	LOG NO: 0313	RD.
	ACTION:	
	FILE NO:	
REPORT ON THE 1988 SUMMER	R EXPLORATION PROGR	AM
PROSPECTING, GEOLOGICAL MAPPIN	NG, DRILLING AND TR	ENCHING
ON TH	E	
MARMOT GROUP	OF CLAIMS	
TEDRAY 9,10,11,12,13,14	,15,16,17,18, OK 1,	2
SULPHURETS	PROJECT	FILMED
BRUCEJACK L	AKE AREA	
SKEENA MINING	DIVISION	
BRITISH COLUMB	IA, CANADA	
NTS 104B	/8,7	
56 DEG 30'N.	LATITUDE	No.
130 DEG 13'W.		
$\int \frac{W_{p,Q}}{2} \sim \frac{W_{p,Q}}{2} \int \frac{for}{2}$. ZG ≮₽	
L NEWHAWK GOLD	MINES LTD. 😭 🖂	
B60-625 H	DWEST. 🚨 🖻	
VANCOUVER, B	.C. V6C 2T6 🥃 🖉	
ON GROUND	HELD BY	
GRANDUC MI	NES LTD.	
#1500-675 W. I	HASTINGS ST.	the stand of the s
VANCOUVER B.	C. V6B 1N2 💭 🖗	
	₽ C	
MARCH 1 1998	N.I. TRIBE	F.Ena.
MANCH 1, 1700		
	$M \subset \mathcal{M}$	7
	fr ×	/
	C	

9......

ſ

REPORT ON THE 1988 SUMMER EXFLORATION FROGRAM PROSPECTING, GEOLOGICAL MAPPING, DRILLING AND TRENCHING

ON THE

MARMOT GROUP OF CLAIMS

TEDRAY 7,10,11,12,13,14,15,16,17,18, OK 1,2

SULPHURETS PROJECT

BRUCEJACK LAKE AREA

1

SKEENA MINING DIVISION

BRITISH COLUMBIA, CANADA

NTS 104B/8,9

56 DEG 30'N. LATITUDE

130 DEG 13'W. LONGITUDE

CONTENTS

INTRODUCTION	page 1	
Summary	page 1	
Background	page 3	
RESULTS	page 4	
Purpose Prospecting <u>Sulphurets Lake Gold Zone</u> <u>Sulphurets Gold Zone</u> <u>West Mitchell-Sulphurets Ridge and</u> <u>Main Copper Zone</u> East Mitchell-Sulphurets Bidge and	page 4 page 4 page 4 page 5 page 5	
Josephine Zone Hanging Glacier Area Golden Marmot Area <u>The Wease! Zone</u> <u>The Marmot Zone</u> <u>The Deb Jone</u> <u>The Wall Vein</u>	page 6 page 7 page 7 page 8 page 8 page 8 page 8	

N. TRIBE & ASSOCIATES LTD. - 2611 SPRINGFIELD ROAD, KELOWNA, B.C. CANADA V1X 189 - TELEPHONE (604) 860-7651

<u>The Ptarmigan Jone</u> Mitchell Glacier-Kirkham Zone	page 9 page 9	
Geology	page 10	
DRILLING RESULTS Golden Marmot Area	page 13 page 13	
STATEMENT OF COSTS	page 18	

LIST OF ILLUSTRATIONS

•

Figure #1	Location Map	after page 1
Figure #2	Claim map	after page 3
Figure #3	Index Map with Mineral Zones	s after page 5
Figure #4	Froperty Map Sample Location Summer 1988 1:20,000	ns Map packet
Figure #5	Interpreted Surface Geology Moly-Kirkham Zones Sample Locations Summer 1988. 1:	a 10,000 map packet
Figure #6	Hanging Glacier Area Golden Josephine Zone Sample Locat: 1:5,000	Marmot Zone And ion Map map packet
Figure #7	Mithcell-Sulphurets Ridge Geol Josephine Zone Sample Lo 1:10,000	ogy Map. cation Map. map packet
Figure #8	Geology with Interpretation Golden Marmot Zone 1:2,000	map packet
Figure #9	Golden Marmot Zone Assay P1 1:2,000	an map packet
Figure #10	Geology Special Section Marmot Zone 038-280 1:500	map packet
Figure #11	Geology Special Section Deb Zone 588-281 1:500	map packet
Figure 12	Geology Special Section Weasel Zone S88-282 1:500	map packet
Figure #13	Geology Special Section Wall Vein S88-283 1:500	map packet
Figure #14	Geology Special Section Ptarmigan Zone S88-284 1:500	map packet

4

ļ

÷

LIST OF APPENDICES

APPENDIX I: Core Logs

P - -

APPENDIX II: Assay Certificates

AFPENDIX III: Qualifications of Writer and Field Personnel

APPENDIX IV: Legend and Lithologic Descriptions

REPORT ON THE 1988 SUMMER EXFLORATION PROGRAM PROSPECTING GEDLOGICAL MAPPING DRILLING AND TRENCHING

ON THE

MARMOT GROUP OF CLAIMS

TEDRAY 9,10,11,12,13,14,15,16,17,18,0K 1,2.

SULPHURETS PROJECT

BRUCEJACK LAKE AREA

SKEENA MINING DIVISION

BRITISH COLUMBIA, CANADA

NTS 104B/8,9

56 DEG. 30' N. LATITUDE 130 DEG. 13' W. LONGITUDE

INTRODUCTION

The purpose of this report is to document the work done on the surface exploration portion of the Sulphurets Project for the 1988 summer field season. The report will include a summary of the prospecting efforts on the whole of the property, and an assessment of the new discoveries revealed by this prospecting.

The report will revew the surface diamond drilling and summarize the results.

Summary

The property is located 60 Km. northwest of Stewart B.C. in the Coast Range mountains. Miuch of the property os alpine with high plateaus ridges aretes icefields and deep



glacier filled valleys. Access is by highway 37 into Stewart thence by helicopter into the property.

The property is owned by Granduc Mines Limited of #1500-675 W. Hastings St. Vancouver B.C. V6b 1N6 and is made up of a mineral claim group called the Marmot Group, which includes the Tedray 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, OK 1, 2, mineral claims and is part of a larger holding called the Sulphurets Property. The work was carried out by Newhawk Gold Mines Ltd. of 860-625 Howe St. Vancouver B.C. V6C 2T6.

The surface exploration crew consisted of four geologists: N. Tribe B.A.Sc., P.Eng., R. Leep B.Sc., B. Bower B.Sc., M. Genn B.Sc. These technical people were augmented by a 2 man trenching crew, a diamond drill with helicopter support.

The exploration base camp was established next to the mine camp and cook shack and laundry privileges were enjoyed by the surface exploration personel.

The program got underway July 6, 1988 with crews arriving on the property on July 13, 1988.

An area of 56 ha. was mapped on the Golden Marmot Zone on 1:2000 scale.

A total of 70 man days was spent prospecting, and 40 man days mapping.

A total of 672.3 m. of BQ core was drilled and a total of 268 core samples assayed by fire assay methods in Stewart. A Map I XFF portable silver scanner was used to screen samples and provide direction for the prospecting, drilling and mapping.

Atotal of 521 samples were assayed of which 268 were core, 49 were trench samples and 204 were grab samples. In support of this a further 1,112 samples were scanned by MAF I.

The total cost of this portion of the summer program is \$132,937.72 with the completion of this report.

Background

F 1

Several stages of exploration were undertaken on the claims, starting in 1880'S with the Johnson brothers searching for gold in the Sulphurets. Prospectors arrived in 1935 locating the Main Copper Zone. In 1960 Granduc took up the main body of claims on the Main Copper deposit on the Mitchell-Sulphurets Ridge. Over the years these holdings were extended to the south to include the claims around Brucejack Lake. In 1985 Newhawk staked the remainder of the claims to bring the holdings up to their present size.

In 1974 Montgomery et al and in later years others carried out a broad litho-geochemistry survey in which copper was the main target but which also provided a data base for gold and silver. Granduc spent several years studying the Main Copper Zone on Mitchell-Sulphurets Ridge and established a reserve of 87,000,000 tons of 0.55 - 0.85% Cu. and 0.013 -0.020% MoS2 and 0.021 - 0.050 opt Au. When Esso optioned the property in 1980, their efforts were directed toward this copper deposit. After the first year the emphasis was shifted toward the precious metals discoveries around Brucejack Lake. These discoveries proved too small and too late within the framework of their option agreement for Esso



to continue and Newhawk Gold Mines Ltd. took over in 1985. Newhawk's efforts were directed toward developing the West Zone at Brucejack Lake and very little was done in the following two years on the numerous areas of known mineralization or the numerous anomalies outlined in the geochem surveys.

RESULTS

Furpose

At the beginning of the 1988 season Newhawk's board considered that an overall evaluation was necessary for a systematic development of the property. They directed the field program to return to as many of the known areas of mineralization and as many of the geochem anomalies as possible, and establish priorities in evaluating each within the overall property development plan. This, then, was the purpose of the exploration program in the summer field season of 1988.

The program got somewhat side-tracked with some impressive new discoveries early in the season, but was able to relocate most of the previously documented gold bearing mineral occurences and visit the larger geochem anomalies.

Prospecting

Sulphurets Lake Gold Zone

This zone, located near the toe of the Sulphurets glacier, (Figure #4) consists of sericite-pyrite alteration with quartz-bearing shears up to 5 meters wide cutting andesite lapilli tuffs and intrusive rocks. These shears trend 050 degrees to 060 degrees and dip to the northwest.

