(FOR INTER-OFFICE USE ONLY)

820102

To	W. M. Sirola	From	P. M. Kavanagh		G.H.M.
					R.D.S.
Subject	Red Wing Property, Anyox, B.	C. 103P	Date	March 26,	1962 D.W.P.
Suojett					G.P.R.
					110
					E.C.J)

This is prompted by your memorandum of March 20th re this property.

Considering the substance of your previous memoranda dated September 27th, 1961 and October 6th, 1961, and remembering the terms asked by Bill McGowan, I think we should not renew our interest in the property.

PmK

Paul M. Kavanagh

Chief Geologist - Exploration

PMK: ry

103 P/05

Red Wing Profess

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KERR-ADDISON GOLD MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

W.S.R.
K.C.G.
P.M.K.
C.K.M.

TO. P. M. KAVANAGH

From W. M. SIROLA

G.K.M.

P.U.S.

Subject RED WING PROPERTY, ANYOX, B.C. 103-P

Date March 20th, 1962.203

Sometime ago, I was discussing the possibility of some short X-ray diamond drill holes from the old workings on the Red Wing property. I had in mind three holes, not more than 100° in length, to determine whether or not the vein extended along strike and down-dip. The first hole would be drilled horizontally from the most northerly cross-cut and another hole would be drilled at 45° below the horizontal hole. The third hole would be drilled at -60° from the second cross-cut. These holes would give a better idea of the grade than we now have.

There is no basic change in my thinking about this property except that the above type of evaluation would not be very costly (about \$5,000.00). If these holes were sufficiently encouraging, it would then be necessary to do deeper drilling to determine the vertical extent of the mineralized zone. There is a great similarity between the Hidden Creek ore deposits and the mineralization in Red Wing and it could be that there would be additional lenses at depth.

You may recall that because our examination earlier in the year was not too rewarding, we never did resolve the matter of a deal with Bill McGowan. He was, at that time, talking about a 65% - 35% division of profits.

I am not strongly urging that we do the above work, but pass it on to you as an exploration possibility.

R.L.

William M. Sirola.

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REC'D J	UL	5	1961
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(FOR INTER-OFFICE USE ONLY)						W.S.R.	7
						P.M.K.	Z
To	P. M. KAVANAGH	From	WILLIAM M.	SIROLA	<u> </u>	G.H.M.	
				••••••		E:0:0:	<u> </u>
	DED LITTLE PROPERTY ANYON	40E4 100 - 0 E0		1.1	100	R.D.S.	
Subject	RED WING PROPERTY, ANYOX	AREA, 103: P-58	Date	July 3rd,	196 1.	B:C.B:	•••
						D.W.P.	
						G.P.R.	
						E.L.D.	
						J.I.B.	
						E.C.J.	l l

Mr. W. S. McGowan is negotiating for the Red Wing property located near the former Anyox Mine on Observatory Inlet.

I do not know details of the mineralization on the property, but there is an adit in high grade massive sulphides. Apparently the sulphides are terminated by a fault. I believe the width is about 12'.

Mr. McGowan will keep me posted on his results.

R.S.

PP WILLIAM M. SIROLA.

This group comprises the three Crown-granted claims RED WING. Red Wing, Red Fraction, and Red Jacket owned by interests associated with G. Bower, 320 Fifteenth Avenue West, Vancouver. The property is situated at the head of Glacier creek, about $2\frac{1}{2}$ miles from its outlet into Granby bay, $1\frac{1}{2}$ miles south of Bonanza creek, and about 4 miles south of the town of Anyox.

The claims were staked may years ago and in 1911 some work was done on them by the Pacific Metals Company. This consisted of a limited amount of tunnelling and three flat diamond-drill holes reported to have been located about 150 feet south-easterly and at 125 feetlower elevation. These drill-holes were not seen and no information is available concerning results from them. Judging from their described location and the structural attitude of the ore-deposit, it is quite probable they were of little use in the exploration of the main zone.

The area is extremely rugged and the precipitous and the claims are not easy of access. The section is entirely denuded of green timber, and heavy talus, timber-snags, and slide-rock covers the valley-bottom and steep slopes to precipitous rock bluffs bordering the valley on both sides. It is indicated that snow and rock slides of appreciable extent are of frequent occurrence in the winter and early spring. The property can best be reached from Bonanza creek by crossing the divide to Glacier creek and following the line of least resistance. With the exception of a few logs, the old camp at elevation 1,800 feet has been entirely obliterated.

