## 013993

Gavin Lake Placer February 28, 1977 Button EK. (Placer Paper Murder Gulch Placer Par) MEW ISSUE

NO SECURITIES COMMISSION OR SIMILAR AUTHORITY IN CANADA HAS IN ANY WAY PASSED UPON THE MERITS OF THE SECURITIES OFFERED HEREUNDER AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE RECEIVED

MURDER GULCH, PL 7139

#### PROSPECTUS

JUN 0 6 1977 SUPERINTENDENT OF BROKERS

93A /12 or 13 .

GAVEN 93A/55

BUXTON CREEK TEATIAN (0934

GAVEX GOLD MINES LTD. Vancouver, British Columbia

COMMON SHARES

250,000

	Price to Public	Commission	Proceeds to Company if all the shares offered are sold		
PER SHARE	\$.25	\$.05	\$.20		
TOTAL	\$62,500	\$12,500	\$50,000*		

\*Less costs of issue estimated to be \$5,000

THERE IS NO MARKET FOR THE COMPANY'S SECURITIES.

A PURCHASE OF THE SHARES OFFERED BY THIS PROSPECTUS MUST BE CONSIDERED A SPECULATION SINCE THE COMPANY'S MINERAL CLAIMS ARE STILL IN THE EXPLORATION STAGE. REFERENCE SHOULD ALSO BE MADE TO THE CAPTION "PRINCIPAL HOLDERS OF SHARES" AND THE COMPARISON OF THE NUMBER OF SECURITIES BEING OFFERED TO THE PUBLIC BY THIS PROSPECTUS AND THE NUMBER ALREADY ISSUED TO THE PROMOTER, DIRECTORS AND OFFICERS AND OTHER CONTROLLING PERSONS FOR CASH, PROPERTY AND SERVICES.

A MINIMUM SUBSCRIPTION IS REQUIRED UNDER THIS PROSPECTUS. REFERENCE IS MADE TO PAGE 10 AND THE CAPTION "USE OF PROCEEDS".

NO SURVEY HAS BEEN MADE OF THE COMPANY'S MINERAL CLAIMS AND THEREFORE IN ACCORDANCE WITH THE MINING LAWS OF THE PROVINCE OF BRITISH COLUMBIA, THEIR EXISTENCE AND AREA COULD BE IN DOUBT.

**PROPERTY** FILE

# 2.6月27月1

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# PHOPERTY 1909

REPORT ON THE MURDER GULCH PROPERTY OF GAVEX GOLD MINES LTD.

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Livgard Consultants Ltd. E. Livgard, B.Sc., P.Eng. Vancouver, B.C. February, 1977. INDEX

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7609-0953B

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Recovery Results on Black Sand from Aurum Resources Ltd.

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## INTRODUCTION

Mr. Lloyd Tattersal, president of Gavex Gold Mines Ltd., asked the writer to prepare a report on the company's Murder Gulch property and the work being carried out.

The writer spent three days on the property during July, 19th to 23rd, 1975, and two days on August, 27th and 28th, 1976. This report is based on those examinations and on references as listed.

The writer prepared a report on the property dated August, 1975. The present report incorporates all information in the first report, together with new information on the gravel deposits and the plant.

This report may be reproduced by the company in their prospectus of statements or material facts.

## SUMMARY

The Murder Gulch operation of Gavex Gold Mines Ltd., on Placer lease No. 7139 is located on the banks of the Cariboo river 6 miles upstream from Quesnel Forks. The property can be reached via a 7 mile gravel road from Likely, B.C., 50 miles from 150 Mile House on Highway 97 North.

The lease covers several relatively flatlaying benches in an identation in the river bank. Several auriferous gravel layers have been located on the property. The upper layer has been exposed along a width of 75 metres and from one to four metres thick. Other exposures indicate a length of 400 metres. It lies on top of blue glacial clay and is covered by from one to seven metres of layered silt. The partly exposed part of the layer may contain about 30,000 cubic meters of auriferous gravel. The other little exposed part of the layer has a maximum potential of 86,400 cubic meters. The total potential volume on the property is about 180,000 cubic meters.

