

OCT - 8 1969

820930

ED

92 H.

To.....W. M. S.

Siwash Creek Property

Subject.....Siwash.

Kenneth. B. C.

October 9 1969.

J.H.S.	
P.M.K.	✓
R.D.S.	
B.C.B.	
J.D.B.	
C.M.M.	✓
P.K.	

Siwash

Kavanagh

October 7/69

October 9, 1969

...ect property.
It is rather difficult for me to become enthusiastic on the basis of Nekrasov's data.
property from Mr. Nekrasov's report for the following reasons:

1) Nekrasov suggests a bit of mineralization on the surface and in the core but he does not believe the bit of mineralization on the surface is representative of the property.
With reference to your memorandum of October 7th on this property, would you please return Nekrasov's report as soon as possible.

2) The attitude of Nekrasov's narrow mineralized shears is unknown and therefore the true width of the mineralized core in the drill holes is unknown.

3) Nekrasov suggests a similarity between Copper Mountain and the Siwash Creek property. There is no similarity.

It is rather difficult for me to become enthusiastic on the basis of Nekrasov's data.

PMK:lfr

Paul M. Kavanagh

W. M. S. Sims

WMS/lk

** My monthly report for September 1969 states incorrectly that the angle of the drill holes is unknown. Please scratch this statement in the monthly report.

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

820930

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

Subject.....Siwash Creek Property, Merritt, B.C.....Date.....October 9, 1969.....

J.H.S.	
P.M.K.	✓
R.D.S.	
B.C.B.	
J.D.R.	
CHIEF	✓
P.K.	

With reference to your memorandum of October 7th on this property, would you please return Nekrasov's report as soon as possible.

PMK:lfr

PMK
Paul M. Kavanagh

OCT - 8 1969

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

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

Subject Siwash Creek Property, Merritt, B.C. Date October 7/69

J.H.S.
P.M.K.
R.D.S.
B.C.B.
I.O.B.
S.M.H.
P.K.

Herewith John Lund's report on the subject property. It is difficult to place an evaluation on the merits of the property from Mr. Nekrasov's report for the following reasons:

- 1) Nekrasov refers to widespread sulphide mineralization on the surface and in the core but he does not define the word sulphide or sulphides. Conceivable this could mean pyrite.
- 2) The attitude of Nekrasov's narrow mineralized shears is unknown and therefore the true width of the mineralized core in the drill holes is unknown. **
- 3) Nekrasov suggests a similarity between Copper Mountain and the Siwash Creek property. There is no similarity.

It is rather difficult for me to become enthusiastic on the basis of Nekrasov's data.

Bill
W. M. Sirola.

WMS/1k

** My monthly report for September 1969 states incorrectly that the angle of the drill holes is unknown. Please scratch this statement in the monthly report.

TO: W. M. SIROLA
FROM: J. C. LUND Sept. 11/69
SUBJECT: Siwash Creek Property

At your request I have examined the available literature on the Siwash Creek area including Mr. Boris Nekrasov's report on the "Agie" claims, dated Nov. 6, 1966, and submit the following remarks:

The "Agie" group of claims lie about 22 miles north-northeast of Princeton and 3 to 4 miles north-northwest of Jellico Station. Jellico Station is on the Kettle Valley Line of the C.P. Railway. The claims over the old Iron Duke, Fisher Maiden, and Renfrew properties.

Underlying rocks are mainly reddish siliceous granites and granodiorites of the Coast Range Intrusive Complex. These are Jurassic or later in age. Intruding the Coast Range rocks are small plutons and dykes of pink to grey granite and granodiorite (Rice, GSC Mem. 243; 1947). Mr. Nekrasov reports quartz monzonite on the "Agie" claims in which the principle alkalic feldspar is anorthoclase. Anorthoclase is a comparatively rare soda microcline found mainly in soda-rich volcanic rocks, and occasionally in pegmatites - rarely in coarse-grained granitic rocks. The intrusive rocks, whether they be quartz monzonite of Nekrasov or granite of Rice, are intensely altered in part to a sericite-kaolinite-quartz-carbonate rock. The

extent of alteration is not clearly stated in the reports - it may be confined to the shear zones.

