

86-712-15313

09/87

**GEAREX ENGINEERING
GEAREX MANAGEMENT LTD.**

ASSESSMENT

GEOLOGICAL

REPORT

ON

MAPPING, SAMPLING & BULK SAMPLING PROGRAM

ON THE

GOOD (4155)-PROSPECTS(4147)-MUCH(4149)-PRO(4150)-FTT(4151)-DAR(4154)

MINERAL CLAIMS (GOLD GROUP)

Goldway Peak-Johansen Lake Area

OMINECA MINING DIVISION

Lat. 56°30.9' Long. 126°13'

94D9E/W

FOR

TUFF CONSULTING GROUP LTD (CONSULTANTS)

Owner/Operator: **LARAMIE MINING CORPORATION (OWNERS)**

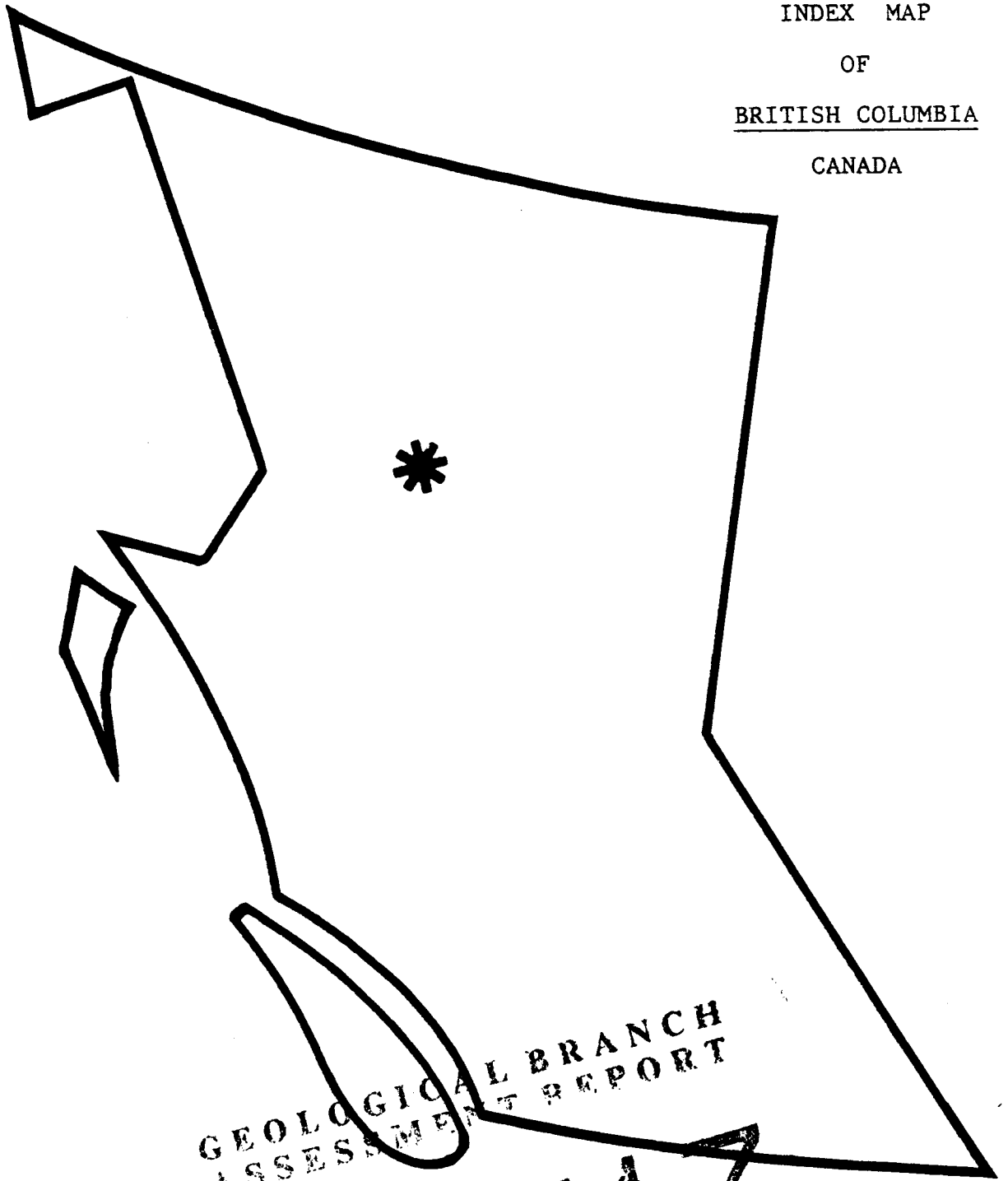
November 27, 1986

Gerhard von Rosen, P.E.

15,313
09/87

FIGURE "A"

INDEX MAP
OF
BRITISH COLUMBIA
CANADA



GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,313

FILMED

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INTRODUCTION

The writer was commissioned by principals of Tuff Consulting Group Ltd. to organize and manage sampling programs to be conducted at the Gold Group property of Laramie Mining Corporation.

The subject report summarizes the results of the program which comprised the collection of about 140 grab and chip samples from newly-discovered zones of quartz veining, as well as a bulk sample of about 1.5 tons of auriferous quartz from the "A" vein.

Mobilization to the property started August 19 and took three days. The crew consisted of six persons. The bulk sample crew arrived two days before the scheduled demobilization, which took two days. The program terminated at Mission on September 4, 1986. Assays of samples, and milling of the bulk sample were completed thereafter.

PROPERTY HOLDINGS

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** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
*CLAIM NAME      RECORD NO.      UNITS      ANNIVERSARY    *
*-----*-----*-----*-----*-----*-----*-----*-----*
*   Vi #1        1948           1      August 09, 1987 *
*   Vi #2        1949           1      August 09, 1987 *
*   Good         4155          16      August 31, 1987 *
*   Prospects    4147           6      August 31, 1987 *
*   And          4148          12      August 31, 1987 *
*   Much         4149          12      August 31, 1987 *
*   Pro          4150           8      August 31, 1987 *
*   Fit          4151          12      August 31, 1987 *
*   Dar          4154           2      August 31, 1987 *
*
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

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The assessment work summarized in this report was performed on the claims shown in italics on the foregoing table.

The claims are recorded in the OMINECA MINING DIVISION and are plotted on map 94D9E/W. The anniversary dates shown have been up-dated to show one year assessment work filed, on the basis of the subject report.

