

KERR ADDISON MINES LIMITED  
405 - 1112 WEST PENDER STREET  
VANCOUVER 1, B.C.

# Swim Lake 'A' Group - Drilling

# COPY

P.M. Kavanagh.

008609

W.M. Sirola.

Swim Lakes "A" Group - Boyles Bros. Diamond  
Drilling Contract.

November 9th, 1965.

I have discussed the matter of moves in excess of  $\frac{1}{2}$  mile with John Gable, and he in turn has discussed the matter with Jack McTague, who appears to be the Contract Department Manager. The only concession they are prepared to make in regard to moves in excess of  $\frac{1}{2}$  mile is that the cost of such moves, less \$100.00, will be charged to the company. While this is not, to my mind, a completely satisfactory solution, it should be borne in mind that there would be very few such moves, and that contractors, such as Longyear, will pay only for 500 ft. moves.

If we leave one drill at Line 34 W. when we are moving into the property, then the moving of that drill to the gravity anomalies will not exceed  $\frac{1}{2}$  mile, if measured in a reasonably straight line.

The problem of long moves should not arise at all in connection with the three drills which would be working in the main target area.

If the fourth drill had to be brought from the east end of the property to the west end, this would, of course, be a long move which would be fairly expensive. However, the presence of the small tractor on the property greatly reduces moving costs.

Boyles Bros. will submit a letter today covering this amendment to the existing contract.

William M. Sirola.

WMS:iw.

**KERR ADDISON MINES LIMITED**  
(FOR INTER-OFFICE USE ONLY)

RECEIVED  
SEP 21 1967

KERR ADDISON MINES LTD.

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

Subject..... Vangorda Deposit Core Material..... Date..... September 19th, 1967.....

Enclosed are a number of rock chips of the core obtained from the two N-size holes drilled in Vangorda deposit in 1964, and which I have received from the Noranda lab.

Would you please bring them to Dr. Sinclair and, if possible, choose 2 or 3 representative ones for him to study mineralographically. (ask your son Richard if he can spell that last word - it only has 19 letters)



Paul M. Kavanagh

PMK:sw

Enc.

KERR ADDISON MINES LIMITED  
44 KING STREET WEST  
TORONTO 1, ONTARIO

SW 1M  
Scrota  
COPY  
RECEIVED  
SEP 21 1967  
KERR ADDISON  
MINES LTD.

September 19th, 1967.

Mr. Richard O. Huch,  
The Galligher Company,  
545 W 8th South,  
Salt Lake City, Utah,  
U. S. A.

Dear Mr. Huch:

I am writing this letter to confirm my telephone conversation with you yesterday in which you said that you would be able to run metallurgical tests on material from our Vangorda and Swlm Lakes deposits in the Vangorda region, Yukon, Canada.

We are making arrangements to obtain 50 lb. representative samples from each of the deposits which we will be forwarding to you within the next month or so.

In the meantime we would appreciate it if you could advise us as to what you would expect to charge us for the preliminary metallurgical tests you have in mind to carry out.

Yours sincerely,



Paul M. Kavanagh  
Vice-President - Exploration.

PMK:sw

COPY

P. M. Kavanagh

W. M. Sirola

Swim Lakes Core Sample For Metallurgical Testing

September 27, 1967

Fred Chow has returned from Swim Lakes and has taken representative samples from the following drill hole sequence:

<u>A-4</u>	193 - 211
	299 - 307
	425 - 435
<u>A-29</u>	130 - 135.5
	176 - 1P1
	216 - 230
<u>A-10</u>	356.2 - 362
	418.0 - 423
<u>A-20</u>	160 - 164

We await your pleasure regarding shipment to the Galigher Company in Salt Lake City.

W. M. Sirola.

WMS/1k

# KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

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

Subject..... Swim Lakes Core Sample for Metallurgical..... Date... September... 21st., 1967.....  
Testing.

This is to confirm the arrangements we made over the phone on Monday, i.e. that Fred is to make a 50 lb. composite sample from mineralized sections of Holes A-4, A-6, A-10, and A-29, the sample to be representative of grain size and particularly to contain 8-10% combined lead-zinc. He is to use the remaining half-core for the sample.