Easterly to northeasterly faults cut all rocks in places forming shear zones up to 15 feet wide. These zones are in part quartz-filled. Mineralization occurs in the shears across widths of 10" to 15". There is no reported mineralization beyond the shear zone. My own experience in the area has been that little if any mineralization occurs beyond the faulted zones. I examined prospects adjacent to the Agie showings for Spa Mines in 1966. The deposits are similar.

Assay results reported by Nekrasov show values in silver of 0.73 to 18.55 oz across a maximum intersection of 5 feet in diamond drill holes with significant values in lead. Copper values are from 0.005% to 0.95% and average less than 0.2%.

The work to date indicates that this is a Pb-Zn-Ag prospect with values confined to narrow zones within easterly to northeasterly shears. The potential on the property lies in the silver content and is dependent on establishing greater widths than is at present indicated.

Comments on Nekrasov's Report:

These comments on Nekrasov's report are not intended to discredit either the author or the prospect but are intended to place the property in its proper prospective.

- 1) Nekrasov has suggested a similarity between Copper Mountain

and the Siwash Creek property. This comparison is misleading because:

- a) the Copper Mountain stock is an undersaturated differentiated (composite) intrusion. The Siwash Creek intrusives are saturated.
- b) the Copper Mountain stock intrudes Upper Triassic Nicola group volcanic rocks. Mineralization occurs in both the intrusive and volcanic rocks but mainly in the volcanic rocks. The Siwash Creek intrusions invade Coast Range granitic rocks and mineralization is confined to shear zones in an altered intrusion.
- c) mineralization at Copper Mountain is mainly bornite-chalcopyrite-pyrite-hemitite; at Siwash Creek, galena-sphalerite-hematite-chalcopyrite. Chalcopyrite is not abundant.
- d) if the quartz monzonite on Siwash Creek (Nekrasov) is part of the Otter intrusions the age is Upper Cretaceous or Tertiary, if part of the Coast Range complex then it is mid-Jurassic. Copper Mountain stock has been dated at 150 to 199 m.y. which would put it in the Upper Jurassic.

The two deposits are completely different and the Agie prospect must be considered with the view to developing it for its silver content as a vein-type deposit, confined to shear zones.

Conclusions:

Reported width of mineralized zones is from 10" to 15" with sections of high grade silver. Early work has given no indication that these widths will increase significantly nor that the

quartz stockwork suggested by Nekrasov does exist. We should further realize that this area is readily accessible and has been the focus of considerable attention since the development of Brenda Mines 18 miles to the northeast, in the past 4 years. I do not feel that the property is worth further consideration. If we are, however, to pursue this any further, I suggest a visit to the property with the purpose of determining the extent of alteration, nature of the intrusion, and possibilities of an increase in width to the presently known shear zones.

(signed)

John C. Lund.

JCL/lk

92H.

attach to previous
of Oct '69

PRELIMINARY GEOLOGICAL REPORT ON
THE AGIE GROUP OF MINERAL CLAIMS
SIWASH CREEK
SIMILKAMEEN MINING DIVISION
PRINCETON, B. C.

Vancouver, B. C.
November 9, 1966

by BORIS A. NEKRASOV
CONSULTING GEOLOGIST

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PRELIMINARY GEOLOGICAL REPORT ON THE AGIE GROUP
OF MINERAL CLAIMS, SIWASH CREEK
SIMILKAMEEN MINING DIVISION, PRINCETON, B. C.

INTRODUCTION

This report is based on three days visit to the property on October 27th - 29th, 1966, plus 9 years field experience in the area during which time I conducted geological and geophysical surveys for Utica Mines Ltd., Endako Mines Ltd., Torment Mines Ltd. and several individuals.

The purpose of the examination was to check the geology and correlate it with the geology of the adjacent properties, to assess the economic possibilities of the claims, and to recommend any lay-out of an exploration program for the development of the claims.

The Siwash Creek properties have been briefly described in the Report of the B. C. Minister of Mines in the years 1926, 1927 and 1930. A briefer description is given in Memoir 243 Geological Survey of Canada, by H.M.A. Rice, 1960, p.p. 107-108. Mineral showings located on adjacent claims are also described in this Memoir.

A number of rock trenches, old prospect pits and diamond drill cores from recently drilled holes were correlatively examined by the writer of this report.