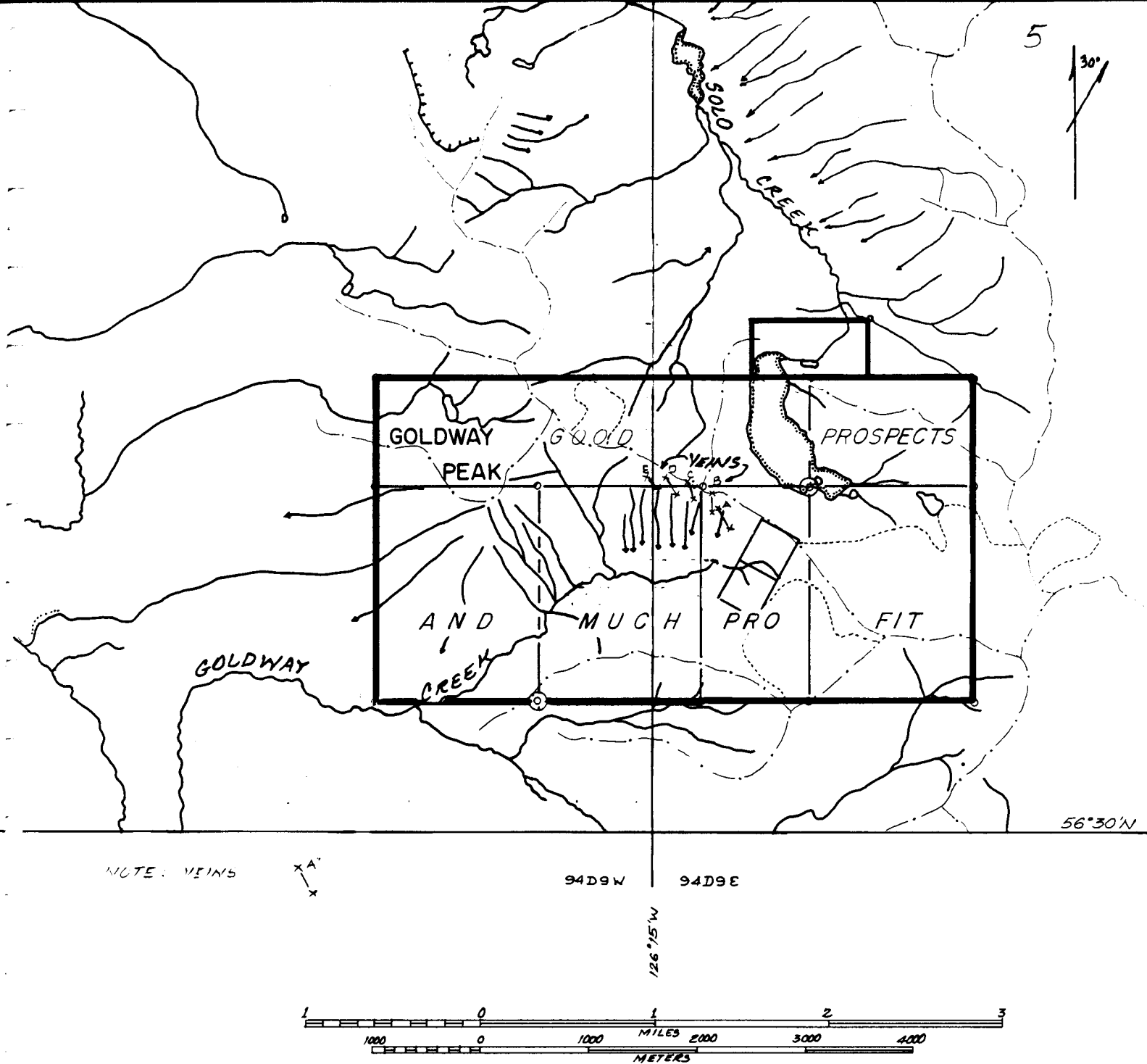


FIGURE **B**
LOCATION MAP
"GOLD" MINERAL CLAIM GROUP

GOOD:PROSPECTS:AND:MUCH:PROFIT
 DAR:MINERAL CLAIMS
 GOLDWAY PEAK AREA
OMINECA MINING DIVISION
 94D9E/W

LOCATION & ACCESS

56°32'N

126°15'W

94D9E/W

Goldway peak lies about 9 km southwesterly of Johanson lake. Good access exists to Johanson lake from Prince George, British Columbia. The old 'road to millions' consists of gravel road which commences at Vanderhoof, passes through Pinchi Lake, Manson Creek, Germanson Landing, and winds its way northwesterly to Johanson Lake. Due to the creation of Williston lake, and the ease of carrying on logging operations nearby, a network of logging roads has been established which leads northerly, circumventing the aforementioned settlements, joining with the winding remainder of the original road at Mesilinka bridge. The network of roads starts at Windy Point on highway #97, 160 kilometers east of Prince George. The distance to Johanson lake from Windy Point is approximately 370 kilometers.

Northern Mountain Helicopters, of Prince George, were used to mobilize the camp and service the crew. Mobilization and the transport of 48 bags of auriferous quartz to the U-Haul was likewise performed by this firm.

PHYSIOGRAPHY, VEGETATION & CLIMATE

Goldway peak, a massif rising to 2260 meters, is surrounded on the northeast by Johanson lake, to the north by Johanson creek, and to the northwest, and west by Asitka river valley. The altitudes of these lowlands are around 1200 meters. The resultant 1100 meter relief is thereby the cause for the necessity of a steep road to the gold veins, and for the variance of early spring in the valley, compared to later field season at the showings.

It is fortunate that much of the presently-held property has a southern aspect. As this area is above timber-line, vegetation consists of alpine terrain of low grasses and conifers in the headwater valley of Goldway creek, and very sparse vegetation in the

valley of Solo (Bruce) lake. The ridge dividing these two valleys trends about southeasterly, downward from Goldway peak; it harbours the well-documented veins named 'A' to 'F'.

The property is located at an altitude of between 5600 to 6500 feet. The newly-discovered 'glacier zone' lies at about 5800 feet. The length of the summer field season, is of course, curtailed at this altitude and latitude, and snow showers can be expected at any time of the year.

HISTORY

A flurry of explorational activity during 1946, resulted in the definition of basically three documented properties which can today be pinpointed with reasonable accuracy. **Goldway Peak Mines, Limited** was incorporated in February 1949, to acquire the **Goldway** showings. Work during 1947 included geological mapping, the driving of a short adit, trenching, and sampling. In March 1973 the area was re-staked as **Mo 1-20** and optioned by **San Jacinto Explorations Limited** in February 1974. This area is likely covered by the present **PRO** and **FTT** claims.

Springer Sturgeon Gold Mines Limited were prospecting and staked their findings as the **Solo** property. Work by the company was apparently confined to stripping and sampling. It seems possible that this area is covered by the present **GOOD** claim.

Goldway Peak Mines, Limited explored the **Bruce** property in 1947. From a comfortable tent camp located on Goldway creek at the edge of scrub timber, a crew of six men carried on development work under the direction of the company. Five main veins, named 'A', 'B', 'C', 'D', and 'E' veins, and several other smaller veins were stripped and sampled. (see **White**, BCDM, AR1947). The presently-staked **GOOD**, **MUCH**, and **PRO** claims appear to cover this area. (see Figure B).

The **Vi** claims were staked in 1979, to cover the main showings. The remainder of the present Gold Group was staked to include the **Vi** claims and the showings in 1981. A recommendation report was prepared for Laramie Mining Corporation Ltd. in which road access construction and bulk sampling of the 'A' vein were recommended. (von Rosen, November 29, 1981).

A geochemical sampling program performed within the the headwater valley of Goldway creek indicated that gold from the ridge location of the A to E auriferous gold veins was detectible in the valley below. (von Rosen, November 26, 1982).

A reconnaissance trip to investigate possible road access to the Goldway peak property, and to select veins for trenching and sampling, was undertaken in July, 1983 (Phendler, September 27, 1983a). Subsequent to this trip, A and C veins were trenched and 60 chip samples collected (Phendler, September 27, 1983b).

VLF-EM survey techniques were employed to test the area of the veins, but results showed that these cannot be detected by this method. (Game, September 1, 1984). During August, 1984, twenty rock chip samples were collected from the 'A' vein, analysis of these once again indicated the high tenor of gold within this vein. (Phendler, November 20, 1984).

