear. The remaining 6 anomalies are unexplained. No sulphide mineralization, which would account for these values was noted during sampling. As copper occurs in the gold-bearing veins, these anomalous values may caused by overburden covered auriferous veins.



Geology by J.W. Headley, 1947, 1948, 1949

6...Granodiorite
3...Bonanza Formation
2...Quatsino Formation
I...Karmutsen Formation

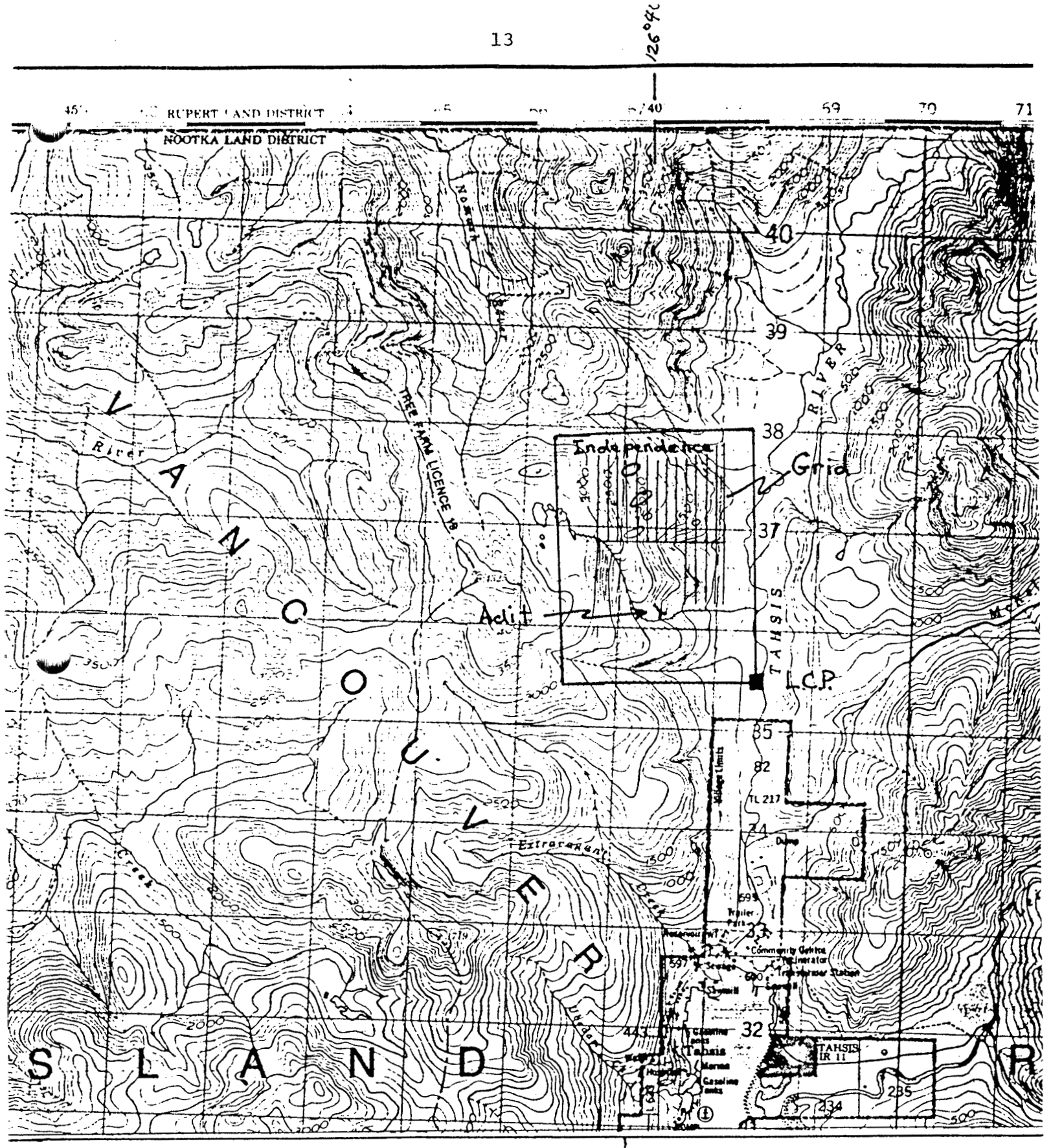
Scale: One Inch to One Mile = $\frac{1}{63,360}$

Miles

INDEPENDENCE PROPERTY
GEOLOGY

NTS
93 E/5E

Fig. 5



N

.... Silver Anomaly

Scale 1:50,000

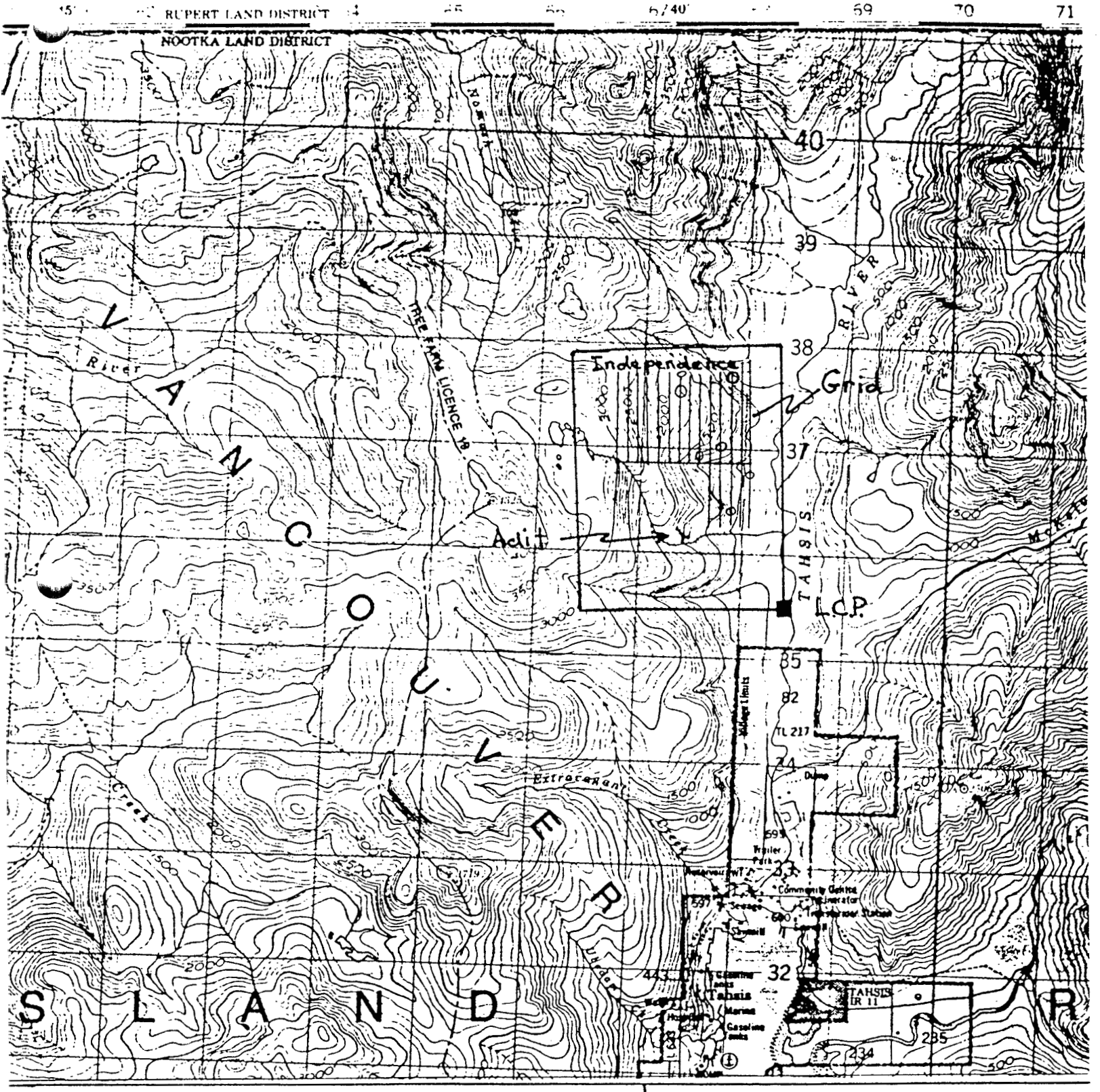
0 3000 m

INDEPENDENCE PROPERTY

GEOCHEMICAL COMPILATION

SILVER

NTS 92E I5E Fig 6



o .. Copper Anomaly

Scale 1:50,000

0 3000 m

INDEPENDENCE PROPERTY

GEOCHEMICAL COMPILATION

COPPER

Fig 7

NTS 92E I5E

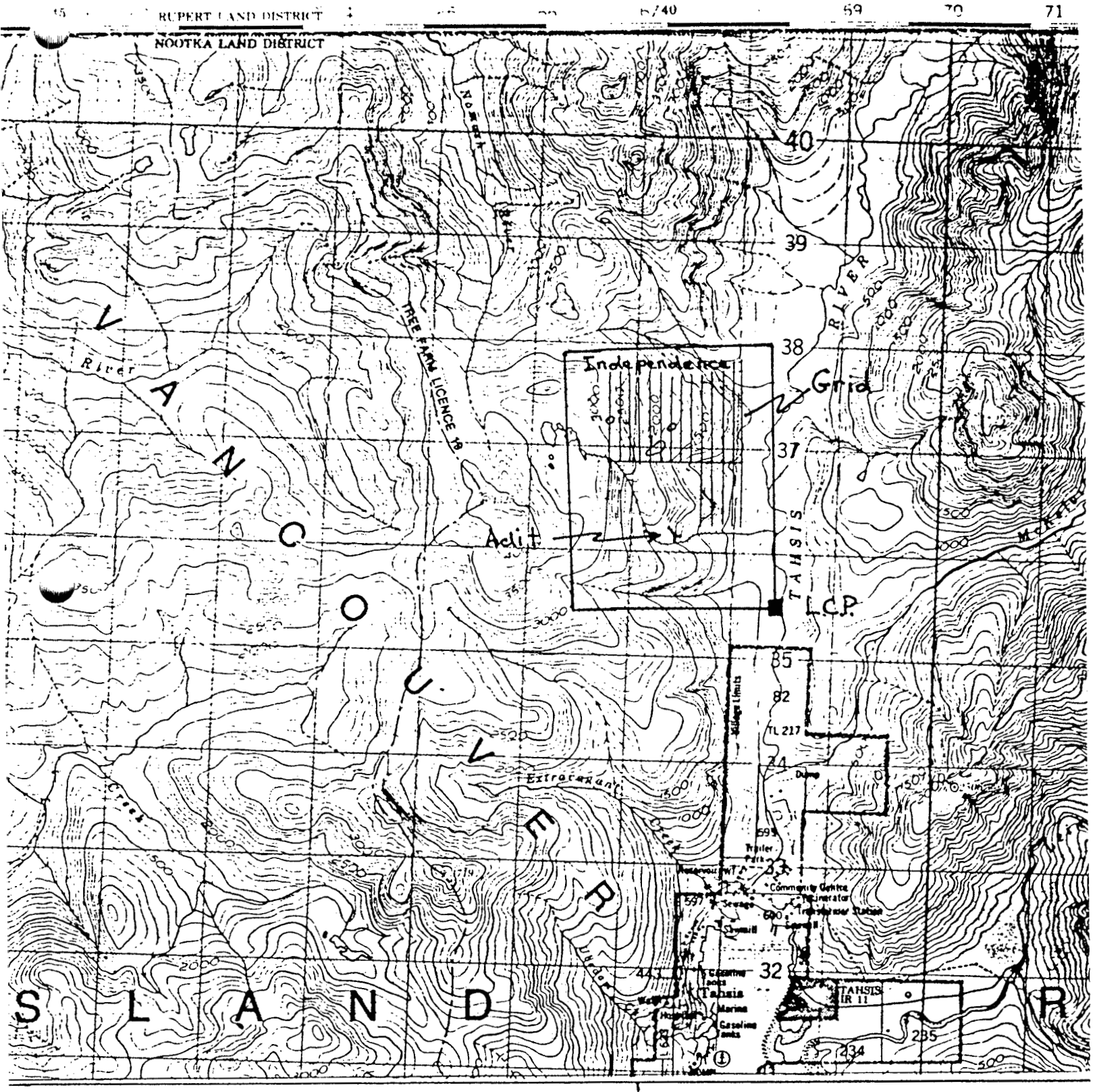
Investigations of these anomalous values to locate the source of the high copper will require detailed prospecting, rock and soil sampling.