The trenching and diamond drilling show widespread sulphides mineralization.

The mineralization occurs in the faulted zone of the strongly altered monzonite.

The samples taken from geologically selected intersections were assayed by J. R. Williams Laboratory in Vancouver, B. C.

The assays returned from these samples show good values in zinc, lead, copper, some silver and molybdenum.

A further exploration program of diamond drilling and trenching is recommended.

PROPERTY AND LOCATION

The Agie group claims are located in Similkameen Mining District of B.C. Latitude 49° 45' and Longitude 120° 20' passes through the property. The property is situated 3 miles northwesterly from Jellicoe station of Kettle Valley CPR, 48 miles northeast of Princeton and 212 miles east of Vancouver, B. C.

There are 25 contiguous unsurveyed mineral claims in the group held by location. The area covered by the claims is approximately 1100 acres.

The claims and record numbers are listed here:

<u>Name of Claim</u>	<u>Record Number</u>
AGIE 1	6973
" 2	8991
" 3	6975
" 4	8992
" 5	11467
" 6	7066
" 7 to 14 inclusive	11468 to 11475 inclusive
" 15	11476
" 16 to 19 inclusive	11561 to 11564 inclusive
FLO 1	11565
" 2	11566
" 3	12410
" 4 to 6 inclusive	531931 to 531933 inclusive

The claims are held in the names of Walter Later and Tulameen Motors Ltd., Princeton, B. C.

These claims were staked by W. Later at different times between 1956-1965.

Validity of these claims were checked by the writer. The claims are well staked with the proper tags and inscriptions on the posts.

Assessment work has been performed and recorded on Agie group sufficient to maintain them in good standing until August, 1967 respectively.

ACCESSIBILITY

The property lies along both slopes of Siwash Creek Valley at an elevation between 3400 - 3800 feet above sea level. It is reached by way of Prairie Valley gravel road to Chain Lake. From this point a good private road leads to the property.

The secondary road to the property is now easily driven over by auto and could be improved to make a good hauling road at no great cost.

TIMBER AND WATER

The Agie claims are wooded with small stands of fir and pine. Sawn lumber can be purchased locally from numerous sawmills in the area.

Ample water is available for diamond drilling and mining purposes from Siwash Creek. Water for milling purposes would have to be piped from Chain Lake, a distance of 5 miles.

The area is in the dry belt section of British Columbia. The summers are hot and dry with temperatures as high as 85°. Winters are not severe. Occasionally lows of 20 degrees below zero may be recorded for a week or so.

On the Agie group year round operations can be maintained without any loss of time from inclement weather.

POWER

No power is available on the property at the present time. However, arrangements could probably be made at the Osprey Lake camp to purchase some surplus.

ACCOMMODATION AND LABOUR

No buildings or accommodation are available on the property except W. Later's cabin, which is big enough for a field engineering office.

A ready labour pool of experienced diamond drillers, miners and cat drivers are available at Peachland and at Merritt.

HISTORY AND DEVELOPMENT

The sheared and altered granitic rocks (monzonite) carrying abundant galena, sphalerite and chalcopryrite were discovered in 1909 by CPR geologists. The work done by CPR mostly consisted of prospecting by making trenches, pits and adits.

These old time workings are caved and it is not accessible at present time except one old pit and trenching within Agie No. 3 mineral claim.

All underground openings on adjacent claims are in good condition.

There is an interesting old adit within Amanda group claims owned by W. Later and located northerly of Agie claims. A shipment of 27 tons of ore was made in 1926 from this adit to Jellicoe Siding. From this 3 oz. of gold, 3379 oz. of silver and 1578 pounds of lead were recovered, according to the Report of B. C. Minister of Mines, 1927.

Further development, chiefly surface trenching, was done by W. Later between 1963 and 1964, within Agie group claims, plus approximately 2 miles of cat roads across the property.

B. C. Minister of Mines

A small footage totalling 356 feet of the EX diamond drilling was done by W. Later in 1966. A total of four shallow holes have been drilled at various dips from 55 to 90 degrees. These holes were drilled within Agie 2 and 3 mineral claims in the vicinity of the old prospecting pit.

A significant assay has been returned from certain small core intersections.