Initial chip samples across the shears assayed 0.246 opt Au. and 1.38 opt Ag. over 2.0 m. and 0.244 opt Au. and 2.99 opt Ag. over 2.0 m. Resampling in the area was not able to duplicate these values but did get values as high as 0.074 opt Au. over 2.5 m. The gold is probably associated with small quartz stringers and veinlets in the shears within the overall sericite-pyrite-quartz package. Montgomery mentions an assay 1.0 opt Au over 3.0 m. and 0.324 opt Au. over 12 m. <u>Sulphurets Gold Zone</u>

The Sulphurets Gold Zone (Figure #4, "Property Geology Sample Locations Summer 1988") is similar to the Sulphurets Lake Gold Zone consisting of large gossanous sericite-pyrite-quartz shears. These shears trend NNE and dip to the west. Molybdenum and chalcopyrite are also present in the shears. A select grab sample of pyrite in a shear assayed 0.154 opt Au. A representative chip sample across 3.0 m. in a mineralized shear assayed 0.204 opt Au. Silver samples in this area were generally low but went as high as 77.3 opt Ag. over 0.5 m. in a quartz vein. An assay from the east end of the zone, from a massive pyrite pod within a larger sericite-pyrite-quartz zone, assayed 0.119 opt Au. over 5 m. A follow-up sample taken above the pyrite pod in the alteration zone gave 0.129 opt Au. across 3.0 m. and two samples taken below the pyrite pod gave assays of 0.047 opt Au. across 4.0 m. and 0.040 opt Au. across 5.0 m. The zone seemed fairly continuous but the gold mineralization was not easily defineable. Sample locations are shown on a map entitled "Froperty Geology Sample Locations Summer 1988"



(Figure #4).

The area is extreme in relief and access is hazardous or impossible without expert climbers and climbing gear. Loose crumbling rocks increase the problems and will require extreme care to work safely.

The zone continues to the northwest into the treed area in which there is good alteration and some limited outcrop to work with. This area was not covered in this program.

West-Mitchell-Sulphurets Ridge Area and the Main Copper Zone

Several traverses were made along the west end of the ridge, west and north of the Main Copper Zone, "Property Geology Sample Locations Summer 1988" (Figure #4). Several veins were noted but none had sufficient size to warrant immediate follow up. The best of these was a quartz hematite vein assaying 0.195 opt Au. over 0.3 m., and 0.376 opt Au. across 25 cm., and quartz carbonate galena sphalerite vein assaying 0.162 opt Au., 28.3 opt Ag. across 50 cm.

East Mitchell-Sulphurets Ridge and Josephine Zone

A very short reference is made to this area in Bridges work and a small sketch map was found in the files passed on to us. The old sketch map had noted occurences of barite and made references to electrum. A visit to the area "Mitchell-Sulphurets Ridge Geology Map 1988 Josephine Zone Sample Location Map" (Figure #7) late in the season revealed several quartz-barite stockwork structures with abundant tetrahedrite which gave some exciting assays ranging from 2.84 opt Ag. to 104.73 opt Ag. and up to 0.309 opt Au over 1.5 m. The length of this zone is in the hundreds of meters and sits just west of the Brucejack Fault on the Mitchell-Sulphurets Ridge at about 6,300 ft. (1,920 m.) elevation.

<u>Hanging Glacier Area</u>

Several traverses were made in this area "Hanging Glacier Area Sample Location Map", (Figure #6) and the numerous rich veinlets known to exist were revisited. The veins found to date have all been small, in the order of a few centimeters wide and a few meters long. No area has yet been located where these veinlets could be bulk mined. Other areas of greater potential preclude any further work on this area.

<u>Golden Marmot Area</u>

This is one of the areas showing anomalous on Montgomery's geochem maps. The area did not receive much attention in the past but was visited early in the prospecting program. Initial traverses discovered numerous quartz stockworks, many with an abundance of tetrahedrite and/or tennantite. Five main systems were defined "Geology with Interpretation Golden Marmot Zone", (Figure #8), "Golden Marmot Zone Assay Plan", (Figure #7). These are The Weasel Zone, The Deb Zone, The Marmot Zone, The Wall Vein and The Ptarmigan Zone. The area is mainly andesite volcanics but with sediments around the perimeter and syenite and plagioclase porphyry intrusives breaking through the volcanics. The whole of the area is highly sericitized pyritized and propylitized and appears as a broad gossaneous

area.

The Weasel Zone

The Weasel Zone is a quartz stringer zone with a north-south strike and a near vertical dip. The zone of mineralization is 3 to 5 m. wide. The best surface sample assayed 0.121 opt Au., 23.14 opt Ag. across 3.5 m. The zone was trenched with three trenches and one hole was drilled. Trenching and drilling results were not able to duplicate the surface results.

The Marmot Zone

The Marmot Zone is an ESE trending quartz vein up to 2.5 m. wide assaying 0.956 opt Au. 0.32 opt Ag. from surface samples. No trenching was done but one hole was drilled with disappointing results showing a much smaller (1.5 m.) stucture and grades of 0.165 opt Au., 0.26 opt Ag.

The Deb Zone

The Deb Zone is the strongest of the quartz stockwork structures, some tens of meters wide and hundreds of meters long. The trenching and drilling results were disappointing, giving only 0.030 opt Au. over 1.8 m. and 0.030 opt Au. over 3.0 m.

The Wall Vein

The Wall Vein is made up of two prominent quartz veins lying in or just west of the Brucejack Fault. Each vein is approximately 1.0 m. wide, can be traced through the scree for about 30 m., and assayed 0.668 opt Au. One hole was drilled and gave assays up to 0.030 opt Au.

The Ptarmigan Ione

The Ptarmigan Zone is a series of quartz-carbonate veins and stockworks with irregular trends and varying amounts of mineralization. It is the largest of the zones in the Golden Marmot area, but is more scattered than the others. The best surface grab sample assayed 0.459 opt Au. and 14.16 opt Ag. Twelve trenches were cut across the various veins along the ridge and the best result was from trench T273 with assays of 4.814 opt Au. 3.52 opt Ag. over 3.0 m. One hole was drilled through a number of veins which run along the ridge, giving assays of 0.175 opt Au., 0.45 opt Ag. over 3.1 m. and 0.101 opt Au. 0.41 opt Ag.over 3.1 m.

On the west end of this zone is an area containing quartz breccia with pyrite which has a southeasterly trend. Surface samples assayed 0.211 opt Au. across 1.0 m. and 0.120 opt Au. over 3.0 m. The trenching on this outcrop gave results of 1.116 opt Au., 0.44 opt Ag. over 0.5 m. One isolated cabonate vein in this area assayed 0.011 opt Au., 96.01 opt Ag. over 0.4 m.

Mitchell Glacier-Kirkham Zone

The area near the toe of the Mitchell Glacier along the south side of the valley was traversed over a period of several days "Interpreted Surface Geology Moly-Kirkham Zone Sample Locations Summer 1988", (Figure #5). A large intensely mineralized quartz stockwork with pyrite and chalcopyrite was noted just south of the toe of the glacier in an area sometimes referred to as the Kirkham Zone. Twenty-eight samples were taken and the best result was

0.057 opt Au., 2.36 opt Ag.

<u>Geology</u>

The regional geology was mapped by Bridge et al in the period 1980-1983. The majority of the rocks are Unuk River Formation andesite lapilli tuffs and Salmon River Formation sediments derived therefrom. Into this package is intruded numerous symmite, diorite or plagioclase porphyry stocks. The volcanics are steeply folded into near vertical standing folds with an overriding strike direction of about 320 degrees. Large areas of alteration several kilometers long and 1 - 2 km. wide of highly sericitized, pyritized rocks mark the centers of mineralization.

Structurally the most important features on the property are thought to be a north-south trending set of regional faults and the north-east trending set of regional faults. A study of the orthphoto has provided a better understanding of the importance of these structures.

The most predominant of the north-south system is the Brucejack Fault but others dubbed the Ice Fault, Mill Fault, Ptarmigan Fault and Freegold Faults can be seen on the airphoto mosaic cutting through the Brucejack area north south at 500 to 1,000 m. intervals. The most prominent of the north-east trending set is the Golden Rocket Fault and others have been dubbed the N.W. Fault, Gossan Fault and Galena Faults.

Early work indicated the north-south faults to have a right lateral displacement providing a right lateral

torsional moment along which many of the quartz stockworks have developed. Close examination of jointing adjacent to the Brucejack Fault reveals a curvature to the left which contradicts this right lateral movement but as yet this problem has not been resolved. The quartz stockworks fit more comfortably, at this time, into a right lateral strain envelope.

.

The present thinking is that the Brucejack fault and the Mill Fault control the openings from the Electrum Zone, Spine Zone, Galena Zone, Notch Zone, West Zone, Waterfall Zone, the five distinct stockworks on Gossan Hill, and several more including the NW3 Zone and the Iceberg Zone, north to the crossing, Golden Rocket Fault, near Catear's Mill.

To the west is a corridor of stockworks between the Brucejack Fault and the Ftarmigan Fault. These include the BJF Zone, the Golden Rocket Zone (Catear's), the Marmot Zone, Deb Zone, Ftarmigan Zone, and the Weasel Vein.

The structural model which fits the observations made to date is one involving a regional stress-strain pattern developing along the north-south lineaments with right lateral rotation. Strong north-south lineaments appear to form strain boundaries for most of the tensional openings (ie. most of the quartz stockwork zones) and the alteration zones within the Brucejack area. These openings are oriented about 40 degrees counterclockwise from the north-south lineaments or in the R1 direction (Reidal System). Large areas of sericitic alteration and numerous quartz stockwork zones have been mapped at or near this orientation (Az. 140 degrees). A second set of openings sometimes occur within the strain envelope. These are rotated a further 40 degrees counterclockwise and have a general orientation of about Az. 100 degrees or in the R2 direction. Veins fitting this orientation are the sulphide rich parts of the West Zone. An overall "S" shape for the West Zone is apparent when viewed as a loop including the Southwest stockworks. One problem with this model is that the easterly hook in the south end of the loop is incompatible with a right lateral rotation strain pattern.

A second pattern of regional faults is noted in the north-east orientation and these may play a significant part in the structural picture, but are not fully understood at this time. A left lateral moment in this orientation along these north-east faults could explain the hook in the south end of the West Zone and perhaps also the left lateral curvature noted in the jointing adjacent to the Brucejack Fault.

An alternative structural model could be based on east-west crustal deformation with a left lateral rotation passing approximately up the Knipple Glacier and through the Brucejack Lake area. This model is the simplest in explaining the shape and orientation of the West Zone, Shore Zone, and other stockworks in the Brucejack area. As yet evidence of a major east-west structure has not come to light.

The development of the stockworks appears also to be related to the contact between the sediments and the volcanics and develops best just inside the contact within the volcanics. There are some obvious structural reasons for this, such as changes in competency, for instance, but there are probably chemical and permeability reasons as well.