Fred is to forward the sample to the Vancouver office and when it arrives you are to let me know, and then await notice from me to forward it on to The Galigher Company in Salt Lake City.

I want you to send me the data concerning the exact footage intervals that Fred uses from each hole in making the composite sample.



Paul M. Kavanagh

PMK:sw

cc: F. Chow.

---

A-4	{	193 - 211
		299 - 307
		425 - 435

---

A-29	{	130 - 135.5
		176 - 181
		216 - 230

---

A-10	{	356.2 - 362
		418 - 423

---

A-20	{	160 - 164
------	---	-----------

---

SIROLA  
RECEIVED

MAY 16 1968  
May 6, 1968  
KERR ADDISON MINES LTD.

TO: Messrs. E. Futterer, P. M. Kavanagh, W. G. Deeks

FROM: J. H. Stovel

RE: Visit of Mr. Y. Suzuki

*Re. Vangorda & Swim Lakes Deposits*

Mr. Yoshiteru Suzuki, Managing Director of Dowwa Mining Company Limited has an appointment to see me in my office at 10 a.m., Monday, May 13. He will be accompanied by Mr. M. Ogiri of Toyomenka, Inc. It is my understanding that they wish to discuss the possibility of purchasing concentrates from Vangorda - Swim Lakes.

As I have to attend a meeting at 11 a.m. that morning, it would be appreciated if some of you could continue the meeting with Mr. Suzuki if this should be necessary.

JHS/mdh

*The meeting was held. Mr. Suzuki, who developed a new metallurgical process for fine-grained lead-zinc milling last year, expressed confidence in being able to solve the Vangorda - Swim Lakes metallurgy & we agreed to send them some core sample for study. They said their study would take about one month.*

*PMK  
May 14/68.*

cc: Sirola

RECEIVED  
MAY 14 1968

KERR ADDISON MINES LIMITED  
(FOR INTER-OFFICE USE ONLY)

To: *M. Sirola* From: *P. M. Kavanagh*  
KERR ADDISON MINES LTD  
Per: *Vangorda & Swain Lakes Metallurgical Sampling.*  
Subject: *Frontier Explorations Limited.* Date: *May 13th, 1968.*

The account on page 4 of the May 9th issue of the George Cross News Letter concerning Cominco's optioning of Frontier's property in the Vangorda area, and the report that Cominco is to do some drilling (apparently before June 15th) might mean that that drill could become available to us for our metallurgical sample drilling.

Would you please contact the Cominco office and determine whether there would be any likelihood of this happening.

*Paul*

Paul M. Kavanagh

PMK:sw

*cc Vangorda File.*

COPY

P. M. Kavanagh

W. M. Sirola

Vangorda & Swim Lakes Properties, Y.T.  
Metallurgical Drilling

May 17/68

A site for the Winkie Drill on the Swim Lakes property must meet the following requirements:

- 1) Reasonably shallow overburden
- 2) The top of the ore horizon should not be more than 100 feet deep.
- 3) The ore section should core well and be approximately average grade.
- 4) The site should be within reach of water supply.

The following possibilities were considered:

<u>Hole Number</u>	<u>Depth of Overburden</u>	<u>Depth of Ore Section</u>	<u>Ore Grade</u>	<u>Remarks</u>
A-6	84 ft.	154 - 232	15% Pb+Zn	Very poor recovery
A-19	33 ft.	83 - 113	8.7% "	Good location but ore thickness only 30 ft.
A-23	16 ft.	125 - 200	8.4% "	Very poor recovery
A-24	23 ft.	152 - 196	8.2%	Located in Zone #2, otherwise acceptable.
A-29	17 ft.	130.5 - 181	8.3%	Good location.

Reviewing the above tabulation, one has to reject A-6 and A-23 on the basis of recovery. A-24 is a suitable location but there is some possibility that there are metallurgical differences between Zone No. 2 in which A-24 is located and Zone No. 1. A-19 is a good location if a 30-foot ore section is adequate. The core from this section would weigh approximately 2.3 pounds per foot for a total of 69 pounds. This would provide both the Japanese and Galigher with 34½ pounds apiece provided no core was sent elsewhere for assay. The other acceptable location is A-29.