ZINC

Three separate zinc anomalous areas of the grid were outlined by soil sampling (Fig. 8). The largest anomalous area measures 150 meters by 50 meters and has zinc values to 375 ppm. The other two anomalies consist of single samples. Like silver and copper, the source of the anomalous levels of zinc is unexplained. Since zinc is known to occur with gold in the veins on the property, it is possible that the anomalous zinc in soil caused by gold-bearing veins. Evaluation of the anomalous zinc requires detailed prospecting and rock sampling to determine its source.

D) GEOPHYSICS

A limited geophysical program of very low frequency (VLF) electromagnetic (EM) and magnetometer surveying was carried out over the Independence property. The purpose of the VLF-EM survey was to determine its' usefullness in identifying faulty or shear structures which might host gold mineralized vein systems. The magnetometer survey was carried out ot test its ability to assist in mapping rock types. It was hoped the magnetometer survey could be used to trace the contact between The Quatsino and Karmutsen Formations.



O ..... Zinc Anomaly

Scale 1:50,000

0 3000 m

INDEPENDENCE PROPERTY
GEOCHEMICAL COMPILATION
ZINC

Fig 8

NTS 92E I5E

1. Survey Procedure

The VLF EM 16 survey readings were taken at 50 meter intervals along north-south lines in the eastern portion of the geochemical grid. Care was taken in regard to technique to attempt to compensate for the steep terrain present on the property. All readings were taken facing approximately perpendicular to the transmitting station at Seattle, U.S.A.

The magnetometer survey was carried out along the same grid line used for the VLF EM survey. To compensate for diernal drift, readings were taken at timed intervals along "looped" traverses in which the initial station of the traverse was re-read at the end of the traverse to determine the magnetic drift. The magnetic drift was calculated and then applied as a correction to the raw data.

2. Compilation of Data

The VLF EM readings were reduced by applying The Fraser Filter and plotted at a scale of 1:2500 (Fig. 4) Filtered data, as shown on the accompanying map, is plotted between reading stations. The positive filtered values were contoured.

The Fraser Filter is essentially a 4-point difference operator which transforms zero crossings into peaks, and a

low pass smoothing operator which reduces the inherent high frequency noise in the data. Another advantage of this filter is that a conductor does not show up as a cross-over on the unfiltered data.

The magnetic data, upon correction for diernal drift was plotted at a scale of 1:2500 on figure 4.

3. Instrumentation and Theory

A standard Geonics VLF EM 16 was used for the VLF EM survey. This instrument is designed to measure the magnetic component of a very low frequency (VLF) electomagnetic field. The U.S. Navy submarine transmitter located in Seattle and transmitting at 24.8 KHZ was used.

In all electromagnetic exploration, a transmitter produces an alternating magnetic field (primary) with a strong alternating current usually through a wire coil. If a conductive mass, such as a sulphide body is within this magnetic field a secondary alternating current is induced within which, inturn induces a secondary magnetic field that distorts the primary magnetic field. It is this distortion that the VLF EM receiver measures. The VLF EM uses a frequency range from 16 to 24 KHZ whereas most EM instruments use frequencies ranging from a few hundred to a few thousand HZ. Because of its relatively high frequency, the VLF EM can pick up bidies of too low conductivity for the other EM methods to pick up. Also, since the

signal derives from an infinite source, faults of great horizontal and verticle extent give particularly strong anomalous responses.

Consequently, the VLF EM has additional uses in mapping structure and in detecting sulphide bodies of too low a conductivity for conventional EM methods and too small for induced polarization. However, its sensitivity to lower conductive bodies makes VLF EM susceptable to claybeds, electrolyte-filled fault-shear zones and porous horizons, graphite, carbonaceous sediments, lithological contacts, as well as low-condutive sulphide bodies. This susceptibility to lower conductive bodies results in a number of anomalies, many of them difficult to explain and thus VLF EM perferably should not be interpreted without good geological knowledge of the property and/or other geophysical and geochemical surveys.

The TOTAL FIELD magnetic survey utilized a Scintrex MP-2 precession instrument. This instrument measures the magnetic component of the rock. The technique is useful in distinguishing between rocks with magnetic minerals and those lacking in them and in locating magnetic sulphide mineralization. Magnetometer surveys are a useful tool in assisting geological mapping in overburden covered areas where rock-types have contrasting magnetic signitures or in locating

mineral deposits where there is a significant content of magnetic minerals.

4. Results

Plotting and contouring of the positive Fraser Filter VLF EM values showed a number of east-west trending conductors in the southern area of the grid. One of these conductors is co-incident with a known shear-hosted vein and a copper soil anomaly. The remainder of the VLF anomalies are unexplained and will require geological mapping to determine their cause.

The magnetometer survey showed the magnetic relief to be in the order of 3500 gammas. However, because of the limited extent of the survey and the wide spacing of the lines, no meaningful trend could be identified.

The VLF EM and Magnetometer surveys should be extended to cover the entire grid. Also, the current surveys readings were obtained from widely spaced stations. It would greatly assist interpretation of the geophysical data if readings were collected at closer spacings of no greater than 25 meters on 50 meter spaced lines. Interpretation of the data would also benefit from a better knowledge of the geology.

E) GEOLOGY

1. Regional Geology

Geologically, the Independence property lies in Insular

Belt, a northwest trending, Paleozoic to Cenozoic - age assembledge of sedimetary, volcanic and intrusive rocks underlying Vancouver Island and The Queen Charlotte Islands.

The vicinity of the Independence property is underlain by a volcanic and sedimentary rocks of the late Triassic to early Jurassic-age Vancouver Group. The Vancouver Group is divisible into three distinct formations, which are from oldest to youngest: The Karmutsen Formation, The Quatsino Formation and The Bonanza Formation.

The Karmutsen Formation is a thick sequence of pillowed and porphyritic basalt with intercalated pillow breccia and tuff, and minor argillite and quartzite. Estimated thickness of this formation vary from 1500 meters to 7600 meters.

Conformably overlying The Karmutsen, is The Quatsino Formation, consisting of sequence of limestone up to 1000 meters in thickness.

The Quatsino Formation is inturn overlain conformably by The Bonanza Formation. The Bonanza Formation consists of lower sedimetary member and an upper volcanic member. The sedimentary member is composed of shale and graywacke while the upper member consist primarily of dacitic to andesitic lavas, tuff and breccias. Total thickness of The Bonanza Formation may be as much as 3000 meters.

The Vancouver Group rocks have been gently folded along

north-north westerly trending axis and disrupted by large-scale block faulting.

Intrusive into the Vancouver Group rocks are granodiorite to quartz-diorite of the mid Jurassic Zeballos Batholith. The Zeballos Batholith forms an easterly trending batholith 7 kilometers long by up to 2 kilometers wide.

2. Property Geology

Detailed geological mapping of the Independence property has not been carried out, and the following geological description is based on 1:50,000 scale geological mapping of the area by J.W. Hoadley of The Geological Survey of Canada and published as GSC Map 1027 (J.W. Hoadley 1950). Rock outcroppings observed during the course of the field examination confirmed the geology mapped by J.W. Hoadley.

The property straddles the northerly trending, moderately dipping contact between the underlying Karmutsen and overlying Quatsino Formations. On the property, the Karmutsen rocks are predominately massive to porphyritic andesite flows and dykes with occasional tuffaceous beds. These volcanic rocks are weakly chloritized and cut by calcite and epidote veinlets. The Quatsino limestone consists of massive to thickly bedded white and medium gray limestone.

Approximately one kilometer north of the claims, The Karmutsen rocks are in contact with granodiorite of The Zeballos Batholith.

3. Mineralization

The following description of gold and silver mineralization in The Zeballos Gold Camp is summarized from B.C. Department of Mines Bulletin 27 entitled Geology and Mineral Deposits of the Zeballos Mining Camp by J.F. Stevenson.

In the Zeballos Gold Camp, over 287,000 ounces of gold and 124,700 ounces of silver were produced from narrow quartz-sulphide filled, well defined fissures (Stevenson 1950). Although rarely exceeding 30 centimeters in thickness, these veins maintain a fairly uniform strike and dip over considerable distances. Locally the quartz and sulphide fillings are absent and only sheared rock is present. The walls of the veins are sharp and usually are marked by a thin seam of gouge. Often the veins occur in sheeted zones to 1.2 meters wide which may change along strike into a narrow shear containing lenticular quartz veins.

The veins consist of sulphides and gold in a gangue of quartz and lesser calcite. Sulphides form 10% to 50% of the vein and consist of pyrite, sphalerite, arsenopyrite, chalcopyrite, galena and pyrrhotite. Gold occurs in its native form and visible gold is commonly observed in the veins.

The veins occur in both the Vancouver Group rocks and The Zeballos Intrusive, however, most of the gold was produced from veins cutting andesite. Alteration of the host rock is restricted to the immediate walls of the vein and

seldom extends for more than 15 centimeters from the veins. Where the veins cut andesite, the wall rock is altered to a felted mass of sericite and carbonate while in the granodiorite, alterations consists of sericitization. Limestone wall rock is generally unaltered.

Gold mineralization on the Independence property occurs in westerly trending, steeply dipping shear zones cutting andesitic, fine grained flows near their contact with overlying limestone of The Quatsino Formation. Two separate, parallel shears are present and are named the Main Shear and the North Shear zones.