The Reidal structures which form the loci for the mineralization do not always develop quartz stockworks but often form a broad zone of sericitic, argillic and propylitic alteration with or without quartz stockwork at the core. This zoning grades outward through sericitization, then propylitic alteration, then argillitic alteration halos, in a lateral zoning.

The detailed mapping of the Golden Marmot Zone (Figure #8) shows a markedly similar geological environment to the West Zone and Shore Zone, 3 km. to the south. The quartz stockworks of the Golden Marmot Zones form a series of lenses in a general northwest orientation just inside the andesite's near the volcanic sedimentary contact. The symite and plagioclase intrusives are also present as is the sericite and argillic alteration patterns. The whole package is located between the Brucejack Fault and the Ptarmigan Fault completing the structural comparison.

DRILLING RESULTS

Golden Marmot Area

The drilling results on the Golden Marmot Area were successful in locating, establishing orientation and measuring widths and grade of the veins systems located during the surface prospecting program.

Diamond drill hole DDHS88-280, drilled on the Marmot Zone, was drilled to test the Marmot Vein systems at depth. The hole was drilled mainly in plagioclase porphyry and syenite intrusive rocks with moderate to intense jade green sericite alteration, mild brecciation and occaisional stockwork vein systems. Vein systems were encountered from 28.7 m. - 29.3 m. which graded 0.165 opt Au., 0.26 opt Ag. over 0.5 m. and from 44.2 m. - 47.5 m. which graded 0.096 opt Au., 2.02 opt Ag. over 1.5 m.

The Marmot Zone is typical of the stockwork vein systems found in the Brucejack Area with stockworks and alteration comparable to that found in the West Zone and Shore Zone. The Marmot Zone has thus been proven at depth but will probably require further drilling when the 1:500 scale mapping is complete.

One hole, DDHS88-281, was drilled on the Deb Zone. The Deb Zone is the strongest of the stockworks on surface in the Golden Marmot Area, but does not display sulphides at surface. This hole was drilled to 191.7 m. in andesite lapilli tuff throughout. Stockwork or veins were not as strong in the drill hole as on surface and did not give significant assays. Detailed mapping at 1:500 scale, may provide a better understanding of the Deb Zone but no further drilling is required until then.

One hole, DDHS88-282, was drilled on the Weasel Vein to test the vein where excellent results were obtained from surface sampling. The hole was collared in moderately to intensely sericitized andesite lapilli tuff and remained in this rock type throughout. Areas of quartz stockwork and chlorite alteration were encountered as well as the dikes noted on surface. No significant precious metal values were encountered.

e -

•

- -

.

.

.

.

•

.

^

One hole, DDHS88-283, was drilled to test the Wall Vein where excellent gold values were obtained from surface This vein sits in a zone of shearing associated samples. with the Brucejack Fault. The hole was collared in moderately silicified, moderately chloritized andesite lapilli tuffs containing traces of copper. The Wall Vein was intersected from 36.4 m. to 40.1 m. and is made up of two, 1.0 m. veins seperated by chlorite altered tuffs. Assays from the vein were 0.034 opt Au., 0.05 opt Ag. over 2.0 m. and 0.033 opt Au., 0.12 opt Ag. over 2.3 m. These results were dissappointing compared to the surface values of 0.668 opt Au., 0.23 opt Ag. collected earlier. Detailed 1:500 scale mapping and further surface sampling may provide an insight as to the potential of this vein but there does not appear to be a further worthwhile target here at this time.

The most promising zone in the Golden Marmot Area is the Ptarmigan Zone where samples assaying 4.814 opt Au., 3.52 opt Ag. over 3.0 m. were taken from trench T273. One hole, DDHS88-284 was drilled to 179.5 m. through a portion of the wide spread scattered quartz stockwork zone. The hole was collared in overburden as far back as the terrain would permit and the hole passed in to 6.7 m. of quartz vein directly after hitting bedrock. The wall rocks here are moderately to intensely sericitized andesite tuffs with an abundance of jade green sericite. Further veining occures at 41.8 m. - 42.4 m., 92.6 m. - 92.8 m. and 107.4 m. - 107.6 m. with assays up to 0.175 opt Au., 0.45 opt Ag. over 3.1 m. A second assay of 0.101 opt Au., 0.41 opt Ag. was obtained from a section of chloritized andesite containing up to 20% pyrite but lacking in quartz.

Traces of chalcopyrite and malachite have been noted in the core of several holes in the Golden Marmot Area and assays for copper will have to be done.

CONCLUSIONS

-

Prospecting

The prospecting was successful in relocating most of the gold showings reported in the old reports. As well, a new area called the Golden Marmot Area was discovered which contained at least five good mineralized quartz stockwork zones, four with high silver values. Prospecting is still one of the most effective methods for discovering mineralization in this area.

added to the interpretation.

The structure of the Brucejack Area quartz stockworks appears to be related to the dynamics generated by the right lateral, north-south faulting. These stockwork zones form classic loop patterns. Some interference either contemporaneous or subsquent, by a left lateral movement on the north-east trending faults, is necessary to explain the easterly hook in the south end of several of the zones.

The stockwork zones should not be regarded in isolation, but viewed within the total alteration envelope.

More study is required in order to fully understand the structural controls and alteration patterns of the Brucejack area. The possibility of major left lateral east-west crustal deformation feature should not be over looked. Such a structure would go a long way in explaining the shapes observed to date at Brucejack.

Driling

The drilling on the Golden Marmot area was moderately successful in intersecting significant one grade material. The most favourable area appears to be the Ptarmigan Zone where grab samples on surface, trench samples from T273, and core samples from DDHS88-284 all gave one grade values over mining widths. The other zones in the Golden Marmot Area did not give one grade intersections in the drilling but should not be ignored. More surface work will be required before more drilling can be recommended.

CORE STORED AT NEWHAWK CAMPSITE AT BRUCEJACK LAKE.

Statement of Cost

.

.

Fhysical

Trenching	\$13,797.10
Labour, Geological Support (27.5 days @ \$200/day)	\$5,510.00
Assays	\$1,530.70
Helicopter Support	\$3,900.00
Drafting and Reporting	\$822. 02
	*=**==***
Total	\$25,559.82
Geological	
Drilling 5 holes 672.1 m.	\$62,332.94
Labour (16 man/days Ə \$200/day)	\$3,200.00
Helicopter Support - drill moves (5 moves X 4 hours X \$675/hr.)	\$13,500.00
(16 X 0.3 hrs X \$675/hr.)	\$3,240.00
Assaying and Supplies	\$1,440.54
Reporting and Drafting (30 man days ଡ଼ \$200/manday plus expen	\$6,826.00 ses)
Total	\$70,539.48
Mapping	
Labour 62 man-days	\$12,400.00
Helicopter Support 3 hrs X \$675/hr.	\$2,025.00
Reporting	\$2,313.42

Total	\$16,738.42
Grand Total	\$132,837.72

This report is respectfully submitted as part of the assessment work requirements for the Marmot Group of mineral claims.

N: L. Tribe P. Eng. 2611 Springfield Rd. Kelowna B.C. V1X 189 March 1, 1989. APPENDIX I

.

~

Core Logs

	DIAMOND DRILL	RECORD	
PROPERTY_	SULPHURETS	HOLE NO.	<u>\$88-280</u>
Section_	Special	Az	246 GN
Date	August 20, 1988	Elev	<u>1530 m.</u>
Lat	-2226 N	Depth	<u>124.7 m.</u>
Dep	4432 E	Logged by	<u>N.L.T.</u>
	DIP		
	Footage Reading	Dip	
	0	-45 ⁰	

Depth			
From	То	Description	
0	6.1	Casing.	
6.1	22.4	<pre>PPFP. Plagioclase porphyry. Pale to med. grey. Hardness 3 - 4. Fine grained matrix with up to 40% coarse.plag. phens. rounded. Mod intense sericitization 6.1 - 7.0 - Coarse grained, partially weathered. 7.0 - 9.1 - Int. ser. 9.1 - 11.6 - Wk. ser. -1.6 - 23.8 - Mod int. ser. Broken core: 7.9 - 8.2 8.8 - 9.4 11.6 - 11.9 Ground core: Ni1. Faulting: Crush and mud. 0.3 m. at 21.0 m. @ 30° CA. Foliation: 40° @ 14.9 m. 35° @ 19.8 m. Contact across 5 cm. Bx zone.</pre>	
22.4	28.7	Syen. Hornblende syenite. Pale - med. grey. Hardness: 3 - 4. Silky lustre in some areas. Med. gr. (2 - 5 mm.). Sericite altered layers up to 40% in very fine grained pale grey matrix. Laths are angular elongated. Faults: #2 fault 30° CA @ 26.2 m. #1 fault 35° CA @ 27.4 m. Jointing predominantly at 45°. Broken core: 0.15 m. @ 22.6 m. 0.30 m. @ 24.4 m.	

Hole No. _______88-280

Dept	h		
From	То	Description	
		22.4 - 23.5 - Mod. ser. 23.5 - 25.3 - Wk. ser. 25.3 - 28.7 - Mod. py. very fine grained - 5 - 10%. Contact with the vein at 25° CA.	
28.7	29.3	QCVN. Quartz carbonate pyrite vein. Med. grey-white. Hardness 6 - 7. Very fine grained siliceous. Mildly brecciated, 5 - 10% pyrite trace, dark sx. Mineralization (40° CA. Contact with the following section 30° .	
29.3	124.7	PFPP. Plagioclase porphyry Medium grey to pale grey. Hardness: 3 - 5. Medium - fine grained phaneritic ground mass with med coarse grain plagioclase laths up to 1.5 cm often altered to sericite and displaying a jade green color and silky lustre. Texture is phaneritic to schistose. Foliations: 35° @ 33.2 m. 30° @ 100.3 m. 50° @ 100.3 m. 50° @ 88.1 m. 40° @ 109.4 m. 40° @ 121.6 m. 29.3 - 30.8 - PFFP. Moderate ser., fine grained. Minor 2 mm. QC veinlets. 30.8 - 44.2 - PFFP. Int. sericitized. Med. grained - coarse phenocrysts. Mod. schist- ose elongate laths altered to sericite. Jade green sericite. Hardness: 3. 44.2 - 47.5 - QCSW. QC BX. PFFP. Int. ser. Injected with -70% QC veinlets. Traces Py. and Tet. ∠1%. Mildly brecciat or crackled. 47.5 - 61.0 - PFFP. Int. ser. Med. grained laths to jade ser., mod. foliated. Laths dist- inct. Less than 1% QC vein lats.	