Layer #9 has only been exposed at three pits. It shows auriferous gravel highly oxidized and cemented about 1.8 meters thick. Panning indicated good values and a one cubic foot sample was taken and panned down. The residue was assayed. It graded \$0.30 per cubic meter.

Several pits in the other channel were tested and found to be auriferous. Samples that were analyzed graded from nil to \$4.65 per cubic meter. These values are of course very erratic and cannot be used for grade estimates. The production grade last summer was \$3.63 per cubic meter. <u>This grade could be improved by more</u> selective mining.

The production costs have been estimated to be \$13,200.00 per month and in addition about \$1,000.00 per month of operation must be spent on overburden removal.

This means that the plant will break even on a production of 155 cubic meters per day. It is estimated that 200 to 250 cubic meters per day can be handled with the available equipment. This will give an operating profit of from \$150.00 to \$350.00 per day. As can be seen, the profit is very sensitive to the amount treated and <u>it is</u> very important that the maximum possible amount of gravel be treated.

## CONCLUSIONS

The operation is set up very well. It has all the equipment necessary to properly handle the material. It has a large volume of auriferous grave. The operators are experienced and capable. The polution control setup is good and the operation has received an operating permit (No.3726) from the Pollution Control Board.

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The writer believes the operation will be profitable.

## RECOMMENDATIONS

A grid system should be established to assist in mapping and more important, a close grid system would aid in volume control and planning for stripping. Several improvements to the plant must be done such as:

Rebuilding Hopper Extending trommel screen Fixing company's cat Extending sluice box

The following equipment should be aquired:

Light plant Loader payments

Overburden removal

This is properly a cost of production but must be incurred before production starts.

One months working capital must be on hand.

## ESTIMATED COSTS OF RECOMMENDATIONS

Grid system	\$	500.00
Plant improvements		5,000.00
Light plant		3,000.00
Loader payments		6,000.00
Overburden removal D8 Cat 60 hrs. @ \$60.00		3,600.00
Working Capital - 1 month		13,200.00
Administration of the program		2,000.00
	-	33,300.00
10% Contingencies		•
10% Contrigencies	-	3,300.00
<b>b</b>	\$	36,600.00

## PROPERTY

The property consists of one placer lease No. 7139 in the name of Mr. Jesse Jefferson. The lease is a twenty year lease, now into its sixth year. An agreement gives Gravex Gold Mines Ltd., rights to explore and work the lease. The writer has examined the claim posts and the lease has apparently been staked in accordance with regulations and covers the ground here described.

The lease is incorrectly placed on the Mining Recorder maps, about one mile further down river than it should be. Application has been made to correct this. The working agreement on the lease has not been examined by the writer.

#### LOCATION AND ACCESS

The property is located about 200 feet and extends to 1,500 feet from the bank of Cariboo river about 6 miles up stream from Quesnel Forks, the confluence of Quesnel and Cariboo rivers. It is found on map sheet 93A/12E in the Cariboo Mining Division. The property can be reached via a dirt road about a mile long off the Keithly gravel road, seven miles from Likely, which is about 50 miles by gravel road from the village of 150 Mile House on Highway 97 North.

## CLIMATE

The climate is typical for the B.C. interior and generally the exploration season would extend over about six months between May and November. The summers are warm and luxuriant growth is found in creek valleys. The winters are cold and placer work is not generally carried out.

## TOPOGRAPHY

The property lies on the south bank of the Cariboo river. The ground slopes toward the river and elevation difference on the lease may be about 250 feet. The major part of the lease covers a semi-circular indentation in the river bank, which extends some 2,000 feet from the river. Within this indentation several relatively flat benches with an elevation difference of about 60 feet are found.