No other exploration work has been done to date on Agie group of claims.

MINING ACTIVITY ON ADJACENT PROPERTIES

Considerable work has been done last summer within the Siwash Creek area by the following mining companies: Stellako Mines Ltd., Amax Exploration Company, a subsid. of Climax Molybdenum Company, and SPA Mining Company. Some diamond drilling has been done also by the Maverick Mines & Oil Ltd.

The work done by the above mentioned mining companies consisted mainly of trenching, blasting, camp and road building within Siwash Creek area.

GEOLOGY

The area is not one that can be easily prospected. The outcrops were scarce.

The most part of the area examined was covered with overburden. The glacial morene and gravel deposits are covering the greater part of the property.

The bedrocks are exposed mainly in the trenches, bulldozed by W. Later.

The consolidated country rocks are granitic complex of other intrusions. It is of Upper Cretaceous or Tertiary age. ?

The claims embrace the favourable granitic rock which is similar to those on Copper Mountain Mine.

Three types of the rock formations have been recognized within the Agie claims examined:

1) Quartz monzonite unaltered, light grey, blue greenish, pink spotted, coarsely crystalline, massive, hard igneous rock, consisting of anorthoclase, some oligoclase, plagioclase and minor mafic minerals, such as pyroxene and amphibole.

2) Altered quartz monzonite, light grey, whitish

blue greenish, pink mottled, soft crumbled brecciated kaolin-sericite-quartz-carbonate rock impregnated with fractured sulphides. It is the gangue occupied a faulted zone of the decomposed monzonite.

3) Hornblende monzonite light grey, green, pink spotted, coarsely crystalline, massive, hard rock. Sporadic specks of hematite, No substantial sulphides were seen.

One of the mineralized shear zones is exposed in the trenches connected with the old pit on Agie No. 3 claim. It strikes in an eastern direction with an extension of 1500 feet and dips nearly vertical. A visual width of this shear is estimated over 15 feet.

Another mineralized shear zone has been intersected recently by the diamond drilling in the vicinity of the same old pit. The mineralized sheared zone has been encountered at a depth of 18 - 61 feet.

ECONOMIC GEOLOGY

The sulphides mineralization appears to be confined mainly to the sheared zones of the altered monzonite.

The sulphides occur in the form of specks and fractured fillings in the brecciated monzonite. The mineralization consists mainly of argentiferous galena, sphalerite, pyrite, chalcopyrite, chalcocite, tetrahedrite, molybdenite, hematite, and secondary malachite, azurite and limonite.

There is an interesting quartz vein which is exposed in the trenches nearby an old pit within Agie No. 3 claim. This quartz vein occupied a fault, and is estimated up to 15 feet in width, trends east-west, dips nearly vertical, and it has been traced for 300 feet visible. It carries in place massive chalcopyrite, galena and sphalerite.

Preliminary sampling taken by the writer from this vein yielded an appreciable amount of copper, silver, lead and zinc. The assays returned from this sample by J. R. Williams Laboratory showed 0.95% copper, 2.05% lead, 1.60% zinc, 7.25 oz. in silver, 0.04 oz. in gold, and trace of cadmium.

A significant assay has been returned from the core samples of geologically selected intersections 30' - 35' and 110' to 116' from No. 3 c. The assays returned from the upper intersection showed 2.25% lead, 0.37% zinc, 0.07% copper, 18.55 oz. silver, 0.03 oz. gold and trace of molybdenum.

If the above described mineralized shears and quartz veins occur at close enough intervals, the area may be a stock work between these shears. Only further exploration can determine if this is so.

CONCLUSIONS AND RECOMMENDATIONS

The writer submits the following conclusions:

1. That favourable structural and geological features are present on the Agie claims for a stock work type of ore deposit.
2. The metalliferous mineralization occurs in the altered sheared monzonite.
3. That surface and core sampling show widespread sulphides mineralization. ?
4. That in the writer's opinion the mineralization exposed on the Agie claims looks sufficiently interesting to warrant the hope that further work will result in the development of a commercial grade producer of silver, lead, zinc and copper. IP?
5. A further exploration program of diamond drilling and trenching is recommended.