The rocks of the area consist of argillites of the Goose Bay formation of Jurassic age, so-called greenstones which are in the main metamorphosed rocks comprising mica and horn-blende schists of probably Jurassic age, and intrusive into these two formations is granodiorite of the Coast Range batholith. A generally conformable contact between the argillite and the underlying greenstone parallel to the bedding of the argillite, even where steeply tilted, is a remarkable structural feature, but one or two small sections suggest the greenstones as intrusive into the argillite. The age relationship of these two rocks is consequently not definitely clarified. Numerous dykes of melsitic and lamprophyric type are intrusive into both the argillite and greenstone.

Towards the head, Glacier creek occupies the eroded apex of a comparatively gentle anticline, but at the head in the vicinity of a granitic contact the argillites display steep tilting, with the greenstone-argillite contact conforming. The geology and structure is remarkable similar to that associated with the neighbouring Hidden Creek ore-deposits operated by the Granby Company. As structure has proved to be a major factor controlling the Hidden Creek ore-bodies, with favourable conditions where folding has occurred, this feature should be given prime consideration in any exploration relative to the Red Wing property.

The ore occurrence consists of a replacement-body in mica-schist, mineralized with pyrite, pyrrhotite, and chalcopyrite, with some sparsely disseminated zinc-blende in places. The zone strikes N. 35° W. (mag.) and dips about 60° east forming a prominent oxidized outcrop about 50 feet wide on the face of the steep bluff about 300 feet high on the north side of the oreek at its head. Mineralization is comparatively lightly disseminated on the foot-wall side, but increases in intensity towards the hanging-wall, and in the tunnel-workings a well-mineralized zone or band about 14 feet wide containing massive sulphides in places is indicated. In places quartz stringers occur in the zone. The continuity of this replacement-zone from the top of the bluff towards the north has not been determined. That section, however, is not very easily accessible, but, nevertheless, tracing in this direction could be carried out with little difficulty and would be productive of valuable information. At its south end the zone is cut be a dyke about 10 feet wide, and only sparse mineralization is evident in the rock outcropping south, or on the down-bluff side of this dyke.

The zone occurs about 400 feet northerly of a narrow spur projection from the main granitic intrusive and about 600 feet westerly of the locally steeply tilted greenstone-argillite contact. The attitude of the zone would appear to be possibly conformable to the locally tilted structural attitude of the greenstone-argillite contact, which condition experience in the Hidden Creek copper-belt has shown to be favourable for the deposition of this type of ore-body.

About 400 feet westerly of this zone a prominent oxidation streak in the face of the bluff suggests the possible occurrence of another similar zone of appreciable width. No work has been done on this, as it would appear that at the time of the previous work on these claims that section was covered by glacier which has now receded. This probable zone should also be explored.

Adjacent to the greenstone-argillite contact, about 600 feet easterly of the tunnel, a prominent area of oxidation about 200 feet wide with large cavernous openings suggestive of the leaching of massive sulphides is exposed. This was inaccessible for examination, but its appearance suggests that it may be a silicified mineralized area in the argillite carrying low copper values, such as occurs in the Hidden Creek belt, and it should consequently receive exploratory attention.

The character of the economic geology and of the ore-body that has been partially explored suggests the occurrence of replacement-zones of irregular shape and more or less conforming to the irregularities of the greenstone-argillite contact, and containing lenticular sulphide mineralization of varying intensity, such as are typified in the Hidden Creek deposits. Limitation of surface outcrop should consequently not be taken as a definitely governing criterion of depth-continuity which would be dependent on contact and plunge structural attitude. Exposed and further information regarding this important feature can only be achieved by further exploration.

At elevation 1,950 feet near the head of the valley a tunnel has been driven into the side of a draw in the face of the steep bluff and about 100 feet up from its foot. The tunnel is driven for about 70 feet, bearing N. 65° W. (mag), starting near the foot-wall of the zone and in the crosscutting dyke, and penetrates more and more into the foot-wall country-rock as it approaches the face. At 10 feet from the portal good sulphide mineralization, massive in places, is exposed and continues for 17 feet along the east side; 10 feet of this section should assay at least 4 per cent. copper. Beyond this the tunnel enters sparsely mineralized greenstone, in which material it continues to the face.

At 14 feet in from the portal a crosscut to the west has been driven for 10 feet, showing good mineralization for about 2 feet in from its intersection with the main crosscut, but penetrating the sparsely mineralized foot-wall country-rock from there to the face. Forty feet in from the portal a crosscut 22 feet long to the east shows generally good mineralization of pyrite, chalcopyrite, and pyrrhotite along its entire length, with about 9 feet of the central portion containing appreciable massive sulphides showing relict structure and carrying some sparsely disseminated zinc-blende. A chip-sample of this 9-foot central section assayed: Gold, trace; silver, 1.6 oz. per ton; copper, 4 per cent.

