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Supplemental Report  
on the  
VALHALLA AND KLEANZA GROUPS  
of  
Mining Claims  
near  
Usk, British Columbia,  
Canada.

COPY OF SUPPLEMENTAL REPORT ON THE VALHALLA AND  
KLEANZA GROUPS OF MINING CLAIMS

near  
Usk, B.C.

Made by  
William J. Elmendorf, Mining Engineer,  
Prefontaine Building,  
Seattle, Washington.

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Letter of Transmittal.

Oct. 28th, 1925.

Mr. M. R. Pritchett,  
River Falls, Wisc.

Dear Sir:-

I am forwarding herewith my report on the Valhalla and Kleanza Groups of mining claims near Usk, B. C. This in conformity with your request to Mr. John Willman. I am also sending him a copy of the report and of this letter.

The report has been unduly delayed by several circumstances. Upon my return here I found some work that required immediate attention and then Mr. Glover, who had the samples for assay was taken with an severe attack of lumbago that laid him up for a week. I hope that the delay has not inconvenienced you.

My opinion, as I have attempted to express in the report, is most favorable with regard to the possibilities of the mines. I not only saw much more on this trip than at the time of my former examination, but all the work done has been most favorable. While many of the assays were from selected ore they were in no sense off the word specimen assays and do indicate the class and grade of ore that should be produced by the property with further development.

While in the district I had a long talk with Dr. Hanson of the Canadian Geological Survey and his frankly expressed opinion frankly confirmed my own.

I hope to meet and have a talk with you later as to the best methods of operation and will be glad to assist you in any way that I can.

Willman has a splendid grasp of the situation and his manner of handling the work at the mines is above criticism. While not claiming to be a mining engineer, his knowledge is far more accurate and comprehensive than that of many who do. He has made a careful study of the properties and is sound in his conclusions.

I shall be glad to hear from you at your convenience.

Very truly yours,  
(Signed) W. J. ELMENDORF.

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REPORT

Seattle, Wash.,  
October 26th, 1925.

Mr. M. R. Pritchett,  
River Falls, Wisc.

Dear Sir:-

I have recently examined the Valhalla and Kleanza Groups of mining claims situated near the town of Usk, British Columbia, Canada. Arriving at Usk on the 2nd of October, 1925, the following week was spent on the property and at Usk. All the new work was carefully inspected and several points visited that had not been examined on the occasion of my visit in October, 1924. I was accompanied by Mr. John Willman who rendered me every facility for the work in hand.

A number of samples of ore were taken from the various showings, not so much with a view of obtaining the average values of the ore bodies in sight as for the purpose of showing that at



all of the places where mineralization exists the grade of the ore was high enough to warrant an earnest attempt to open ore bodies of substantial size in the future. I consider that such a conclusion is inevitable when the results of the sampling are carefully considered as a whole. Where such values exist in well defined quartz veins there is every reasonable expectation of the development of pay ore-shoots when careful exploration work is done.

mark

Two new veins have been located on the surface of Valhalla No. 2 since my visit last year. These were first visited.

VALHALLA NO. 2- SMALL NEW VEIN:

This vein lies above Vein No. 1 and between it and Vein No. 2. Where opened it shows about 1½ feet in width of quartz mineralized with pyrite and some chalcopryrite. This vein has been traced for about 500 feet along its strike. As is the case with all of the other veins of this series it strikes northwest and dips to the northeast. A selected sample taken from the outcrop of this vein assayed:

<u>Gold</u>	<u>Silver</u>	
2.30 ozs.	8.90 ozs	Total value \$52.23 per ton.

In this and the other assays in this report the gold is figured at \$20.00 and the silver at 70¢ per oz.

VALHALLA NO. 2- BIG NEW VEIN:

This vein lies above the last one described and between it and the Vein No. 2. It shows 4 feet in width of well mineralized quartz where opened. A selected sample from this showing assayed:

<u>Gold</u>	<u>Silver</u>	
1.20 ozs.	3.40 ozs.	Total value of \$26.38 per ton.

Both these veins conform to the others of the series in strike dip and general appearance and emphasize the importance as well as the advisability of further development in this really promising area.

VEIN NO. 3:

On this vein are located the Tenderfoot and Dakota Tunnels where most of the development work of the property has been so far done. The Tenderfoot Tunnel has been driven ahead 45 feet since my inspection last year and the Dakota Tunnel has advanced 10 feet. The reason for doing work in the Dakota as well as the Tenderfoot is that the two tunnels lie on different groups of claims. Under the law, eight claims may be grouped for the purpose of doing the annual assessment work at some central point for the benefit of the entire property. This system is much preferable to working each claim on its own ground.

TENDERFOOT TUNNEL:

The Tenderfoot Tunnel starts on the Tenderfoot claim and runs into the Norman Fraction. It is well located for permanent operations and should be made the principal working of the Valhalla Group. It is on the No. 3 Vein and is centrally



located in the vein system as three known veins have been located to the east and four to the west of it. Ultimately, cross-cuts to the other veins will give good depth and afford easy and economical outlets for the ores from those veins. The tunnel is now in 105 feet.