Property SULPHURETS

Sheet	No.	3	of	3
-------	-----	---	----	---

Hole No. <u>\$88-280</u>

FromToDescription61.0 - 86.9 - PPFP. Weak - moderate ser- icite. Fine grained laths altered to ser. Laths fine grained. 1 mm. x 3 mm. phaneritic to weakly schist- ose. 2 - 3% QC veinlets.86.9 - 87.5 - PPFP. QCVN. White QC veinlet No Sx.87.5 - 124.7 - PPFP. Weakly - moderately sericite grains. Distinct med. grained laths of jade green sericite. Minor QC veins: 6.0 cm. @ 101.8 30.0 cm. @ 103.9 20 0 cm. @ 103.9
<pre>61.0 - 86.9 - PPFP. Weak - moderate ser- icite. Fine grained laths altered to ser. Laths fine grained. 1 mm. x 3 mm. phaneritic to weakly schist- ose. 2 - 3% QC veinlets. 86.9 - 87.5 - PPFP. QCVN. White QC veinlet No Sx. 87.5 - 124.7 - PPFP. Weakly - moderately sericite grains. Distinct med. grained laths of jade green sericite. Minor QC veins: 6.0 cm. @ 101.8 30.0 cm. @ 103.9</pre>
124.7 END OF HOLE.

DIAMOND DRILL RECORD

PROPERTY_____SULPHURETS_____Sheet No._1___of _1___

Hole No. _____ 588-280

	DIAMOND DRILL	RECORD
PROPERTY	SULPHURETS	HOLE NO. <u>S88-281</u>
Section	Special	Az. 060° GN
Date	August 22, 1988	Elev1544_m
Lat	-2610 N	Depth191.72_m
Dep	3996 E	Logged by <u>N.I.T.</u>
	DIP	
	Footage Reading	Dip
	0	-45 ⁰

Description
Casing. Ca
.23

Property SULPHURETS

Sheet	No.	2	of	5

Hole No. _ S88-281_

Depth					
From To		Description			
	5.49 - 11.58 - ANLT. Intensely sericitiz ed. Intense pyritized. Up to 40% pyrite in coarse blotches up to 5 cm. plus disseminations, QCSX vein @ 6.4 m.				
		<pre>11.58 - 39.01 - ANLT. Weak - moderately sericitized. Some patches of intense pyrite but gene erally less than 10% as fine disseminations. Frace ments visible throughout -1 - 5 cm. Weakly foliate 20 cm. yein QCSX at 35.97 m. @ 40 CA.</pre>			
		39.01 - 42.06 - ANLT. Weak - moderate se icite. Weak to chloritiz ed. Numerous 1 cm. vein- lets and QCSX altered shears. Sx - Py.			
		42.06 - 45.11 - ANLT. Mod. ser. Wk. chlor. Frag 5 cm. phaneritic matrix.			
		45.11 - 45.42 - QCSX Vn. Int. ser., wk. chlor. 35 - 40% Sx Py. Foliation: @ 30°.			
		45.42 - 80.16 - ANLT. Weak sericitization Some fragments massive syenite. Up to 20 cm. weak pyrite chlor. 10 - 20% Sy Py.			
		71.93 - 73.46 - ANLT. Mod int. ser. with some pyrite along th shearing.			
		80.16 - 82.60 - ANLT. Mod int. ser- icite. Mod intense py 15 - 20% pyrite as fine disseminations and coarse blebs parallel to the for iation.			

Property <u>SULPHURETS</u> Sheet No. 3 of 5

Dept	h	
From	То	Description
		82.60 - 95.71 - ANLT. Extreme sericitiz- ation alteration. Mainly grey. Minor jade green @ 95.09 m 10 - 15% pyrite with several mass- ive patches - 20 cm numerous veins massive pyrite _1 cm. parallel foliation. Numerous fine QCVN - Sx, - 1 cm. No fragments visible.
		95.71 - 114.30 - ANLT. Moderate sericitiz- zation. Mod inten. pyritized as disseminat- ions and coarse patches - 5 cm15 - 20% frags. present but not distinct.
		114.30 - 121.62 - ANLT. Mod. int. ser. +20% pyrite. Weak chloritiz- ation. Sharp angular frag- ments of some massive Sx. Mod. sheared, weak shear vein in some places.
		121.62 - 129.24 - ANLT. Light grey-green, mod. si and ser., 10 - 15% pervasive py.
129.23	191.72	ANTF. Andesite Tuff. Medium grey, grey- green, weak - mod. Si; 15 - 20%. pervasive py, bands and clots of semi-massive pyrite about every 0.2 m.,; banding, clast orient- ation, shearing, qtz. veining at about 50 CA on average; minor clay zones, usually light grey-green (more intense ser.), faults generally mod. ser.; rock generally massive except where faulted.
		129.23 - 129.54 - ANTF. Weak sil., clayey, w/2.5 cm. qtz. vein at base. Fault.
		129.54 - 131.06 - ANTF. Mod. sil., mod. ser., one noticeable qtz. vein about 25 cm. wide w/ semi - massive pyrite

Property SULPHURETS

Sheet	No.	4	of	5
			_	

Hole No. _ <u>\$88-281</u>

Deb.	cn i i i i i i i i i i i i i i i i i i i	
From To		Description
		around it (but there are other masses present with no quartz vein).
		131.06 - 131.83 - ANTF. Weak - mod. sil., mod intense shearing, 3.5 cm. qtz. vein at base; a more mottled - marly loc to it.
		<pre>131.83 - 134.42 - ANTF. Mod. sil. and ser. with occ. shear of intense ser.; about 50% of core is blotchy (about 0.5 cm. size) with pyrite-rich frags.</pre>
		134.42 - 134.57 - Highly sheared, clayey fault.
		134.57 - 147.52 - ANTF. Mod. sil. and ser. in parts blotchy, but mos semi-mass. py. as large (+2.5 cm.) bands, occ. qtz. vn. (2.5 cm.) with intense ser.
		147.52 - 147.68 - ANTF. Weak - mod. sil., mod int. ser., highly sheared, no qtz. vn. with it.
		147.68 - 148.44 - QTVN. Qtz. veinlets con- tinue for 0.5, mod. sil. and ser.
		148.44 - 148.59 - ANTF. Highly sheared, mod. sil., mod int. se 3.5 cm. qtz. vn.
		148.59 - 149.35 - ANTF. Mod. sil. and ser. semi-massive py as clots and stringers, qtz. vein- lets and stringers @ 70° CA.

N. TRIBE & ASSOCIATES LTD. - 2611 SPRINGFIELD ROAD, KELOWNA, B.C. CANADA V1X 189 - TELEPHONE (804) 880-7661

.
.

<u>SULPHURETS</u> Sheet

heet	No.	5	of	5

Hole No. __________

Depth		
From	То	Description
		149.35 - 153.31 - ANTF. Dark grey volcano- clastic with clasts up to 7.6 cm. across; py dom- inantly but not exclusiv- ely in with clasts; grad- ational contact with lowe rock; mod. si, weak ser.
		153.31 - 171.91 - ANTF. Mod. si. and ser., med. grey; py about 15% a small blotches with clots (1 cm. across dominantly) occ. qtz. veins, usually with intense ser. and occ shear zone with intense ser. and no quartz veins.
		171.91 - 177.39 - ANTF. Dark grey volcano- clastic with clasts up to 10 cm. across, alt. layer of finer and coarser grained rock (sections at least 0.3 m. long), gen- erally pyrite associated with matrix and not clast
		177.39 - 181.05 - ANTF. Medium grey, wk. mod. ser., mod. sil. vol- cano-clastic with clast to 3 cm. wide (indistince due to alt.), py as small clots and stringers, no quartz veins, rose colore cast to portions of sect
		<pre>181.05 - 191.72 - ANTF. Dark grey-green; wk mod. sil, weak - mod. ser., clasts from lapill to blocks; py as small bands, stringers and clo occ. distinct qtz. veins and two or three quartz flooded zones no greater than 3 cm. wide.</pre>
191.72		END OF HOLE.

DIAMOND DRILL RECORD

PROPERTY SULPHURETS Sheet No. 1 of 2

Sample No.	From	То	Width	Au	Ag	Au-e.	
		F 70	E 70	0.000	<i>c</i> 0.05		
5951	0	5.79	5.79	0.006	<0.05		
5952	5.79	8.08	2.29	LU.005	<i>≠</i> 0.05		
5953	8.08	10.97	2.90				
5954	10.97	⊥3.4⊥ 14 co	2.44				Į
5955	13.41	14.03	1.22				
5950	14.03	T0.40	2.44	0.003	2 10		1
5957 E	17 00	17.90	3 05	0.012			
5950	21 03	24.08	3.05		0.46	Į	}
5059	21.05	27 13	3 05	20.005	~0.05	1	
5961	27 13	30.18	3.05	<0.005	<0.05	{	{
5962	30,18	33.22	3.05	<0.005	<0.05	ļ	ļ
5963	33.22	36.27	3.05	<0.005	-0.05	1	
5964	36.27	39.32	3.05	20.005	<0.05	1	
5965	39.32	42.38	3.05	<0.005	<0.05		
5966	42.38	45.42	3.05	-0.005	<0.05	ł	}
5967	45.42	48.46	3.05	0.005ء	-0.05	ŀ	
5968	48.46	51,51	3.05	<0.005	<0.05	ſ	
5969	51:51	54.56	3.05	<0.005	-0.05	1	
5970	54.56	54,61	3.05	∠0.005.	~0.05		
5971	57.61	60.66	3.05	<0.005	~0.05		ł
5972	60.66	63.70	3.05	-0.005	<0.05	ļ	1
5973	63.70	66.75	3.05	-0.005	-0.05	1	{
5974	66.75	69.80	3.05	∠0.005	-0.05	ł	1
5975	69.80	72.85	3.05	<0.005	<0.05		
5976	72.85	75.90	3.05	∠0.005	<0.05		
5834	V0	\$ID					
5835	(V0	ID	1	1	1		
5836	j vo	\$ ID]	ļ		•	1
5837	V0	þ ID	ł	1			
5 838	75.90	78.94	3.05	-0.005	< 0.05		
5 839	78.94	81.84	2.90	0.005	<0.05	ļ	
5 840	81.84	83.52	1.68	0.010	-0.05	1	1
5 841	83.52	84.73	1.22	0.014	<0.05	ļ	b
5842	84.73	86.87	2.13	0.030	<0.05		
5 843	86.87	88.54	1.68	×0.005	<0.05	1	
5844	88.54	91.74	3.20	0.015	<0.05		
5845	91.74	93.57	1.83	0.009	<0.05	1	1
5846	93.57	95.40	1.83	\$0.005	=0.05	Į	}
5847	95.40	97.23	1.83	-0.005	<0.05	1	
5848	97.23	100.28	3.05	0.008	-0.05		1
5849	100.28	103.33	3.05	0.005	~0.05		l l
5850	103.33	106.38	3.05		-0.05	1	1
5851	106.38	107.59	1.22	0.006)
5852	107.59	109.58	1.98	<0.005	=0.05	1	
5853	109.58	1112.47	2.90	-0.005	<0.05	1	1
5854	1112.47	1114.00	1.52	0.016	1 < 0.05		