At the face of the main crosscut, a crosscut 15 feet long to the east is in the sparsely mineralized foot-wall country-rock, with, however, the mineralization appearing to increase towards the face. A chip-sample of the face of this crosscut assayed: Gold, trace; silver, 0.6 oz. per ton; copper, trace. This crosscut would have to be extended about 10 feet to penetrate the projection of the ore exposed in the first crosscut east and near the portal of the tunnel.

Geological and structural conditions are remarkable similar to those associated with the <u>Hidden Creek</u> ore-deposits and are favourable for ore-deposition. Although a lenticular and varying intensity of sulphide mineralization can be expected as characteristic of this type of ore-body, the degree and character of mineralization in the <u>Red Wing</u> exposures is attractive and certainly warrants intensive exploration to determine continuity, widths, and potential tonnage. The smelter at Anyox, about $3\frac{1}{2}$ miles distant, offers a convenient outlet for ore. The construction of an aerial tramway, although entailing a comparatively high cost of construction, offers no insurmountable engineering difficulties.

July 10, 1963

LOCATION: GLACIER CREEK, 2/2 MILES JOUTH OF HIDDEN CREEK.

JEALE 1"= 30"

WORK DONE . 60' OF DRIFTING
35' OF X-CUTTING

3 - X- RAY DRILL HOLES.

OVER BURDENO D AT NORTH END.

VEN - AV. GRADGE 4% ACROSS 9 FT.

Dycs.

NOTE: 600 ERST OF YEN OXIDIZED AREA 200 WIDE WITH LARGE CAVERNOUS EPENINGS. PRESOMABLY NO WORK DONE ON THIS ZONE

ANYON PRODUCTION: 24,000,000 TINS: \ CU-709,000,000 # Ag-6,638,000.025

Am Sive

REC'D JUL 12 1961	KERR-ADDISON GOLD MI		7
To	AGH From	WILLIAM M. SIROLA E.O.C.	
		H.A.P. R.D.S. R.D.S. B.C.B.	
SubjectREU WINS PM	DPERTY, ANYOX AREA - 103-P	Date July 16th, 1961 B.C.B. D.W.P. G.P.R.	
		E.L.D. J.I.S. E.C.J.	:

Mr. McGowan advises that he has newly completed negotiations for this property.

The Minister of Mines' Report for 1932 states that a 9' wide vein assaying 4% Cu. was followed a distance of 50' to 60' by an adit. The accompanying sketch shows this situation. The Report also states that 600' East of this vein there is an area of oxydation 200' wide with large cavernous openings. This sounds like a very intriguing situation.

The property is $2\frac{1}{2}$ miles South of Anyox's Hidden Creek ore body, and $2\frac{1}{2}$ miles from tidewater. Topographically it is quite rugged, and geophysical work might be difficult.

McGowan says he does not want any cash, but is looking for an ultimate 60%-40% division of profits after all expenditures have been paid back. I am quite sure this could be modified to say 65%-35%, but do not know how much lower he would go.

Kindly let me know if you wish me to negotiate further with him on this basis.

WILLIAM M. SIROLA

Lyands. Bree

Enc.

W. S. Sirola

P. H. Kavanagh

Red Wing Property, Anyox Area, S. C.

July 19, 1961

This is prompted by your memorandum of July 10, 1961 on this property.

Saveral questions which I would appreciate your answering are:

- 1. Is it clear whether the vein assayed 4% copper over a 9 foot width consistently along the 50 to 60 foot length, or is just one sample involved?
- 2. What elevation is the property at? 1950 seported
- 3. What are the terms of McGowan's deal with the owners?
- 4. Are you recommending that we deal with McGowan on a 65% 35% division of profits after expenditures payback basis? To me it appears equal to his acquiring a 35% total interest in the undertaking without any obligation to advance any exploration or development money or to do anything else except reap 35% of the profits all for bringing to us a property which already has been investigated to some extent.