The Main Shear varies in width from 2 meters to less than 30 centimeters and contains lenticular-shaped veins of quartz. The quartz veins, like others in the Zeballos Camp, rarely exceed 60 centimeters in thickness and are variably mineralized with pyrite, chalcopyrite and sphalerite. Total sulphide content ranges from traces to greater than 50% and averages 5%. The Main Shear has been explored by a 150 meter long adit and a few open pits. Results of Bralorne Mines Ltd. sampling of the adit were not available to the writer, however, eleven grab samples were collected from various places in the adit by Hoadley and was reported in Geological Survey of Canada Memoir 272 assayed up to 0.19 ounces per ton gold and averaged 0.02 ounces per ton. A surface channel across an undisclosed width assayed 1.18 ounces per ton

and 0.47 ounces per ton silver. Five grab samples were taken from the portal area of the adit by an employee of Renegade Mineral Explorations and are summerized below:

Sample #	Location	Description	Gold opt.	Silver opt.
1016	Back	Quartz	0.024	0.01
1017	Wall	Quartz	0.014	0.14
1018	Wall	Quartz & sheared andesite	0.064	0.03
1019	Wall	Sheared Andesite	0.128	0.05
1020	Wall	Sheared Andesite	0.528	0.10

The Main Shear remains untested to depth and is open on strike both to the east and west. The soil sampling grid did not extend far enough to the west to cover the zone. Further detailed soil sampling in conjunction with sampling of the working and hand-trenching of the projected strike extensions is warranted.

The North Shear zone is two meters wide and hosts two separate 15 to 30 centimeters thick quartz veins. The quartz veins are sparsely mineralized with pyrite and chalcopyrite which form selvedges along the vein walls. The North Shear has been exposed in an opencut and is traceable on a bluff for 10 meters before disappearing under overburden.

Soil sampling results from the North Shear zone showed a single sample to contain 528 ppb copper. The widely spaced sample (100 meters by 50 meters) sites in combination with the narrow widths of the shear zone (less than 2 meters) make it possible that the copper anomaly may be of greater extent. To properly trace the North Shear by geochemical

techniques will require close-spaced sampling (10 meter intervals) along northerly oriented lives spaced no more than 25 meters apart. The strike extent of the vein could also be traced by hand-excavated trenches.

The writer collected two samples from the open cut on the North Shear Zone. Results of the sampling are summerized below:

Sample #	Type of Sample	Description	Gold oz per ton
11-1	channel (1m)	shear 0 to 1m west	0.001
11-2	channel (1m)	shear 1 to 2m west	0.036

DISCUSSION

The recent exploration program carried out on the Independence property has verified the presence of shear hosted quartz veins containing gold values up to 0.528 ounces per ton and confirmed the gold values reported by Hoadley in GSC Memoir 272.

The style of mineralization, alteration and geological setting of the Independence veins are virtually identical to the other vein systems in the Zeballos camp from which over 280,000 ounces of gold were produced. It is interesting to note that the Privateer Mine, which produced over 154,000 ounces, like the Independence property occured in andestic volcanic rocks.

In addition to the known gold mineralization on the Independence property, numerous copper, silver and zinc

soil anomalies are present. The cause of these anomalies has not been identified. Each of these anomalous areas may be caused by gold-bearing vein systems concealed beneath overburden. Further prospecting and sampling is required to evaluate anomalous areas.

The Independence property, therefore, has a good potential to host a high-grade vein-type gold-silver deposit similar to that present on the Privateer property. Future exploration of the Independence property should be designed to outline a gold deposit in narrow shear-hosted veins having a reserve in excess of 150,000 tons grading 0.4 ounces per ton.

RECOMMENDATION

A two phase exploration program is recommended to evaluate the Independence property for vein-type gold deposits. The Phase Two program would be contingent upon the success of the initial Phase One program.

Phase One

Phase One would be a comprehensive program of 1:5000 scale geological mapping, prospecting, detailed soil sampling and VLF EM surveying, rock-chip sampling and hand trenching.

Geological mapping should be carried out over the entire property and should focus on structural interpretating. A better understanding of the geology would help interpretation of both VLF EM and soil sampling results. Prospecting should be focused in the areas of known mineralization

and in the soil anomalies. Detailed and fill in soil sampling is recommended for the vicinity of the showings and to better define the areas highlighted by anomalous silver, copper and zinc. A similar recommendation for additional VLF EM surveying is also made. Both soil sampling and detailed VLF EM surveying should be carried out in intervals no more than 15 meters apart along lines spaced less than 25 meters apart. The adit on the Main zone and the North Shear should be geologically mapped at a scale of 1:200. Concurrently with detailed mapping, both showings should be rock-chip and channel sampled to establish the gold and silver grade. Hand trenching of the projected strike extentions of both shear zones should be carried out.

PHASE ONE COST ESTIMATE

Anaylses 300 rock, 1500 soil	$12,300
Labour 90 days @ $120/day	10,800
Geologist 30 days @ $120/day	6,000
Food & Accomodation 120 days @ $45/day	5,400
Supplies	1,000
Truck	1,000
Fuel	200
Expediting	200
Supervision & Reporting 10 days @ $400/day	4,000
Contingencies	4,000
TOTAL	$44,900

Phase Two

Contingent on successful results of the Phase One program it is recommended that mineralized zones, outlined by Phase

One be tested with 500 meters of Nq-sized diamond drilling.

PHASE TWO COST ESTIMATE

Analyses	$ 500
Drilling 500m @ $90/meter (all up)	45,000
Helicopter 40 hours @ $550/hour	22,000
Geologist 20 days @ $200/day	4,000
Assistant 20 days @ $120/day	2,400
Accomodation 40 days @ $45/day	1,800
Truck	800
Fuel	150
Supplies	200
Supervision & Reporting 10 days @ $400/day	4,000
Contingencies	8,000
TOTAL	$80,000

Total Phase One & Two	$125,750

John A. McClintock, P.Eng.

REFERENCES

British Columbia Mineral Exploration Review 1986, Ministry of Energy, Mines and Petroleum Resources p

Geological Survey of Canada (1950) ; Map 1027

Hoadley J.W., (1950), Geology and Mineral Deposits of the Zeballos - Nimpkish Area, Vancouver Island B.C., Geological Survey of Canada Memoir 272

Stevenson J.F., (1950), Geolgy and Mineral Deposits of the Zeballos Mining Camp, British Columbia, B.C. Department of Mines Bulletin 27.

Holland S.S., (1950), Placer Gold Production of British Columbia, B.C., Ministry of Energy, Mines and Resources. Bulletin 28 p

Geological Survey of Canada, (1981), Economic Geology Report No. 1 Geology and Economic Minerals of Canada.

CERTIFICATION

I, John A. McClintock, of 32841 Ashley Way, in the municipality of Matsqui, in the province of British Columbia, hereby certify as follows:

1) That I am a registered member of the Association of Professional Engineers of British Columbia - No 12078 - 1980;

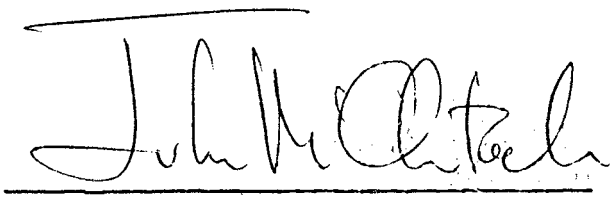
2) That I am a graduate from the University of British Columbia with a Bachelor of Science degree (honors) geology in 1973;

3) That I have practised my profession continuously since graduation;

4) That I have no interest directly or indirectly in the Independance Property nor do I own directly or in indirectly, any shares of North American Ventures Ltd.;

5) That the information contained in this report is based on a one day examination of the Independance claim on July 11, 1987, review of geochemical and geophysical data supplied by J. Paul Stevenson and Associates Ltd. and a review of all available government maps and reports;

6) That I consent to the use of this report by North American Ventures Ltd. in a Prospectus or Statement of Material Facts or any such document as may be required by the Vancouver Stock Exchange or the Office of the Superintendant of Brokers.



John A. McClintock, P.Eng.

59+25	+6	-8
59+00	+7	-6
+75	+8	-2
+50	+2	0
+25	0	0
58+00	-2	-8
+75	+2	-2
+50	0	-2
+25	+1	-4
57+00	+1	-1
+75	-1	+6
+50	0	+4
+25	+2	+9
[illegible]	+3	+4
[illegible]	+2	+3
+50	0	+4
+25	-1	+2
[illegible]	[illegible]	[illegible]
+75	0	
+50	0	
+25		
54+00		

L-56W @ 1' ⊃ N-N/S Rod

L56W

Station	Increase	F	F	Quad	Note
61+00 N	+2			+2	
60+75	+2			+4	
60+50	+4			0	
60+25	+6			-4	
60+00	+1			-4	
59+75	+4			-8	
+50	+3			-6	
+25	0			-6	
59+00	0			-2	
+75	-3			-4	
+50	-3			-2	
+25	-2			+4	
58+50	-2			+6	
+75	-1			+3	
+50	-2			+5	Rod
+25	-3			+4	
57+00	-2			+3	
+75	-2			+8	
+50	-1			+4	

62+00 N			62+00 N		
50+00	49	+16	44+25	26	+16
49+75	39	+16	44+00	22	+17
49+50	37	+13	43+75	22	+14
49+25	47	+11	43+50	23	+16
49+00	40	+14	43+25	19	+13
48+75	42	+15	43+00	20	+16
48+50	40	+13	42+75	20	+18
48+25	34	+15	42+50	22	+19
48+00	38	+13	42+25	20	+19
47+75	38	+12	42+00	20	+17
47+50	38	+12	41+75	19	+18
47+25	38	+7	41+50	16	+19
47+00	35	+12	41+25	18	+18
46+75	35	+13	41+00	18	+14
46+50	30	+12	40+75	14	+12
46+25	35	+12	40+50	14	+11
46+00	33	+13	[illegible]	12	+14
45+75	34	+13			
45+50	36	+14			
45+25	35	+16			
45+00	27	+16			
44+75	27	+17			
44+50	25	+16			

50+00	19	+16	[illegible]	17	[illegible]
49+75	18	+18	44+00	16	+15
49+50	20	+12	43+75	16	+13
49+25	20	+13	43+50	16	+16
49+00	18	+14	43+25	16	+16
48+75	17	+13	43+00	16	+13
48+50	17	+13	42+75	15	+15
48+25	17	+16	42+50	17	+15
48+00	16	+13	42+25	17	+20
47+75	14	+16	42+00	18	+16
47+50	17	+16	41+75	16	+15
47+25	20	+14	41+50	16	+17
47+00	17	+13	41+25	17	+20
46+75	18	+15	41+00	26	+23
46+50	19	+15	40+75	15	+31
46+25	21	+16	40+50	13	+20
46+00	18	+13	40+25	13	+22
45+75	17	+15	40+00	13	+22
45+50	17	+13	39+75	17	+18
45+25	17	+11	39+50	24	+16
45+00	16	+12			
44+75	24	+16	39		
44+50	16	+16			