N. TRIBE & ASSOCIATES LTD. - 2011 SPRINGFIELD ROAD, KELOWNA, B.C. CANADA VIX 189 - TELEPHONE (804) 800-7661

PROPERTY______ SULPHURETS______ Sheet No. 2 of 2

Sample No.	From	То	Width	Au	Ag	Au-e.	
5855 5856 5857 5858 5859 5860 5861 5862 5863 5866 5866 5866 5866 5866 5866 5871 5872 5873 5876 5877 5877 5877 5878 5881 5885 5885 5885	114.00 117.05 118.57 120.70 123.13 124.36 125.88 127.71 129.24 V(130.76 132.44 133.81 136.86 139.90 141.43 142.95 146.00 147.52 149.20 155.15 158.19 161.24 164.29 167.34 170.38 171.91 173.43 174.96 177.39 180.14 182.58 188.67	117.05 118.57 120.70 123.13 124.36 125.88 127.71 129.24 130.76 DT 132.44 133.81 136.86 139.90 141.43 142.95 146.00 147.52 149.20 155.15 158.19 161.24 164.29 167.34 170.38 171.91 173.43 174.96 177.39 180.14 182.58 185.62 188.67 191.72	3.05 1.52 2.13 2.44 1.22 1.52 1.52 1.52 1.52 3.05 1.52 3.05 1.52 3.05		$\begin{array}{c} \sqrt[4]{0.05}\\ \sqrt[4]{0.05}\\$		

	DIAMON	ND DRILL	RECORD	
PROPERTY	SULPHURETS		HOLE NO	<u>588-282</u>
Section_	Special		Az	155 ⁰ GN
Date	August 24,	1988	Elev	1525 m
Lat.	-2520 N	<u></u>	Depth	75.9 m
Dep.	3870 E	<u></u>	Logged by	Vergin
		DIP		
	Footage	Reading	Dip	
	0		-600	

r

.

.

.

.

Der	oth		
From	То	Description	
0	7.93	ANTF. Andesite Tuff. Light grey-green to medium grey-green; moderate sil.; mod. ser. grading into chlor; py about 15% as blebs with a dominant trend of about 45° to CA; no calc. present; Tr. chalco.	
		0.00 - 1.37 - ANTF. Lapilli tuff with occasional larger clasts; less than 2% py; clasts going to chlor. while matrix is dom. ser. Tr chalco.	
		<pre>1.37 - 5.79 - ANTF. Py, about 15% as blebs and stringers (chalco clasts going to chlor. matrix still mostly ser. bu chlor. picking up with dept)</pre>	
	Ì	5.79 - 5.94 - QTVN. 3 cm. wide qtz. vein	
		5.94 - 7.93 - ANTF. Chlor. alt. becomes dominant.	
7.93	11.13	Dior diorite dike. Dark green; fine grained, aphanitic mafic dyke; less than 0.5% py in- troduced by cross-cutting structures; some calc. alt., shows as white blebs; contact at top and bottom at about 45° CA, weak - mod. chlor. alt., mag. present.	

Property <u>SULPHURETS</u> S

Sheet	No.	2	of	4

Hole No. <u>\$88-282</u>

-	h				
From	То	Description			
11.13	13.41	ANTF. Andesite Tuff. Dark grey to light grey; moderate st. si; moderate ser. in matrix, mod. chlor. alt. of clasts; py about 20%; dominant trend still about 45° to CA.			
		11.13 - 11.58 - Dom. chlor. alt.			
		11.58 ~ 13.41 - Dom. ser. alt.			
13.41	14.63	Dior. Diorite dike. Dark grey, fine grain aphanitic mafic dyke with $5 - 10$ % py; mag. present; calc. alt. shows as white blebs do chlor. alt., contacts at top and bottom at about 45° to CA.			
14.63	75.90	ANLT. Andesite lapilli tuff. Light grey t dark grey; mod st. si, weak - mod. ser.; py 15 - 20% as blebs and stringers; very minor weak chlor. alt. of lapilli; occasion bull qtz. veins and bx zones and mafic dyke and fault/shear zones.			
		14.63 - 14.78 - QTVN. Quartz vein.			
		14.78 - 19.20 - ANLT. Mod wk. sil., mod. ser., 10 - 15% py.			
		19.20 - 19.51 - Dior. Aphanitic mafic dyke; chlor. alt., no mag netite, 0 to tr. py; con- tacts at 45 to CA.			
		19.51 - 20.12 - ANTF. Wk. sil., mod. ser 10% py overall, about 20% py at 19.51m. contact wit dyke; chalco (?).			
		20.12 - 26.21 - ANLT. Light grey, wk. si mod. ser; relic and lapil			

N. TRIBE & ASSOCIATES LTD. - 2611 SPRINGFIELD ROAD, KELOWNA, B.C. CANADA V1X 189 - TELEPHONE (804) 880-7861

in the second second

Property <u>SULPHURETS</u> Sheet No. <u>3</u> of <u>4</u>

Depth		
From To		Description
		<pre>26.21 - 32.31 - ANLT. Light grey-green; wk. sil., wk. ser., occ. wiping out original tex- ture; py - chalco (2) at 15% and trending 45° to CA occ. qtz calc. veins.</pre>
		32.31 - 32.61 - SXVN. Qtz. vein with py. and tet.
		32.61 - 40.54 - ANLT. Light grey-green; wk. sil., wk. ser., occ. wiping out original tex- ture; py - chalco (?) at 15% and trending 45° to CA occ. qtz calc. veins.
		40.54 - 46.94 - QTSW. Zone of quartz veir and inter. veining rock; py about 15%.
		40.54 QTVN, SWVN, 3 cm. wide qt: vein with tetrahedrite.
		42.21 - 42.37 - QTVN. Quartz vein with tet.
		42.98 - 43.89 - QTSW. Quartz flooded zone
		45.42 - 45.57 - QTVN. Quartz vein, no py nor tet.
		45.57 - 49.94 - QTSW. Qtz. flooded zone, some bx; py contained in rock frags. not quartz; no tet.
		46.94 - 47.55 - QTBX. Frac. then partial healed by quartz; mod. si py about 20%.
		47.55 - 49.99 - ANLT. Mod. sil., weak - mod. ser.
		49.99 - 50.60 - ANLT. Wk. sil., weak - m ser,

Property SULPHURETS

Sheet No. 4 of 4

Depth		
From	То	Description
		52.73 FLT. Rehealed frac. zone about 3 cm. thick; weak sil.
		53.04 - 56.39 - QTSW. Quartz flooded zor
		54.25 QTVN. 8 cm. wide quartz vein with tet.
		55.17 - 55.47 - FLT. Lightly frac. and gouge filled zone. Frace about 45° to CA; Oro tr. qtz.
		58.83 - 59.74 - QTBX. Frac. and quartz healed zone; fracs. @ 45 to CA; fracs. with zero quartz; healed zone (las 1.0 cm. with weak qtz.).
		70.41 QTSX. 3 cm. wide quartz vein with tet and sphal.
		75.90 END OF HOLE.
1		

DIAMOND DRILL RECORD

PROPERTY SULPHURETS Sheet No. 1 of 1

Sample No. 1	From To	Width	Au	Ag	Au-e.	
5808 0 5809 5 5810 8 5811 10 5812 13 5813 14 5813 14 5813 14 5813 14 5813 14 5813 14 5813 14 5813 14 5814 16 5815 17 5816 21 5817 24 5818 27 5820 33 5821 36 5822 39 5823 42 5824 45 5825 48 5826 51 5827 54 5830 63 5831 66 5832 69 5833 72	5.79 8.08 10.97 97 13.41 41 14.63 63 16.46 .46 17.98 98 21.03 .03 24.08 .08 27.13 .13 30.18 .18 33.22 .22 36.27 .27 39.32 .32 42.38 .38 45.42 .42 48.46 .46 51.51 .51 54.56 .56 57.61 .61 60.66 .66 63.70 .70 66.75 .75 69.80 .80 72.85 .85 75.90	5.79 2.29 2.90 2.44 1.22 2.44 1.52 3.05 3.05 3.05 3.05 3.05 3.05 3.05 3.05	-0.005 -0.005 -0.005 -0.005 -0.005 -0.008 0.011 0.016 0.008 0.016 0.005 0.005 -0.018 0.017 0.018 0.017 0.018 0.017 0.005 -0.005 -0.005 -0.005 -0.005 -0.005 -0.005 -0.005 -0.005 -0.005 -0.005 -0.005 -0.017 0.018	$\begin{array}{c} 10.05\\ 10$		

N. TRISE & ASSOCIATES LTD. - 2811 SPRINGFIELD ROAD, KELOWNA, B.C. CANADA VIX 189 - TELEPHONE (804) 800-7861

DIAMOND DRILL RECORDPROPERTYSULPHURETSHOLE NO.S88-283SectionSpecialAz. 145° GNDateAugust 27, 1988Elev.1780 m.Lat.2592 N.Depth100.3 m.Dep.4392 ELogged byVergin, M. Genn.DIPFootage Reading Dip0 -45°