COPY

-2-

When Fred Chow left the Swim Lakes property last November, Hole A-21 was making abundant water and it is quite possible that this would still be the case on July 1st. We have an abundant supply of two inch aluminum pipe with couplings on the property so that the driller need not bring more than 200 or 300 feet of hose. Should we choose A-29, we would have to string approximately 1,000 feet of pipe and consequently would require a pump or pumps capable of handling this length of water line against a 100-foot head. My choice would be A-19 provided that the ore obtained would be sufficient. I note however in your memorandum of May 1st that you are considering 100 pounds from each deposit. This would then shift the choice of location to A-29 where one hole theoretically should provide enough material.

On the Vangorda property, drill hole No. 1 would be a good location except that core recovery was poor. The next choice would appear to be hole No. 15 where we drilled metallurgical holes in 1964. My only concern at this site is that the ore section is a little deep (164 to 246 feet) and I do not know if the Winkie drill could handle this. If it can, then this location is the obvious choice. Hole 33 is a good location but the Winkie drill would have to contend with 65 feet of overburden. I assume that this would be rather difficult for that machine.

Perhaps you would ask the driller whether or not he could drill to a depth of 246 feet in good ground conditions and if he can, then we should put the Winkie drill at Hole #15. The distance from Hole 15 to Vangorda Creek is less than 100 feet so there is no problem with water supply.

Shipment of the drill should be via railway express to Edmonton, then via Canadian Freightways to Whitehorse. The cost of 500 pounds and over is \$6.93/CWT from Edmonton to Whitehorse. You should allow seven days for shipment from Edmonton to Whitehorse.

W. M. Sirola.

WMS/lk

Encl. Swim Lakes Diamond Drilling Plan, Scale 1" = 200 feet.  
Vangorda Mines Diamond Drill Hole Plan, Scale 1" = 100 feet.

*cc Vangorda file*

# KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

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

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

RE: WINKIE DRILL FROM QUEBEC

Ship via railway to Edmonton. Consign to Canadian Freightways

Thence, Canadian Freightways to Whitehorse.

Price: Minimum, 100#'s	\$7.25
100# - 500#	7.25/100#'s
500# & over	6.93/100#'s

Trucks leave daily from Edmonton to Dawson Creek but trucks leave Dawson Creek on Tuesdays and Saturdays only. Therefore to connect with Dawson Creek trucks, shipments should leave Edmonton as follows:

Friday	from	Edmonton	for	Tuesday	Dawson	Cr.	departure
Tuesday	"	"	for	Saturday	"	"	"

COPY

P. M. Kavanagh

W. M. Sirola

Metallurgical Testing, Vangorda and  
Swim Lakes, Y. T.

May 30, 1968.

Thank you for sending me the Galigher final report on this work.

Huch seems to make a great deal out of the so-called "aging" but surely the basic problem is still one of liberation. I would think that all lead-zinc ores develop a microfilm of oxidation products and one wonders why the Vangorda area ores should be different from any other lead-zinc ore.

Since no determinations were made on silver, gold and copper, I wondered at what stage Galigher would report on this. It would also be helpful to know the iron content of the number three cleaner concentrates since there are definite limitations on the quantity of iron that is acceptable.

I have been curious about the comparison between the Anvil test work and our own and John Britton of Britton Laboratories here told me that the preliminary tests done in his lab on Anvil specimens were not very different from the results we obtained from Galigher. Britton apparently had to do considerably more testing on the Anvil ores before a satisfactory product was made. He points out that the Galigher people have access to the Colorado School of Mines pilot plant and he thinks that perhaps the final work on the Anvil ores was awarded to Galigher for that reason.