Prospecting, geological mapping, trenching and rock sampling were conducted by Laramie Mining Corporation and by Strato Geological Engineering Ltd. during August, 1985. Attempted diamond drilling of the veins was prevented by an inaccessible water supply. (Pawliuk, October 17, 1985).

The subject report covers the 1986 exploratory program, consisting of rock chip sampling of the newly-discovered 'glacier zone' as well as other veins on the Bruce lake side of Goldway ridge, in addition to the collection of a 1.5 ton bulk sample from the A vein. (von Rosen, November 27, 1986).

GENERAL GEOLOGY

The Goldway peak massif lies within the Omineca Mountains of north-central British Columbia.

The general area has received recent attention as a result of the discovery of copper deposits, and more recently gold deposits in the Sustut and Todoogone regions.

Geological information is described in various formats, and the one referred to here is Open File 342 of the Geological Survey of Canada.

This map, named the McConnell Creek Sheet shows the Goldway peak area to be

comprised of Upper Triassic volcanic rocks (uTRv) consisting of basic to intermediate flow, breccia, and tuff; green phyllite and phyllitic schist. The Darb lake stock, consisting of Early Jurassic quartz diorite (EJqd) occurs at what used to be called Bruce lake, a small glacial lake just east of Goldway peak. Major northwesterly trending faults in the area are the Ingenika fault to the west of the property, and the Dortatelle fault to the east of the area. Major valleys follow these faults.

LOCAL GEOLOGY

Particular geology is well described by W.H. White (Report of the BC Minister of Mines, 1947). The following is excerpted therefrom:

White writes: "...shows the local geology and the veins explored during 1947. Goldway Peak and the ridge to the east are made up of andesite and basalt flows, with intercalated beds of breccia, agglomerate, and finely stratified tuffaceous sediments. Most of the rocks are dark green in colour due to metamorphic development of abundant hornblende, and of chlorite and epidote. The major structure is an open anticline, the axis of which strike about north 20 degrees west. Within the area (of the BRUCE property) the bedding and flow layers dip from vertical to 50 degrees westward, but to the east the dips become progressively less. Thin-bedded tuff, which forms a high peak three quarters of a mile east of the area mapped, dips 30 degrees east.

The volcanic rocks are intruded by a composite stock of quartz diorite and granodiorite which is about 3,000 feet from east to west and 2,000 feet from south to north. The extreme irregularity of the southern and eastern margins of this stock is indicated on Figure (see AR 1947). In most places the contacts are remarkably abrupt. The quartz diorite is a dark-coloured rock of medium grain characterized by abundant hornblende and about 20% quartz. The granodiorite is lighter in colour and generally coarser in texture than the quartz diorite and in thin section the dark mineral is seen to be green biotite rather than hornblende. Some of the observed contacts are abrupt, others appear transitional; but the general field relations indicate that the granodiorite is the later intrusion.

The five main veins, named the 'A', 'B', 'C', 'D', and 'E' veins, and several smaller veins are shown... They occur for the most part in the stock, having diverse strikes from north to nearly west...

...The veins consist of slightly iron-stained, fractured quartz characterized in many places by parallel fractures arranged en-echelon, and making a slight angle with the vein-walls... Metallic minerals, only sparingly and locally present, include fine-grained pyrite and occasional aggregates of small galena crystals. As a rule the metallic minerals are found in zones of drusy quartz associated with the longitudinal and transverse fractures. A very few small grains of gold were found in fractures closely associated with galena..." (end quote White, 1947).

The following information is quoted from D.J. Pawliuk:

"...The volcanic rocks locally contain up to one percent disseminated pyrite near quartz veins.

...The quartz veins are composed of off-white, weakly to moderately fractured quartz. The veins locally contain wispy inclusions of wallrock. Limonitic iron oxides often coat vein fractures. Metallic minerals within the veins include locally up to five percent pyrite, galena, chalcopyrite, malachite, and/or azurite. Sulphides are generally disseminated but also occur as irregular masses and wispy fracture fillings. Weathered pyrite partially fills a vug 7 cm in diameter within vein F. Visible gold was reported by White (1947), Phendler (1984) and Game (1984) within vein A. White (1947) found gold in fractures closely associated with galena at A vein; gold is possibly also associated with chalcopyrite. Mineralizing of the veins with sulphides and with gold probably occurred as one event during and immediately after vein emplacement. Pale brown calcite was observed in a few places near vein margins. Cream coloured feldspar locally forms up to five percent of one small quartz vein. The quartz veins mainly strike southeasterly and dip steeply; they have strike lengths of up to 386 m (average about 15 to 20 m) and widths of up to 5 m (average about 0.25m).

The veins appear similar to each other and were likely all emplaced at the same time. The relationship between the veins is unclear from present knowledge of the property, but the veins may all belong to the same vein system at depth." (Pawliuk, October 17, 1985).

RECONNAISSANCE GEOLOGY - BRUCE LAKE BASIN

The writer traversed the environs of Bruce (Solo) lake in search of zones of interest which would be sufficiently encouraging to warrant the sampling and survey work with which the crew was familiar.

The area thus traversed encompassed some of the lower hills east of the lake, some of the hill north and northwest of the lake, the scree slide southwest of the lake (mainly on-exposure of the 'F' vein), and mostly at the 'glacier zone' southeast of the south end of the lake.

The ridge upon which the main veins are located is certainly the most active-looking area in the vicinity. The trend of this belt of rusty discoloration is northwesterly, sharing the direction with the ridge line. Its extensions can be surmised farther up the steep mountain cliffs of Goldway peak massif. The geology of the ridge has been carefully mapped, as a result of the auriferous veins; the information is quoted in this report.

The outlying geology is not at hand in detail. The writer noted the areas showing quartz vein exposures during the traverses, and did not get involved with the mapping of

geological contacts.

The geology of the 'glacier zone' was more intriguing, as a result of the almost ubiquitous quartz vein flooding (ca. 140/v) which has occurred, crossing the grain (ca. 020/v) of the fine-grained, vertically-banded, thinly-bedded tuff country rocks. Due to the scouring and polishing action of the apparently-receding glacier the finest structural and textural details can be gleaned from the outcrops. The quartz veins are mainly uni-directional, with only a few rock types evidently allowing crisscrossing of quartz veins, of sufficient intensity to resemble insipient boxwork structure.

The rock type displaying the greatest intensity of quartz injection, is prominently oxidized to a light brown colour, and contains thicker quartz veins occurring in several directions. Pyrite appears to be the main sulphide which upon weathering lends the oxidized colouration to the glacier zone. It is often to be found at vein margins, as well as within quartz veins cutting the tuff beds. Galena, however, can be found as 1cm cluster within the 'hornblendite' sill?, which upon alteration and subsequent surface weathering blankets these outcrops with an almost uniformly light brown hue.

The rock type which generally follows the banding direction of the general country rock, appears to be a dike of ultrabasic rock, possibly altered to hornblende and chlorite, of which patches remain. Further alteration has changed the ferruginous minerals to iron oxide, etc.

This zone appeared to have the greatest potential for low-grade gold deposition. However, the complete area across the toe of the glacier appeared brown-stained, and contained parallel quartz veinlets for the most part. (about 140/v).

Sample V4 was taken as a composite of such material.

The thickest and possibly longest quartz vein exposure was found roughly on-strike with the 'F' vein, although quite a distance to the northwest of it. Although some sampling was performed by the present crew, little time was available for scouting in that portion of the property.

