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VANCOUVER 1, B.C.

APRIL 10, 1969

MR. R.H. BATES, PRESIDENT,
KLEANZA MINES LTD. (N.P.L.),
TERRACE, B.C.

DEAR DICK:

WITH THIS, ONE COPY OF KLEANZA WITH-HOPE GROUPS REPORT WHICH WAS COMPLETED TODAY. I LEFT THE 'ORIGINAL' OR MASTER COPY + 2 CARBON COPIES OF THIS WITH DAN TODAY. I THINK THAT I HAVE COVERED ALL THE PERTINENT FEATURES OF BOTH PROSPECTS IN A WAY WHICH WILL SATISFY THE B.C. SECURITIES COMM., V.S.E., SWENSON, DAN, & YOURSELF. ANYWAY, I WILL BE GLAD TO HAVE ANY COMMENTS THAT YOU MAY WISH TO MAKE.

I THINK WE HAVE AN EXCELLENT ^{OVER-ALL} J.P. TARGET IN THE CREOSUS-EXCELSIOR-GEM-'A2' AREA, AND FEEL THIS WILL PROVIDE SEVERAL DRILLING TARGETS. ALSO, WITH THAT LAST ASSAY OF 1.49 AW; 4.10 AG FOR THE GEM #2 ADIT FACE SAMPLE, WE HAVE A NICE PROSPECT TO WORK ON VIA E.M. SURVEYS, DRILLING, AND - POSSIBLY - AN EXTENSION OF BOTH # NO'S 1 AND 2. DRIFTS. THERE IS ALWAYS THE CHANCE, TOO, THAT E.M. - GEOCHEM. INVESTIGATIONS WILL OUTLINE ANOTHER SHOOT ON THE DOWN-HILL STRIKE SECTIONS OF THE VEIN.

MY REPORT WAS MOSTLY TYPED BY THE TIME I GOT YOUR REPORT ON THE EXCELSIOR DRILL CORE - SO DID NOT THINK IT CRITICAL TO 'STOP PRESS' FOR INCLUSION OF THESE DATA. IN ANY CASE THE 77-82' ASSAY INDICATES THAT THE SURFACE MINERALIZATION OF AT LEAST PART OF THE SECTION, IS CARRYING TO DEPTH. IN SPITE OF THE SCANT COPPER CONTENT, GOLD & SILVER HOLD UP VERY WELL; POSSIBLY A SMALL CONTENT OF BRASS COPPER, ALONG WITH PB-ZN SULPHIDES, IS CARRYING THE P.M. VALUES? IF YOU TURN IN ANYTHING FURTHER TO T.S.L. FOR A 'SEMI-QUANT. SPECTRO' I WOULD SUGGEST THAT YOU ASK FOR DETERMINATIONS ON SB, AS, BI, CD, CU, AU, AG, PB, MO, (NL), W, & U3O8. IN MY OPINION IT WOULD BE OF REAL VALUE TO HAVE THESE RATHER THAN ^{ONLY} SOME OF THEM, PLUS A 'GEOLOGICAL HOBBY Podge'. IN THE PAST I HAVE HAD TROUBLE GETTING THEM TO SWITCH FROM THEIR STANDARD LIST OF DETERMINATIONS, BUT EVENTUALLY SUCCEEDED!

WILL GET ON TO THE J.P. BOYS NEXT WEEK.

KEEP UP THE GOOD WORK + GET SOME MORE A-1 TYPE STUFF! [+ GEM HIGRADE]

Best regards, Bill Sharp

ENCL.

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Rec'd April 7/69
From R.H.B.

Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEPHONE 688-3504

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

KLEANZA MINES LTD. (N.P.L.)

EXCELSIOR DDH#1 CORE - *Note this hole did not penetrate full section.*

REPORT NO.

V-5470

SAMPLE(S) OF

ROCK Submitted on March 19, 1969.

per spectro

Sample No.	<i>Pb Zn</i>	Gold (Au) oz:ton	Silver (Ag) oz:ton	Copper (Cu) %	
77-82 ft.	5501	0.08 0.10	0.04	0.60	0.03
0-5 ft	5502	trace	trace	0.01	
70-75 ft.	5503	trace	trace	0.01	

what carries Au-Ag? prob. some tetrah (partic) or gen Au-Ag - Zn content

Note that tellurides in py may also carry Au-Ag values as at Gem. - worth while to test for this

oz:ton - Troy ounces per 2,000 lbs.

DATE March 25, 1969.

SIGNED R.B. Dletcher

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Rec'd April 7/69
From R.H.B.

Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.
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Semiquantitative Spectrographic

SAMPLE(S) FROM KLEANZA MINES LTD. (N.P.L.)