The writer submits the following recommendations:

1. In order to carry out the work, a temporary camp should be established near the W. Later's cabin.
2. Lay out a grid system with the lines spaced 300 feet apart, with stations marked each 100 feet.
3. Map the claim location lines using a chain compass.
4. Run a magnetometer and soil sampling survey over the grid.
5. Do a little bulldozer stripping to assist in the interpretation of the magnetometer and soil sample surveys. Bulldozer stripping has been effective in exposing the mineralized zone, but to date only a small portion of this zone has been tested. Much of the area is covered with overburden, thus further stripping and/or geophysical methods will be necessary for future prospecting.
6. Diamond drilling, using AX core will be necessary to test the target areas indicated by bulldozing and by geochem. - geophysical surveys.

As the surface rock has undergone considerable weathering, deeper sampling will be necessary to determine the extent of surface leaching or enrichment.

7. The area of the old pit on Agie No. 3 claim be diamond drilled. It is likely that a preliminary program would involve 3000 feet of diamond drilling among seven holes. Two reverse holes to be drilled; one from a position 100 ft. south of the pit and another from a position 100 ft. north of the pit, with the vertical angle 45 degrees. Length of each hole should be at least 450 ft.

Four further fan holes should be drilled on section 100 ft. east and west of the first mentioned hole, but the position of the holes will be determined from the results obtained by the first hole.

8. 2000 feet of diamond drilling to test the target areas indicated by bulldozing and by geophysical surveys around other old workings.

COSTS

The commended program is estimated to cost

\$

Minimum of 5,000 - ft, of Diamond Drilling @ \$6.00 per foot	\$30,000.00
Bulldozer rental and operation for one month @ \$23.00 per hour	5,500.00
Assaying possibly 300 samples @ \$5.00	1,500.00
Geophysical and Geochemical surveys and geological mapping	5,000.00
Transportation, Supervision, Engineering, Wages for Labourers	9,000.00
	<hr/>
	\$51,000.00

It is to be noted that this is a minimum program and it would be greatly expanded by finding of an ore zone.

Respectfully submitted,

Boris A. Nekrasov

By: Boris A. Nekrasov, P. Eng.,
M.E.I.C.,
Consulting Geologist.

P.O. Box 214,
Adelaide Stn.,
Toronto 1, Ont.

For: Tulameen Motors Ltd.,
Princeton, B.C.

P. O. Box 491, Stn. A,
Vancouver 1, B.C.

DIAMOND DRILL HOLE LOG

Property: Siwash Creek, W. Later, Hole Number: 1A.
Tulameen Motors Ltd..

At: Princeton, B.C..

Dip: Vertical.

Claim No. Agie 3.

Length: 54 feet

Started: September 15, 1966

Drilled by: W. Later.

Completed: September 20, 1966

Logged by: B.A. Nekrasov.

Size of bit: EX core bit.

Date Logged: Oct. 25, 1966.

Longyear drill machine.

Depth in ft.	Reco very.	Description
000	65% <u>Quartz monzonite</u>	light grey greenish rusty pyritized strongly weathered.
11	85% <u>Quartz monzonite</u>	light grey greenish pink spotted strongly pyritized.
18	35% <u>Faulted altered monzonite</u>	light grey whitish pink greenish soft, kaolin-sericite-quartz-carbonate rock. Badly broken slumped core.
33	85% <u>Hornblende monzonite</u>	light green pink spotted coarse crystalline. Sporadic specks of <u>hematite</u> .
54		END of Hole.

No important mineralization were seen in the core.

In the writer's opinion this hole has not been drilled deep enough to intersect the potential zone of the sulphides mineralization.

DIAMOND DRILL HOLE LOG

Property: Siwash Creek, W. Later, Hole Number: 2B.
Tulameen Motors Ltd..