SAMPLING PROGRAM

With base camp on the glacier end of Bruce lake, the crew began the sampling program by attempting to expose the 'F' vein with the purpose of obtaining vein chip samples between outcrops along its extent. The vein could be followed visually by its widely dispersed white outcrops and its distinctive intervening slide-rock, the white quartz scree contrasting sharply with the general grey tones of the general side hill. The vein outcrops had already been sampled previously (Pawliuk), but no concerted attempt had been made to expose the vein by removing the scree material. This was attempted by the use of hand tools throughout the length of the visible portion of the vein, however to little avail, as the loose material tended to immediately backfill the trenches.

While this was transpiring, the writer traversed the area surrounding Bruce lake, and discovered further areas of interest.

One of these was found to the northwest of the apparent end of 'F' vein. Several rusty zones and quartz veins were re-discovered here; some of them displayed signs of previous rock work and trenching. The most prominent of these, vein 'G', measures possibly 7 m wide near its southern end, trends northerly, and has a presumed strike length of 440 m. The writer assumes that the quartz vein outcrops, which appear to lie on the same strike, actually connect and comprise one continuous vein.

Another one of these areas of interest was discovered at the other end of the valley to the south of Bruce lake, at the toe of the glacier. Here occurs a series of outcrop which was sampled almost continuously by chip sampling for a combined width of about 900 m. This zone was deemed to be of interest because of the quartz vein flooding which is to be found in the country rocks. The chip samples were oriented in such a manner that both the strike of the country rock, and that of the quartz veins would be crossed, obliquely cutting their angle of intersection.

All sample sites were marked with orange spray paint prior to sampling. They were subsequently chip sampled using moils and hammers. The sample positions were tied in with silva compass and string machine.

Although 150 samples were assayed (fire assay), only 138 samples were collected, as some samples were placed in dual bags. The rocks were analyzed for gold and silver at Quantatrace Laboratories. One sample was run for multi-element ICP and whole-rock analysis.

DESCRIPTION OF BULK SAMPLE

Andy Harman and helper arrived two days prior to demobilization with gasolene rock drill, dynamite, and sample bags, properly outfitted to perform the bulk-sample operation.

The ridge was climbed the following day in poor weather, from the Bruce lake side, and descent was made on the Goldway creek side, until the 'A' vein was reached. Winds were forcing clouds and rain against that side of the ridge, and conditions were not optimal. The writer found the 'A' vein despite the fog, having located it in perfect summer weather during a prior traverse.

As there was no survey point to measure from, nor any manner to indicate the high-grade section of the vein, the bulk-sample site was chosen for its ease of access, at the top of the gorge, where the vein drops from a slope of about 38 degrees to possibly 50 degrees. It was felt that at this point, the vein was accessible without a great deal of preparatory work; the terrain was relatively safe, although precisely above a drop-off; a trail could be built along which the filled ore bags could be carried to the somewhat less precipitous area, from which the helicopter could effect the lift-off. Evidently, judging by the analytical results, the site was not well chosen for its previously well-documented gold content.

The width of the vein being about one meter at this point, the hanging wall was exposed by blasting and hand mucking of the friable selvage, and wall rock.

Rice bags with plastic bag liners were filled by hand picking the quartz rock, and 48 bags were stock piled on the steep side hill for helicopter pick-up.

The samples were transported to the U-Haul at Johanson lake, and delivered first to Mission and thence to Sando Industries in North Delta for refining.

At the Sando facilities the bags were weighed, and the rocks crushed to minus one half inch approximately. This material was then ball milled to approximately 100 mesh and tabled to obtain a rough concentrate. This concentrate was re-tabled, and the middling product, as well as the final concentrate was kept. The tails from the rough and super concentrate were analyzed and discarded due to their low gold content.

The proper checks and balances were observed and the final report is shown as Appendix B.

The writer obtained a "head sample" (G1) by taking handfulls of crushed material in advance of the ballmilling operation. The result of analysis by Quantatrace Laboratories for this material is shown as Appendix A.

RESULT OF CHIP SAMPLE ANALYSIS

The chip samples were fire assayed for gold and silver content. The assay certificates are enclosed as Appendix A.

Results range from trace to a high for gold of around 0.07 oz/t. The range for silver was from trace to a high of 1.10 oz/t.

The samples taken from the overburden pits on the presumed extension of the 'F' vein assayed slightly higher than background in gold. Similarly, the gold values from the 'G' vein samples were slightly elevated.

The gold/silver content of the 'glacier zone', likewise was found to be evenly low, excepting, possibly a slight increase into the 0.05 oz/t range for samples obtained from the knob of outcrop, having the highest altitude, immediately below the glacier. (samples D26-D27, D30, D33). The combined sample interval of D26 and D27 is 25 meters, displaying a grade of 0.028 oz/t.

RESULT OF BULK SAMPLE TREATMENT

The reader is referred to Appendix B for the complete report on the bulk-sample extraction by Sando Industries Ltd.

The 48 ore bags were individually weighed prior to crushing and the aggregate weight was 1565 kg. (3450 lbs; 1.725 stons). Sando Industries were not informed of this by oversight, and their calculations are based on a full 2 short tons.

The head ore assay, G1, taken by the writer, was independently analyzed through Quantatrace Laboratory and the resulting values of 0.076 and 0.056 ounces gold per short ton, check well with Sando's 0.097 oz/t.

An arithmetic average of the three results is 0.076 oz/t. This would mean that $1.725 \times 0.076 = 0.131$ ounces of gold should be contained in the total bulk sample. The actually recovered amount of gold is 0.129 ounces of gold. The percentage of recovery by simple milling and tabling is therefore 98%.

RESULTS CHIP SAMPLING PROGRAM

The gold content of the grab and chip samples collected during this exploration program is low.

The multitude of quartz veins found in the 'glacier zone' proved to be almost entirely barren of gold, even taking the possibilities of low-grade large-volume deposition in account.

The silver values are likewise low.

RESULTS OF BULK SAMPLE PROGRAM

The amount of gold extracted from the bulk sample of auriferous quartz material obtained from the 'A' vein, known to contain documented gold values, is surprisingly low, namely 4.012 grams or 0.129 ounces. (recovered silver weighs 1.275 grams or 0.041 ounces.

The gold recovery was over 97%, while the silver recovery was 82%.

INTERPRETATION OF RESULTS (CHIP SAMPLES)

Judging by the grab and chip samples, it appears that the mapped area does not include higher grade gold veins, nor does the zone of quartz vein flooding carry much gold with it.

The possibility, although slight, exists that the values intensify farther south, underneath the glacier.

INTERPRETATION OF RESULTS (BULK SAMPLE)

The successful procurement of the bulk sample by helicopter and the high percentage of gold recovery therefrom by the use of simple grinding, and gravity methods indicates that this was a feasible manner of bulk sampling the vein.


The fact that the amount of gold recovered is low does not weigh heavily against the worth of the Goldway Peak property, as this was caused by a tactical error of inadvertently choosing one of the low-grade sections of the 'A' vein for the sample. Other sizeable sections are documented in the literature as having a much higher grade of gold.

CONCLUSIONS

The subject program of grab and chip sampling of likely auriferous quartz deposits on the Bruce lake side of the property resulted in the delineation of sizeable areas of tuff outcrop displaying a host of quartz veins crossing the steeply-dipping tuff formations. Chip samples across the width of the body resulted in spotty, low-grade gold and silver assay returns.

A 1.7 ton bulk sample of quartz rock, airlifted by helicopter from the 'A' vein, resulted in above 97% recovery of the gold, utilizing simple gravity means.