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## HISTORY

Numerous placer properties have been worked in the area since well before the turn of the century. The best known are the Bullion mine five miles to the south-west, Cedar Creek some six miles to the southeast, and Quesnel Forks six miles west of the property.

The property laying on the banks of the Cariboo river in the center of the placer district has undoubtedly been examined numerous times in the past. Some evidence of past work was noted.

At the river bank close to the edge of the property gravel has been washed in small quantity. Some 600 feet west of the present workings a channel has been worked over a length of 150 feet, and width of 20 feet. This is called the Miller pit. The Miller pit workings was on what is now called #1 bench which is part of the Upper Bench where this meets and lies directly on a graphitic schist bedrock. The layer is thin (1 meter) but the values are much higher than average. The now exposed upper layer was previously worked where it was cut by a small stream. Mr. Jesse Jefferson staked the placer lease in 1970 and Gavex Goldmines obtained a working agreement on the property. The company tested the property by pits and bulldozer trenches in 1975 and set up a small plant. In the summer of 1976 more equipment was acquired and set up. Production was started August 17th and continued till October 20, 1976. During this time approximately 36 full operating days were obtained; during which time 5,352 yards (equivalent to 4.118 cubic metres) were treated for an average of 116 cubic metres per day. This is an approximate figure as part of the down time is estimated. The down time was used to rearrange and improve the operation and is considered to be usual for start-up.

It was found, however, that the hopper feeding the trommel was a seriously limiting capacity factor and will have to be changed.

One hundred and two ounces of gold were recovered, most of which was sold to Delta Smelting and Refining Company.

## PHOTO INTERPRETATION

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The following photos were obtained from the Photo library in Victoria: B.C. 7260 No. 104 to 106, and NO. 070 to 073. The photos were studied with a mirror steroscope.

The surrounding area appears to consist of glacial deposit. It has few distinguishing features. A weak north-westerly trend in the small topographic irregularities indicates the direction of ice movement. The banks of the Cariboo river are steep where it has cut its way through the glacial material. At the lease property an indentation (river gravel remnant) in the river bank has been cut by surface run off making it irregular in outline. The centre of the indentation has smooth benches sloping gently toward the river.

Poquette Lake lies about 1 mile south of the centre of the property. It has features which suggest\_it probably occupies an old river channel. This inferred channel may in pact be covered by the Murder Gulch property.

## SURFACE GEOLOGY

The glacial movement in the area has been from the south-east to north-west. The placer gold in the Likely area is closely associated to glacial and glacio-fluvial action. The gold is usually found in the gravel banks of the present creeks and rivers, or in their older abandoned channels, possibly re-worked from glacial material or in gravel beds or lenses sandwiched between layers of clay or silt.

The gravels are usually poorly sorted and frequently the auriferous so called gravels are a thorough mixture of particles from clay to boulder size. In the literature this mixed material is referred to as "slum", while old timers in the area use the term for the false clay "bedrock" on top of, and in the top part of which the gold is found. The richest and coarsest gold concentrations are usually found lodged just on top of blue glacial clay "bedrock" or true bedrock or in a rusty clay gravel boulder mixture. The gold is usually quite rough and ocasionally still has quartz fragment attached to it indicating a close source and short water transportation.

The banks around the semi-circular indentation consist of glacial clay mixed with various proportions of coarser material and occasional outcrops of graphitic slate. The bedrock contains frequent quartz stringers with a large amount of pyrite and has in the past been explored for its gold content. The results of which are not known.

The flat benches are under-lain by well layered silt and sand varying in thickness from two to as much as twenty feet, followed by an auriferous gravel from three to fourteen feet in thickness underlain by blue glacial clay of unknown thickness. Som benches have no overburden, and some of the lower ones have a rock "bedrock".

The auriferous "gravel" has approximately the following composition: Boulders 20%, cobbles and pebbles 50%, sand and gravel 30%. The boulders are generally less than two feet in diameter, but the last work in the 1976 season encountered boulders up to 6 feet in diameter. Good gold values were associated with the large boulders.

