

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

221300

Be. 4

JUN 25 1965

To P.M. KAVANAGH.

From W.M. SIROLA.

093m/01

Subject BABINE LAKE PROJECT

Date June 23rd, 1965.

W.S.R.
K.C.G.
M.C.
E.F.
R.D.S.
P.M.K. ✓
G.W.M.
R.O.M.
C.K.W.
J.B.S.
G.P.R.
K.F.L.
H.B.
E.C.J.

The total number of line miles flown on both projects was 2,850.

Wm M Sirola
p.p William M. Sirola.

WMS:iw.

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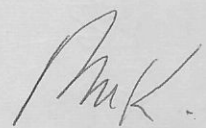
af BC 4

- W.S.R.
- K.C.G.
- J.H.S.
- E.F.
- R.D.S.
- B.C.B.
- PMK ✓
- G.W.M.
- R.O.M.
- C.K.W.
- J.B.S.
- G.P.R.
- K.F.L.
- J.P.
- E.C.J.

To..... W. M. Sirola From P. M. Kavanagh

Subject..... Babine Lake Project Date June 22nd, 1965

Please let me know as soon as possible the total number of miles of aeromagnetic flying which we have done in both sections of our overall Babine Lake project.



Paul M. Kavanagh
Chief Geologist - Exploration.

PMK:sw

6/8. B.C. 4.

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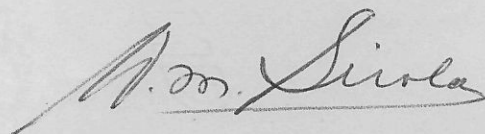
MAY 7 1965

To P.M. KAVANAGH. From W.M. SIROLA.

Subject BABINE LAKE STAKING BY KERR ADDISON. Date May 6th, 1965.

✓	W.S.R.
✓	K.C.B.
✓	J.H.S.
	F.F.
	R.D.S.
	E.C.B.
	P.M.K.
	G.W.M.
	R.O.M.
	C.K.W.
	J.B.S.
	G.P.R.
	K.F.L.
	J.H.
	E.C.J.

I thought you would be interested to know that for the last three months, at least, a gentleman by the name of Sandner, from Hings' organization, has been visiting the various mining company offices soliciting business for the airborne geomag equipment. In the course of this work, he has been exhibiting the results of Noranda's ground geophysics on the Newman Peninsula, as well as the airborne work done on the property by Hunting Surveys for Noranda. This would lead one to believe that the Noranda people here have not considered this exactly a hush-hush type of situation, and that they could expect any of the mining companies to undertake a programme similar to the one we carried out in that area. It, therefore, surprises me that any unhappiness or indignation should arise from our efforts in that vicinity. I have just finished talking with Morris Menzies, and he said that they were very glad to have us as neighbours; but he thinks we did manage to pick up part of an E.M. anomaly which they had not as yet covered.



William M. Sirola.

WMS/iw.

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42
BC 4

To..... W. M. Sirola..... From..... P. M. Kavanagh.....
Subject..... Geophysical Profiles - KAM Group, Babine Lake, Date..... April 28th, 1965
B.C. (93-M-8)

W.S.R.
K.C.G.
J.H.S.
E.F.
R.D.S.
B.C.B.
P.M.K. ✓
G.W.M.
R.O.M.
C.K.W.
J.B.S.
G.P.R.
K.F.L.
J.L.B.
E.C.J.

With reference to your memorandum of April 21st I would just like to say that Crone has looked at the geophysical sketch which you attached and he thinks that the main E.M. anomaly may be reflecting primarily a magnetic source but there may ~~be~~ conceivably be a legitimate conductor being reflected by the small positive blip which occurs 2,500 feet from the left hand starting point of your E.M. profile.

With respect to the main E.M. anomaly he thinks that a good way of checking whether it is caused by a magnetic source would be to run a vertical loop survey over it to determine whether a reverse cross-over occurs. He, of course, readily admits the possibility that the source may well be commercially copper bearing magnetic rock.

I would much prefer that you refer to ~~the~~ claim group by the accounting code designation we have given it rather than by its staking name such as the KAM group. At the moment we don't even have any sketch here showing which Babine Lake group is the KAM group. However, as you know, we do know the various groups with respect to their accounting code designation names listed on the little notice forms, copies of which are always sent to you.

As a start please let me know which of the various groups the KAM group is.

Paul M. Kavanagh
Chief Geologist - Exploration.