W. M. Sirola.

WMS/lk

SWIM FILE

**KERR ADDISON MINES LIMITED**

SUITE 1600 - 44 KING STREET WEST  
TORONTO 1, ONTARIO  
TELEPHONE 362-7111

June 28, 1968

RECEIVED  
JUL 21 1968  
KERR ADDISON MINES LTD.  
Per \_\_\_\_\_

Mr. Y. Suzuki  
Managing Director  
The Dowa Mining Company, Ltd.  
1, 1-Chome, Marunouchi, Chiyoda-Ku  
Tokyo, Japan

Dear Mr. Suzuki:

I regret the delay in replying to your letter of June 7 which arrived during a period of my extended absence from the office.

We expect to have samples from our Vangorda and Swim Lakes deposits available before the end of July and will arrange with your Mr. Ogiri concerning shipment.

It is my sincere hope that with your developed know-how in treating fine grain sulphide ores, your Company can develop a metallurgical circuit which give the mineral recovery necessary for production.

It is noted that Mr. Hashimoto of your Tronto office would like to visit the mine site this summer. While there is little to see at this time, we would be pleased to accommodate him. However, our senior exploration personnel will only be in the area infrequently for brief visits and it might prove difficult to have Mr. Hashitomo's visit coincide with their presence in the area. Dr. P. M. Kavanagh, Vice-President - Exploration, will telephone Mr. Hashitomo in this regard.

Yours very truly,

KERR ADDISON MINES LIMITED



J. H. Stovel  
President

JHS/mdh

cc: Mr. Hashimoto  
Mr. Ogiri  
Mr. Sirola  
Dr. P. Kavanagh

CC - VANGORDA FILE

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

RECEIVED JUN 12 1968

To..... W. M. Sirola ..... From..... P. M. Kavanagh ..... KERR ADDISON MINES LTD. Per.....

Subject..... Vangorda & Swim Lakes Properties, Y.T. ..... Date..... June 10th, 1968. ....  
Metallurgical Drilling.

This is prompted by your memorandum of May 17th on this matter.

One thing we should keep in mind is our estimated overall grade of the deposit which is 3.8% Pb and 4.7% Zn. In this respect neither the 83-113 foot section in Swim Lakes Hole A-19 nor the 130.5 - 181.0 foot section in Hole A-29 are suitable, both being higher in lead than zinc. A section that does fit is the 205.0 - 230.7 foot section in Hole A-29 which has a grade of 3.6% Pb and 5.4% Zn. I therefore think that we should drill two holes in this location with the same attitude as A-29 and each to the 231 foot depth. The Winkie should be able to do this particularly as the overburden is only 17 feet thick. If for some reason it couldn't then we would have to be satisfied with samples from the shallower 130.5 - 181.0 foot section. In the event that the first plan were successful I have in mind that the 25 foot section from one hole would be sent to Galigher and the same section from the other hole would be sent to the Japanese.

The Vangorda deposit also is higher in zinc than lead, having an average grade of 3.2% Pb and 5.0% Zn. Hole 15, at which we drilled the two big holes in 1964, fits the bill; the 160 - 247 foot sections in both of our big holes together averaged 3.0% Pb and 5.8% Zn. We should drill one hole there to 250 feet and obtain from it approximately 180 lbs. of sample. Based on the detailed assay results from our big hole 15-A, we could send the 160 - 190 foot section to Galigher and the 216 - 244 foot section to the Japanese; the former section assayed 3.1% Pb and 5.7% Zn, and the latter section assayed 2.9% Pb and 5.7% Zn. We could keep the remaining part of the total section for further possible use.

15C.  
160-190 = 30' } 2-3 Core Boxes  
216-244 = 28' }

Paul

Paul M. Kavanagh.

PMK:sw

A-29 Dip - 60°  
A-25 " - 90°

A29A1B  
130.5-181.0 = 50.5' = 2 Core Boxes  
205.0-230.7 = 25.7' = 1 " "  
IF 2 HOLES DRILLED + ROCK DISCHARGED, 6 CORE BOXES REQUIRED.

Swim

P. M. Kavanagh

W. M. Sirola

COPY

Swim Lakes - Vangorda Metallurgical Drilling

July 22, 1968

The drillers reached Whitehorse on July 3rd instead of on July 2nd as scheduled. Constantini's luggage was left behind in Edmonton and did not reach Whitehorse until July 5th.