## GRAVEL BENCHES

The area covered by the P.M.L. has been logged off and the surface geology can be seen quite easily. The various benches have been sketched in on the accompanying map. The map should be improved by use of a grid system. The largest bench, called upper bench, is also the highest. Benches #1, #2 and #3 are on the same level as the upper bench. Benches #4, #5, #6, #7 and #8 are all on different levels. Bench #9 is the lowest bench level on the property. The full extent of the "pay streak" on the benches is not known and it is not considered feasible for an operation of this kind to go to large expenditures to "prove up" the gravel. Sufficient gravel has been indicated, with a gold content in excess \$3.00 per cubic meter, to justify improving the plant and starting full production.

Part of the auriferous gravel has been uncovered and tested to an extent that it can be put into an indicated category. This category is assumed to be 65% assured as to yardage and grade. A part of the yardage in the upper bench  $(30,000 \text{ m}^3)$  next to the working face has a higher assurance level than noted above.

The majority of the calculated gravel has been put in the inferre category and is thought to have an assurance level of 40%, because the auriferous gravel has not been outlined or the grade tested other than by one or a few pits to confirm its presence. The gold content is assumed to be that recovered per cubic metre in operation in 1976.

#### AMOUNT OF GRAVEL

		Indicated	Inferred
Upper Bench:	250m x 40m x 3m	30,000 m <sup>3</sup>	
	120m x 240m x 3m		86,400 m <sup>3</sup>
#1	50m x 25m x 1m	1,250 m <sup>3</sup>	
#3	25m x 60m x 4m	6,000 m <sup>3</sup>	
#4	120m x 40m x 2.5m	• •	12,000 m <sup>3</sup>
<b>#</b> 5	70m x 20m x 1.2m		1,700 m <sup>3</sup>
#6	80m x 10m x 1.2m		1,000 m <sup>3</sup>
#7	120m x 25m x 1.8m		5,400 m <sup>3</sup>
#8	180m x 60m x 1m		10,000 m <sup>3</sup>
#9	240m x 60m x 1.8m		26,000 m <sup>3</sup>
Total indicated and p	potential volume	$37,250 \text{ m}^3$	142,500 m <sup>3</sup>

#### GRADE

Panning the lower channel gave six colour ranging in size to 1.5mm, indicating roughly \$5.00 to \$10.00/per yard. A sample was taken for assaying. The sample consisted of one cubic foot of average size material which was panned down to about a cupful. The material was difficult to pan due to the strong oxide cementation. Some gold was undoubtedly lost when cemented particles were not seperated. The sample gave \$0.25 per yard.

The upper channel was tested by panning from the best material on clay "bedrock". It gave values ranging from 18 colours size ½ to lmm plus a nugget 2 mm in diameter to 31 colours size ½ to lmm. This indicates values on the order of \$20.00 to \$50.00/per yard in the best material. A more accurate sample was run the following way: Two cubic yards of material was taken from different places on the channel including approximately equal amounts from all levels. The material was concentrated in a small sluice box and the sluice box cleanup was further panned down to a large cupful. Coarse flakes of gold and a couple of small nuggets were picked out for separate weighing. The remainder of the sample assayed.

The sluice box was designed for cleanup operation and was not suitable for testing a large sample. A 45 gallon drum was cut out and bolted to the sluice box, acting as material receptacle. Lacking screen boulders were washed off and discharged by hand, but coarse material still had to be dumped into the receptacle and this would shake the sluice box and dislodge material caught in the riffles. Boulder washing would disturb the water action, pebbles and cobbles rolling down the riffles would dislodge material.

Lumps of clay would move over the riffles picking up particles in spite of an attempt to break them up by hand. In spite of all these difficulties which undoubtedly caused a very substantial loss of gold, the sample gave a little over \$8.00/per yard.

The Eastern end was sampled by taking a one cubic foot. The sample gave about \$2.00/per yard.