PMK:sw

43 BC/4 APR 22 1965
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W.S.R.
K.C.G.
J.H.S.
E.F.
R.D.S.
B.C.B.
P.M.K.V.
G.W.M.
R.O.M.
C.K.W.
J.B.S.
G.P.R.
K.F.L.
I.P.
E.C.J.

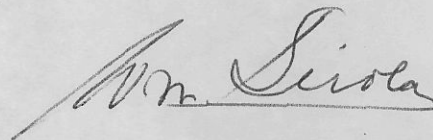
To..... P.M. KAVANAGH. From..... W.M. SIROLA.

Subject..... GEOPHYSICAL PROFILES - KAM GROUP, BABINE LAKE, B.C. Date..... April 21st, 1965.
(93-M-8)

The accompanying plan shows the relationship between E.M. and magnetic profiles run along an eastwest location line on the KAM group.

There is good correlation between the two methods, but, as you know, I expressed a little concern over the fact that the E.M. anomaly occurs where the dip angles were in the order of 60°, or more. Duncan Crone did not appear to be concerned with this aspect of interpretation, but it might be interesting to show him the profile when you get an opportunity.

As far as I am concerned, it is at least potentially promising, and I hope that subsequent work will indicate that the E.M. anomaly is indeed a valid one.



William M. Sirola.

WMS/iw.
encls:

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MAR 25 1965

To..... P.M. KAVANAGH..... From..... W.M. SIROLA.....

Subject..... BABINE PROJECT, B.C..... Date..... March 24th, 1965.....

W.S.R.
K.C.G.
E.F.
R.D.S.
B.C.B.
P.M.K. ✓
G.W.M.
H.A.P.
C.K.W.
J.B.S.
G.P.R.
K.F.L.
J.B.
E.C.J.

The flying for this project was completed on March 14th, and we worked on the charts and maps until March 17th*.

We have decided that four claim groups should be acquired immediately, and Fred Chow, Tom Rolston, David McRae and David Barclay left yesterday for Smithers and Babine Lake. The four claim groups comprise a total of 135 claims: The largest block will be located at the north end of Nakinilerak Lake and consists of 58 claims; adjacent to it, on the east, will be a smaller block of 9 claims; there will be a 36 claim group one mile east of the Noranda group on Nakinilerak Lake, and this block will be contiguous to a 20-claim group also held by Noranda on an unnamed creek which flows south to Hautête Creek; The fourth group, consisting of 32 claims, will be on the west shore of Morrison Lake across from the Noranda claims.

We felt that it was unwise to delay the staking of these particular anomalies because of the likelihood of tie-on staking by other companies and individuals, and because Noranda may have, or could develop, more information in this area at any time.

The aforementioned claim groups, which we hope to have staked within a weeks time, were selected not only because of their proximity to the Noranda ground, but largely because the anomalies are very similar to those encountered over Noranda's mineralized zone on Nakinilerak Lake. Perhaps it is a little early to speak of mineralized zones, but there is a diamond drill and a bulldozer at work right in the heart of the magnetic anomaly on Noranda's Nakinilerak group, so I am assuming that a mineralized zone does exist.

In addition to the anomalies we are about to stake, there is an interesting, but rather extensive belt of anomalies extending north-westward along Hautête Creek, from Natowité Lake to the south end of Nakinilerak Lake. We considered these to be too extensive to stake, but they are definitely worthy of investigation after breakup.

There are some obvious large belts of volcanic rocks which, of course, produce anomalies of great extent, but these have been eliminated, for the time being at least, as having no economic value. There are, in addition, a few other scattered anomalies

* At Babine Lake.

contd/.. - 2 -

I described the contents of this memo verbally to Mr. Row on Apr. 5th. PMK.

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To.....From.....

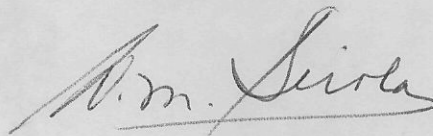
Subject.....Date.....

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- 2 -

which we hope to investigate, and which you will see on the photo mosaics when we have an opportunity to assemble a duplicate set for you.

The enclosed sketch map indicates the location and size of the claim groups we are in the process of acquiring.



William M. Sirola.

WMS/iw.
Encls:

KERR ADDISON MINES LIMITED

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OB Bc/4.

To.....W. H. Sirola.....From.....P. M. Kavanagh.....