Development in this tunnel since my last visit has been satisfactory. The present face shows the vein somewhat pinched by the intrusion of a basic dyke from the footwall side but shortly before this dyke was reached good ore was shown in the vein. A sample of this ore, partly from the face and partly from the ore on the dump assayed:

<u>Gold</u>	<u>Silver</u>	
3.20 ozs.	11.20 ozs.	Total value \$71.84 per ton.

This sample was selected from the better ore but shows what may be expected in values when a body of it is opened. The dyke in the face will be easily passed with further development and is a really encouraging feature as it is in the immediate vicinity of these basic intrusions, that show in many places on the property, that areas of enrichment in the veins may be expected. The mineralization is largely of chalcopyrite and a copper assay was run on this and several of the other samples. The results of these assays will be listed later in this report.

DAKOTA TUNNEL:

This working has been advanced about 10 feet since my last visit for the purpose of assessment work, as I have explained. The work has been most satisfactory, however, and well worth while. Here, as in the Tenderfoot, a basic dyke has been reached. A selected sample from the right side of the tunnel near the dyke assayed:

<u>Gold</u>	<u>Silver</u>	
0.58 ozs.	5.80 ozs.	Total value \$14.66 per ton.

An average sample of the face at 59 feet in assayed:

<u>Gold</u>	<u>Silver</u>	
0.18 ozs.	6.30 ozs.	Total value \$8.01 per ton.

As the Tenderfoot Tunnel is about 400 feet lower than the Dakota, the fact that the same character of mineralization shows in both is a very encouraging feature as indicating the probability of extensive ore shoots in the vein.

Above the Dakota Tunnel in a cut apparently beyond the dyke which now shows in the face of the tunnel, a cut on the vein shows good mineralization with some chalcopyrite. A selected sample from this cut, which is also on the No. 3 Vein, assayed:

<u>Gold</u>	<u>Silver</u>	
2.52 ozs.	10.00 ozs.	Total value \$57.40 per ton.

This ore will be encountered, in all probability, when the Dakota Tunnel is driven ahead.



VEIN NO. 4. UPPER CUT:

A sample of selected ore from this cut assayed:

<u>Gold</u>	<u>Silver</u>	
1.62 ozs.	7.10 ozs.	Total value \$37.37 per ton.

VEIN NO. 4. LOWER CUT:

In a cut on the No. 4 Vein above the Tenderfoot Tunnel there is a good showing of ore and here some little galena is present. A sample of the best of this ore assayed:

<u>Gold</u>	<u>Silver</u>	
0.24 ozs.	9.10 ozs.	Total value \$11.17 per ton.

This sample also assayed 8.1% in Lead.

As stated before, the development of the No. 4 vein will logically be by means of a crosscut from the Tenderfoot Tunnel after that tunnel has been advanced a reasonable distance, perhaps, 200 feet further.

KLEANZA CLAIM:

The Kleanza Claim is separated from the Valhalla Group and is reached from the Valhalla cabin by a good trail about three miles in length. The workings on it lie at an altitude of about 5000 feet and it is on the ridge at the head of Red Gulch Creek, a lateral of Kleanza Creek. Several open cuts and a shallow shaft constitute the development work. In all of these some ore has been found of excellent quality. It is impossible to correlate this vein with any of those on the Valhalla Group although the general character of the quartz and its mineralization is very similar to that in some of the Valhalla veins. It probably belongs to the same system. The isolated and difficult position of the property make its future development difficult and at the same time the showing is sufficient to warrant holding the claim for future possibilities. A sample of the better ore at the shaft was taken. This sample showed chalcopyrite and a little galena and assayed:

<u>Gold</u>	<u>Silver</u>	
4.60 ozs.	6.40 ozs.	Total value \$96.48 per ton.

This is certainly very fine ore and as only the sulphides were taken there is little probability of surface enrichment being the cause of the high value.

VALHALLA NO. 6. MINING CLAIM.

This claim, which is the most southerly of the Valhalla Group, is reached by an easy trail along the ridge from the Kleanza Claim. It also lies at an elevation of about 5000 feet. Here several strong quartz veins have been plainly exposed by the action of the elements. They are of the Valhalla series although insufficient work has as yet been done to definitely connect them individually. But little work has been done on this claim as there is little need for it, Nature having left the hard quartz croppings plainly exposed by the erosion of the softer surrounding rocks. It is



unusual to see finer exposures of well-defined quartz veins than may be seen here.

On the outcrop of the most prominent of these veins considerable leaching shows, leaving the quartz in a honeycombed condition. At such a point and with this condition, surface enrichment was to be expected but it seemed interesting to see what such ore might assay and for that purpose a sample of this was taken. It assayed:

<u>Gold</u>	<u>Silver</u>	
5.90ozs.	17.00 ozs.	Total value \$129.90 per ton.