Seven samples were panned down to a black sand and sent out for analysis. (Appendix - certificate 7609-0953)

#1 This was a sample from the top of the sluice box during operation. It was taken primarily for a platinum determination. The platinum content was found to be insignificant. The gold content of course was very high - in excess of \$50,000.00 per ton.

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- #2 This sample was from Bench #1 taken from just on top of a clay bedrock - 1 pan (260 pans per m<sup>3</sup>) Au \$100.00 /oz = \$3.22 per gram 18.017 mg Au x 260 - 4.6844 g @ \$3.22 \$15.08/m<sup>3</sup>
- #3 From Bench #3 1 pan 55.058 mg x 260 - 14.315 g @ \$3.22 \$46.09/m<sup>3</sup>
- #4 From Bench #4 1/3 pan 2.383 mg x 260 x 3 - 1.859 g @\$3.22 \$ 5.99/m<sup>3</sup>
- #5From Bench #5  $\frac{1}{2}$  pan0.908 mg x 260 x 2 .472 g @ \$3.22\$ 1.52/m<sup>3</sup>
- #6 From Bench #6 1/3 pan .088 mg x 260 x 3 - .00624 g @ \$3.22 . \$ .02/m<sup>3</sup>
- #7 From Bench #8 on bedrock 1 pan 24.529 mg x 260 - 6.3775 x @ \$3.22 \$20.54/m<sup>3</sup>

A large number of pans were quickly panned to check gold content wherever the cannel was exposed. These showed to the writers satisfaction that gold in varrying amounts was present in the benches. The

samples which were analysed cannot be used as any indication of the grade to be expected as the unit value of gold is too high and its distribution too erratic to give reliable indications about grade from a few small samples.

The most reliable grade determination can be found from the production data.

Au	recovered	Delta	Smelting	(58.7	5 oz.	Au)	\$	7,596.81
			Nuggets	(38.24	4 oz.	Au)		5,568.33
			Nuggets					150.00
	4 oz	on har	nd @ \$100.	.00				400.00
	3T Black	Sand va	alue \$653.	/Ton (	AuRum	Resources I	.td.	)
	Le	ss trea	atment: 10	0% of ;	gross	+ \$150./Ton	L	1,313.10
							_	

\$ 15,028.24

## PRODUCTION GRADE

The production records kept by the supervisor show a total of 4,118 m<sup>3</sup> were treated. The recovered gold from this volume works out to \$3.63 per cubic meter.

This figure is probably a good average for the upper bench.

Better gold values were encountered among larger boulders to the south and west in the bench. The production next year should as much as possible come from this area.

## OPERATION

The following equipment is on the property:

- 1 Three-stage Jackson pump Capacity: Two 4" lines, 100 foot lift 1,200 feet of 4 inch aluminium pipe
- 1 Excavator hoe 2 yard bucket
  (300 yard/hr.)
- 1 Front End Loader 175 Michigan (1972) (60 yard/hr.) The loader normally has a 3½ yard bucket, but a special 2½ yard bucket has been made for it increasing its digging capacity.
- 1 Bulldozer TD 14
- 1 3 Drum drag line 600 feet of cable 3/8" and 1/2" for cleaning out the first settling pond.
- 1 Hopper with rail screen (9'x8') and water spray.
- 1 Trommel 14 feet long and 8' diameter with an 8' screen with 3/4" discharge holes.
- Sluice box in two 20 foot sections 2' 7" wide and 20" deep made of 4" steel plate. The riffles are angle iron 1<sup>1</sup>/<sub>2</sub>" x 2" placed 3" apart. Sack cloth is placed under the riffles. Accomodation: Camp cabin

1 Plant building

## PRODUCTION COSTS

Last years cost include considerable preparation cost which cannot be separated.

From the experience gained last year the following costs are projected.