P. M. Kavanagh, Chief Geologist - Exploration

REFERENCE MEMORANDUM

	DATE	July 19	1961
THE ATTACHED PAPERS AI	RE REFERRE	D	
10 Mr.	WS. N	ow-	
ву/	BMK		
PLEASE REPLY DIRECT		PLEASE HANDLE	
PLEASE SEE ME RE THIS		YOUR COMMENTS	
FOR YOUR INFORMATION		FOR APPROVAL	
PLEASE RETAIN		PLEASE RETURN & E	c/ v
The attacked	l has	to do with	a
copper proper			
A 65-35 d			
superty in so	deal	for a secone	d-han
property in n	do ho	inion .	2
		1-	201

PMK Too tough but I would assume that we could bargain him down to a reservable deal if the property were good. May be Bill See it WKK

AUG 4 1961

KERR-ADDISON GOLD MINES LIMITED

(FOR INTER-OFFICE USE ONLY)						P.M.K.	V
	Hack					G.H.M.	
To	P. M. KAVANAGH	From	WILLIAM	M. SIROLA		E.O.C. H.A.P.	
	//					R.D.S.	
Subject	RED WING PROPERTY, OBSERVAT	TORY INLET, B.C.	Date	August 2nd,	1961.	B.C.B. D.W.P.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	103-P					G.P.R.	
						E.L.D.	
					1	LIB	

E.C.J.

Mr. W. S. McGowan advises that he has the Red Wing deal advanced to a stage where he feels that we could examine the property. We could either do this before working on the Owen Lake ground or after, whichever you prefer, but the two efforts should be allied because, in working on the Owen Lake ground, we would be driving to Smithers, and it is not too far to go from Smithers to Prince Rupert which would be the take off point for examination of the Red Wing property. I would envision a certain amount of preliminary geophysical work in connection with the Red Wing examination.

Would you kindly let me know as quickly as possible what your sentiments are as I would like to start field work sometime next week.

Regards,

R.S.

P.P. WILLIAM M. SIROLA

KERR-ADDISON GOLD MINES LIMITED **REC'D AUG 25 1961** (FOR INTER-OFFICE USE ONLY) W.S.R. P.M.K. G.H.M. P. M. KAVANAGH WILLIAM M. SIROLAFrom..... £:0.8: H.A.P. R.D.S. Subject RED WING PROPERTY, ANYOX, B.C. - 103-P Date August 23rd, 1941 B.C.B. D.W.P. G.P.R. E.L.D.

> My visit to this property has been delayed for about two weeks because of the problem of getting aircraft out of Prince Rupert. All available aircraft have been in use for fire fighting purposes.

> I am now trying to schedule a trip to the property and, if I can make the necessary arrangements, will leave here on Sunday and fly to Prince Rupert via Smithers where I will pick up Tom Williamson. I should be back from this effort by the first of the month.

I have just received your memorandum regarding your itinerary for British Columbia and the Yukon and considered the possibility that you might wish to visit the Red Wing property with me. However, I have just talked on the telephone with Bill McGowan and he thinks that the second, or largest, showing on the property might be very difficult to get to and, in consequence. I feel that it should be left out of your plans. If you disagree, please advise me at once so that I can cancel my plans accordingly. I have told Bill McGowan that I would confirm my trip on Friday night by telephone.

> R.J. WILLIAM M. SIROLA.

Told Sirola by phone Aug. 25th to proceed WMS:rl with his Red Wing this as he had planned.

Mul

(FOR INTER-OFFICE USE ONLY)

To	P. M	. KAV	NAGH		 From	WILLIAM	М.	SIROLA		
Subject	RED	WING	PROPERTY,	Contd.				September	27th,	1961.

-2-

- (8) In the light of present knowledge, it is difficult to advocate further work on the property. The only hope would appear to be in the possibility that the one base metal zone on which the adit has been driven would have a northerly rake. This could only be determined by diamond drilling. It is very doubtful that prospecting or geophysical work would reveal anything new.
- (9) As a matter of interest, Dr. Mandy's statement that the property is not easy of access is a masterpiece of understatement. The adit is in a narrow defile which is best suited to hard-headed mountain goats. We had just barely retreated from this situation when numerous large boulders hurtled down the route we had just descended. It is, to say the least, non habit forming.

R.S.

P. WILLIAM M. SIROLA

WMS:rl

REC'D SEP 29 1961

(FOR INTER-OFFICE USE ONLY)

To	P. M. KAVANAGH	From	WILLIAM M	. SIROLA	C.K.W.
Subject	RED WING PROPERTY, ANYOX, B.C	103-P	Date	September 27th,	1961.D.W.P.
					G.P.R. E.L.D. J.I.B.