As this was my first visit to the Kleanza and Valhalla No. 6 Claims, I was very much interested in seeing these high showings. From the view-point of immediate operations, both of these claims are too far from transportation to warrant their serious development. Nor is such operation advisable when it is certain that they are on the same veins that can be advantageously operated from a lower level. Their high values are most encouraging as indicating the possibilities of the property and they show the wonderful persistence of the vein system. The veins in the Valhalla Group are definitely shown to extend for the length of seven claims or 10,500 feet, nearly two miles. The difference in altitude between the croppings on the Tenderfoot Claim and those on the Valhalla No. 6 is at least 3500 feet. Such a condition indicates great depth to the veins as well as their remarkable length.

ASSAYS FOR COPPER:

The following samples, all of which have been described in this report, were also assayed for copper. The copper value has not been figured and included in the total values with which the samples have been credited because, in my opinion, the real value is in the gold and silver content. In addition, the value of copper is constantly varying and in the marketing of copper ores only a certain percentage of its quoted value is paid for. When, in the future, milling operations on the mines are carried on, as they will be when sufficient pay ore bodies are developed, the copper content will become a factor in the values, but until that time they may be properly omitted.

	<u>Copper</u>
Valhalla No. 2 Claim. Small new vein. Outcrop	1.0%
" " 3 " Vein No. 3 Cut above	
" " " " Dakota Tunnel	1.9%
Norman Fraction " " " 4 near " "	5.4%
Kleanza " Ore from shaft	4.5%
Tenderfoot Tunnel Ore from face and dump	3.7%

*Dakota Tunnel 59 ft. in (see assay of Nov. 10-1925) 20.2%*

OPINION:

My favorable opinion of these properties has been greatly strengthened by my latest visit to them. The work done since last year has all been satisfactory and the showings at this time fully warrant a careful campaign of serious development for the future operation of the mines. The Tenderfoot Tunnel should be driven ahead on the No. 3 vein and when it has been advanced about 200 feet, crosscutting to the No. 4 and possibly to the No. 5 vein should be done. The time is not far distant



when a plant of machinery consisting of compressor and air drills should be installed and such an installation should be contemplated in connection with any future operations.

Respectfully submitted,

(SIGNED) W. J. Elmendorf  
Mining Engineer.

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A. L. GLOVER, INC.  
ANALYSTS - ASSAYERS - METALLURGISTS.  
615 Prefontaine Bldg., Seattle, Wash.

C E R T I F I C A T E O F A S S A Y .

No. 11643-51 & 72. Date Oct. 23, 1925.  
The samples of Ore from Skeena Lumber Company, Usk, B.C., marked as below:- Oct. 3rd, 1925 and submitted to us for analysis, contain:

Sample #11643.	Valhalla No. 2, Small new vein, Outcrop.
	Gold - - - - - 2.30 oz. per ton.
	Silver - - - - - 8.90 " " "
	Copper - - - - - 1.0%
Sample #11644.	Valhalla No. 2, Big new vein outcrop.
	Gold -- - - - - 1.20 oz per ton.
	Silver - - - - - 3.40 " " "
Sample #11645.	Dakota true vein No. 3. Right side next dyke. 58".
	Gold - - - - - 0.58 oz. per ton.
	Silver - - - - - 5.80 " " "
Sample #11646.	Cut above Dakota true vein #3. Above dyke. Selected.
	Gold - - - - - 2.52 oz. per ton.
	Silver - - - - - 10.00 " " "
	Copper - - - - - 1.9%
Sample #11647.	Cut near Dakota true vein #4. Selected.
	Gold - - - - - 1.62 oz. per ton.
	Silver - - - - - 7.10 " " "
	Copper - - - - - 5.4%
Sample #11648.	Kleanza. Ore from shaft on Gold Cr. side. Selected.
	Gold - - - - - 4.60 oz. per ton.
	Silver - - - - - 6.40 " " "
	Copper - - - - - 4.5%
Sample #11649.	Valhalla #6. Main cut big vein. 2' Honeycombed quartz.
	Gold - - - - - 5.90 oz. per ton.
	Silver - - - - - 17.00 " " "
Sample #11650.	Tenderfoot Tunnel. Vein #3. Ore from face. Selected.
	Gold - - - - - 3.20 oz. per ton.
	Silver - - - - - 11.20 " " "
	Copper - - - - - 3.7%
Sample #11651.	Cut above Tend. Tunnel. Vein #4. Selected Lead Ore.
	Gold - - - - - 0.24 oz. per ton.
	Silver - - - - - 9.10 " " "
	Lead - - - - - 8.10%
Sample #11672.	Dakota Tunnel. Vein. 59' in. Average.
	Gold - - - - - 0.18 oz. per ton.
	Silver - - - - - 6.30 " " "

Respectfully submitted,  
A. L. GLOVER, INC.,

*Copper 20.2 %  
See additional  
assay of Nov. 10<sup>th</sup>*

(CORPORATE)  
(SEAL.)

(SIGNED) By A.L.GLOVER.