20	+19
18	+18
18	+18

E. M. June 29/07, Gdhu
THESIS. L 57N, 4,55,53.
E. M.

457 W

STN N	IN PHASE	F	F	Quad	Notes
61+00	+3			+2	
60+75	+4			+4	
+50	+2			-2	
+25	+5			-2	
+00	+2			+4	
59	+2			-2	
+50	+5			-6	
+25	+4			-2	
59+00	+3			+2	
+75	+3			+2	
+50	+4			-1	
+25	+4			-1	
58+00	+5			+1	
+75	+4			+4	
+50	+2			+6	
+25	+4			+6	
57	+4			+4	
+75	+2			+4	
+50	+5			+2	

25	+2		-4
50	-7		-2
75	-5		-2
62+00N	-5		-3
25	-3		-2
50	-3		-4
75	-14		-3
63+00N	-9		0
25	-8		+2
50	-3		-1
75	-5		-2
64+00N	-7		-5
25	-7		-4
50	-6		-4
75	-3		-1
65+00N	-3		+3
25	-2		+2
50	-2		+1
75	[illegible]		-2
66+00N	-5		-6
25	-		-6
50	-10		-5

25	+5		-2
50	+5		-6
75	+5	8	-
62+00N	+2		-10
25	+3		-9
50	+1		-8
75	-2		-9
63+00N	0		-8
25	-6		-10
50	+6		-12
75	+6		-11
64+00N	+7		-12
25	+6		-13
50	+4		-14
75	+5		-13
65+00N	+4		-14
25	+3		-15
50	-1		-13
75	-1		-12
66+00N	-2		-0
25	-4		-13
50	-5		-16
75	-10		-19

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

STN N	IN PEAKE	I	N	QUAD	LEVEL A
667 75N	-5			-7	
671 00N	-8			-10	
25	-6			-12	
50	-9			-11	
75	-5			-14	
68 00N	-2			+14	
25	-3			-18	
50	-5			-11	
75	+4			-12	
69 00N	-2			+11	Unmark
25	-4				
50					
75					
70 00N					
25					
50					
75					
71 00N					

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

N 59N			N 58+00
50+00	23	+15	44+25
49+75	22	+16	44+00
49+50	21	+14	43+75
49+25	23	+16	43+50
49+00	24	+15	43+25
48+75	25	+13	43+00
48+50	25	+13	42+75
48+25	25	+16	42+50
48+00	24	+13	42+25
47+75	26	+14	42+00
47+50	26	+16	41+75
47+25	29	+14	41+50
47+00	27	+13	41+25
46+75	26	+13	41+00
46+50	27	+12	40+75
46+25	29	+10	40+50
46+00			40+25
45+75			40+00
45+50			
45+25			
45+00			
44+75			
44+50			

R D PENHALL LTD. MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

67+00N	-30	-25
25	-25	-18
50	-23	-18
75	-22	-17
68+00N	-25	-21
25	-17	-20
50	-12	-16
75	-11	-14
69+00N	-8	-20
25	-9	-21
[illegible]	-8	-18
75 70+00	-5 +2	-18 -15
25	[illegible]	-3
50	+11	-8
75	+18	-1
71+00N	+20	+2

R D PENHALL LTD. MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

56+25	+4			+6
56+00	+3			+8
+75	+2			+2
+50	+3			+4
+25	+5			+10
55+00	+4			+2
+75	+2			+3
+50	+5			+6
+25				
54+00				
L55W				
Station	IN PHASE	F	F	QUADNOLC
61+00N	+2			0
+75	+2			-6
+50	+2			-10
+25	+1			-6
60+00	+1			-10
+75	0			-6
+50	+2			+8
+25	+1			-8
58+00	+2			-6
+75	+1			-2

ROCK BLUFF

E.M. TAHSIS

L. 57W – 61+00N – 71+00N

Station	INPHASE	F	F	QUAD	Note
61+00N	+1			0	
61+25	+4			+4	
+50	+2			+4	
+75	+3			+6	
62+00	+6			+8	
+25	+6			+8	
+50	+8			+8	
+75	+8			+9	
63+00	+9			+10	
+25	+8			+9	
+50	+8			+12	
+75	+10			+9	
64+00	+9			+10	
+25	+13			+9	Rock out crop
+50	+15			+6	
+75	+14			+4	
65+00	+18			-1	Rock
+25	+15			0	
+50	+21			0	

Station	INPHASE	F	F	QUAD	Note
56+00	-3			+6	
+75	-4			+6	
+50	-3			+5	
+25	-1			+6	
55+00	0			+2	
+75	-1			+5	
+50	-2			+6	
+25					Creek
54+00					

L.58W

Station	INPHASE	F	F	QUAD	Note
61+00	+6			-4	
60+75	+5			-2	
+50	+6			-4	
+25	+6			-1	
60+00	+2			-3	
+75	+1			0	
+50	+3			-4	
+25	+5			-4	
59+00	+4			-3	
+75	+2			-4	
+50	+5			-6	

L 55W

Station	IN Phase	F	F	Quad.	Note
58+50	+3			0	
+25	+1			-2	
58+00	0			-1	
+75	0			-2	
+50	-4			-3	
+25	+3			+2	Rock Bluffs
57+00	+2			-2	
+75	+4			0	
+50	+5			-2	
+25	+3			12	
56+00	+2			+4	
+75	+3			+5	
+50	+3			+4	Rock
+25	+3			+2	
55+00	+2			+6	small Creek
+75	+2			+10	
+50	-4			+8	
+25				+6	
55+00					

VGC

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

ASSAY ANALYTICAL REPORT

CLIENT: RENEGADE MINERAL EXP. SER
ADDRESS: 300-800 W. Pender St.
: Vancouver, B.C.
: V6C 2V8

DATE: July 24 1987
REPORT#: 870793 AA
JOB#: 870793

PROJECT#: INDEPENDENCE
SAMPLES ARRIVED: July 21 1987
REPORT COMPLETED: July 24 1987
ANALYSED FOR: Ag Au

INVOICE#: 870793 NA
TOTAL SAMPLES: 5
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 5 ROCK

SAMPLES FROM: RENEGADE MINERAL EXP. SER
COPY SENT TO: RENEGADE MINERAL EXP. SER

PREPARED FOR: RENEGADE MINERAL EXP. SER

ANALYSED BY: David Chiu

SIGNED: _____

Registered Provincial Assayer

GENERAL REMARK: None

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870793 AA JOB NUMBER: 870793 RENEGADE MINERAL EXP. SER

SAMPLE #	Ag oz/st	Au oz/st
01016	.01	.024
01017	.14	.014
01018	.03	.064
01019	.05	.128
01020	.10	.528

Intrusive Acid Rock

DETECTION LIMIT .01 .005

1 Troy oz/short ton = 34.28 ppm 1 ppm = 0.0001% ppm = parts per million < = less than

signed: _____

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870480 GA JOB NUMBER: 870480 **RENEGADE EXPL. SERV. LTD.**

SAMPLE #	Au ppb
L53W 54+00N	40
L53W 54+50N	10
L53W 55+50N	nd
L53W 56+50N	10
L53W 57+00N	10
L53W 57+50N	10
L53W 58+50N	5
L53W 59+50N	5
L53W 60+00N	10
L53W 60+50N	5
L54W 54+50N	5
L54W 55+50N	5
L54W 56+00N	50
L54W 56+50N	5
L54W 57+00N	15
L54W 57+50N	5
L54W 58+00N	10
L54W 59+00N	10
L54W 59+50N	5
L54W 60+00N	5
L54W 60+50N	15
L55W 54+00N	10
L55W 54+50N	40
L55W 55+00N	5
L55W 55+50N	10
L55W 56+00N	10
L55W 56+50N	20
L55W 57+00N	10
L55W 59+00N	5
L55W 58+50N	15
L55W 59+00N	5
L55W 59+50N	10
L55W 60+50N	15
L56W 55+00N	10
L56W 55+50N	nd
L56W 57+00N	10
L56W 58+00N	10
L56W 60+00N	5
L56W 60+50N	30
DETECTION LIMIT	5

nd = none detected -- = not analysed is = insufficient sample

VGC

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

SAMPLE #	Au ppb
L61W 61+00N	5
L61W 61+50N A	5
L61W 61+50N B	5
L61W 62+50N	nd
L61W 63+00N	nd
L61W 63+50N	nd
L61W 64+00N	15
L61W 64+50N	10
L61W 65+00N	nd
L61W 65+50N	10
L61W 66+00N	5
L61W 66+50N	5
L61W 67+00N	15
L61W 67+50N	5
L61W 68+50N	5
L61W 69+50N	15
L61W 70+00N	10
L61W 70+50N	10
L61W 71+00N	5
L62W 61+00N	5
L62W 61+50N	5
L62W 62+00N	nd
L62W 62+50N	nd
L62W 63+00N	nd
L62W 63+50N	nd
L62W 64+00N	5
L62W 65+00N	10
L62W 66+00N	nd
L62W 67+50N	nd
L62W 68+00N	10
L62W 68+50N	nd
L62W 69+50N	5
L62W 70+00N	10
L62W 70+50N	10
L62W 71+00N	nd
L63W 61+00N	5
L63W 61+50N	10
L63W 62+00N	nd
L63W 62+50N	5
DETECTION LIMIT	5

nd = none detected -- = not analysed is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

SAMPLE #	Au ppb
L63W 62+00N	10
L63W 62+50N	20
L63W 64+00N	15
L63W 64+50N	nd
L63W 65+00N	nd
L63W 65+50N	5
L63W 66+00N	10
L63W 66+50N	10
L63W 67+00N	10
L63W 67+50N	5
L63W 68+00N	nd
L63W 68+50N	5
L64W 61+00N	nd
L64W 62+00N	15
L64W 63+00N	5
L64W 64+50N	10
L64W 65+00N	nd
L64W 65+50N	nd
L64W 66+00N	nd
L64W 66+50N	5
L64W 68+00N	nd
L64W 68+50N	5
L64W 69+00N	nd
L64W 70+00N	10
L65W 61+00N	10
L65W 61+50N	nd
L65W 63+00N	10
L65W 64+00N	nd
L65W 65+00N	nd
L65W 65+50N	nd
L65W 66+50N	5
L65W 67+00N	nd
L65W 67+50N	nd
L65W 69+00N	5
L65W 70+00N	5
L65W 70+50N	10
L66W 61+00N	10
L66W 62+00N	5
L66W 62+50N	nd

DETECTION LIMIT 5

nd = none detected -- = not analysed is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870480 GA JOB NUMBER: 870480 **RENEGADE EXPL. SERV. LTD.**

SAMPLE #	Au ppb
L66W 63+00N	5
L66W 63+50N	5
L66W 64+50N	nd
L66W 65+00N	5
L66W 65+50N	5
L66W 66+00N	nd
L66W 66+50N	nd
L66W 67+00N	nd
L66W 67+50N	nd
L66W 68+00N	nd
L66W 68+50N	nd
L66W 69+00N	20
L66W 69+50N	nd
L66W 70+00N	5
L67W 61+50N	10
L67W 62+00N	nd
L67W 63+50N	nd
L67W 64+50N	nd
L67W 65+00N	10
L67W 65+50N	5
L67W 66+00N	nd
L67W 67+00N	10
L67W 67+50N	5
L67W 68+00N	nd
L68W 61+00N	15
L68W 62+00N	10
L68W 62+50N	10
L68W 63+50N	5
L68W 64+50N	10
L68W 65+00N	nd
L68W 66+00N	15
L68W 66+50N	nd
L68W 67+00N	nd
L68W 67+50N	10
L68W 68+00N	nd