Hoe operator	\$8.00/hr x 8 = \$64.00
Loader operator	\$8.00/hr x 8 = \$64.00
Supervisor & Cat operator	\$80.00
	\$208.00

	Monthly Cost
208.00 x 25 working days	\$ 5,200.00
+ 10%	500.00
Monthly Wage Cost	\$ 5,700.00
Fuel	1,800.00
Camp & food	1,000.00
Parts, etc.	800.00
Depreciation	1,500.00
Administration	1,200.00
	12,000.00
10% Contingencies	1,200.00
	\$13,200.00

 $13,200/3.63 - 3,636 \text{ m}^3/25 = 145 \text{ m}^3$ 

and estimated additional for overburden removal costs  $10m^3$  break even point 155 m<sup>3</sup> per day

The above cost figures do not allow for more than 3 paid men to run the operation and little leeway is given. The company must at all times be very cost concious. Production last year reached a maximum of 167  $m^3$  in one day while the average for the last week of production was 116  $m^3$  per day. The limiting factor in production was the hopper feeding the trommel and therefore the loader dumping time was excessive. This feature must be corrected. The loader was also used to remove coarse tailings at the trommel - about 1/3 of loader time was used for this purpose.

The company's old cat on the property should be fixed and could easily handle this chore and freeing the loader for feeding only.

The projected production should lie between 200 and 250 m<sup>3</sup> per day and show a production profit of 200.00 - 300.00 per day. Production could possibly be further increased by increased use of the hoe, which has spare capacity, to obtain less turn around time for the loader which is used to capacity.

The company should also check the grade of the upper part of the pay streak. The large majority of the values are found on the false bedrock and it may be found economical to remove the upper part of the channel together with the overburden and treat only the lower richer part.

Respectfully submitted

Livgard Consultants Ltd. E. Livgard, B.Sc., P.Eng.

## REFERENCES

1. G.S.C.

Summary Report 1932 Part A1.

Geology and Placer Deposits of Quesnel Forks area, Cariboo Districts, B.C.

by

W.F. Cockfield and J.F. Walker.

2.

Placer Examination Principles and Practice Technical Bull. 4 U.S. Department of the Interior Washington, D.C.

3.

Surfacial Geology Map 1290 A, Quesnel, B.C.





SR 15092 01-01-F 10.1071 Gavex Rold Mines 4386 BC. Williams Lake Alcupt 5326 NOU 8 56 Augget Ruichase. 14000 2838.5 20,275 Mish 14500 9.055 5.330 82a15 3.580 Paid Chg. #11566 Dated 8/11/76. 3:240 CHECHENBY IT APPLIOVAE अध्य <u>विसेवसि**व**विस</u>ेठे. ANCE CREDE NOTE: GOODS RETURNED AFTER 14 DAYS WILL NOT RECEIVE FULL CREDIT. BUSINESS HOURS AT PLANT ARE 10:00 A.M. TO 4:00 P.M. SHIPPING COPV

CREDIT NOTE NO.

PHUNE (604) 273 8757 TELEX 04-507571 CALLBACK DELTALLOY

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## DELTA SMELTING & REFINING CO. LTD.

Subsidiary of United Research and Development Ltd. 1104 CAMBIE ROAD RICHMOND, B.C. V6X 1L1

DATE: Nov. 29/76

6184

RECEIPT NO. 5326

c.c. BNS, Wms Lake ATTN: Bob Cook

c.c. Davidson House

GAVEX GOLD MINES LTD. BOX 4386, WILLIAMS LAKE, B.C.