I have not yet completed a formal report on the above property, but will give you the basic essentials in this memorandum:

- (1) The main mineralized zone is terminated approximately 150' above Glacier Creek by a dyke, and it appears to lens out at a point approximately 100' above the old adit.
- (2) The old adit was not accessible even with the use of a helicopter. We managed to get within 20' of the portal but could not bridge the gap into the adit. The sampling done by Dr. Mandy in 1932 was duplicated by Alexander Smith of Ventures Limited in 1956. Smith also obtained another sample near the portal which gave 9' of 2.1% copper.
- (3) The mineralized zone on which the adit has been driven would appear to be lenticular both vertically and horizontally. It is not part of any major structure that could be associated with the Bonanza Creek ore.
- (4) The mineralized zone 600' East of the adit is on a vertical bluff and does have some prominent leached cavities as described by Mandy. However, the only mineral we could find in the float below this zone was pyrite and that was sparse. There is no evidence of any base metal mineralization whatever in this zone.
- (5) The prominent oxidation streak in the face of the bluff 400' West of the adit is quite narrow and again appears to be lenticular. Such oxidation streaks are fairly numerous in the area and I would attach no significance to them.
- (6) In 1956 Consolidated Mining & Smelting had all the ground staked from Bonanza Creek to the Red Wing property. It is reasonable to assume that they had a pretty hard look at any mineralization in that area.
- (7) No mineralization was found on the surface along the strike of any of the three zones which occur on the Red Wing, nor does any mineralization show up on the walls of Contact Creek which flows into Bonanza Creek at the site of the Bonanza Creek ore body. If any of the mineralization on the Red Wing property were headed in the direction of the Bonanza deposit, some evidence of this should have been found in Contact Creek.

Bonanga aub 1928-1935 724,193 tono Au Ag 31,525,588 2784 281,244 anyon - Geolden a. 1914-1936 23,948,419 lono Cu Au Mg 708, 891,739. 121,299. 6,638,088

- call from Serola, morning of Runer Rupert Rug 31/61 - can't get into lemel re Red Wing Property

- it could be extension of Ruyon - Brianza Ch - 3% lu - 19 kg. on same anticline - Ketchikan on Verrace -- sampled by other people. - Joseph P Mandy 9ft -4%

REFERENCE MEMORANDUM

	DATE	Oct. 2	19_6/
THE ATTACHED PAPERS ARE	REFERRED	5. Raw 1	3/6
то	1 111	0 / (800 4 1	1
ву	p.t.	nek	
PLEASE REPLY DIRECT		PLEASE HANDLE	
PLEASE SEE ME RE THIS		YOUR COMMENTS	
FOR YOUR INFORMATION	b	FOR APPROVAL	
PLEASE RETAIN		PLEASE RETURN A	CVI
You will not	from	Sirola's	
tacked news (enderly	ing my answer	ing
ue to hear) that	his i	beliegter vis	1
to the Red Wing		d - ad	
gielded very disa	ppoen	ting results	
HONEY PRINTING SERVICE 1444		. //	huK.

(FOR INTER-OFFICE USE ONLY)

To	W. M. Sirola		From	P. M. Kay	ranagh		G.H.	S.
Subject	Red.Wing.Property,	Amusu B C		Data	Ostabas 3	1061	B.C D.W	13.
Suojeti	xedw.i.ngrroperity.	Atty.O%;bb		Dave	06.6.008		E.L J.I. E.C	.D .D .B .J

Many thanks for your memorandum of September 27th on this property.

My impressions after reading the memorandum are that it is at the best an extremely long-shop proposition, and possibly not even that. With such a situation I certainly could not recommend that we deal on the property under the terms desired by McGowan, and I doubt very much whether I could recommend any continued interest on our part even if very reasonable terms could be obtained. If these are also your impressions and views - and I wish you would be very frank if they are not - I don't think it is necessary for you to write a more formal report on your examination. You should make brief mention of it in your monthly report for September.

PMK: ry

Paul M. Kavanagh Chief Geologist - Exploration

10319

(FOR INTER-OFFICE USE ONLY)

K.C.G.

REC'D OCT 10 1961

To P. M. KAVANAGH From WILLIAM M. SIROLA

R.D.S.

R.D.S.

Subject RED WING PROPERTY, ANYOX, B.C.

Date October 6th, 1961.

G.R.W.

C.K.W.

R.D.S.

R.D.S.

G.P.R.

ELD.

J.B.

Please find enclosed a claim map and a geological map of the Red Wing Claims area, and an excerpt taken from Memoir 175 of the 'Geological Survey of Canada'.

It had been my hope that the 200' wide structure East of the adit on Claim L-1992 would have contained mineralization which would have justified diamond drilling. Since this does not appear to be the case, and since there appears to be little likelihood of sizable tonnage in the principal ore zone, I am unable to recommend further study or work of any nature on this property.

I am glad that you did not want a formal report as these are quite time-consuming and, under the circumstances, quite unnecessary.

I think that, with the inclusion of the data from Memoir 175, you will have a fairly good picture of the property.

Regards,

WILLIAM M. SIROLA.