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-6211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870424 GA | JOB NUMBER: 870424 | RENEGADE SERVICES LTD. |

SAMPLE #	Au ppb
L53W 61+00N	10
L53W 63+00N	nd
L53W 63+50N	5
L53W 64+00N	nd
L53W 64+50N	nd
L53W 65+50N	5
L53W 66+00N	nd
L53W 67+00N	20
L53W 67+50N	nd
L53W 68+00N	5
L53W 68+50N	5
L53W 69+00N	15
L53W 69+50N	nd
L53W 70+00N	25
L53W 70+50N	nd
L53W 71+00N	nd
L54W 63+50N	nd
L54W 64+00N	nd
L54W 65+50N	5
L54W 66+00N	nd
L54W 67+00N	nd
L55W 63+00N	5
L55W 63+50N	nd
L55W 64+00N	10
L55W 65+00N	10
L55W 65+50N	nd
L55W 66+00N	10
L55W 66+50N	5
L55W 67+50N	nd
L55W 68+00N	5
L55W 68+50N	nd
L55W 69+00N	nd
L55W 69+50N	nd
L55W 70+00N	5
L55W 70+50N	5
L56W 61+00N	5
L56W 62+50N	nd
L56W 65+50N	nd
L56W 66+50N	10
DETECTION LIMIT	5

nd = none detected — = not analysed is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-6211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870424 GA JOB NUMBER: 870424 RENEGADE SERVICES LTD.

SAMPLE #	Au ppb
L56W 67+50N	nd
L57W 61+00N	30
L57W 61+50N	nd
L57W 62+00N	nd
L57W 62+50N	nd
L57W 63+00N	nd
L57W 63+50N	nd
L57W 64+00N	nd
L57W 64+50N	5
L57W 66+00N	nd
L57W 67+00N	10
L57W 67+50N	nd
L57W 68+50N	nd
L57W 69+00N	10
L57W 69+50N	nd
L57W 70+00N	nd
L57W 71+00N	10
L58W 61+00N	150
L58W 61+50N	nd
L58W 62+00N	5
L58W 62+50N	10
L58W 63+00N	nd
L58W 63+50N	5
L58W 64+00N	nd
L58W 64+50N	10
L58W 65+00N	15
L58W 65+50N	5
L58W 66+00N	15
L58W 66+50N	nd
L58W 67+00N	nd
L58W 68+00N	5
L58W 68+50N	nd
L58W 69+00N	nd
L58W 69+50N	nd
L58W 70+00N	nd
L58W 70+50N	5
L58W 71+00N	nd
L59W 61+00N	10
L59W 61+50N	5
DETECTION LIMIT	5

nd = none detected — = not analysed is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-6211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-6656

SAMPLE #	Au ppb
L59W 62+00N	nd
L59W 63+00N	5
L59W 63+50N	5
L59W 64+00N	nd
L59W 64+50N	nd
L59W 65+00N	10
L59W 65+50N	nd
L59W 66+00N	10
L59W 67+00N	nd
L59W 67+50N	5
L59W 68+00N	10
L59W 68+50N	nd
L59W 69+00N	nd
L59W 69+50N	10
L59W 70+00N	5
L59W 70+50N	nd
L59W 71+00N	nd
L60W 61+50N	20
L60W 62+00N	5
L60W 62+50N	5
L60W 63+00N	5
L60W 63+50N	5
L60W 64+00N	nd
L60W 64+50N	15
L60W 65+00N	5
L60W 65+50N	5
L60W 67+50N	nd
L60W 69+00N	nd
L60W 69+50N	nd
L60W 70+00N	nd
L60W 70+50N	10
L60W 71+00N	nd

DETECTION LIMIT 5

nd = none detected — = not analysed is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N.VANCOUVER B.C. V7P 2S3 PH:(604)986-5211 TELEX:04-352578
BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH:(604)251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR SN,MN,FE,CA,P,CR,MG,BA,TI,B,AL,NA,K,W,PT AND SR. AU AND PD DETECTION IS 3 PPM.
IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -= NOT ANALYZED

COMPANY: RENEGADE MINERAL EXP.
ATTENTION:
PROJECT:

REPORT#: 870424PA
JOB#: 870424
INVOICE#: 870424NA

DATE RECEIVED: 87/05/08
DATE COMPLETED: 87/05/12
COPY SENT TO:

ANALYST W. Pierre

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
L53N 61+00N	.1	6.60	ND	ND	20	ND	.19	.1	32	62	502	5.30	.08	1.33	568	ND	.02	47	.05	11	ND	ND	ND	ND	18	ND	ND	72
L53N 63+00N	.1	4.82	ND	ND	14	ND	.14	.1	11	63	60	7.69	.10	.48	151	ND	.03	10	.05	8	ND	ND	ND	ND	9	ND	ND	30
L53N 63+50N	.2	2.88	ND	ND	7	ND	.13	.1	8	48	53	7.50	.12	.17	102	1	.03	5	.04	5	ND	ND	ND	ND	10	ND	ND	14
L53N 64+00N	.6	1.29	ND	ND	4	ND	.17	.1	12	37	30	5.69	.10	.19	97	1	.02	5	.02	8	ND	ND	ND	1	13	ND	ND	15
L53N 64+50N	.4	2.52	ND	ND	9	ND	.20	.1	32	38	109	6.44	.10	.40	459	ND	.03	16	.05	6	ND	ND	ND	1	20	ND	ND	41
L53N 65+50N	.3	3.84	ND	ND	5	ND	.12	.1	9	36	57	5.82	.13	.28	117	1	.02	6	.05	11	ND	ND	ND	ND	10	ND	ND	19
L53N 66+00N	.1	4.94	ND	ND	7	ND	.12	.1	5	35	43	4.29	.11	.10	105	ND	.01	4	.04	15	ND	ND	3	ND	11	3	ND	15
L53N 67+00N	.2	2.45	ND	ND	6	ND	.12	.1	7	26	24	4.85	.11	.17	95	ND	.02	2	.04	10	ND	ND	ND	ND	9	ND	ND	17
L53N 67+50N	.3	1.08	ND	ND	6	ND	.14	.1	7	22	11	4.23	.11	.12	116	1	.02	4	.01	6	ND	ND	ND	ND	11	ND	ND	11
L53N 68+00N	.6	.97	ND	ND	4	ND	.22	.1	10	23	20	3.87	.11	.13	137	1	.01	5	.01	12	ND	ND	ND	1	24	5	ND	14
L53N 68+50N	.6	1.51	ND	ND	5	ND	.17	.1	14	45	45	6.89	.12	.17	109	1	.03	9	.04	6	ND	ND	ND	1	17	ND	ND	18
L53N 69+00N	.4	2.95	ND	ND	13	ND	.26	.1	19	55	90	5.41	.11	1.01	303	ND	.03	29	.03	8	ND	ND	ND	ND	19	ND	ND	37
L53N 69+50N	.5	1.51	ND	ND	5	ND	.10	.1	11	42	44	7.96	.14	.24	155	ND	.04	6	.07	4	ND	ND	ND	1	10	ND	ND	19
L53N 70+00N	.2	3.64	ND	ND	10	ND	.13	.1	9	42	32	6.84	.12	.25	137	ND	.04	6	.08	7	ND	ND	ND	ND	9	ND	ND	28
L53N 70+50N	.4	2.91	ND	ND	11	ND	.20	.1	16	51	128	6.69	.11	.60	308	1	.04	15	.08	7	ND	ND	ND	1	20	ND	ND	42
L53N 71+00N	.5	1.66	ND	ND	8	ND	.15	.1	11	28	23	5.87	.14	.17	108	1	.03	6	.04	9	ND	ND	ND	1	11	5	ND	17
L54N 63+50N	.4	1.54	ND	ND	5	ND	.26	.1	10	38	55	4.50	.12	.25	155	1	.02	10	.02	10	ND	ND	ND	1	15	ND	ND	17
L54N 64+00N	.1	4.74	ND	ND	7	ND	.20	.1	17	25	141	3.04	.08	.08	269	ND	.01	8	.04	12	ND	ND	3	ND	8	ND	ND	26
L54N 65+50N	.8	.72	5	ND	3	ND	.17	.1	12	15	34	3.90	.12	.08	318	1	.02	5	.01	11	ND	ND	ND	1	16	5	ND	14
L54N 66+00N	.3	2.83	ND	ND	10	ND	.15	.1	16	43	116	6.61	.11	.22	267	ND	.04	22	.05	11	ND	ND	ND	ND	11	ND	ND	41
L54N 67+00N	.1	1.37	ND	ND	4	ND	.20	.1	15	51	40	8.33	.14	.11	120	1	.05	7	.03	10	ND	ND	ND	2	17	ND	ND	16
L55N 63+00N	.2	1.63	ND	ND	15	ND	.27	.3	28	18	62	3.12	.11	.28	749	1	.02	13	.04	14	ND	ND	ND	ND	15	ND	ND	46
L55N 63+50N	.6	3.22	ND	ND	7	ND	.22	.1	18	60	135	8.44	.13	.35	200	1	.06	16	.04	8	ND	ND	ND	1	15	ND	ND	38
L55N 64+00N	.6	3.02	ND	ND	8	ND	.22	.1	18	58	122	8.16	.12	.36	206	2	.06	17	.04	10	ND	ND	ND	1	16	ND	ND	36
L55N 65+00N	.4	.71	4	ND	4	9	.24	.3	12	20	16	1.77	.11	.08	145	1	.01	4	.01	16	ND	ND	ND	2	18	8	ND	6
L55N 65+50N	.4	.34	ND	ND	1	ND	.24	.2	6	15	8	2.16	.12	.06	68	1	.01	3	.01	10	ND	ND	ND	1	18	9	ND	3
L55N 66+00N	.5	.40	3	ND	1	ND	.24	.1	7	17	9	2.45	.12	.06	75	1	.01	3	.01	10	ND	ND	ND	1	17	11	ND	2
L55N 66+50N	.6	.88	ND	ND	4	ND	.19	.1	13	33	27	4.33	.12	.14	82	1	.02	7	.03	12	ND	ND	ND	2	14	5	ND	9
L55N 67+50N	.8	1.87	ND	ND	4	ND	.15	.1	15	69	45	10.26	.16	.12	74	1	.08	4	.03	7	ND	ND	ND	2	10	ND	ND	8
L55N 68+00N	.1	3.09	ND	ND	4	ND	.14	.1	16	88	59	11.58	.16	.17	79	1	.09	6	.03	7	ND	ND	ND	2	8	ND	ND	10
L55N 68+50N	.1	1.79	ND	ND	3	ND	.19	.1	16	52	52	8.69	.16	.15	144	1	.07	7	.03	11	ND	ND	ND	2	14	ND	ND	15
L55N 69+00N	.5	3.47	ND	ND	9	ND	.15	.1	13	50	123	6.73	.12	.48	201	1	.06	14	.05	9	ND	ND	ND	ND	10	ND	ND	32
L55N 69+50N	.6	1.54	ND	ND	10	ND	.16	.1	12	35	67	6.93	.12	.32	137	1	.06	9	.05	6	ND	ND	ND	1	11	ND	ND	21
L55N 70+00N	.1	5.69	ND	ND	18	ND	.43	.4	20	63	344	3.90	.11	.81	1401	1	.04	39	.08	14	ND	ND	ND	ND	37	ND	ND	46
L55N 70+50N	.1	5.41	ND	ND	26	ND	.17	.1	33	47	238	6.53	.11	1.79	667	1	.08	41	.04	12	ND	ND	ND	ND	14	ND	4	77
L56N 61+00N	.5	3.62	ND	ND	12	ND	.30	.1	32	52	115	7.28	.13	.70	379	1	.07	23	.06	10	ND	ND	ND	ND	21	ND	ND	46
L56N 62+50N	.9	1.04	ND	ND	2	ND	.20	.1	12	48	26	5.83	.14	[illegible]	102	1	.04	6	.03	11	ND	ND	ND	1	17	6	[illegible]	6
L56N 65+50N	[illegible]	.93	ND	3	4	11	.30	.1	13	22	31	2.12	.13	[illegible]	96	1	.01	4	.01	19	ND	ND	ND	2	19	11	[illegible]	6
L56N 66+50N	[illegible]	1.08	3	ND	4	ND	.12	.1	10	37	24	4.80	.13	[illegible]	65	1	.03	5	.02	10	ND	ND	ND	1	9	ND	ND	5