At: Princeton, B.C.. Dip: 55 degrees
Claim No. Agie 3. Bearing: South 80 West
Started: September 21, 1966 Length: 96 feet
Completed: September 27, 1966 Drilled by: W. Later.
Size of bit: EX core bit. Logged by: B.A. Nekrasov.
Longyear drill machine. Date Logged: Oct. 25, 1966

Depth in ft.	Reco very	Description
000		Overburden. Boulders clay.
8	60%	<u>Quartz monzonite</u> grey green pink rusty strongly weathered. <u>Malachite strainings</u> .
9	65%	<u>Monzonite</u> grey greenish rusty strongly <u>pyritized</u> hardly weathered.
14	75%	<u>Hornblende monzonite</u> grey pink greenish <u>pyritized</u> .
49	5%	<u>Faulted monzonite</u> whitish green pinkish soft kaolin-sericite-carbonate rock with crystals of <u>pyrite</u> and <u>tiny specks of Moly</u> . Badly broken slumped core.
52	85%	<u>Hornblende monzonite</u> light grey greenish pink spotted coarse crystalline barren.
57	75%	<u>Quartz monzonite</u> light green pinkish crumble faulted. Carbonates mixed up with pyrite.
60	90%	<u>Hornblende monzonite</u> coarse crystalline light green pinkish barren.
70	85%	<u>Monzonite</u> with veinlets of hornblendite.
75	85%	<u>Hornblende monzonite</u> green pinkish coarse barren.
96		END of Hole.

DIAMOND DRILL HOLE LOG

Property: Siwash Creek, W. Later, Hole Number 3c.
 Tulameen Motors Ltd..
 At: Princeton, B.C.. Dip: 55 degrees.
 Claim No. Agie No.2. Bearing: South.
 Started: September 29, 1966 Length: 135 feet.
 Completed: October 12, 1966. Drilled by W. Later.
 Size of bit: EX core bit. Logged by B.A. Nekrasov.
 Longyear Drill machine. Date Logged: October 25, 1966.

Depth Reco in ft very	Description	Sample No.
000	Overburden. Boulders clay.	
3	85% <u>Quartz monzonite</u> light grey rusty pyritized.	
10	20% <u>Faulted monzonite</u> light greenish brecciated soft altered by carbonates.	
15	50% <u>Quartz monzonite</u> unaltered barren.	
25	20% <u>Faulted brecciated monzonite</u> pink light green.	
30	20% <u>Faulted monzonite</u> white pink greenish soft crumble kaolin-sericite-carbonate rock with specks of <u>galena</u> , <u>sphalerite</u> , <u>chalcopryite</u> and <u>pyrite</u> . The specks of these sulphides are at 65 degrees to axis of core.	4013 width=5'
35	80% <u>Monzonite</u> pink greenish altered pyritized.	
50	75% <u>Altered monzonite</u> with tiny single specks of <u>galena</u> and <u>pyrite</u> .	
52	85% <u>Hornblende monzonite</u> pyritized.	
82	80% <u>Altered monzonite</u> green pinkish. Occasional single tiny specks of <u>galena</u> , <u>sphalerite</u> , <u>chalcopryite</u> , <u>pyrite</u> .	
84	80% <u>Monzonite</u> with specks of <u>hematite</u> and sporadic crystals of <u>galena</u> , <u>sphalerite</u> , <u>chalcopryite</u> and <u>pyrite</u> .	
101	85% <u>Monzonite</u> light pink greenish pyritized.	
110	75% <u>Altered monzonite</u> light pink greenish with occasional tiny specks of <u>galena</u> , <u>sphalerite</u> , <u>chalcopryite</u> and <u>pyrite</u> .	4014 width=6'
116	85% <u>Quartz monzonite</u> abundant with <u>pyrite</u> .	
135	END of Hole.	

DIAMOND DRILL HOLE LOG

Property: Siwash Creek, W.Later, Hole Number 4d.
Tulameen Motors Ltd..

At: Princeton, B.C.. Dip: 55 degrees.
Claim No. Agie No.2. Bearing: North 70 West
Started: October 13, 1966 Length: 71 feet.
Completed: October 18, 1966. Drilled by W.Later.
Size of bit: EX core bit. Logged by B.A. Nekrasov.
Longyear Drill machine. Date Logged: October 25, 1966.

Depth Reco in ft very	Description	Sample No.
000	Overburden. Boulders clay..	
6	65% <u>Quartz monzonite</u> light grey greenish rusty pyritized, weathered zone.	
30	15% <u>Altered quartz monzonite</u> light grey pink greenish pyritized. Badly broken core.	
61	25% <u>Faulted monzonite</u> dark grey bluish soft crumbled strongly altered and brecciated, abundant with <u>pyrite</u> . Sporadic tiny specks of <u>chalcocite</u> .	4015 ^{-10'} width?
71	END of Hole.	

