

To Prop. File

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# W. MEYER & ASSOCIATES LTD.

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82F/GE

December 30, 1976

TWO STAR 82F/sw-69

Burlington Mines Ltd.  
#1012 - 470 Granville St.  
Vancouver, B.C.  
V6C 1V5

Re: Lakeview & Two Star Groups - Ymir, B.C.

Gentlemen:

The writer visited the Burlington Mines' drilling project near Ymir, B.C. during the period November 23 - 25/76 in the company of Mr. R. Sostad. This programme was initiated in mid-October to test extensions to the "Lakeview Fault" as recommended by Mr. G. L. Mill, P. Eng. in his report "The Two Star Group and the Roberts Group" dated June 21, 1976.

The history of this mining camp is described in numerous private and public reports over the years and are compiled and re-evaluated in more recent reports including "The Lakeview Group" by G. L. Mill, P. Eng. dated December 10, 1973 and "Report on the Yankee Dundee Property" by H. Brodie Hicks, P. Eng. dated November 13, 1975.

Past exploration and production has centred around relatively high grade veins containing gold, silver, lead and zinc mineralization. The object of the current programme was to test by drilling the relatively unexplored, much wider but lower grade Lakeview Fault zone. Widths of 20- to 40 feet of low grade gold, silver, lead and zinc mineralization had previously been encountered underground but had not been pursued.

It had been proposed to drill a minimum of 3 holes at 100 foot centres along the fault. Due to some start-up problems and severe physical conditions, only one hole was completed and a second started when the project had to be abandoned for the winter. The drill hole data is summarized below:

<u>Hole</u>	<u>Location</u>	<u>Bearing</u>	<u>Dip</u>	<u>Depth</u>
TS #1	120' NW of Lakeview shaft	S 45° E	-55°	180
TS #2	80' NE of TS #1	S 35° E	-50°	137
				<u>317</u>

317  
-3  
314

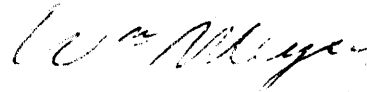
Hole TS #1 intersected a weakly mineralized part of the Lakeview Fault and TS #2 was not drilled far enough to reach the fault zone.

The drill logs by the writer for TS #1 have previously been submitted. Assay data is summarized below:

<u>Hole No</u>	<u>Intersection</u>	<u>Length</u>	<u>Pb (%)</u>	<u>Zn (%)</u>	<u>Ag (oz/ton)</u>	<u>Au (oz/ton)</u>	<u>Cd.</u>
TS #1	112 - 113/4	16"	0.01	0.02	0.01	0.001	0.01
	129 - 131/10	34"	0.01	0.02	0.01	0.001	0.01
	131/10 - 132/2	4"	0.01	0.11	0.01	0.029	0.01
	132/2 - 133/6	18"	0.15	0.32	0.28	0.024	0.08
	172 - 174	24"	0.01	0.02	0.01	0.001	0.01

It became necessary to abandon the project due to severe winter conditions before TS #2 reached its objective. The core could not be examined because of the physical conditions.

Respectfully submitted,



W. Meyer, P. Eng.

Rock Types and Alteration	Graphic Log ROCK TYPE ALTERATION FOOTAGE STRUCTURE	Mineralization and Structures	SPECIFIC GRAVITY	FOOTAGE BLOCKS	Recovery		Assay Results			Est. Grade
					Wt. in Gr.		Sample No.		Core Sludge Combined	
					Core %	Sludge %	Core	Sludge		
overburden.										
dyke - Nelson Batholith chl's	10	slightly fol'd 30° to core axis. limonite on fract at 45°, 60°, 90°			80%					
	20									
22' sedimentary incl alt red intrusive (Nelson bath) grading to fresh dyke ~35'	30	minerals at contact.								
	40									
contact at low angle dark shaley sediments	50	gts veining at contact. bedding at low angles to core.			73%					
dyke.										
shaley sediments	60	narrow dykes to 2"			87%					
	64									
dyke.	68				100%					

Rock Types and Alteration	ROCK TYPE ALTERATION	FOOTAGE	STRUCTURE	Mineralization and Structures	SPECIFIC GRAVITY	FOOTAGE BLOCKS	Recovery		Assay Results			Est. Grade		
							Wt. in Gr.		Sample No.		Core		Sludge	Core Sludge Combined
							Core %	Sludge %	Core	Sludge				
thin bedded shaley sedimentary bedding ~ 10° to core axis short sandy sections, narrow calcite stringers at 70-80°		80		limonite on fract. tr py 11° bedding			90%							
"		90		"			97%							
"		100		> fract at 94' - poor recovery bedding ~ 20°, fract @ 0°, 20°, 60°			62%							
"		110		bedding slip at 103. fract @ 106-108			80%							
"		120		111.5" - 112.5" heavy limonite on fract & parallel bedding			84%	111 3.5' core 115"						
dark shaley sediments bedding at low angles		130					88%							
"		130		minor brx = short rusty sections 4" gts @ 132 tr Pb, Zn, limonite 6" wussy gts with limonite stringers @ 132.5-133			79%							