CLIENT: RENEGADE MINERAL EXP. JOB#: 870424 PROJECT: REPORT: 870424PA DATE: 87/05/12

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
L56N 67+50W	.2	3.57	ND	ND	6	ND	.17	.1	30	77	59	8.55	.07	.30	576	ND	.02	10	.04	8	ND	ND	ND	1	12	ND	ND	15
L57N 61+00W	.1	2.27	ND	ND	15	ND	.11	.1	32	18	35	4.83	.07	1.01	971	1	.01	13	.03	8	ND	ND	ND	ND	8	ND	ND	50
L57N 61+50W	.4	2.12	ND	ND	9	ND	.16	.1	17	72	50	10.23	.11	.34	154	ND	.02	7	.04	1	ND	ND	ND	2	12	ND	ND	16
L57N 62+00W	.1	1.83	ND	ND	6	5	.11	.1	14	25	43	3.70	.07	.13	161	ND	.01	7	.02	7	ND	ND	ND	ND	7	3	ND	15
L57N 62+50W	.3	5.39	ND	ND	6	ND	.17	.1	21	94	88	9.19	.11	.32	220	ND	.02	12	.05	10	ND	ND	ND	1	8	ND	ND	23
L57N 63+00W	.1	4.94	ND	ND	22	ND	1.00	4.9	53	78	1065	5.42	.08	.34	4441	ND	.01	55	.05	7	ND	ND	ND	ND	30	ND	ND	106
L57N 63+50W	.2	.61	ND	ND	5	ND	.19	.1	10	26	29	2.90	.06	.17	109	ND	.01	7	.01	8	ND	ND	ND	1	13	3	ND	1
L57N 64+00W	.2	.72	ND	ND	4	ND	.19	.1	8	31	16	4.42	.10	.11	95	ND	.01	3	.01	5	ND	ND	ND	1	13	4	ND	2
L57N 64+50W	.2	4.70	ND	ND	4	ND	.20	.1	18	104	78	7.96	.08	.51	239	ND	.02	20	.05	11	ND	ND	ND	1	11	ND	ND	14
L57N 66+00W	.7	.79	8	ND	3	ND	.13	.1	14	38	24	7.00	.10	.08	104	ND	.01	3	.02	6	ND	ND	ND	2	8	ND	ND	3
L57N 67+00W	.2	2.74	ND	ND	4	ND	.27	.1	19	58	71	7.00	.08	.81	231	ND	.02	23	.03	6	ND	ND	ND	1	12	ND	ND	22
L57N 67+50W	.1	8.57	ND	ND	10	ND	.13	.1	30	64	154	5.64	.10	.56	349	1	.01	31	.08	20	ND	ND	4	ND	12	ND	ND	51
L57N 68+50W	.2	2.58	ND	ND	5	ND	.12	.1	11	50	53	5.62	.08	.26	138	ND	.01	6	.05	6	ND	ND	ND	1	8	ND	ND	9
L57N 69+00W	.1	3.72	ND	ND	21	ND	.22	.1	20	44	131	5.75	.06	1.87	701	1	.02	32	.04	8	ND	ND	ND	ND	22	ND	ND	55
L57N 69+50W	.1	2.82	ND	ND	9	ND	.07	.1	11	41	112	5.09	.08	.44	251	1	.01	7	.04	9	ND	ND	ND	ND	6	ND	ND	19
L57N 70+00W	.1	2.16	ND	ND	11	ND	.06	.1	9	28	65	5.55	.08	.26	263	1	.01	4	.03	8	ND	ND	ND	ND	5	ND	ND	11
L57N 71+00W	.1	2.57	ND	ND	28	ND	.17	.1	12	24	22	3.57	.06	1.33	481	1	.01	16	.03	8	ND	ND	ND	ND	13	ND	3	108
L58N 61+00W	.1	1.89	5	ND	10	ND	.98	.1	16	33	62	6.07	.08	.61	395	ND	.02	15	.04	4	ND	ND	ND	ND	9	ND	ND	22
L58N 61+50W	.1	3.75	ND	ND	19	ND	.35	.1	48	71	451	5.35	.08	1.95	519	ND	.02	59	.05	7	ND	ND	ND	ND	27	ND	3	57
L58N 62+00W	.4	2.15	5	ND	4	ND	.15	.1	9	45	74	5.69	.10	.14	71	1	.01	11	.04	13	ND	ND	ND	1	6	3	ND	13
L58N 62+50W	.8	1.04	8	ND	5	3	.16	.1	15	55	37	8.19	.13	.06	58	1	.02	5	.02	7	ND	ND	ND	2	10	ND	ND	ND
L58N 63+00W	.2	.72	ND	ND	4	3	.27	.1	6	15	11	1.98	.08	.11	115	ND	.01	2	.01	10	ND	ND	ND	1	23	10	ND	3
L58N 63+50W	.4	.68	3	ND	2	ND	.26	.1	7	15	12	1.93	.11	.08	105	1	.01	1	.01	11	ND	ND	ND	1	23	13	ND	1
L58N 64+00W	.4	.86	8	ND	4	ND	.15	.1	9	45	21	5.44	.12	.11	90	1	.01	3	.03	9	ND	ND	3	1	10	5	ND	4
L58N 64+50W	.1	6.39	ND	ND	6	ND	.15	.1	28	79	201	5.58	.10	.44	1650	2	.01	26	.06	17	ND	ND	ND	ND	7	ND	ND	17
L58N 65+00W	.4	1.08	6	ND	3	ND	.20	.1	11	43	37	5.87	.13	.15	176	1	.01	4	.04	9	ND	ND	ND	1	10	6	ND	7
L58N 65+50W	.5	5.73	ND	ND	5	ND	.16	.1	16	93	71	8.64	.14	.34	156	ND	.02	9	.06	15	ND	ND	ND	1	8	ND	ND	15
L58N 66+00W	.7	1.62	5	ND	3	ND	.11	.1	15	60	36	10.66	.15	.10	69	1	.03	2	.06	6	ND	ND	3	2	6	ND	ND	5
L58N 66+50W	.7	1.46	ND	ND	7	4	.22	.1	23	36	36	7.41	.13	.20	261	1	.02	10	.03	13	ND	ND	ND	2	14	ND	ND	14
L58N 67+00W	.1	7.08	ND	ND	12	ND	.20	.1	53	74	197	5.82	.12	.72	669	1	.02	43	.07	18	ND	ND	ND	ND	24	ND	ND	58
L58N 68+00W	.6	2.27	ND	ND	7	3	.20	.1	18	64	60	8.16	.13	.46	196	1	.02	14	.04	11	ND	ND	ND	1	12	ND	ND	14
L58N 68+50W	.6	1.01	ND	ND	5	6	.17	.1	14	40	30	4.99	.11	.20	99	1	.01	5	.03	9	ND	ND	ND	2	13	6	ND	6
L58N 69+00W	.3	1.54	ND	ND	5	ND	.15	.1	12	33	40	4.62	.11	.48	109	ND	.01	8	.03	10	ND	ND	ND	1	11	4	ND	9
L58N 69+50W	.2	3.90	ND	ND	7	ND	.15	.1	12	48	97	6.66	.10	.32	184	ND	.02	9	.06	12	ND	ND	ND	ND	10	ND	ND	17
L58N 70+00W	.3	1.46	ND	ND	7	ND	.08	.1	10	24	45	5.27	.12	.17	92	1	.01	5	.03	10	ND	ND	3	1	7	7	ND	6
L58N 70+50W	.2	4.73	ND	ND	8	ND	.11	.1	20	50	207	7.01	.12	.48	480	1	.02	13	.06	17	ND	ND	3	ND	8	ND	ND	27
L58N 71+00W	.1	5.91	ND	ND	17	ND	.12	.1	20	61	234	6.26	.11	.69	449	1	.02	21	.08	16	ND	ND	ND	ND	9	ND	ND	53
L59N 61+00W	.2	2.13	ND	ND	7	ND	.13	.1	14	41	75	5.85	.08	.30	199	ND	.02	6	.05	9	ND	ND	ND	1	10	ND	ND	20
L59N 61+50W	.2	2.63	ND	ND	9	ND	.13	.1	18	83	85	8.00	.11	.68	266	ND	.03	18	.04	7	ND	ND	ND	1	14	ND	ND	25
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