The drilling has been stopped because of strong
caving conditions in the hole and small Longyear Drill
machine could not penetrate deeper.

Sample Reporting Sheet.

Samples taken by Boris A. Nekrasov,

November, 9, 1966.

For: Tulameen Motors Ltd.,
Princeton, B.C..

Sample No.:	Lead %	Zinc %	Copper %	Silver oz.	Gold oz.	Moly %	Cadmium %	Location and Length in ft.
4006	2.05	1.60	0.95	7.25	0.04		Trace	Old pit, Agie 3, over 15' in width quartz vein.
4013	2.25	0.37	0.07	18.55	0.03			Altered monzonite with sulphides. Core from interval 30'-35 ft, Hole 3c. Agie No.2 claim.
4015	Tr	Trace	0.005	9.75	0.01	Trace		Monzonite, gangue, core interval 61'-71', Hole 4d. Agie 2 claim.

(Signed):

CERTIFICATE OF ASSAY

File #275752/753

J. R. WILLIAMS & SON LTD.

PROVINCIAL ASSAYERS AND CHEMISTS

Office and Laboratory:

580 Nelson Street, Vancouver 2, B. C.

I Hereby Certify that the following are the results of assays made by me upon samples of ORE herein described and received from M B. NEKRASOV. OCTOBER 13th. 19 66

MARKED	GOLD		SILVER		Copper		Lead		GROSS TOTAL VALUE	
	Ounces Per Ton	Value Per Ton	Ounces Per Ton	Value Per Ton	Per Cent.	Value Per Ton	Per Cent.	Value Per Ton	Zinc %	Cadmium %
# 4005-c	0.01	\$	0.45	\$	0.40	\$	0.05	\$	18.90	
# 4006-c	0.04		7.25		0.95		2.05		1.60	Trace

Gold calculated at \$.....per ounce.

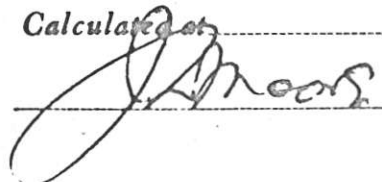
Silver calculated at.....cents per ounce.

NOTE—Pulps of Samples retained 2 months from date of Receipt. Rejects 1 week unless otherwise instructed.

Calculated at.....cents per lb.

Calculated at.....cents per lb.

Calculated at.....cents per lb.



Provincial Assayer.

CERTIFICATE OF ASSAY

J. R. WILLIAMS & SON LTD.

PROVINCIAL ASSAYERS AND CHEMISTS

Office and Laboratory:

580 Nelson Street, Vancouver 2, B. C.

I **Hereby Certify** that the following are the results of assays made by me upon samples of ORE
herein described and received from Messrs. Tulameen Motors Ltd. November 4th 1966.

MARKED	GOLD		SILVER		Copper		Lead		GROSS TOTAL VALUE		
	Ounces Per Ton	Value Per Ton	Ounces Per Ton	Value Per Ton	Per Cent.	Value Per Ton	Per Cent.	Value Per Ton	(2000 Lbs.) Per Ton		
		\$		\$		\$		\$	\$	Zinc	Mo
4013 C	0.03		18.55		0.07		2.25			\$	\$
4014 C	0.005		2.05		0.05		0.07		0.37		
4015 C	0.01		0.75		0.005		Trace		0.23	Trace	Trace

Gold calculated at \$_____ per ounce.

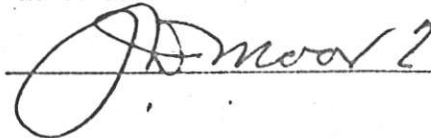
Silver calculated at _____ cents per ounce.

Calculated at _____ cents per lb.

Calculated at _____ cents per lb.

Calculated at _____ cents per lb.

NOTE—Pulps of Samples retained 2 months from date of Receipt.
Rejects 1 week unless otherwise instructed.

 Provincial Assayer.