The bulldozer was not at the Pelly River ferry site on July 4th as scheduled but it did appear on July 5th but could not cross until July 6th because the blade and ripper had to be removed before making the ferry crossing. The cat and drillers arrived at Swim Lakes at approximately 10:30 P.M. on July 6th.

While waiting for the cat, Constantini's luggage and pipe fittings to arrive from Whitehorse, I took Gagnon to the site of Hole 15 on the Vangorda property.

On checking Hole #A-21 on the Swim Lakes "A" Group, we found it to be frozen solid. You may recall we had intended to use this as our water supply. Fortunately there was sufficient run-off water along the road to the drilling area to enable us to build a sump in which the water supply should last as long as it is required.

On July 8th the drill was set up two feet west of A-29 and commenced drilling on July 9th. I left Swim Lakes that day to make the Hart River examination and returned on July 11th to find that Gagnon had moved the drill to a location two feet east of A-29. He did this on the mistaken assumption that he could core better on this latter setup than he could in his former location where he had reached a depth of 69 feet before pulling out. He was then advised to not concern himself unduly with coring in the unmineralized rock above and between the zones and when I left the property on July 14th, he had reached a depth of 119 feet at 1:30 P.M. and was then beginning to core properly.

While it is always difficult to predict the outcome of any drill hole being drilled with limited equipment, it seems reasonable to assume that Gagnon should be able now to complete the holes without incident.

(continued - Page 2)

COPY

- 2 -

The road into the Swim Lakes group is rough in spots but the driller has been equipped with the necessary parts for repairing the truck which was damaged to some extent in the course of getting into the property. He has also been advised that gasoline for the drill and the truck will be made available to him on the Faro property through the courtesy of the Anvil people.

In case of difficulty, he has been advised to proceed either to Ross River or the Anvil property where he can contact either Ken Thompson, this office, or even his home base if necessary. He was advanced \$100.00 from this office on July 13th.

When the drilling is complete, he has been instructed to send the core via Canadian Freightways to Kerr Addison Mines, care of Crone Storage, Vancouver. Mr. Thompson has also been advised the disposition of the core.

When the core reaches Vancouver, we will have it crushed to 1/4" at Coast Eldridge. The appropriate sections will have to be assayed and the remainder distributed to Galigher and the Toyomenka people in Japan. We will get shipping instructions from Mr. Ogiri prior to shipment.

W. M. Sirola.

WMS/1k

cc Vancouver File

COPY

P. M. Kavanagh

W. M. Sirola

Swim Lakes Metallurgical Sampling

July 31, 1968.

We have today telephoned to Ken Thompson the following instructions: When he next makes radio contact with Gagnon and his partner, he is to advise them to proceed to Swim Lakes by aircraft from Ross River (if Swim Lakes road is too difficult to negotiate by truck). At Swim Lakes, they are to remove the split core from the following drill holes and place the core in aluminum boxes for shipment to Vancouver:

DDH A-12:

320.5 - 399.0 = 78.5 ft. averaging 3.8% Pb, 4.0% Zn and 1.2 oz. Ag.

DDH A-24:

151.7 - 200.5 = 48.8 ft. averaging 3.7% Pb, 4.8% Zn and 1.8 oz. Ag.

These holes were selected because of their ore grades, a somewhat higher percentage of Zinc than Lead and good recoveries. They are also complete sections which have not been previously tapped for metallurgical purposes.

The amount of split core involved should be very adequate for the Dowa people and I understand from Mr. Ogiri that they do not care what size this material is crushed to in Vancouver. We will arrange to have the core crushed to 1/4" and a representative sample will be assayed by Coast Eldridge.

This sojourn to Swim Lakes is to take place after they have drilled a second hole at Vangorda.

The shipping instructions given to both Gagnon and Thompson are that the core is to be shipped to Kerr Addison Mines Limited, care of Crone Storage, 760 Beatty Street, Vancouver B.C., via Canadian Freightways from Whitehorse.

W. M. Sirola.

WMS/1k

# KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

To P. M. Kavanagh From W. M. Sirola  
Subject Swim Lakes - Vangorda Metallurgical Sampling Date September 5, 1968.