CORE - Breccia, heavy sulphides, EXCELSIOR DDH #1
77 TO 82 FT.

REPORT NO.
T-14549
V-5470

SAMPLE(S) OF ROCK Submitted on March 12, 1969.

	Sample 5501	Sample 77-82 <i>Account. assay per detached</i>	Sample	Sample 5501	Sample 77-82 <i>Account. assay.</i>	Sample
* Antimony	-			Phosphorus	-	
* Arsenic	-			Platinum	-	
Barium	.04%			Rhenium	X	
Beryllium (BeO)	-			Rhodium	-	
* Bismuth	.01%			Rubidium	X	
Boron	-			Ruthenium	-	
* Cadmium	-		* Silver	1 oz. t. 0.60		
Cerium (CeO ₂)	-		Strontium	-		
Caesium	X		Tantalum (Ta ₂ O ₅)	-		
Chromium	.01%		Tellurium	-		
Cobalt	.005%		Thallium	-		
Columbium (Cb ₂ O ₆)	-		Thorium (ThO ₂)	-		
* Copper	.08%	0.03	Tin	-		
Gallium	.001%		Titanium	.7%		
Germanium	-		* Tungsten	-		
* Gold	<.01	oz. t. 0.04	* Uranium (U ₃ O ₈)	-		
Hafnium	-		Vanadium	.01%		
Indium	-		Yttrium (Y ₂ O ₃)	-		
Iridium	-		* Zinc	.1%		
Lanthanum (La ₂ O ₃)	-		Zirconium (ZrO ₂)	.01%		
* Lead	.08%		ROCK FORMING METALS			
Lithium (Li ₂ O)	-		Aluminum (Al ₂ O ₃)	MH		
Manganese	.1%		Calcium (CaO)	M		
Mercury	-		Iron (Fe)	H		
* Molybdenum	.01%		Magnesium (MgO)	LM		
Neodymium (Nd ₂ O ₃)	-		Silica (SiO ₂)	H		
* Nickel	.002%		Sodium (Na ₂ O)	.1%		
Palladium	-		Potassium (K ₂ O)	.1%		

Figures are approximate:

CODE

- H - High - 10 - 100% approx.
- MH - Medium High - 5 - 50% approx.
- M - Medium - 1 - 10% approx.
- LM - Low Medium - .5 - 5% approx.
- L - Low - .1 - 1% approx.
- TL - Trace Low - .05 - .5% approx.
- T - Trace - .01 - .1% approx.
- FT - Faint Trace - approx. less than .01%.
- PT - Possible Trace - Presence not certain.
- - Not Detected - Elements looked for but not found.
- X - Not looked for

DATE March 27, 1969.

SIGNED R.B. Fletcher

DIVISION OF TECHNICAL SERVICE LABORATORIES

Note advise Dick to specify to lab. what elements to determine; det'n of silicates a waste of money

Nov. 29/66

Mineral Samples (Note must old showing pretty well packed)
RNB & D.W.S. over
exp. " office.
Gem # 2 Zone:

- rather coarse cube PbS; resin sphalerite.
- patches granular cpy. - some Cu values
- coarse crystall white qz gangue no in. tetrah

Main Gem, spec. RNB; No 2 unit.

Principally med to rather fgr. pyrite, dissemin-
bands in red coarse-crystall qz; to dark
mineral (grey Cu or tell?).

Silver Sheen:

Principally dark brown resin sphal w.
apprec'l platy PbS; w blebs & grains cpy.

Dollar zone; Croesus (Highly-op.)

Cube PbS in qz. minor blebs cpy; sp ind.

Silver Bow:

Intermittent sphalerite - chalcopyrite - menses
in coarsely talus qz. apprec'l but minor
cube PbS.

Excelsior:

"Banded" dissemin. cubic py w hybrid Tuffs
& meta diorites; some w qz mining or
striping; loc to cpy as dissemin grains.

Croesus zone, hi-gr. spec.

Fract, silic granites; consid. sericite (silty)
dots & dissemin cpy, w larger, more localized
menses moly

Note also silic zone w dissemin py-cpy &
v.f. gr. moly.

Normont, Topley Option:

Apparently front-top volcanics (?), highly
silic in dissemin cpy. hornite, note patches
rather crystall. tetrah. (some assoc. PbS)
apparently very sphal per absence of streaks.
Some spec. indicate C.A. may be highly-
altered granites or dioritic intrusives

13 - 5' samples for 65' X-sec.

approx $\frac{1}{3}$ (4 or 5) in grey mineral
tetrahedrite (note Δ galena-like Xal faces)