Depth			
From	То	Description	
0	5.79	ANTF. Andesite Tuff. Light reddish-grey; st Si; qtz. veinlets at 0°CA with very mino chalcopyrite; occasional spots of malachite on fractures; quartz veinlets with chlorite in them; oxidized rock.	
5.79	36.42	ANTF. Andesite Tuff. Dark grey-green; wk - mod. sil, wk mod. chlor. alt., qtz calc. veinlets throughout at about 45° CA; minor amount of chalcopyrite as blebs and veinlets; malachite dominately on fractures chalco. tr - 0.5%; no pervasive pyrite; trace sphal.	
		19.6 QTVN. Quartz carbonate veinlet, chlor. alterat- ion; about 4 cm wide at about 50°CA.	
		31.70 - 36.42 - Wk sil. with quartz vein- ing; rock fracture; no more mineralization than above; at about 35.66 m. there is a noticeable lighting of color to light green chlorite alt.	
36.42	40.08	QTBX/QTVN. Quartz breccia and quartz vein. "Wall vein": quartz veins and quartz bx zones interspersed with weakly sil. wk chlor. alt.; lt. green alt. with int. sil. zones; chalcopyrite veinlets and blebs from	

N. TRIBE & ASSOCIATES LTD. - 2611 SPRINGFIELD ROAD, KELOWNA, B.C. CANADA V1X 189 - TELEPHONE (604) 800-7661

Property <u>SULPHURETS</u> Sheet No. 2 of 3

	•
TO	Description
	0.5 - 1.0% in QTBX and QTVN areas, tr - 0.5% chlor. alt. zones; no pervasive pyrite, no cu. alt.
	36.42 - 36.58 - QTVN. Qtz. vein.
	36.58 - 37.95 - Weak si, st. chlor. alt.
	37.95 - 40.08 - Qtz. bx, esp. broken at base.
68.88	ANTF. Andesite tuff. Dark grey-green; wk. sil; mod wk. chlorite alt., qtz calc. veinlets throughout (about 3/2.5 cm) gener- ally at 45 - 50° to CA; chalcopyrite tr.; generally weak chlor. alt. along edges of wide quartz veins (more than 2.5 cm) and within narrower quartz veins, no pervasive pyrite; less calcite in quartz-calcite veins with depth; trace sphalerite; pyrite more than chalcopyrite; no secondary Cu mineral- ization.
	64.62 - 67.67 - FLT. Fault. Zone of rubbly rock and thick quartz veins at about 50° CA; chlorite alteration within veins; no more or less mineralization than rest of rock.
75.59	ANBX. Andesite breccia. Dark green; weak - moderate sil.; strong chlorite alteration with some zones of medium chlorite alteration where fragments and clasts can still be seen 50% of the core is rubble; pyrite about 15% usually not in matrix but clustered around remnants of fragments; no carbonate; little or no sericite alteration. Feldspar porphy- ryclasts noted at 71.68 m.
100.28	ANTF. Andesite tuff. Light grey; some light grey-green (where there is chlor. alt weak - moderate sil; sericite alteration dominant; pyrite about 10 - 15% as blebs an minor stringers; fabric trends about 45° CA some quartz veins at 80 - 85° to CA.
	68.88 75.59 100.28

|--|

Sheet	No.	3	of	3

Hole No. _______

Dep	th		
From	То	Description	
		75.59 - 76.20 - ANTF. Chlor. still dom- inant but sericite alter- ation more visible; ser. dom. after 76.20 m.	
		82.60 - 83.82 - ANTF. Much finer grained or mafic dyke (?).	
, ,		85.95 - 88.39 - ANTF. Dom. chlor. alt. then back to dom. ser. alt	
	100.28	END OF HOLE.	
	1		

DIAMOND DRILL RECORD

PROPERTY

SULPHURETS

She

Sheet No. 1 of 1

Hole No. <u>588-283</u>

Sample To (meters No. Width Au Aq Au-e. From (meter 5.79 5.79 0.010 <0.05 5926 0 5.79 8.84 3.05 0.011 < 0.055927 5928 8.84 11.89 3.05 0.029 < 0.050.012 <0.05 5929 11.89 14.94 3.05 3.05 0.015 0.07 5930 14.94 17.98 0.029 < 0.0517.98 21.03 3.05 5931 <0.05 3.05 21.03 24.08 0.020 5932 27.13 3.05 0.015 <0.05 5933 24.08 0.014 <0.05 27.13 30.18 3.05 5934 33.22 0.039 30.18 3.05 0.20 5935 0.028 33.22 34.44 1.22 0.06 5936 5937 34.44 36.42 1.98 0.034 0.05 <0.05 36.42 37.95 1.52 0.006 5938 37.95 40.23 2.29 0.033 5939 0.12 40.23 42.37 2.13 0.014 0.08 5940 5941 42.37 45.42 3.05 0.024 0.16 5942 45.42 48.46 3.05 0.021 0.19 51.51 0.014 0.08 48.46 3.05 5943 54.56 3.05 0.009 <0.05 5944 51.51 57.61 3.05 0.044 0.09 5945 54.56 57.61 60.66 3.05 0.019 0.56 5946 0.010 <0.05 5947 60.66 62.48 1.83 5948 62.48 64.62 2.13 0.022 <0.05 <0.05 5949 64.62 67.67 3.05 0.006 1.22 0.010 0.10 5950 67.67 68.88 2.44 0.007 <0.05 71.32 5977 68.88 71.32 73.15 1.83 0.005 <0.05 5978 73.15 75.59 2.44 <0.005 -0.05 5979 75.59 77.72 2.13 0.009 <0.05 5980 2.14 -0.05 5981 77.72 79.86 **<0.**005 81.99 2.13 0.019 <0.05 79.86 5982 81.99 84.73 2.74 -0.005 0.08 59**83** 5984 <0.005 0.08 84.73 87.78 3.05 87.78 89.92 ~0.005 -0.05 5985 2.14 92.97 3.05 **∠0.005** <0.05 89.92 5**986** <0.05 1.22 ~0.005 5987 92.97 94.18 <0.05 97.23 3.05 0.005 5988 94.18 0.77 00.28 3.05 20.005 5989 97.23

	DIAMOND DRILL	RECORD
PROPERTY_	SULPHURETS	HOLE NO. <u>588-284</u>
Section	Special	Az. 246° GN
Date	August 29, 1988	Elev. 1775 m.
Lat	-2226 N	Depth <u>179.5 m.</u>
Dep	4432 E	Logged by <u>N.L.T.</u>
	DIP	
	Footage Reading	I Dip
	0	-45 [°]

Depth		pth			
	From	То	Description		
	0	2.13	Casing.		
	2.13	2.90	QCVN. Vein. White, med. grey, rust. Hard- ness: 3 - 5. Finely banded quartz carbonate Sx vein (Py). Banding 35 - 50°. Bands 1/2 cm. Contact along shear @ 70°.		
	2.90	8.84	QCVN. Weak vein. (QCZN). Grey-grey-green, grey maroon, white. Hardness: 3 - 7. Very fine grained - aphanitic. Foliation vary from indistinct to weakly foliated. 70 @ 4.57 m., 70 @ 8.23 m. 10 - 25% py in patches stringers and disseminated largest quartz vein 10 cm.		
-	8.84	24.08	ANTF. Andesite tuff. Pale grey, dull grey, maroon grey, white. Hardness: 3 - 4. Very fine grained aphanitic distinctly banded 60 @ 10.06 m., 70 @ 19.81 m., 70 @ 23.77 m. Weak veining developed 10.36 - 10.97 m., 14.94 - 15.39 m., 15.85 - 16.61 m. Intensely sericitized throughout Sx _10%.		
	24.08	73.15	ANTF. Andesite tuff. Dull grey-green. Dull grey, maroon, white. Very fine grained - aphanitic. 24.08 - 28.96 - ANTF. Finely banded. 70° @ 24.69 m., 70° @ 27.13 m. Mod int. sericitization, weak foliation. 70° @ 28.65		

Property SULPHURETS ____ Sheet No. 2 of 5

ų.

.

.

. .

,

.

4 ,

Dept	h	
From	То	Description
		40 [°] @ 31.39 m., 80 [°] @ 34.7
		41.76 - 42.37 - QTVN. Weak vein. Med coarse grained QC with patches of pyrite 25% py Foliation: 40° CA.
		42.37 - 49.68 - ANTF. Intensely sericit- ized, moderately - intense pyritized, occasional jade green lenses of sericite.
		49.68 - 57.97 - ANTF. Mod int. serici ized. ±5% pyrite.
		57.97 - 52.58 - ANTF (dior). Dark grey fragments. Phaneritic to weakly sericitized. Con- tacts sharp suggestion of chill margin may be a dik
		52.58 - 57.30 - ANTF. Mod int. serici ization. Banded or bedde some bands up to 50% pyrite. ±10% Py.
		57.30 - 59.44 - ANTF. Int. sericitizat- ion, moderately banded. -5% Py. Banded 60 - 70° CA.
		59.44 - 60.05 - ANTF. Int. ser. Mod. silicified. ±15% Py.
		60.05 - 73.15 - ANTF. Mod int. ser- icitization. Mod. banded -60° @ 64.62 m., 60° @ 68.58 m., 50° @ 71.63 m. Patches stringers and dis seminated Py. Opt. ±15%. Some darker bands may be chlorite coming in 1 - 2% OC stringers.

Property <u>SULPHURETS</u> Sheet No. <u>3</u> of <u>5</u>

.

.

.