By this weekend we will have made the following distribution of core for metallurgical testing:

Swim Lakes "A" Group - DDH #A-24, 151.7 - 200.5 = 48.8 feet averaging 3.7% Pb, 4.8% Zn and 1.8 oz. Ag to be shipped to Mr. Ogiri of Toyomenka in Vancouver who in turn will send it to Japan. I estimate that the core from this hole will weigh approximately 60 lbs.

From the Vangorda deposit we have core from drill holes 15-C and 15-D. I will send the upper section from 15-C (160 - 200 feet) which should weigh approximately 40 lbs to Galigher. The lower section from 15-C (201 - 250 feet) which should weigh approximately 50 lbs will go to Mr. Ogiri.

Each of these sections of core will be crushed to 1/4" and then sampled for lead, zinc, silver and copper prior to shipment.

We will have remaining for possible future use, all of the split core from DDH #A-12 at Swim Lakes. This is a section from 320.5 - 399.0 feet, or 78.5 feet averaging 3.8% Pb, 4% Zn, and 1.2 oz of Ag, plus all of DDH #15-D from Vangorda. This latter hole was drilled to a depth of 250 feet.

W. M. Sirola.

WMS/lk

KERR ADDISON MINES LIMITED  
405 - 1112 WEST PENDER STREET  
VANCOUVER 1. B.C.

COPY

September 13, 1968.

The Galigher Company,  
545 - 585 West 8th South Street,  
P.O. Box 209,  
Salt Lake City, Utah, 84110,  
U. S. A.

Attention: Mr. R. O. Huch

Dear Mr. Huch:

Through Coast Eldridge of Vancouver, we have today arranged to ship you 36 pounds of drill core from the Vangorda property in the Yukon Territory. This core has been crushed approximately to 1/4", riffled, coned and quartered. A representative sample from this section of core gave the following assays: Ag - 1.66 oz; Pb - 4.30%, Zn - 5.06%, Cu - 0.12%.

We have not shipped you additional core from the Swim Lakes deposit because the small drill we used was unable to core on that property. Since you feel that the existing core from Swim Lakes would be too "aged", we have refrained from sending any of this material to you.

Yours very truly,

W. M. Sirola.

WMS/lk

cc/ Dr. P. M. Kavanagh,  
Toronto office.

KERR ADDISON MINES LIMITED  
405 - 1112 WEST PENDER STREET  
VANCOUVER 1, B. C.

COPY

September 13, 1968.

Mr. M. Ogiri, Manager,  
Toyomenka Inc.,  
817 - 675 West Hastings Street,  
Vancouver 2, B. C.

Dear Mr. Ogiri:

We have arranged through Coast Eldridge to ship you the following diamond drill core: from the Swim Lakes property 63 pounds assaying Ag - 1.62 oz; Pb - 3.96%; Zn - 4.60%; Cu - 0.21%.

From the Vangorda deposit 36 pounds assaying Ag - 1.77 oz; Pb - 4.74%; Zn - 5.22%; Cu - 0.15%.

All of this work has been crushed to approximately 1/4" prior to assay. We trust that the samples will meet your requirements but please do not hesitate to contact me if you should need additional core.

We look forward to hearing from you at the completion of the tests.

Yours very truly,

W. M. Sirols.

WMS/lk

cc/ Dr. P. M. Kavanagh,  
Toronto office.

HEAD OFFICE  
2 BROADWAY  
NEW YORK, N.Y. 10004

OTHER OFFICES  
CHICAGO, LOS ANGELES,  
HOUSTON, PORTLAND  
SAN FRANCISCO, MONTREAL

# TOYOMENKA, INC.

817 THE ROYAL BANK BUILDING  
675 WEST HASTINGS STREET  
VANCOUVER 2, BRITISH COLUMBIA  
CANADA

TELEPHONE  
682-7436

CABLE ADDRESS  
"TOYOMENKA" VANCOUVER

TELEX NO.  
04-5778

Ref: VCR-B-588

March 20, 1969

Mr. Edward Futterer  
Vice President  
Kerr Addison Mines Ltd.  
44 King Street, West  
Toronto 1, Ontario

Dear Mr. Futterer,

Vangorda and Swim Lake ore sample tests have now been completed and the report will be mailed to you from Tokyo shortly.