This 'A' vein contains surficially-documented gold grades which may warrant establishing a field operation of surface mining, crushing, grinding, and tabling to a rough concentrate which is expected to contain almost 80% of the included gold.

Respectfully submitted,

Gerhard von Rosen, P.Eng.

CERTIFICATE OF QUALIFICATIONS

I, Gerhard von Rosen, reside in Mission, British Columbia, at 33176 Richards Avenue.

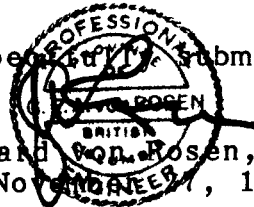
I have been practicing my profession of consulting geologist since my graduation from the University of British Columbia in 1962 with a Bachelor of Science, and in 1966, with a Master of Science degree in Honours Geology.

I have prepared the subject report from information gained during my visit to the Gold Group property on August 21 - September 2, 1986, and from references cited.

I am expecting to receive the fees and expenses invoiced regarding the preparation of this report, as this is my sole remuneration. I have no interest in the company, its properties, or its shares, neither do I expect to receive any.

Respectfully submitted,

Gerhard von Rosen, P.Eng.
November 1, 1986



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- White, W.H.** - 1947 : Report by the British Columbia Minister of Mines.
- Lord, C.S.** - 1948 : McConnell Creek Map Area, Cassiar District, British Columbia, Geological Survey of Canada, Memoir 251.
- von Rosen, Gerhard** - December 19, 1980 : Recommendation Report on Goldway Peak Property, Vi: GOOD: PROSPECTS: AND: MUCH: PROFIT: HUR: RAY Mineral Claims, Johanson Lake, B.C., Omineca M.D.; unpublished report prepared for Laramie Mining Corporation.
- von Rosen, Gerhard** - November 29, 1981 : Recommendation Report on Goldway Peak Property, GOOD: MUCH: PRO mineral claims, Johanson Lake, B.C., Omineca M.D.; unpublished report prepared for Laramie Mining Corporation.
- von Rosen, Gerhard** - November 26, 1982 : Assessment Geological Report, Gold Content Survey Report on the GOOD: PROSPECTS: AND: MUCH: PRO: FIT: and DAR Mineral Claims, Goldway Peak area, Omineca Mining Division; prepared for Dermot Fahey and filed for assessment.
- Phendler, R.W.** - February 18, 1983 : Progress Report, Goldway Peak Property, B.C.
- Phendler, R.W.** - September 27, 1983 : Report on Assessment Work (preparatory survey) on Vi1 and Vi2 (Record Nos. 1948 and 1949), Johanson Lake area, Omineca Mining Division, British Columbia; unpublished report prepared for C.S. Powney and Laramie Mining Corporation.

- Phendler, R.W.** - September 27, 1983 : Report on Assessment Work (Trenching) on the GOOD, MUCH, PRO, AND, FIT, PROSPECTS and DAR claims, Goldway Peak, Omineca Mining Division, British Columbia; prepared for Laramie Mining Corporation and filed for assessment.
- Phendler, R.W.** - February 25, 1984 : Summary Report on the Goldway Peak Property, Johanson Lake, Omineca Mining Division, British Columbia; unpublished report prepared for Laramie Mining Corporation.
- Game, R.E.** - September 1, 1984 : Report on Assessment Work (Geological & Geophysical) on the GOOD (4155), MUCH (4149), PRO (4150), FIT (4151), PROSPECTS (4147), and DAR (4154) Claims, Goldway Peak, Johanson Lake, Omineca Mining Division, British Columbia; prepared for Laramie Mining Corporation and filed for assessment.
- Phendler, R.W.** - November 20, 1984 : Report on Assessment Work (Sampling and Assaying) on Vi1 and Vi2 (Record Nos. 1948 and 1949), Johanson Lake area, Omineca Mining Division, British Columbia; prepared for C.S. Powney and Laramie Mining Corporation and filed for assessment.
- Pawliuk, D.J.** - October 17, 1985 : Report on Assessment Work on the Goldway Peak Property, Omineca Mining Division, Johanson Lake, British Columbia; prepared for Laramie Mining Corporation and filed for assessment.

APPENDIX A

ASSAYS

Assay Certificate: Quantatrace Labs # 5795

Assay Certificate: General Testing # 8609-1252

Quanta Trace Laboratories Inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5225

ANALYSIS OF GEOLOGICAL SAMPLES

To: Tuff Consulting Group Ltd
520 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Workorder: 5795
Received: 12-Oct-86
Completed: 17-Oct-86

Attn: Mr. D. Dowhaniuk

Re: Chemical Analysis of Head Sample submitted by Mr. G. Von Rosen

Table with columns for Sample type, Lab Reference #, Analyzed by, Method used, Trace Elements, and Precious Metals. Includes a list of elements like Arsenic, Boron, Beryllium, etc., and their respective values.

quanta trace laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5B 4M1

Tel: (604) 438-3226

To: Tuff Consulting Group Ltd

W/O: 5795

Page 2

Sample type	Head Ore
Lab Reference #	5795-000

Majors as Oxides	
Silicon % SiO2	75.2
Aluminum % Al2O3	11.61
Iron % Fe2O3	4.21
Calcium % CaO	0.61
Magnesium % MgO	1.32
Sodium % Na2O	0.43
Potassium % K2O	3.25
Barium % BaO	0.066
Manganese % MnO	0.037
Phosphorus % P2O5	0.1
Strontium % SrO	0.009
Titanium % TiO2	0.44
Zirconium % ZrO2	0.013
Loss on Ignition	0.99
Results in	%

Total Oxides	98.2

Total Carbon %C	0.16
Total Sulfur %S	0.04

Assayer: Skelton

CERTIFICATE OF ASSAY

Date: Sept. 25, 1986



SGS SUPERVISION SERVICES INC.
 General Testing Laboratories Division
 1001 East Pender Street,
 Vancouver, B.C., Canada. V6A 1W2
 Telephone: (604) 254-1647
 Telex: 04-507514

File: 8609-1252

TO: QUANTA TRACE LABS. INC.
 401 - 3700 Gilmore Way
 Burnaby, B.C.
 V5G 4M1

We hereby certify that the following are the results of assays on: Ore samples

MARKED	GOLD	SILVER	XXXXXXXXXXXXXXXXXXXX	SAMPLE MARKED :	GOLD	SILVER
	oz/st	oz/st			oz/st	oz/st
A - 1	0.022	0.02		B - 24	0.006	0.03
2	0.002	0.02		24(A)	0.028	0.10
3	0.008	0.02		24(B)	0.002	0.02
4	0.002	0.02		25	0.002	0.15
5	0.002	0.02		26	0.002	0.02
6	0.002	0.02		27	0.018	0.10
7	0.002	0.02		28	0.046	0.12
8	0.002	0.02		29	0.008	0.03
17	0.002	0.02		30	0.088	0.28
				31	0.010	0.02
B - 1	0.002	0.02		32	0.034	0.20
2	0.002	0.02		33	0.008	0.08
3	0.006	0.02		34	0.028	0.02
4	0.002	0.02		35	0.004	0.02
5	0.002	0.02		36	0.004	0.02
6	0.002	0.02		37	0.012	0.02
7	0.002	0.02		38	0.062	0.02
8	0.004	0.02		39	0.012	0.02
9	0.002	0.02		40	0.004	0.02
10	0.002	0.02		41	0.002	0.02
11	0.010	0.02		42	0.002	0.02
12	0.004	0.02		43	0.002	0.02
13	0.002	0.02		44	0.004	0.02
13 (B)	0.002	0.02		45	0.004	0.02
14	0.002	0.07		46	0.004	0.02
15	0.002	0.07		47	0.004	0.04
16	0.002	0.03		48	0.004	0.05
17	0.002	0.04		49	0.004	0.08
18 (A)	0.002	0.02		49(B)	0.006	0.02
18 (B)	0.002	0.02		50	0.012	0.10
19	0.002	0.02		51	0.004	0.18
19 (B)	0.002	0.02		52	0.004	0.02
20	0.002	0.02		52(B)	0.004	0.02
21	0.002	0.02		53	0.002	0.02
22	0.008	0.02		54	0.002	0.02
23	0.002	0.02				

/ continued on page 2

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS ON REQUEST PULPS AND AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.