Depth		
From	То	Description
73.15	9 4.18	ANTF. Andesite Tuff. Dark green, mod wk. sil., mod. ser.; Cal and Cal-qtz. vein and veinlets throughout running from $50 - 8$ to CA, also the trend of relic and clasts; occ. zone of ore mineralization (sp, ga) te and very minor chal. generally in steeper veins (25 - 35°) to CA and with less calcit and more qtz in the veins; py 10 - 15%, less than 5% of pyrite as disseminated and the rest dominantly in and around clasts; the more steeply dipping veins generally have light green (more intense ser. alt.) altere rock in and around them (faults?); pyrite where altered going to hematite.
		79.86 - 80.01 - QTBX. Qtz. (with minor calcite) bx zone, fragmer still mod. si and ser; te mineralization about 2%; zone at 30°CA.
		89.46 - 89.61 - QCVN, FLT. 12 cm. qtz (very minor calc) vein; with clay gouge.
		92.66 - 92.81 - QCVN, QCSX. 3.5 cm quar (very minor calcite) vein at 25 - 35° CA with sp, tet, gal, chal.
94.18	116.28	ANTF. Andesite Tuff. Grey-green. Wk - mo sil, mod. ser. (generally more intense with wk sil); about 50% of the number of calc. and qtzcalc. veins and yeinlets as above veinlets run from 30 - 90° CA, but the gen eral trend of the fabric of the rock is about 45 - 50° CA; shears and faults run a about 30° CA; pyrite overall is 5 - 10% wi most pyrite associated with relic and class (?), chlorite alteration with depth. 95.71 - 96.62 - ANTF. Wk. Sil. and ser. alt; highly fractured; quartz vein (about 2.5 c at base; no ore mineral-

Property______ Sheet No. 4 of 5

-

Depth		
From	То	Description
		104.85 - 105.00 - QCVN, QCSX. 3 cm. quartz vein (very minor calcite) with sp, gal tet., chal
		107.44 - 107.59 - ANTF, FLT. Zone of intens ser., mod. si, calqtz. vein at top; clayey gouge.
		107.90 - 116.28 - ANTF. Clots and blebs of pyrite increase in size.
		ANTF. Chlorite dominate over ser. alteration.
116.28	130.15	ANTF. Andesite tuff. Light grey-green; Int sil, increasing chlor. with depth; total pyrite 5 - 10%, upper part of section gen- eral trends at 90° to CA and lower down 45 - 50°, the lower section does not show con- sistant intense ser. but only spots of it; in the lower zone calc. and qtzcalc. veins and veinlets equal to the top of the hole.
		116.28 - 118.57 - Zone of most consistent high chlorite wk. quartz alteration, quartz and calcquartz veins up to 2.5 cm wide; yeinlets are generally 80% calc. and are 80 - 90° CA.
		118.57 - 130.15 - Fragments and veins 45 - 50° CA, nil sericite; pyrite up to 10% overall with some sections up to 20%.
130.15	179.53	ANLT. Andesite lapilli tuff. Dark grey- green with some occasional reddish cast from FeOx; well defined lapilli mod wk. sil. except with intense chlorite then moderate sil; alteration is chlorite; pyrite about l0% as stringers and blebs, stringers runn- ing at about 45° to CA; fractures and faults at 30 - 50° to CA; rock becomes a darker green with depth; minor calcite with quartz veins.

Property SULPHURETS Sheet No. 5 of 5

Hole No. <u>S88-284</u>

Depth			
From	То	Description	
		138.07	Fault.
		145.69	Fault.
		154.53	Fault.
		155.75	Fault with chloritic alteration.
		165.81	Fault, with quartz vei: at 5 - 10 CA.
		158.50	Fault with quartz vein
		179.53	END OF HOLE.
	1		
	1		
;			
	1		
	1		
	1	1	

DIAMOND DRILL RECORD

PROPERTY SULPHURETS Sheet No. 1 of 2

Hole No. _________

.

N. TRIBE & ASSOCIATES LTD. - 2011 SPRINGFIELD ROAD, KELOWNA, B.C. CANADA V1X 180 - TELEPHONE (004) 800-7051

DIAMOND DRILL RECORD

PROPERTY SULPHURETS Sheet No. 2 of 2

Hole No. _________

Sample No.	From	То	Width	Au	Ag	Au-e.	
5804 5805 5806 5807	219.0 224.0 230.0 234.0	224.0 230.0 234.0 239.0	5.0 5.0 4.0 5.0	0.005 0.005 0.014 0.005	0.05 0.05 0.14 0.05		0.0 0.0 0.0
5889 5890 5891 5892 5893 5894 5895 5896 5897 5897 5901 5901 5902 5903 5904 5903 5904 5905 5907 5908 5909 5910 5910 5911 5913 5916 5918 5919 5920 5921 5921 5921 5923 5924 5925	72.85 75.90 78.94 81.99 85.04 88.09 91.14 94.18 97.23 100.28 103.33 106.38 109.42 112.47 115.52 118.57 121.62 124.66 127.71 130.76 133.81 136.86 138.38 139.90 142.95 146.00 149.05 152.10 155.14 158.19 161.24 164.29 167.34 170.38 173.43 176.48 178.00	75.90 78.94 81.99 85.04 88.09 91.14 94.18 97.23 100.28 103.33 106.38 109.42 112.47 115.52 118.57 121.62 124.66 127.71 130.76 133.81 136.86 138.38 139.90 142.95 146.00 149.05 152.10 155.14 158.19 161.24 164.29 167.34 173.43 176.48 178.00 180.14	3.05 3.05 3.05 3.05 3.05 3.05 3.05 3.05	0.005 0.005 0.005 0.005 0.005 0.175 0.032 0.017 0.049 0.015 0.015 0.015 0.015 0.011 0.005 0.007 0.101 0.005 0.007 0.005 0	0.05 0.05		

APPENDIX II

Assay Certificates

NEWHAWK GOLD MINES LTD.

ł.

Certificate of Assay

TO-

5

S

ዓ

5

5

S

u

U

u

u

u

ù

u

U

u

И

u

U

6939

6940

×

.

Project No.

Dale 507 28/88 . . File No. Att F - 3.5.4-SAMPLE No. WT. A.T. Dora Au oz/ten Ag oz/ton Remarks Ŀ \mathbf{r} J. 6209 0.007 0.25 J 4 L 6212 0.005 0.30 ¥. ×. ж 6950 0.028 0.51 6951 (.005 1-80 6952 0.007 0-13 6953 0.006 <-05 × ¥ ŧ 6913 0.013 0-36 6914 0.012 0.90 6915 0.006 2.05 6916 <-05 6917 0.005 <-0\$ 6918 (.005 6.05 6719. 2.005 6.05 6920 (.005 <-osi 6921 0.020 2.17 V - I $\mathbf{\mathbf{J}}$ 0.026 138 0-66

0.020

0.015

×

CERTIFIED BY:

0.87

0.60

×

SEP 21 '88 07:01

Ρ.3

۶,

NEWHAWK GOLD MINES LTD.

ł

Certificate of Assay

TO-----

Project No. ______ Date ______Sept 191944 File No. _______N+16- 312

SAMPLE No.	WTAT.	Dore	Au ozdon	An and an	
5 5815					Hemarks
			0.016	<u> </u>	······································
5 5819		<u>}</u>		•	······
5 5819			0.016	2.05	
	·		0.020	0.08	
5 5000	·····		¥	V	
5 5023			0.018	0.55	
5 5824			0.017	0.30	
3 3045			0.0.8	2.05	
			+ +	L	
5 5828		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2-005	0.11	
•			•	L L	
5 5831		·	2.005	0.09	
5 5833			0-015	2.05	
*			×	*	
<u>5 59 18</u>			6-005	6.05	
<u>↓</u> .			J J	4	
5 5932			0.020	4.05	
•			1	J J	· · · · · · · · · · · · · · · · · · ·
5 5736			0.028	0.06	
↓			4	Ţ	
5 5939			0.033	0.12	
5 5941			0.024	0.16	
S 5942			0.021	0.19	
			4	J.	
5 5945			0.044	0.09	
5 5946			0.019	0.56	
			<u> </u>		······
			<u>↓ </u>		
			<u> </u>		
		·	· · · · · · · · · · · · · · · · · · ·		

CERTIFIED BY:

Mamp CC

SEP 20 '88 07:00

· ·

. NEWHAWK GOLD MINES LTD.

- 5

Certificate of Assay

TO ----

4

F'. ⊄

And a second						
SAMPLE No.	WT.A.T.	Dore	Au oz/ton	Ag ozdon		
SELECT GRAD DDH-8 1100/-45			0 264		Homarks	
k			<u> </u>	- 0.07		_
U 6821				*		_
*	· · · · · · · · · · · · · · · · · · ·		- 0.101	3.17.		-
5 6717			A. 07 (<u>+</u>		_
X	— <u> </u>		10.051	0.13		_
U PEGE				*	·	
U 0000			0.027	3.42		_
1			0.030	3.03		
11 897<			+	4		_
U DOTS			0.025	3-34	-	-
			×	×		_
3 3822	····		0.015	0-24		
		<u> </u>	+			-:
5 5826			0.007	0.43		-
<u> </u>			2.005	0.26		-
						!
5 5829			6.005	1.05		-
			V			-1
<u> </u>			6.005	2.05	· · · · · · · · · · · · · · · · · · ·	-
*			*	*		ij
5 5995			0.020	0.18		Ļ
\			1	- J		
5 6000			0.057	0.20		-i
5 6001			0.027	0.06		•
5 6002			0.042	0.2/		•
5 6003			0.032	0.02		•
						-
S 6005		<u> </u>	2.005	1.05		
5 6006			6.005	0.08		•
5 6008			0.016	0.10		
	the second se					

CERTIFIED

4 Can

SEP 13 '88 07:00

. .

10 -

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Project No. ---SEPT IF/82 . Date -----

File No. NHG 307

	T		Ad 07/00	Romarks
WT.A.T.	Dore	AU OZ/ION	1 000	
		0.000	2.03	
		2.005	<u> </u>	
		- 2.005		······································
		¥		
		2.005		· · · · · · · · · · · · · · · · · · ·
		0.000		
		1.005	4.05	
		2.005	2.05	<u>. </u>
		(.005	<u> </u>	
		2.005	2.03	a An an
			× 1	
		0:010	2.05	
		0.011	2.05	
		0.029	6.05	
		0.012	2.05	
		0-015	0.07	
		0.029	2.05	
		+	L	· · · · · · · · · · · · · · · · · · ·
		0-012	2.19	
╉╼╼╼╺┼╼╾╼┷		*	*	
		0.020	2.25	
╉╍╼╍┼╌┈┈		0.025	3.69	
╉╍╍┼╼╍┈		4	¥	
. 		0.108	5.03	
' 		0.006	0.51	
• <u></u>		0.113	3.78	
		0.095	17-18	
╉╍╍┼╾╌╾		0.40	31-36	
			1	
<u></u>		0.344	14.38	
	WT. A.T.	WT. A.T. Dore	WT.A.T. Dore Au ozton Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system Image:	WT.AT. Dore Au ozton Ag ozton i

CERTIFIED BY: Manpbel

SEP 18 '88 06:56

NEWHAWK GOLD MINES LTD.