However, we would like to summarize the result as follows:

- 1) Quite a number of tests have been conducted but if we make combination of method by which the best result is obtained:
  - a) In case of not producing copper concentrate Pb concentrate can be up-graded to 52.18% for Swim Lake and 49.85% for Vangorda. Zn concentrate can be up-graded to 52.68% for Swim Lake and to 49.43% for Vangorda.
  - b) In case of producing copper concentrate Cu concentrate can be up-graded to 11.73% for Swim Lake and to 6.81% for Vangorda. Pb concentrate can be up-graded to 53.89% for Swim Lake and to 49.10% for Vangorda. Zn Concentrate can be up-graded to 44.88% for Swim Lake and to 49.03% for Vangorda.
- 2) Recovery has the range of 60% to 70% for Pb and Zn and of 40% to 50% for Cu. These figures, especially 60% to 70% recovery for Pb and Zn are considered to be comparatively low. However, the sample seems to be weathered to some extent. Besides, Dow has some idea to improve the recovery, although they could not conduct the test at this time. Therefore, Dow considers that in actual operation, the recovery would be better than those figures.
- 3) Dow has the impression that the result of test is encouraging but a somewhat large scale test is absolutely required for making the decision. Mr. Suzuki, Managing Director of Dow, is scheduled to visit South America in April 1969 and he would like to discuss in detail with you in Toronto on his way back to Tokyo.

We shall inform you his estimated arrival date in Toronto as soon as it is fixed. Meantime, we would appreciate it if you could let us know your comments on the result of test in order to make the discussion between you and Mr. Suzuki more fruitful.

Looking forward to hearing from you soon, we are

Yours very truly,

TOYOMENKA, INC.

  
M. Ogiri

MO:ldw

c.c. Mr. W. M. Sirola, Kerr Addison, Vancouver

*cc Vangorda File*  
*ABE FUTURE TO REPORT*

COPY

G.M. Hogg

W.M. Sirola

SWIM LAKES 'A' GROUP  
Assessment Diamond Drilling

July 20, 1971.

Ted LaRose reported by telephone today that drill hole A-41 had reached a depth of 229'.

The hole penetrated 17' of overburden and from 17' to 229' is in rusty sericite schist with four or five thin layers of graphitic schist. They have reamed casing to 150' and will continue to 200', at which point the rock becomes more massive and will probably stand on its own. As anticipated there is no mineralization thus far but progress should be good from here on in.

The water supply is at drill hole A-1, which is approximately 2,100' east of A-41. The supply is not good but I have suggested that they dig a sump with the D-4 cat.

LaRose has encountered one 400 to 700 gamma magnetic anomaly on line 18W at 3,100 north, and the anomaly extends to the adjacent line on either side. As yet he has done no EM work.

WMS/jm

W.M. Sirola.

COPY

G.M. Hogg

W.M. Sirola

SWIM LAKES 'A' GROUP, Y.T. - 105K-3  
Diamond Drilling 1971

July 27, 1971.

I have negotiated a blanket drilling price of \$15.00 per foot for the drilling at Swim Lakes. Our estimate of the cost of this drilling was \$18.55 per foot, but this did include \$400 for supervision, \$700 for a junior geologist and \$700 for assaying.

My purpose in doing this arose from my concern over the cost of the long move to drill hole A-43 and because the supply of water at the job site is somewhat meagre. In addition, we usually get involved in no end bookkeeping with the typical diamond drilling contract. Arctic will redraw the agreement based on an overall cost of \$15.00 per foot.

It may be that a similar arrangement can be made for the Lyn Group when it is ready for drilling, but much will depend on how the equipment has to be taken to the property. Helicopter costs, as you know, can be very high.