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L. Wong

PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing association
 REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products • The American Oil Chemists' Society
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

CERTIFICATE OF ASSAY

Date: Sept. 25, 1986

24

File: 8609-1252



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General Testing Laboratories Division

1001 East Pender Street,
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401 - 3700 Gilmore Way
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V5G 4M1

We hereby certify that the following are the results of assays on: Ore sample

MARKED	GOLD	SILVER	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXX	SAMPLE	GOLD	SILVER
	oz/st	oz/st				MARKED:		
B - 55	0.006	0.05				D - 7	0.006	0.02
57	0.004	0.10				8	0.002	0.08
58	0.004	0.10				9	0.002	0.02
59	0.002	0.05				10	0.002	0.02
60	0.002	0.10				11	0.002	0.02
61	0.002	0.05				12	0.002	0.02
62	0.002	0.03				13	0.002	0.02
63	0.002	0.05				14	0.002	0.02
64	0.002	0.02				15	0.002	0.05
65	0.002	0.03				16	0.002	0.05
66	0.002	0.06				17	0.018	0.20
67	0.016	0.08				18	0.004	0.05
68	0.020	0.07				19	0.002	0.04
69	0.002	0.02				20	0.002	0.04
70	0.002	0.02				21	0.002	0.15
71	0.002	0.02				22	0.002	0.07
72	0.002	0.05				23	0.002	0.10
73	0.006	0.08				24	0.008	0.15
74	0.002	0.03				25	0.008	0.16
75	0.002	0.03				26	0.030	0.36
76	0.002	0.02				27	0.026	0.07
77	0.002	0.04				28	0.002	0.02
78	0.002	0.02				29	0.002	0.08
79	0.002	0.05				30	0.044	0.05
80	0.002	0.05				31	0.002	0.02
81	0.002	1.10				32	0.002	0.10
82	0.002	0.20				33	0.050	0.22
83	0.036	0.31				34	0.002	0.08
						35	0.008	0.02
D - 1	0.002	0.17				36	0.002	0.14
2	0.008	0.18				37	0.002	0.09
3	0.002	0.05				38	0.002	0.03
4	0.002	0.02				39	0.004	0.10
5	0.072	0.05				40	0.002	0.05
6	0.002	0.02						

/ continued on page 3

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TO: QUANTA TRACE LABS. INC.

(page 3)

We hereby certify that the following are the results of assays on: Ore samples

MARKED	GOLD	SILVER	XXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
	oz/st	oz/st					
V - 1	0.026	0.57					
2	0.004	0.21					
3	0.038	0.35					
4	0.002	0.25					
5	0.022	0.28					
6 Ridge Sheer	0.002	0.14					
7	0.002	0.10					
E - 1	0.002	0.09					
2	0.002	0.09					
3	0.002	0.10					
4	0.002	0.04					
5	0.002	0.10					

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APPENDIX B

BULK SAMPLE REDUCTION

ASSAY CERTIFICATE: SANDO INDUSTRIES # 10159
LABORATORY REPORT: SANDO INDUSTRIES # 10159



Report On Production Test For Rough Concentrate and File No. 10159
Super Concentrate From Ore Report No. _____
Reported to Mr. Andy Harman Date October 23, 1986
411 - 850 West Hastings Street
Vancouver, B.C. V6C 1C5

We have completed tests upon Ore sample submitted by you September 15, 1986, and reports as follows;

Sample Identification:

The sample was labelled "Goldway Peak" and weighed two tons.

Method of Testing:

The Ore was crushed, then ground in a ball mill to approximately 100 mesh, and run over a concentrating table to produce a "Rough Concentrate", simulating field conditions.

The "Rough Concentrate" was concentrated further on Sandos finishing table to produce a "Super Concentrate", "Middlings", and "Tails."

Results of Testing:

<u>Assays</u>	<u>Gold</u> <u>oz/ton</u>	<u>Silver</u> <u>oz/ton</u>
Original Ore "Heads"	0.097	0.037
Tailings (Raw)	0.023	0.01
Rough Concentrate	0.850	0.31
Super Concentrate	14.446	5.46
Middlings	0.166	0.07
Tailings (Super)	0.079	0.02



Page 2
Mr. Andy Harman
October 23, 1986

Recovery

Gold

2 Ton @ 0.097 troy ounce / ton	=	0.194
Tails 3640 lbs @ 0.023	=	<u>0.041</u>
		0.153

Rough Concentrate = 360 lbs @ 0.850 oz / ton = 0.153

Rough Concentrate = 360 lbs Contain 0.153 oz.

19.04 lbs of Super Concentrate	@ 14.446	= 0.137
57.10 lbs of Middlings	@ 0.166	= 0.005
283.86 lbs of Tailings	@ 0.079	= <u>0.011</u>
<u>360.00</u>	Totals	<u>0.153</u>

18.5 lbs Super Concentrate used for extraction
18.5 lbs @ 14.446 = 0.133 Troy ounces Gold

Actually recovered 4.012 grams = 0.129 troy ounces or 97.14% of gold present in Super Concentrate.

Silver

2 Tons @ 0.037 oz / ton	=	0.074
Tails 3640 @ 0.01 oz / ton	=	<u>0.018</u>
		0.056

Rough Concentrate = 360 lbs @ 0.31 = 0.056

Rough Concentrate = 360 lbs Contain 0.056 oz.

19.04 lbs of Super Concentrate	@ 5.46	= 0.052
57.10 lbs of Middlings	@ 0.07	= 0.002
283.86 lbs of Tailings	@ 0.02	= <u>0.002</u>
<u>360.00</u>	Totals	<u>0.056</u>

18.5 lbs Super Concentrate used for extraction
18.5 lbs @ 5.46 = 0.050 troy ounces of Silver

Actually recovered 1.275 grams = 0.041 troy ounces or 82% of Silver present in Super Concentrate.

Page 3
Mr. Andy Harman
October 23, 1986

Ratios and Recoveries:

These tests indicate the following ratios;

Original Ore to "Rough Concentrate" 11.1 to 1. (i.e. 11.1 tons original Ore required to produce 1 ton of "Rough Concentrate."),

Original Ore to Super Concentrate	210 to 1
Original Ore to Super Middlings	70 to 1
Original Ore to Super Tailings	14.1 to 1

and indicate the following recoveries:

Original Ore to "Rough Concentrate"

Gold	-	78.8 %
Silver	-	75.6 %

Rough Concentrate to Super Concentrate

Gold	-	89.5 %
Silver	-	92.8 %

Remarks:

These tests would suggest that at the present price of precious metals (Gold and Silver) an extraction procedure would not be an economical venture at this time.