CLIENT: RENEGADE MINERAL EXP. JOB#: 870424 PROJECT: REPORT: 870424PA DATE: 87/05/12

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
L59N 62+00N	.4	2.50	ND	ND	8	ND	.13	.1	13	39	45	6.26	.12	.35	113	1	.02	4	.03	11	ND	ND	ND	ND	10	3	ND	13
L59N 63+00N	.9	.72	13	ND	4	3	.24	.1	11	51	15	2.07	.08	.12	141	ND	.01	6	.01	15	ND	ND	ND	14	17	8	4	4
L59N 63+50N	.8	1.18	4	ND	7	ND	.20	.1	13	39	24	4.12	.11	.24	158	1	.01	10	.04	14	ND	ND	ND	5	17	5	ND	7
L59N 64+00N	.4	1.22	13	ND	4	7	.17	.1	17	55	27	5.25	.12	.16	93	1	.01	3	.04	16	ND	ND	ND	10	12	3	ND	4
L59N 64+50N	.7	.26	12	ND	2	ND	.12	.1	9	51	10	3.15	.12	.04	106	1	.01	6	.01	12	ND	ND	ND	5	8	12	ND	ND
L59N 65+00N	.4	3.60	ND	ND	7	4	.17	.1	21	83	67	10.19	.16	.46	191	2	.03	15	.05	17	ND	ND	ND	ND	11	ND	ND	20
L59N 65+50N	.5	4.00	ND	ND	5	ND	.13	.1	14	61	57	9.14	.14	.22	148	1	.03	6	.07	12	ND	ND	ND	ND	8	ND	ND	13
L59N 66+00N	.5	2.54	ND	ND	6	ND	.15	.1	14	68	66	9.19	.13	.17	185	ND	.03	8	.05	10	ND	ND	ND	ND	10	ND	ND	11
L59N 67+00N	.8	1.18	11	ND	4	ND	.15	.1	14	45	26	4.73	.10	.30	114	1	.01	9	.02	11	ND	ND	ND	2	9	3	ND	6
L59N 67+50N	.1	4.98	7	ND	21	ND	.34	.1	24	72	342	6.27	.11	1.41	356	1	.03	35	.04	12	ND	ND	3	ND	37	ND	ND	42
L59N 68+00N	.1	4.57	ND	ND	6	ND	.19	.1	32	63	282	5.33	.10	.81	687	2	.02	20	.03	14	ND	ND	4	ND	10	ND	ND	21
L59N 68+50N	.1	3.34	ND	ND	6	ND	.24	.1	16	81	89	9.19	.12	.93	225	1	.04	19	.03	6	ND	ND	ND	ND	14	ND	ND	23
L59N 69+00N	.5	4.41	ND	ND	7	ND	.15	.1	16	51	89	8.78	.13	.34	236	1	.03	7	.06	11	ND	ND	ND	ND	11	ND	ND	24
L59N 69+50N	.4	4.20	ND	ND	15	ND	.38	.1	25	56	240	8.42	.12	1.23	401	1	.04	26	.04	10	ND	ND	ND	ND	21	ND	ND	42
L59N 70+00N	.6	3.30	ND	ND	6	ND	.13	.1	17	54	83	8.17	.13	.32	192	1	.03	10	.05	10	ND	ND	ND	ND	10	ND	ND	22
L59N 70+50N	.2	3.77	ND	ND	5	ND	.08	.1	9	37	68	5.92	.12	.17	102	1	.02	5	.04	12	ND	ND	3	ND	6	ND	ND	12
L59N 71+00N	.1	3.20	ND	ND	8	ND	.11	.1	9	28	45	4.94	.10	.30	304	2	.02	6	.05	11	ND	ND	ND	ND	6	ND	ND	11
L60N 61+50N	.9	1.10	9	ND	4	6	.19	.1	16	60	35	4.74	.11	.29	121	1	.01	9	.03	11	ND	ND	ND	5	17	3	ND	6
L60N 62+00N	.9	1.77	8	ND	4	ND	.15	.1	18	72	74	9.24	.14	.26	162	2	.03	9	.05	8	ND	ND	ND	ND	13	ND	ND	8
L60N 62+50N	.1	6.25	ND	ND	8	ND	.27	.1	19	76	64	6.61	.11	.64	208	ND	.03	39	.06	12	ND	ND	4	ND	20	ND	ND	31
L60N 63+00N	.5	1.70	3	ND	5	5	.29	.1	17	90	26	3.74	.10	.91	178	ND	.01	58	.03	9	ND	ND	ND	ND	26	ND	ND	9
L60N 63+50N	.5	3.09	5	ND	9	ND	.32	.1	19	50	45	7.91	.13	.34	277	1	.03	15	.06	11	ND	ND	ND	ND	27	ND	ND	44
L60N 64+00N	.7	2.25	6	ND	4	ND	.12	.1	17	48	46	10.38	.14	.12	81	1	.04	3	.10	13	ND	ND	ND	ND	9	ND	ND	5
L60N 64+50N	.3	2.77	ND	ND	7	5	.19	.1	19	43	35	6.84	.12	.41	177	1	.02	3	.07	13	ND	ND	ND	ND	14	ND	ND	12
L60N 65+00N	.9	.78	15	ND	3	ND	.12	.1	13	34	19	5.51	.12	.06	101	1	.02	2	.03	9	ND	ND	ND	ND	10	4	ND	1
L60N 65+50N	.9	1.77	7	ND	4	ND	.14	.1	15	41	30	7.84	.12	.15	93	1	.03	1	.07	10	ND	ND	ND	ND	10	ND	ND	3
L60N 67+50N	.5	1.06	12	ND	5	ND	.28	.1	12	38	23	4.37	.10	.24	986	1	.01	10	.03	8	ND	ND	ND	ND	19	ND	ND	10
L60N 69+00N	.5	.79	12	ND	4	ND	.16	.1	9	29	28	3.41	.10	.15	142	ND	.01	6	.02	9	ND	ND	ND	ND	10	4	ND	10
L60N 69+50N	.1	3.92	ND	ND	13	ND	.20	.1	23	96	102	6.60	.10	1.61	882	1	.03	44	.05	9	ND	ND	ND	ND	17	ND	ND	37
L60N 70+00N	.3	3.24	ND	ND	12	ND	.11	.1	16	73	71	8.46	.11	.69	201	1	.04	17	.03	9	ND	ND	ND	ND	11	ND	ND	28
L60N 70+50N	.1	5.02	ND	ND	8	ND	.08	.1	12	48	134	20.20	.17	.34	80	1	.09	3	.10	ND	ND	ND	ND	ND	5	ND	ND	13
L60N 71+00N	.5	2.08	6	ND	6	ND	.11	.1	11	31	63	8.60	.13	.17	116	1	.03	ND	.04	7	ND	ND	ND	ND	6	ND	ND	7
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870479 GA JOB NUMBER: 870479 RENEGADE EXPL. SERVICES LTD. PAGE 1 OF 1

SAMPLE #	Au ppb
01004	1960
01005	30
01006	360
01007	70
01008	20
01009	140
01010	380
01011	1285

Gary's Rocks

DETECTION LIMIT 5
nd = none detected --- = not analysed is = insufficient sample

TIME	MAG	TIME	MAG
JUNE 29		2:30	55358
9:40	55369	2:40	55362 —
9:50	55375	2:50	55366
10:00	55367	3:00	55363
10:10	55364	3:10	55376
10:20	55367	3:20	55371 +7
10:30	55370 -8	3:30	55372
10:40	55361 —	3:40	55369 —
10:50	55363	3:50	55365
11:00	55364	4:00	55372
11:10	55360	4:10	55377 +12
11:20	55360	4:20	55375
11:30	55358 -7	4:30	55381
11:40	55356 —	4:40	55377 —
11:50	55359		(-220)
12:00	55360	JUNE 30	
12:10	55355	11:40	55157 —
12:20	55361	11:50	55152
12:30	55358 -2	12:00	55150
12:40	55350 -	12:10	55148 -14
12:50	55353	12:20	55147
1:00	55358	12:30	55145
1:10	55352	12:40	55142 -
1:20	55354	12:50	55139
1:30	55354	1:00	55138
1:40	55356 +12	1:10	55142 +1
1:50	55360	1:20	55136
2:00	55359	1:30	55134
2:10	55358	1:40	55143 -
2:20	55363	1:50	55140
		2:00	55138

TIME	MAG
JUNE 30	
2:10	55140
2:20	55139
2:30	55146 +7
2:40	55150 -
2:50	55155
3:00	55150
3:10	55156 +5
3:20	55152
3:30	55153
3:40	55155
JULY 1	(+60)
12:00	55215 -
12:10	55206
12:20	55218
12:30	55210 -2
12:40	55206
12:50	55208
1:00	55213 -
1:10	55211
1:20	55206
1:30	55212
1:40	55214 -4
1:50	55214
2:00	55217 -
2:10	55218
2:20	55228 +9
2:30	55221
2:40	55221
2:50	55225

TIME	MAG
3:00	55226 -
3:10	55227
3:20	55227
3:30	55228 +7
3:40	55226
3:50	55234
4:00	55233 -
4:10	55240
4:20	55240
4:30	55240
4:40	55241 +7
4:50	55239
5:00	55240 -
5:10	55246
5:20	55243
5:30	55248 +6
5:40	55251
5:50	55250
6:00	55246 -
6:10	55254 -11
6:20	55257
6:30	55257 -

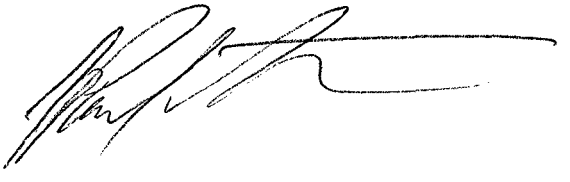
LHSC [illegible]
INDEPENDENCE

TIME	MAG		TIME	MAG	
JULY 2			2:00	55252	+4
9:10	55268 -		2:10		
9:20	55262		2:20		
9:30	55265	-6	2:30		
9:40	55259				
9:50	55266				
10:00	55264				
10:10	55262 -				
10:20	55260				
10:30	55255				
10:40	55247	-9			
10:50	55261				
11:00	55254				
11:10	55253 -				
11:20	55254				
11:30	55251	-8			
11:40	55251				
11:50	55250				
12:00	55248				
12:10	55245 -				
12:20	55249				
12:30	55243				
12:40	55248	+3			
12:50	55249				
1:00	55247				
1:10	55248 -				
1:20	55250				
1:30	55248				
1:40	55250				
1:50	55250				

I, J. Paul Stevenson of, 618 - 475 Howe Street in the City of Vancouver do hereby certify:

1) That I am a prospector practicing my vocation since 1965 in British Columbia, the Yukon and Southwestern U.S.A.;
2) That I have extensive experience in all aspects of this report;
3) That work was done under my supervision and reviewed by a professional engineer.