As of yesterday, drill hole A-41 had reached a depth of 553'. A crude log of this drill hole is as follows:

0 to 17 feet	Overburden .
17 to 59.6 feet	Rusty sericite schist.
59.6 to 106 feet	Sericite schist with 30% pyrite and minor chalcopryite.
106 to 408 feet	Bleached sericite schist.
408 to 553 feet	Relatively compact unmineralized sericite schist. Average Core = 65 <sup>0</sup>

We will terminate this hole at 650' if unmineralized.

*W. M. Sirola /jm*

WMS/jm

W.M. Sirola.

COPY

P.M. Kavanagh

W.M. Sirola

SWIM LAKES 'A' GROUP - Y-5  
1971 Diamond Drilling

August 16, 1971.

I do not have a proper log on A-41 as yet, but as you know that drill hole located only barren sulphides.

Diamond drill hole A-42 encountered a mineralized zone from 492' to 530', of which the last 22' was ore grade. The assays are as follows:

	<u>Pb</u>	<u>Zn</u>
492 to 497	0.26	1.2
497 to 503	0.57	1.2
503 to 508	3.2	3.7
508 to 513	4.3	3.8
513 to 518	3.4	3.6
518 to 523	3.5	3.8
523 to 530	4.8	4.9

George Spalding has not yet run the silvers, and it looks to me as though there should have been one more sample, since the last sample ended up in the highest grade. In any case, Glen and I will be stopping there, and we can determine the situation at that time.

Since this section is an improvement over D.D.H. A-9, I think we are justified in some additional drilling.

W.M. Sirola.

KERR ADDISON MINES LIMITED  
405 - 1112 WEST PENDER STREET  
VANCOUVER 1. B.C.

COPY

E.C. Jacka

W.M. Sirola

SWIM LAKES 'A' GROUP - 1971 DIAMOND DRILLING

September 9, 1971.

Herewith a revised list of the footages drilled on the 'A' group this year:

A-41	648.4 feet
A-42	651.0 feet
A-43	505.0 feet
A-44	699.0 feet

The drilling has been completed for the present, and I believe that the equipment has either left or is in the process of being removed from the property.

The accompanying sketch indicates the positions of the drill holes, but in the absence of a transit survey, the locations are not precise nor are the elevations known exactly. This will not, however, affect the submission of this information for assessment purposes.

Regards,

WMS/jm

W.M. Sirola.

COPY

E.C. Jacka

W.M. Sirola

SWIM 'A' GROUP - 1971 DIAMOND DRILLING Y-5

September 3, 1971.

The following drill holes have been completed on the Swim Lakes 'A' Group:

<u>Hole No.</u>	<u>Location</u>	<u>Total Depth</u>
A-41	Swim 23 m.c. 128 S.E. & 112 N.E.	650 feet
A-42	Swim 25 m.c. 118 S.E. & 114 N.E.	650 feet
A-43	Swim 14 m.c. line 93W & 2100S from B.L. 1	505 feet

The next and possibly final drill hole is planned for Swim 25 m.c. at 118 S.E. and 118 N.E. The estimated depth of this drill hole is 650 feet.

WmS/jm

W.M. Sirola.

COPY

16th May 1975

Mr. Murray Smith  
Arctic Diamond Drilling Ltd.  
184 Industrial Road  
WHITEHORSE, Y.T.  
Y1A 2V1

Dear Murray,

Re: Swim Lakes Drilling

The contract calls for three drill holes to a minimum depth of 1000 feet each for a total of 3000 feet. Maximum overburden depth expected is 50 feet.

Drill Hole No. 1

Water source is a spring at old drill site A-1 situated at 29+30W : 15+9S, approximately 8000 feet south of Drill Hole No. 1, near road.

Drill Hole No. 2

Water source either from:

- (a) Swim Lakes which is a 2000 feet horizontal distance, plus 300 feet vertical lift, or
- (b) small pond 2500 feet SouthWest of Hole No. 2. The elevation at the pond is 3480 feet; at the hole 3325 feet.

Drill Hole No. 3

Water source would be the lake.

Provided the spring is still running, it would appear that hauling water would not be necessary.

If you need any further information, give us a call.

Yours very truly,

KERR ADDISON MINES LIMITED

John C. Lund, P.Eng.

*Swim Lakes*