DATE RECE	EIVED:	Nov. 8/2	76	REFINERY CREDIT NO.	245	52		
GROSS	WEIGHT F	RECEIVED	Placer	Gold				
NET W	EIGHT RE	CEIVED	85.765	T oz.				
WEIGH	T AFTER	MELT:	75.003	T oz.				
GOLD	78,33	% =	58.750	CAN. T. oz. @ <del>U.5</del> . \$ 130.00 CAN.	) = <del>1.5</del> . CAN		\$	7637.50
ILVER	19.43	% =	14.573	T. oz. @-U.5. \$ 4.07	=+):5 CAN	· ·	\$	59.31
ALLADIU	M	% = ·		T. oz @U.S. \$	= U.S.		\$	
LATINUM	<u>_</u>	% =	•	T. oz. @ U.S. S Less: Assay Fee Less refinery charge.	=U.S.		\$ \$	<b>25.</b> 00 <b>7</b> 5.00
		·				U.S.	\$	
								7596.81

The work of receipt, or b. The following week on FIX

<u>GOLD</u> - Henely & Hannon's weekly average as ended	November 16, 1976	LESS US \$1.00	per T. oz.
SILVER Handy & Harmon's weekly overage as ended	•	LESS US S 0.25	per T. oz.
REFINERY CHARGE US S1.00 per T. oz. of the bor we	ight after melt.	•	

Mininum charge US \$

EXCHANGE RATE.

## **CUSTOMER'S ORIGINAL**

AURUM RESOURCES LTD. P.O. BOX 80006 SOUTH BURNABY, B.C. • •

GAVEX GOLD MINES LTD. P.O. BOX 4386 WILLIAMS LAKE, B.C.

Sirsı

Herewith are the recovery results from concentrate received from Gavex Gold Mines Ltd.

#9/76/3 Sample weight - 1500 Gr. Au recovered .308 Gr. Value -\$653.18 per ton

#9/76/11 Sample weight = 2 lbs. Au recovered = .145 Gr. Value = \$507.00 per ton

#9/76/11-A Sample weight - 2 lbs. Au recovered - .275 Gr. Value - \$927.00 per ton

#10/76/7 Sample weight = 2 lbs. Au recovered = .171 Gr. Value = \$542.96 per ton.

I also confirm the recovery for you on 3 November, 1976 from 3 pounds of concentrate of 300 grams of gold. This was not a test as such, but a straight recovery service.

Yours very truly,

obert J. Mawson)

## LIVGARD CONSULTANTS LTD. COQUITLAM. B.C.

## CERTIFICATE

I, EGIL LIVGARD, of 1990 King Albert Avenue, Coquitlam, British Columbia. DO HEREBY CERTIFY:-

- 1. I am a Consulting Geological Engineer.
- I am a graduate of the University of British Columbia,
   B.Sc., 1960. Geological Sciences.
- 3. I am a Member of the Association of Professional Engineers of the Province of British Columbia.
- 4. From 1960 to 1962 I was employed as Geologist with United Keno Hill Mines, Elsa. Yukon Territories. From 1962 to 1963 I was employed as geologist with the Geologic Survey of Norway. From 1963 to 1966 I was employed as Mine Geologist and Engineer at the Portage Mine, Chibougamau. Quebec. From 1966 to 1968 I was employed as Chief Geologist and Engineer at Utica Mines, Keremeos. B.C. From 1968 to 1970 I was employed by S & N Mine Management, Consultants, Vancouver. B.C. From 1970 to the present I have been self-employed as a Consultant in Vancouver, B.C.
- 5. I have not, directly or indirectly received, nor do I expect to receive, any interest, directly or indirectly in the properties here described, or in any company that has an interest in these properties, or in any affiliate, and I do not beneficially own, directly or indirectly, any securities in any such company.

DATED at Coquitlam, British Columbia, this Bday of FERENA, 1977

Egil Livgard, B.Sc., P.En. Coquitlam. B.C.

## CERTIFICATE

The foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Prospectus as required by Part VII of the Securities Act, (British Columbia) and the regulations thereunder.

DATED this 28 day of FEBRUARY, 1977.

LLOYD TATTERSALL

Director and Promoter Eila A. ander any B

CHARLES E. HUGHES Director

MERVIN L. BURKOWSKI Director

Zaya

BRUCE WOODSWORTH Director

1.1

GORDON E. LLEWELLIN Director