GEOLOGY

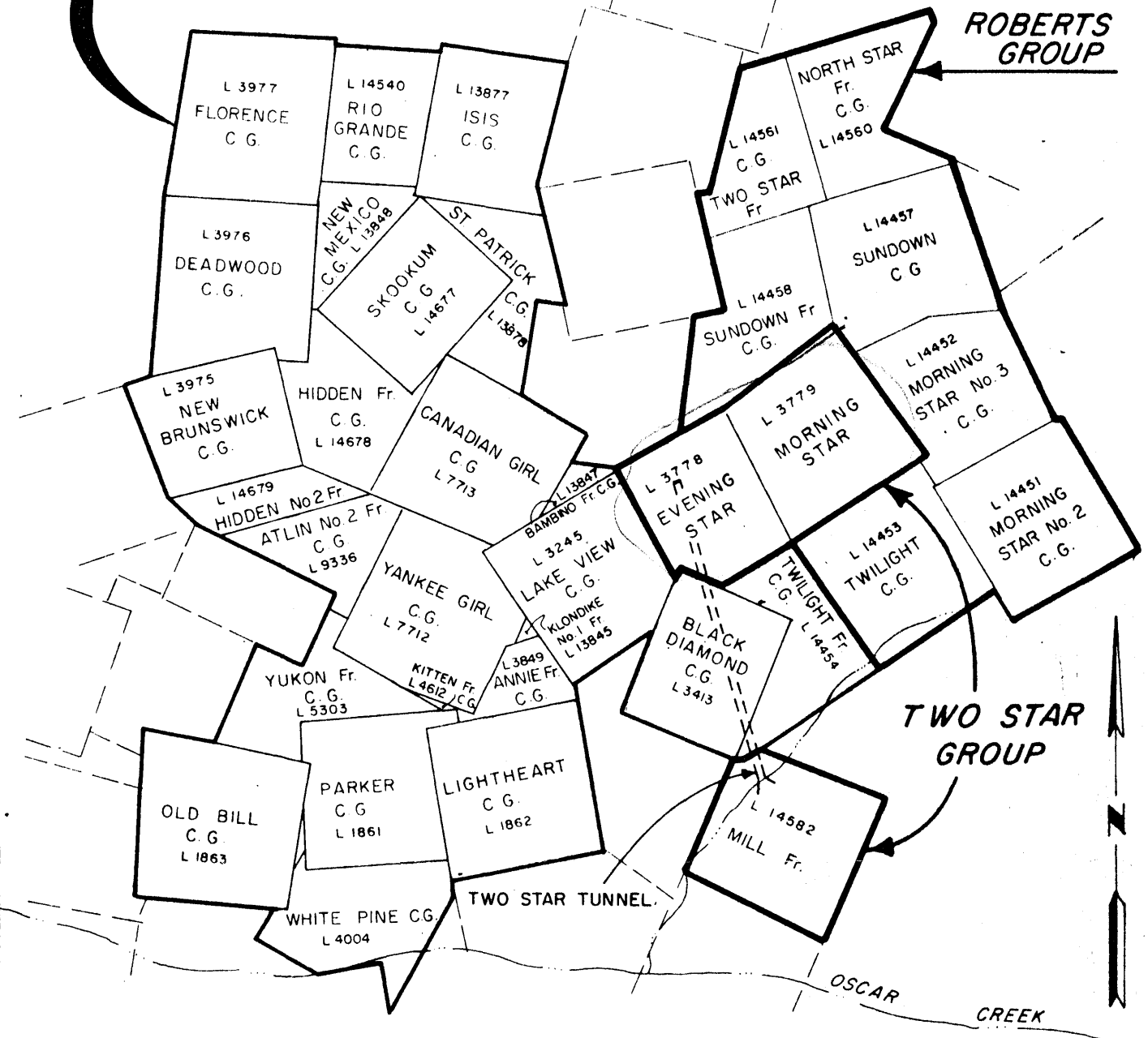
The oldest rocks of the area are the Summit Series consisting of argillites, limestones and quartzites. They are overlain by the fine-grained sediments of The Pend d'Oreille Series which are characterized by their carbonaceous material content. The older sedimentary and volcanic rocks have been intruded by the granites and related rocks of the Nelson Batholith. A series of granitic tongues extend from the main granite mass and cut the formation in a general north/south direction. The region has been subjected to intensive faulting and productive deposits have been of the fissure vein type localized in faults cutting the contact zone. A wide shear zone, referred to as the Lakeview Fault - a long narrow remnant of the Pend d'Oreille Series enclosed between thick granitic tongues - strikes N30°E across the area and is the strongest structure disclosed. The Lakeview Vein - classed as non-commercial by former operators basically because of its relatively low precious metal content - occurs within the Lakeview Fault fissure. Subsidiary faults, striking N70°E, extend from the hanging wall of the Lakeview Fault Zone and it is within these subsidiary faults and close to their contact with the Lakeview Fault that most of the ore bodies found in the past have been contained.

Mineralization is essentially pyrite, pyrrhotite, sphalerite and galena in order of abundance with the precious metal said to be associated

with the galena and/or sphalerite. Based on indicated Ymir Yankee Girl flotation-cyanidation recoveries as well as on previous experience on ores of the area, the writer is more inclined to the opinion that the gold content, at least, is in association with one or both of the contained iron sulphides.

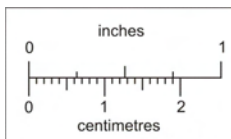
# BURLINGTON GOLD MINES LTD.

**ROBERTS GROUP**



**TWO STAR GROUP**

OSCAR CREEK



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

# BURLINGTON GOLD MINES LTD.

**THE TWO STAR and ROBERTS GROUPS**

YMIR M.D. B. C.

1 inch = 1500 feet