Repectfully,



J. Paul Stevenson

STATEMENT OF COSTS

8 Men @ $150.00 per day (X 20 Days)	....	$24,000.00
Food and Accomodation	....	8,000.00
Equipment rentals	....	2,000.00
Vehicles	....	2,500.00
Assays	....	3,000.00
		$39,500.00
REPORT PREP		+ 1,000.00
		$40,500.00
TOTAL:		$40,500.00

L.68 W	L.67 W	L.66 W	L.65 W	L.64 W	L.63 W	L.62 W	L.61 W	L.60 W	L.59 W	L.58 W	L.57 W	L.56 W	L.55 W	L.54 W	L.53 W	
					ND, .1, 65, 92,	ND, .1, 9, 14,	ND, .5, 63, 7,	ND, .1, 45, 11,	ND, .1, 234, 53,	ND, 1, 22, 108,				Au, Ag, Cu, Zn, ND, .5, 23, 17,		71·00 N
		ND, .1, 15, 63,			ND, .1, 14, 41,	ND, .1, 16, 29,	ND, .1, 134, 13,	ND, .2, 60, 12,	ND, .2, 207, 27,			ND, .1, 290, 77,		Au, Ag, Cu, Zn, ND, .4, 120, 42,		
	ND, .1, 9, 57,	ND, .1, 16, 40,	ND, .1, 51, 65,		ND, .1, 10, 46,	ND, .1, 14, 47,	ND, .3, 71, 28,	ND, .6, 63, 27,	ND, .3, 45, 6,	ND, .1, 65, 11,		ND, .1, 344, 46,		Au, Ag, Cu, Zn, ND, .2, 32, 20,		70·00 N
	ND, .1, 14, 62,					ND, .1, 15, 27,	ND, .1, 102, 37,	ND, .4, 240, 42,	ND, .2, 97, 17,	ND, 1, 112, 19,		ND, .6, 67, 46,		Au, Ag, Cu, Zn, ND, .5, 44, 19,		
	ND, .1, 12, 30,	ND, .1, 15, 40,	ND, .1, 26, 78,		ND, 1.2, 9, 10,		ND, .5, 28, 10,	ND, .5, 89, 24,	ND, 3, 40, 9,	ND, 1, 131, 55,		ND, 5, 123, 32,		Au, Ag, Cu, Zn, ND, .4, 90, 37,		69·00 N
	ND, .2, 20, 42,		ND, .1, 22, 27,	ND, .1, 64, 116,	ND, 2.1, 10, 13,	ND, 12, 15, 18,		ND, .1, 89, 21,	ND, 6, 30, 6,	ND, 2, 53, 9,		ND, 1, 52, 15,		Au, Ag, Cu, Zn, ND, .6, 45, 18,		
ND, .1, 59, 49,	ND, .1, 21, 52,	ND, .1, 11, 35		ND, .1, 32, 81,	ND, .1, 11, 30,	ND, .1, ND, 12,	ND, .8, 20, 24,	ND, .1, 282, 42	ND, 6, 60, 14,			ND, 8, 59, 10,		Au, Ag, Cu, Zn, ND, .6, 20, 14,		68·00 N
ND, .1, 20, 71,	ND, .1, 13, 74,	ND, .1, 8, 37,	ND, .1, 13, 51,		ND, .1, 17, 90,	ND, .2, 16, 21,	ND, .5, 23, 10,	ND, .1, 342, 23		ND, .1, 154, 51,	ND, .2, 59, 15,	ND, .1, 45, 8,		Au, Ag, Cu, Zn, ND, .3, 11, 11,		
ND, .3, 34, 21,	ND, .1, 28, 17,	ND, .1, 16, 77,	ND, .1, 23, 53,		ND, .1, 21, 118,			ND, .8, 26, 6,	ND, 1, 197, 58,	ND, .2, 77, 22,			ND, 1, 40, 16,	Au, Ag, Cu, Zn, ND, .2, 24, 17,		67·00 N
ND, .1, 44, 34,		ND, .1, 10, 33,	ND, 1, 25, 60,	ND, .1, 21, 43,	ND, .1, 21, 109,				ND, .7, 36, 15,		ND, .8, 24, 5	ND, .6, 27, 9,		Au, Ag, Cu, Zn, ND, NA, NA, NA,		
ND, .1, 26, 50,	ND, .1, 12, 44,	ND, .1, 15, 60,		ND, 1, 83, 63,	ND, .1, 13, 40,	ND, .1, 11, 53,	ND, .5, 13, 21,	ND, .5, 66, 11	ND, .7, 36, 15,	ND, .7, 24, 3,		ND, .5, 9, 2,	ND, 3, 116, 41,	Au, Ag, Cu, Zn, ND, .1, 43, 15,		66·00 N
	ND, .1, 11, 86,	ND, .1, ND, 6,	ND, .1, 26, 72,	ND, .1, 17, 45,	ND, .1, 51, 27,		ND, 4, 14, 25,	ND, 9, 30, 3,	ND, .5, 57, 13,	ND, .5, 71, 15,		ND, .4, 8, 3,	ND, 8, 34, 14,	Au, Ag, Cu, Zn, ND, .3, 57, 19,		
ND, .4, 36, 51,	ND, .1, 15, 52,	ND, .1, 6, 37,	ND, 1, 59, 80,	ND, 1, 29, 51,	ND, .1, 60, 57,	ND, .1, 10, 39,	ND, .1, 18, 41,	ND, .9, 19, 1,	ND, 4, 67, 20,	ND, 4, 37, 7,		ND, .4, 16, 6,		Au, Ag, Cu, Zn, NA, NA, NA, NA,		65·00 N
ND, .1, 14, 141,	ND, 1, 27, 73,	ND, .1, 7, 62,		ND, 1, 12, 26,	ND, 1, 14, 77,		ND, 1.7, 16, 60	ND, 3, 35, 12,	ND, .7, 10, ND	ND, .1, 201, 17,	ND, .2, 78, 14,			Au, Ag, Cu, Zn, ND, .4, 109, 41,		
		ND, .1, 54, 23,	ND, 1, 9, 34,		ND, 1, 14, 42,	ND, .2, 13, 21,	ND, .1, 12, 27,	ND, 7, 46, 5	ND, 4, 27, 4,	ND, 4, 21, 4,	ND, 2, 16, 2,		ND, 6, 122, 36,	ND, .1, 141, 26,	Au, Ag, Cu, Zn, ND, .6, 30, 15,		64·00 N
ND, .1, 25, 49,	ND, .1, 15, 82,	ND, .1, 20, 118,			ND, 1, 8, 45,	ND, .1, 5, 80	ND, 1, 29, 227,	ND, 5, 45, 44,	ND, 8, 24, 7,	ND, .4, 12, 1,	ND, .2, 29, 1,		ND, 6, 135, 30,	ND, 4, 55, 17,	Au, Ag, Cu, Zn, ND, .2, 53, 14,	
		ND, .1, 20, 50	ND, .1, 106, 108,	ND, 1, 45, 40,	ND, .1, 20, 51,	ND, .1, 21, 71,	ND, .1, 13, 54,	ND, 5, 26, 9,	ND, .9, 15, 4,	ND, .2, 11, 3,	ND, .1, 1065, 106		ND, 2, 62, 46,		Au, Ag, Cu, Zn, ND, 1, 60, 30,		63·00 N
ND, .1, 61, 32,		ND, .1, 4, 32,			ND, .1, 10, 61,	ND, .1, 15, 73,	ND, 1, 10, 54,	ND, .1, 64, 31,		ND, .8, 37, ND,	ND, .3, 88, 23,	ND, .9, 26, 6,			Au, Ag, Cu, Zn, NA, NA, NA, NA,	
ND, .1, 131, 7,	ND, 1, 26, 72,	ND, .1, 21, 36,		ND, 1, 96, 56,	ND, .1, 30, 56,	ND, .1, 23, 218,		ND, 9, 74, 8,	ND, 4, 45, 13,	ND, 4, 71, 13,	ND, .1, 43, 15,			Au, Ag, Cu, Zn, NA, NA, NA, NA,		62·00 N
	ND, 1, 24, 57		ND, .1, 36, 25,		ND, .1, 76, 375,	ND, .1, 23, 214,	A ND, .1, 18, 53, B ND, .1, 5, 60,	ND, .9, 35, 6,	ND, 2, 85, 20,	ND, .1, 452, 57,	ND, .4, 30, 15,				Au, Ag, Cu, Zn, NA, NA, NA, NA,		
BL ND, 1, 13, 34,		ND, .1, 17, 71	ND, .1, 16, 33,	ND, .1, 43, 78,	ND, .1, 19, 21,	ND, .1, 6, 114,	ND, .1, 21, 56,		ND, 2, 75, 25,	ND, .1, 62, 22,	ND, .1, 35, 50,	ND, .5, 115, 46,			Au, Ag, Cu, Zn, ND, 1, 58, 72,		61·00 N BL
												ND, 3, 465, 22,	ND, 6, 35, 12,	ND, 4, 42, 14,	Au, Ag, Cu, Zn, ND, .2 247, 44,		
												ND, 8, 68, 17,		ND, 8, 121, 35,	Au, Ag, Cu, Zn, ND, 1.1, 55, 26,		60·00 N
													ND, 1, 55, 12	ND, 2, 94, 30,	Au, Ag, Cu, Zn, ND, .5, 210, 35,		
													ND, 1, 57, 83,	ND, 3, 42, 17,	Au, Ag, Cu, Zn, NA, NA, NA, NA,		59·00 N
													ND, 5, 51, 12,		Au, Ag, Cu, Zn, ND, .8, 69, 23,		
												ND, 1, 4, 6,	ND, 1, 18, 11,	ND, 6, 38, 19,	Au, Ag, Cu, Zn, NA, NA, NA, NA,		58·00 N
														ND, 1, 276, 37,	Au, Ag, Cu, Zn, ND, .4 150, 39,		
												ND, .1, 75, 42	ND, 1, 83, 23,	ND, 3, 82, 43,	Au, Ag, Cu, Zn, ND, .6, 113, 21,		57·00 N
													ND, 6, 41, 13	ND, 1, 147, 77,	Au, Ag, Cu, Zn, ND, .3, 196, 46,		
													ND, 1, 172 80,	ND, 1, 528, 75,	Au, Ag, Cu, Zn, NA, NA, NA, NA,		56·00 N
												ND, .1, 139, 36,	ND 2, 89, 17,	ND, 1, 52, 15,	Au, Ag, Cu, Zn, ND, 8, 10, 55,		
												ND, .1, 72, 59,	ND, 1, 134, 91,		Au, Ag, Cu, Zn, NA, NA, NA, NA,		55·00 N
													ND, 1 1, 79, 19,	ND, 1, 208, 105,	Au, Ag, Cu, Zn, ND, .1, 82, 47,		
													ND, 1, 8, 9		Au, Ag, Cu, Zn, ND, .1, 75, 50,		54·00 N

INDEPENDANCE GRID
ALBERNI MINING
DIVISION

N.T.S. 92E/15E
49° 56'N LATITUDE
120° 40 LONGITUDE

SCALE M.

0 25M 50M 75M 100M 125M 150M

Soil Geochemistry

Au	Ag	Cu	Zn
ppb	ppm	ppm	ppm

ND - none detected
NA - no analysis

Fig 3

L.68W L.67W L.66W L.65W L.64W L.63W L.62W L.61W L.60W L.59W L.58W L.57W L.56W L.55W L.54W L.53W

71+00N
70+00N
69+00N
68+00N
67+00N
66+00N
65+00N
64+00N
63+00N
62+00N
61+00N BL
60+00N
59+00N
58+00N
57+00N
56+00N
55+00N
54+00N

BL

INDEPENDANCE GRID
ALBERNI MINING
DIVISION

NTS. 92E/15E
49° 56'N LATITUDE
120° 40 LONGITUDE

SCALE M

0 25m 50m 75m 100m 125m 150m

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,673

MAGNETOMETER ANALYSIS
&
Fraser Filtered VLF EM Data

Mag Data always represented by five digits and is measured in Gammas

VLF-EM Data always assigned a "+" or "-" (unless 0) and is Fraser Filtered; the higher the value the higher the possibility of a metallic conductor in ideal conditions.

Fig 4