The Gold recovered, 4.012 grams, and the Silver 1.275 grams are returned herewith, as well as the Assay Certificate for the Assays performed.



Fred C. Burgess
Chief Assayer

To:

Mr. Andy Harman

411 - 850 West Hastings Street

Vancouver, B.C.

V6C 1C5



Date: Oct. 23, 1986

Certificate of Assay

Control No. 10159

Attention:

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

Sample Identification	GOLD	SILVER					
	Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent
Original Ore (Heads)	0.097	0.037					
Tailings (Raw)	0.023	0.01					
Rough Concentrate	0.850	0.31					
Super Concentrate	14.446	5.46					
Middlings	0.166	0.07					
Tailings (Super)	0.079	0.02					

Note: Pulps retained three months.

Rejects retained two weeks.

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SANDO INDUSTRIES LTD.

A. Burgess
 Certified Provincial Assayer

APPENDIX C

DESCRIPTION OF SAMPLES

DESCRIPTION OF SAMPLES

DESCRIPTION OF SAMPLES

A1	3 m rusty tuff ?'quartz mica schist'
A2	4 m rusty tuff ?'quartz mica schist'
A3	3 m rusty tuff ?'quartz mica schist'
A4	2 m rusty tuff ?'quartz mica schist'
A5	4 m rusty tuff ?'quartz mica schist'
A6	3 m rusty tuff ?'quartz mica schist'
A7	2 m rusty tuff ?'quartz mica schist'
A8	.4m black nodule of ?hornblende?
A17	3 m rusty 'quartz mica schist'
B1	0.5m quartz vein, yellow rust, brown soil
B2	1.5m quartz vein, smaller vein 0.5m, brown stain, near Strato sample
B3	1 m brown soil, shear zone across vein, some brown stained quartz
B4	0.5m brown patch near rusted grey rock bluff
B5	1 m limonitic zone, shear across vein
B6	1 m limonitic zone, shear, some quartz
B7	1 m grab of mineralized rocks
B8	1 m quartz stringer, limonitic shear zone
B9	1 m some quartz in exposed bluff
B10	0.5m quartz, dark brown soil
B11	0.5m small patch of rust coloured soil near bedrock
B12	0.5m quartz veinlets
B13	1 m quartz fragments downhill from large quartz o/c, yellow and rusty
B13b	
B14	0.1m quartz veinlets
B15	5 m bedrock bluff, some fragmental rocks
B16	5 m some quartz veining, some brown stain, porphyry?
B17	5 m large quartz vein, light rusty staining
B18	1 m small quartz fragments, rusty soil patches, granitic rocks
B18b	
B19	0.5m vuggy quartz veins 5 cm thick
B19b	
B20	1 m vuggy and rusty quartz, rusty soil
B21	5 m rusty .5m and smaller quartz veins in gorge
B22	0.3m vuggy quartz veins in shear zone in gorge
B23	3 m larger quartz vein, rusty host rock in branch of gorge
B24	0.3m smaller quartz vein, some rust, wallrock sample
B24	
B25	3 m exposed rusty outcrop, few quartz stringers, large pyrite xls
B26	4 m quartz vein, heavy staining
B27	5 m quartz vein, vuggy, some staining
B28	3 m quartz vein, vuggy, little stain
B29	2 m quartz vein, some staining
B30	3 m quartz vein, vuggy, heavy staining
B31	7 m black polished o/c, very little stain
B32	5 m black polished o/c, some quartz stringers, some brown stain
B33	9 m black polished o/c, few quartz stringers, some rusty stain, greenish quartz
B34	4 m leucocratic c/rx, small 10cm quartz vein, little stain, some green rock
B35	8 m small b/rx protrusion from under glacier
B36	8 m large exposed b/rx, many quartz veins
B37	15 m darker coloured b/rx, darker staining
B38	2 m lighter coloured rx, quartz stringers, some stain
B39	3 m black rx, side of joint scarp, some quartz stringers
B40	5 m dark rx, dark stained, quartz stringers
B41	5 m quartz stringers, little mineralization
B42	6 m leucocratic rx, quartz veins 5 cm & hairline, dark stain

B44	7	m darker rx, fewer quartz veins
B45	4	m dark rx, very little quartz, some stains
B46	4	m joint scarp, 2 m high, as above
B47	8	m as above
B48	10	m as above, darker rx
B49a		few stringers, edge of glacier
B49b	10	m darker rx face, very few quartz stringer
B50	9	m very few quartz stringers, more dark stain
B51	10	m quartz veins, light yellow pyrite stains
B52a	10	m rx face beside glacier, vuggy quartz, some horizontal veining
B52b	15	m strongly stained rx, some quartz stringers, beside glacier
B53	3	m large 20cm, heavily stained quartz veins, dk grn xln rx, large patches yellow stain
B54	6	m heavily oxidized, many large quartz veins, dk grn xln rx
B55	5	m coarse grained green rx, large 20cm quartz veins, some stain, some boxwork
B56	3	m crossing of quartz veins
B57	10	m dark green rx, no quartz veining
B58	10	m large 15cm quartz veins, crossed veins, some stain, leuco rx
B59	5	m some quartz stringers, leuco brown rx, patches of dk grn rx
B60	4	m many quartz stringers, pitted and stained
B61	7	m
B62	10	m some 5cm quartz veins
B63	10	m crossed quartz stringers
B64	5	m crossed quartz stringers
B65	8	m crossed quartz stringers
B66	5	m
B67	15	m
B68	5	m
B69	15	m
B70	7	m
B71	6	m crossed quartz veins, dark grey crx, gossan bands
B72	7	m
B73	12	m large 50cm quartz vein
B74	12	m large quartz veins
B75	8	m large quartz veins
B76	15	m
B77		
B78	25	m
B79	20	m
B80	20	m
B81	15	m
B82	5	m
B83	10	m
D1	2	m few stringers, some light stain
D2	3	m some black rock
D3	4	m as above
D4	6	m
D5	3	m quartz vein 4cm, some dark stain
D6	10	m three directions of crossing quartz stringers
D7	12	m quartz vein 5cm, more stain
D8	15	m large quartz veins cross 15cm, fragmented rx in quartz vein
D9	16	m some 4cm quartz veins, very little stain
D10	16	m stain in quartz (202deg)
D11	12	m quartz veins crossing grain of stained rock
D12	15	m some large 15cm unstained quartz veins crossing crx
D13	12	m stained and pitted cracks in crx
D14	20	m large 20cm quartz veins, vuggy, some stain
D15	6	m some 5cm quartz veins crossing crx
D16	4	m some 10cm quartz veins, little stain
D17	15	m many quartz stringers crossing crx
D18	17	m many very thin quartz stringers, some stain

D19 10 m a 20cm quartz vein, more stain
 D20 12 m at glacier, more stain
 D21 20 m leuco brown crx, some quartz stringers, beside glacier
 D22 6 m quartz veins, some 6cm, in leuco brown crx, some stain
 D23 8 m crx banded dark/light, stained
 D24 6 m same rx, large 10cm quartz vein, some stain
 D25 14 m same rx, another 10cm quartz vein, some stain
 D26 12 m large quartz veins crossing each other
 D27 13 m some small crossed quartz stringers
 D28 6 m some quartz stringers, stained dark crx
 D29 10 m pitted quartz vein 5cm, stained dark crx
 D30 8 m few quartz stringers, some stain
 D31 11 m very few quartz stringers
 D32 9 m quartz veins 5cm
 D33 6 m large 10cm quartz veins, crossed, little stain
 D34 7 m no quartz, black banded rock
 D35 11 m quartz veins 10cm perpendicular to dark rock banding
 D36 8 m leucocratic rock
 D37 10 m very few quartz stringers, banded rock
 D38 10 m no quartz, some stain
 D39 10 m very few quartz stringers
 D40 14 m dark brown stain