Subject.....Babine Lake Project, B. C.....Date.....February 5th, 1965.....

With reference to the last two paragraphs of your memorandum dated February 4th, I think that you should proceed as quickly as possible to fly the area north of the Newman Peninsula.

You need not, for budget reasons, delay the project in order to use Stikine project helicopter hours.

W.S.R.
K.C.G.
E.F.
R.D.S.
B.C.B.
P.M.K. ✓
G.W.M.
H.A.P.
C.K.W.
J.B.S.
G.P.R.
K.F.L.
J.B.
E.C.J.

PMK

Paul M. Kavanagh
Chief Geologist - Exploration.

PMK:sw

KERR-ADDISON GOLD MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

FEB 5 1965

To P.M. KAVANAGH.

From W.M. SIROLA.

Subject BABINE PROJECT.

Date February 4th, 1965.

W.S.R.
K.C.G.
E.F.
R.D.S.
B.C.B.
P.M.K. ✓
G.W.M.
H.A.P.
C.K.W.
J.B.S.
G.P.R.
K.F.L.
J.I.B.
E.C.J.

Enclosed is the Smithers-Fort St. James geological sheet on which we have shown the outlines of the area we flew in the interval January 14th - 20th, 1965, and another area which we propose to fly in the future.

While I had suspected for sometime that the mineralization on MacDonald Island (which is shown as No. 61 on the map sheet) was detectable with our equipment, I could not prove the point until after the first of the year. I was understandably reluctant to purchase photography for any area until I had this information.

It requires approximately one month to get $\frac{1}{2}$ mile photos from Victoria and have these made into some form of crude mosaic. In the absence of aerial photography, we felt we could use 1:50,000 topography sheets for flight control. Unfortunately, such topography is not available anywhere in the vicinity of the copper deposits on Babine Lake.

Since the mineralization in that general area appears to be in or associated with Cretaceous or later intrusive rocks, we selected an area in which these rocks could be expected to occur, and which was, largely, covered by overburden. Furthermore, we wanted an area which we could fly in a straight-line pattern. The area chosen embodied all these characteristics, and is, of course, in the heart of a heavily mineralized belt centred at Smithers.

In preparation for the survey, we flew a reconnaissance traverse from Smithers to Babine, Morrison and Nakinilerak Lakes, and back down to Newman Peninsula and over the Granby deposit on MacDonald Island.

The Noranda claims on Morrison Lake produced a 300 gamma anomaly; the claims on Nakinilerak Lake produced a 700 gamma anomaly; the Newman Peninsula claims were only feebly magnetic; and the Granby deposit on MacDonald Island produced an anomaly of 120 gammas. This, to me, was sufficient evidence that the deposits were detectable, and could, in theory at least, be sorted out from larger anomalies which might be produced by basaltic flows or basic intrusive rocks.

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To.....From.....

Subject.....Date.....

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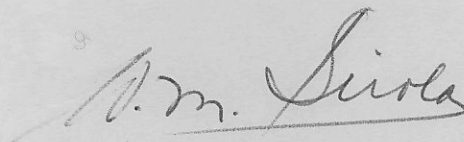
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The area we flew, east of Smithers, involved some 1,100 line miles at a flying cost of approximately \$3,600. We found that while reasonable control was possible by the use of 1 : 50,000 topography, the control in no way compares with that available from an air photo mosaic such as we had for the Vangorda project. However, in fairness it should be stated that even with photo mosaics the control is not as good in the winter as it is in the summer.

Fred and Tom are diligently transferring the data from the flight charts to the plan maps, and this work should be completed within one week's time. As soon as possible thereafter, I will send you copies of this work with my recommendations for follow-up ground surveys.

It would be desirable, perhaps, to be able to use some of the Stikine project helicopter hours to fly the proposed area on Babine Lake, but I am a little reticent to leave it that long. In any case, photography for the second area has been ordered and should be received soon. We already know, from our reconnaissance flight, that there are anomalies between the claim groups on Newman Peninsula and the claim groups on Morrison and Nakinilerak Lakes. From one flight line, of course, it is not possible to determine whether these are caused by basaltic rocks, or by some other geologic phenomena.

I bear in mind the fact that we should live within the \$15,000 budget for this project, but feel that if it gets sufficiently interesting we should be prepared to dip into some part of the \$40,000 we have allotted for B.C. General.



William M. Sirola.

WMS/iw.