UR
105 M

KERR-ADDISON GOLD MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

REC'D DEC 20 1961

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E.C.J.	

To DR. P. M. KAVANAGH *From* WILLIAM M. SIROLA

Subject PROPOSED EXPLORATION OF UR PROPERTY, YUKON TERRITORY. *Date* December 18th, 1961.

In case he did not send you a copy, I am enclosing Dr. Aho's proposal. This looks to me like a very ambitious programme for this property and, while I do not criticise Aaro for presenting it in this manner, I would certainly not envision all the work he has recommended.

I would start by prospecting the property, if this has not already been done, in considerable detail and if this did not provide any targets for bulldozer work, I would then consider some test work with geochemistry and electromagnetic equipment. Neither of these procedures would run into a great deal of money.

I do not know that they expect a minimum work commitment on the property, but if they do I would certainly tone down the picture as presented by Aaro.

Bill

WILLIAM M. SIROLA.

Enc.

WMS:rl

Dec. 3/61

105 M

PROPOSED EXPLORATION OF UR PROPERTY

Geologic mapping, trenching, and prospect shaft sinking has proved the presence of favourable geology and strong vein fault structures with indications of high silver values, all very similar to that of the productive sections of Galena Hill. Depth potential is also comparable due to comparable thickness (2500-3000') of Central Quartzite. Probabilities of economic silver-lead deposits occurring on the property appear good, therefore considerable exploration appears justified on the basis of results to date.

Initial exploration should be designed to expand the structural picture, to further define target areas, to test these for mineralization at shallow depth, and to follow up mineralized sections. It should start with some geophysical work, followed by trenching or whatever method appears best suited to the local condition, as follows:

1. In March supplies should be moved in over the proposed road route, a central camp set up on Poli Creek, lines cut, and a systematic electromagnetic, and probably a sensitive magnetometer, survey conducted to obtain a more complete structural picture, to define and trace known or suspected vein-fault zones, and to locate new ones. This work should be completed by breakup, in mid- or late April.

2. A small portable seismograph should be used to determine approximate depth of overburden, if possible, before bulldozer trenching.

3. A power auger, on a trial basis, may prove useful in drilling in permafrost to bedrock along interesting anomalous zones to obtain geochemical or vein samples or traces of galena in pannings. Much of the top part of the overburden may be silt.

4. Bulldozing could be started in late April or in May to take advantage of the oncoming season of maximum sunlight for fastest thawing of permafrost by stripping cuts in rotation and for use of runoff in ground sluice cuts.

Vein faults in or near massive quartzite or greenstone, especially where intersections, changes in direction, or cross-fault are indicated (see patterns of orebodies on Keno and Galena Hills), should be trenched at intervals of, say 200 to 300 feet depending on overburden depth. If an ore shoot exists, indications should be found for some distance along strike either as mineralization in place, or as float moved downhill or westward by glaciation. All bedrock or talus in cuts should be panned for small galena particles.

A D-8 or D-9 cat with a ripper should be used to get down between the walls of vein fault structures, or to rip frost where necessary.

Vein-fault anomalies on the steeper slopes, as on UR 4, 6 and 8, UR 7, 17, and 18, and UR 38 and 41 claims can be ground sluiced to greater depths and faster and cheaper by using small streams available nearby, or by using runoff early in the season.

5. Interesting mineralized sections should be tested with short prospect shafts and drilling with careful precautions made for core recovery.

Modifications or other methods should be considered whenever applicable. Careful geologic supervision and examination and interpretation of all results and data is imperative in this district.

Jean E Roe

ESTIMATED COST OF EXPLORATION
UR SILVER-(ON)LEAD PROPERTY
MARCH 15 - SEPTEMBER

Camp, supplies, and road		$ 2 000.00
Line cutting, say 50 line miles, 400 & 200' spacing		
Wages 2 men 1 mi/da 100 man da x $17.50	$ 1750.00	
Food & other	550.00	
	2300.00, say	2500.00
Electromagnetic and Magnetometer Surveys by geologist & helper		
Geologist $700.00/mo		
Helper 450.00		
$1150.00/mo say abmt 1½ mo	$ 1700.00	
Instrument rental(s(?) etc.	1000.00	
	2700.00, say	3000.00
Seismograph (?)		500.00
Man on ground sluices, etc. (helper above), addit 5 mo x 450.00		2250.00
Cat & operator 8 hrs/da ave x 25 da/mo x $22.50/hr (D-8)		
Approx. $4500/mo, say 4 mo.		18,000.00
Geologist, say 5 mo more @ 700.00		3500.00
Cook 6 mo @ 450.00		2700.00
Food, etc 4 men x 5 mo Ave, 30 x 5 x 3 x 4	1800.00	
other	200.00	2000.00
Plane fares, etc. & other travel expense, freight		500.00
Vehicle (purchased 2nd hand)		1000.00
Shafts, say 150' total, contracted $40.00/ft, no board incl.		6000.00
General supervision		2000.00
Assaying, say		500.00
Contingencies		3550.00
Total effective program, as above:		$ 50,000.00

Minimum program to accomplish any useful test of the property is estimated at at least $35,000.

If maximum above work is done, total cost with a drilling program as well would be of the order of $75,000. This amount should therefore be tentatively allocated to exploration of the property, and results should indicate what further underground exploration would be justified

Lewis E. Reed.