 E1 7 m rusty gravel, some bedrock
 E2 8 m rusty gravel, rusty bedrock 10deg
 E3 10 m exposed bedrock, some stringers, and stain
 E4 12 m exposed bedrock, some pitted quartz
 E5 6 m exposed polished bedrock

 V1 15 m-long vein 70cm, best grab pick
 V2 6 m-long vein in quartz mica schist, bull vein, brown stain, grab sample
 V3 25 m-long vein in quartz mica schist, grab sample
 V4 0.2m quartz vein with galena, pyrite, grab sample
 V5 6 m rusty shear at top of Goldway ridge
 V6 grab of rusty slide rock southeast of camp

 G1 head ore sample taken from pregrind bulk sample of 'A' vein

ITEMIZED COST STATEMENT
 =====

DURATION: Aug 18 - Sep 4

TRAVEL: 5.0 DAYS
 FIELD: 13.0 DAYS
TOTAL: 18.0 DAYS
 TIME CHARGED: 18.0 DAYS

Party Chief:	G. von Rosen	20 days /400	8000.00
Surveyor Helper:	E. von Rosen	18 days /175	3150.00
Cook/Helper:	T. von Rosen	18 days /175	3150.00
Sampler:	A. Zimmermann	18 days /175	3150.00
Sampler:	D. Harris	18 days /175	3150.00
Sampler:	J. Lemky	18 days /175	3150.00
Bulk sample:	A. Harman	6 days /300	1800.00
Bulk sample:	R. Popoff	7 days /175	1225.00
Supervision:	A. Ashton	7 days /500	3500.00

CAMP RENTAL	2500.00
CONSUMEABLES	4430.00
4X4 RENTAL	1663.00
U-HAUL RENTAL	1659.00
RADIO RENTAL: HELICOM	150.00
TELEPHONE	50.34
BULK SAMPLE COSTS (GEAREX)	646.00
BULK SAMPLE COSTS (SANDO) EST.	3120.00
SAMPLE ANALYSES (QUANTATRACE) EST.	2223.50
HELICOPTER (NORTHERN MIN) 11.4 HRS @ \$579.50	6606.30
AIRCRAFT RENTAL: BULK SAMPLE CREW	812.00
REPORTING FEES	1600.00
TOTAL.....	55735.14

Total project outlays.....	55,735.00
Total amount claimed: 68 units /200..One Year.....	13,600.00
Total amount applied: 68 units /200..Second Year....	13,600.00
Total amount applied: 68 units /200..Third Year.....	13,600.00
Total amount overage:.....	14,935.00

d

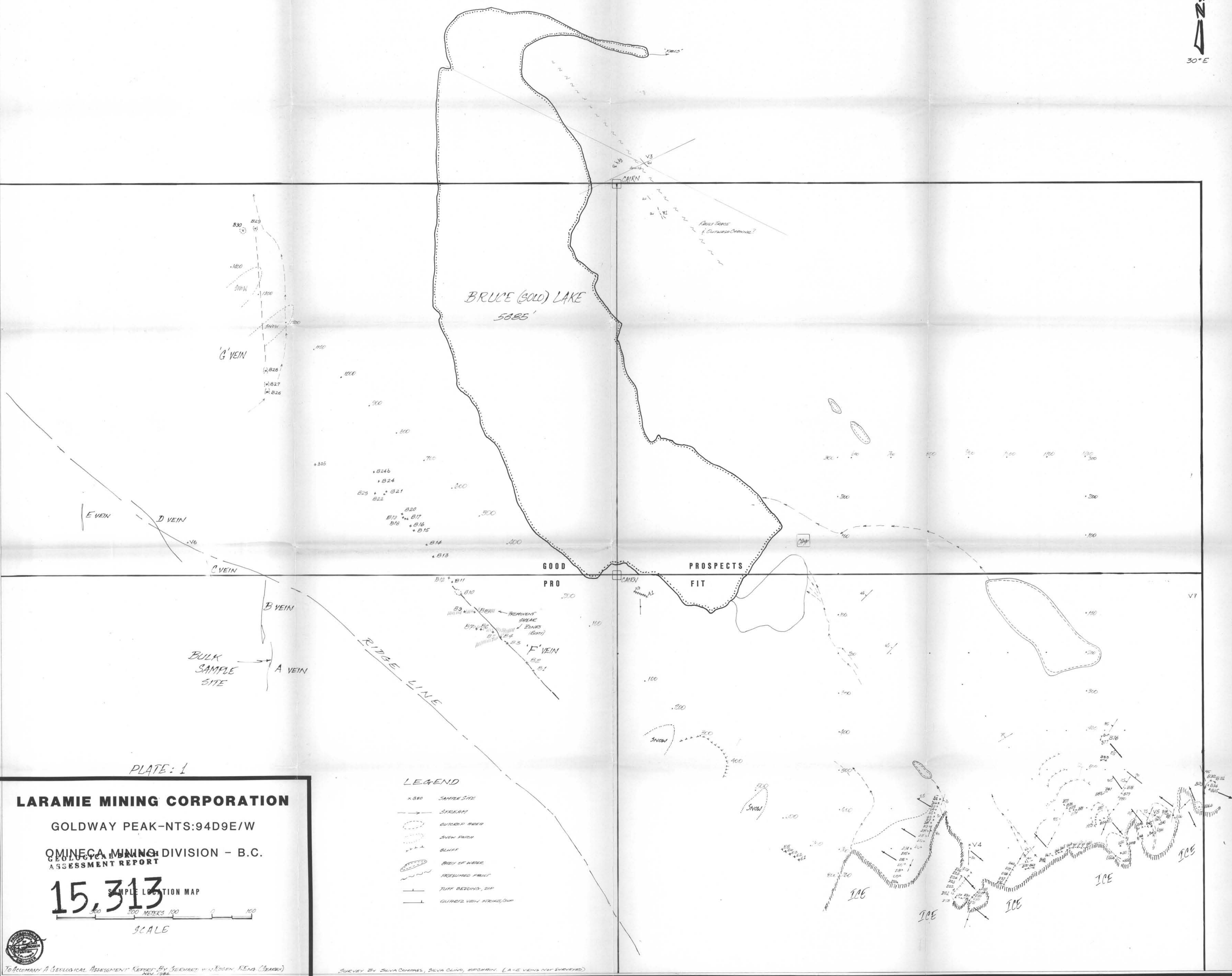


PLATE: 1

LARAMIE MINING CORPORATION
 GOLDWAY PEAK-NTS:94D9E/W
 OMINECA MINING DIVISION - B.C.
 GEOLOGICAL ASSESSMENT REPORT
15,313
 SAMPLE LOCATION MAP
 500 300 METERS 100 0 100
 SCALE

- LEGEND**
- x 880 SAMPLE SITE
 - STREAM
 - OUTCROP MINE
 - SNOW PATCH
 - BLUFF
 - BODY OF WATER
 - PRESUMED FAULT
 - TUFF BEDDING, DIP
 - QUINCY VEIN STRIKE, DIP