CERTIFICATE

I, Boris A. Nekrasov, of City of Vancouver, in the Province of British Columbia, hereby certify:

1. THAT I am a Geological Engineer and my present address is P.O. Box 491 Station "A", Vancouver, B. C..
2. THAT I am a registered Professional Engineer in the Mining Section, in the Province of Ontario and also a corporate member of the Engineering Institute of Canada, a member of the Canadian Institute of Mining and Metallurgy, as well as other Learned Societies.
3. THAT I have practiced my profession as geologist for more than 20 years.
4. THAT I have no direct or indirect interest whatsoever, in the mining claims referred to in the accompanying report, nor do I expect to receive any such interest.
5. THAT I examined the property concerned in this report on October 27th to October 29th, 1966, and this report is based on this examination, and on my experience supervising the exploration program on the adjacent and other nearby properties.
6. THAT I have no direct or indirect interest in any Company acquiring control or intending to acquire control of Agie Group mineral claims.

DATED this 10th day of November, 1966.



Boris A. Nekrasov, P.Eng., MEIC.,
Consulting Mining and
Geological Engineer.

REPORT OF MINISTER OF MINES
PROVINCE OF BRITISH COLUMBIA
the year - 1927

AMANDA GROUP *****"Renfrew"

This claim formerly known as "SNOWSTORM" is located about 18 miles up Siwash Creek from Jellicoe siding C.F.R. on the East side of the Creek.

There is a good log cabin which will accommodate 6 men on the property: In 1926 Lade Brothers leased the Mine and shipped -- by pack horse and Railway; 27 tons of silver lead ore to smelter at Trail, B.C. , this shipment contained, 3 oz Gold 3,379 oz Silver, and 1,578 oz lead, please note figures for Zinc not given, for as of that time all smelters penalized for Zinc,.

Ore minerals are galena, pyrite, argentite, tetrahedrite arsenopyrite in gangue of quartz., the main mass of country rock is granite perphory black fine grained lamprophre dyke follows foot wall of ore in 2 upper levels of the tunnels, realgar is found in shattered rocks.

Strike of vein is between N 17°E and N 65°E (magnetic)

No. 1. the upper tunnel is driven 90 feet into the mountain, it is caved near the face, the vein is 10 inches wide and has been stoped to the surface near the mouth of the tunnel, elevation is 4655 feet (barametric)

AGIE GROUP OF 25 GALENA CLAIMS

THIS group is located over an extension of the "Renfrew Stock" as noted; (Amanda Group). This formation crosses over Siwash Creek just below where Tepee Creek flows into it and extends south westerly. It has exceptional silver values. There is a rough but passable bulldozed road over these claims which comes in from the main road on the south side and crosses the discovery group and goes by the showings at the old C.P.R. camp on ~~the~~ Agie Number 5 where it joins the main road again.

The writer generally uses the cabin on Siwash Creek on the Amanda Group when is is working on these claims, the cabin is approximately one and a half miles above the Agie number 5.

The following are excerpts from the laboratory reports of the Chief Analyst and Assayer of the Department of Mines and Petroleum Resources for the Province of British Columbia.

1512A Spectrochemical Analysis: The only base metals found, and their percentages, were those occurring normally on the rocks.

Assays: Gold nil
Silver nil

Radioactivity: No greater than that occurring normally in rocks.

1513A Spectrochemical Analysis: Copper, Lead, and Zinc, and a fraction of 1 percent of bismuth were found; the other base metals found and their percentages, were those occurring notmally in rocks,

Assays: Gold 0.02 oz. per ton
Silver 34.6 oz, per ton
Lead 6.92 %
Zinc 1.9 %
Copper 1.11 %

Radioactivity: No greater than that occurring normally in rocks.

1514A Spectrochemical Analysis: A fraction of 1 percent of Zinc, and very small fractions of 1 percent of copper and lead were found; The other base metals found and there percentages were those occurring normally in rocks.

Assays: Gold nil
Silver 0.4 oz
Lead 0.07 ~~oz~~%
Zinc 0.5 ~~oz~~%

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No. 2 Tunnell is driven 36 feet into the mountain with a 2 wing tunnels each 40 feet long, the vein is 6 to 10 inches wide, and is stoped for 20 feet near the mouth.

The elevation is 4490 feet (barametric)

There are also cuts and trenches near the tunnels, deepening same would expose the formation better,