Certificate of Assay

٠,

TO ----

· · ·

File No. Attor X

		Dore	Au oz/ton				
SAMPLE NO.	WT. A.T.		6.005	2.05			
5 5774			6.005	2.05			
5 5775			*	*			
*			0.023	2.05			
\$ 6925			+	↓			` <u></u> ;
L			0.043	4.24			
5 6936			*	*			
×			6.005	2.05			
5 5976			*	*			
*			6.005	6.05			
5 5858			6.005	6-05	-		
5 5859			6.005	6.05	<u> </u>		
\$ 5860			6.00	5 4.0	5		
5 5861	1.		6.005	2.0	5		
5 5867	1		2.005	2-0	5		
5 586	3			ł			+ •-
1			6.00	5 6.0	5	·····	6 - 1 6 año 4 1
5 586	6		1.00	5 6.0	5	·	
5 586	7		0.00	6 4.0	5		
5 586	8		1.005	Le	5		
5 586	9		0.00	6 2.	05		
5 587			0.01	0 4.	05		, <u></u> ۱
5 58	1						
			1.00	5 0.	20		
5 58	74			05 1.	36		
5 58	75			05 6	.05		
5 58	76						
1				205 4	.05		
5 58	81						·
					·		
							<u>. </u>
		ļ				· · · · ·	

CERTIFIED BY:

n angle

SEP 16 '88 07:45

-

NEWHAWK GOLD MINES LTD.

Certificate of Assay

TO --

Project No. -SEPT 15/29 . Date ---

File No. NHG- 303

				the second s	
SAMPLE No.	WT, A.Y.	Dore	Au oz/ton	Ag oz/ton	Remarks
5 5877			0.007	2.05	
5 5878			2-005	6.05	
5 5879			2.005	2.05	
5 5890			4.005	6.02	·
<u> </u>			V	4	
5 5883			2.005	6.05	······································
5 5884			2.005	2.05	· · · · · · · · · · · · · · · · · · ·
<u> </u>			*	*	
5 6715			0.030	0.06	
S 6746			0.062	2.05	
<u> </u>			*	*	· · · · · · · · · · · · · · · · · · ·
< 6999			(.005	2.05	
3 00:0	<u> </u>		4	Ţ	
5 6942			٢.005	2.05	
C (2944			0.032	0.74	
5 6945			6.005	6.05	
<u> </u>			<.005	0.73	
5 6942			0.009	0.26	
5 6147			0.011	0.33	
5 6170					
		-			
	- 	~ 		1	
			<u></u>		
·		<u></u>			
	╺╉╍╼╌┤╌═╍═			+	
· · · · · · · · · · · · · · · · · · ·		<u>. </u>			
				1	

P.2

SEP 15 '68 12:55

NEWHAWK GOLD MINES LTD.

Certificate of Assay

то —

Project No. ______ Date _____ SEPT 13 / 8% _____ File No. _____ EHG = 30 ;

F.4

WT.A.T. SAMPLE No. Dore Au oz/lon Ag loz/ton Remarks 5 5769 6.005 4-95 5770 0.006 4.05 : 5 5 5774 4.05 6.005 ----2.05 \$ 5773 0.017 1 L 1 5 5776 6.005 L.05 2.005 5 5777 2.05 <-05 0.008 S 5778 × × .⊀⊜ 2.005 6-05 \$ 2834 Ĵ. 40 L 6.002 6.05 5843 S Ĵ. 1 Ł 6.005 S 6.05 5847 5848 S 0.000 2.05 2.05 S 5849 0.005 2,05 S 5850 2.005 S 2851 0.000 6.05 2.005 S 6.05 5852 - 5853 S 2.005 2-05 5 5854 0.016 2.05 S 5855 2.005 6-05 S 5856 **L-**005 6-05 S 5857 6.05 0.005 × ≭. ж. 0444 5 6700 1-116 X 4 ¥ . 5951 Ŝ 0.000 6.05 \$ T J. 5975 S. 2.005 6.05

CERTIFIED BY:

Mandoo

SEP 13 00 10-00

NEWHAWK GOLD MINES LTD.

Certificate of Assay

i

Date SEDT 13 (24)

TO --· '._

File No. NHG - 302

					Romarks
SAMPLE No.	WT. A.T.	Dore	Au oz/ton	Ag oznon	
*			*		
C 1422			0.013	0.08	
5 6924			0.010	2.05	
5 6127					
6.926			0.019	2.05	
5 0122			0.028	2.05	
5 6127			0.010	2-05	،
5 6120		-	<u>ا</u>		
	<u></u>		0.007	0.20	
5 6131			0.015	4.05	
5 6132			0-036	6.44	
5 6933			0.017	0.09	
5 6934			0.013	2.05	
5 6135				-	
		<u>i</u>	0.013	4.05	
5 6937			0.027	1.87	
5 6938		÷	0.010	0-13	
5 6939		· · · · · · · · · · · · · · · · · · ·	0.024	6.05	
5 6940			0.027	1 2.05	
5 6941			0.126	0.69	
5 6942		<u>+</u>		K	
*					
		<u></u>			
······································					
		1			
		·			····
<u></u>					

CERTIFIED BY:

Mample

SER 14 '88 07:37

• •

. NEWHAWK GOLD MINES LTD.

1

Certificate of Assay

i

TO -

Project No. _____ Date _____ (2./5%

File No. UHG - 397

	┍━━━╾				
SAMPLE No.	WT A	T. Dore	Au oz/ton	Ag oz/ton	Remarks
U 8817			0.045	1.06	
J.			1	ł	
u 8825			0.133	8.04	
*			*	*	
\$ 5768			0.009	2.05	
+			*	L _	
5 5772			0.011	2-05	-
			4	L	
5 5779			2.005	6-05	
J.			1	J.	
S 5783			0.022	2.05	· · · · · · · · · · · · · · · · · · ·
4			4	ł	
5 5786			0.034	2.05	
*			*	×	
5 5840			0.010	2.05	
5 5841			0.014	2-05	
S 5842			0.030	6.05	
5 5844			0.015	2.05	
5 5845			0.009	2.05	· · · · · · · · · · · · · · · · · · ·
*			*	*	└─── ─────── ──────────────────────────
5 5962			4.005	2.05	
5 5153			2.005	<-05	
5 5954			0.008	<u>۲.05</u>	
5 5955			<.005	2.05	· · · · · · · · · · · · · · · · · · ·
s 5956			6.005	2.05	
4			L	L L	+ <u></u> ,,,,,,, _
5 5961			2.005	6.05	
4			L	L	
5 5964			2.005	2.05	······································
5 5965			6.005	4.05	

CERTIFIED BY:

Mamo

Р.*З*

SEP 14 '88 07:37

1.

. NEWHAWK GOLD MINES LTD.

2 ·

Certificate of Assay

TO ---

Project No. _____

File No. 10HE- 300

-- از

SAMPLE No.	WT.AT.	Dore	Au oznon	Ag oz/ton	Remarks
5 5966			(6.05	
3 5967			2.005	2.05	· · · · · · · · · · · · · · · · · · ·
S 5968			2.005	2.05	· · · · · · · · · · · · · · · · · · ·
5 5969			2.005	2-05	······································
5 5970			2.005	2.05	
s 5971			2.005	2.05	· · · · · · · · · · · · · · · · · · ·
5 5972			2.005	6-05	· · · · · · · · · · · · · · · · · · ·
5 5973			1.005	2-05	······································
S 5974			2.005	2.05	· · · · · · · · · · · · · · · · · · ·
*			×	*	
5 6929			0.018	2.05	
5 6930			0.015	0-12	
					· ····································
					······································
					· · · · · · · · · · · · · · · · · · ·
				······································	
		· · · · · · · · · · · · · · · · · · ·			
			╆────╋		
			·		
·					· · · · · · · · · · · · · · · · · · ·
			┤───┼		
			CERTIFIED BY:	M(angle.
	}			.'	•

Certificate of Assay

TO.

· _ .

Project No. Date ______ 500 11/22

NHG- 292 File No.

SAMPLE No.	WT.A.T.	Dore	Au oz/ton	Ag oz/ton	Remarks
4 8829			0.027	1.93	
u 8830			0.051	0.32	
U 8831			0.047	0.55	
U 8832			0.010	3.71	
u 9833			0-026	2.99	······
u 8834_			0.022	3,79	
U 8835			0.006	0.20	
4 8856			0.015	2.05	
X			*	*	
5 5780			0.006	(.05	
5 5781			0.014	2.05	
5 5782			0.013	6-05	
			-	-	
\$ 5784			0.008	2.05	
5 5785			2.005	2.05	······································
5 5787			0-014	6.05	
5 5788			0.006	6.05	
5 5789			0.006	2.05	
5 5790			6.005	6.05	
1	<u> </u>		+	¥	
5 5838			2.005	2.05	
			1	ł	
5 5846			2.005	2.05	
*			*	¥	
\$ 5958			0.009	6.05	
5 5959			6.005	0.46	
5 5960			6-005	6.05	
5 5962			6.005	6.05	
4 5962			1 6.005	2.05	~

· ...

÷.

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Project No. -SEPT 1 34 . Dale ----

TO -

DHG - 298 Fila No.___

			Au 07/00	Ag oz/ton	Remarks
SAMPLE No.	WT.A.T.	Dore	A0 0200	0.69	•• •• ·· · ·
14 6769			0.108	10.42	
U 6770			0.223	0.34	
U 6771			0-020	- V	
4			0.009	0.06	
u 6786			0.001	*	
*				1.05	•
5 6912			0.000		
				0.08	
5 6914			0-07+		
				1	
C 6916			0.030	4	
S GIII			*		
Guilt			0.020	0.35	
<u>u</u> 0747			0.033	0-1+	
4 DT45			•		
			0.067	0.6	2
<u>u 8760</u>			+	+	
V	· · · · · · · · · · · · · · · · · · ·		0.02	5 0.20	2
U 876			+	+	
•			0.00	2 0.2	6
u 676	7		1.00	5 4.0	5
u 876	8				
4			0.06	0 3.6	5
U 87	ВІ		0.05	51 2.6	63
4 878	2	·			
V			0.0	18 6-1	05
4 880	2			+	
+				5 0.	27
U 880	8				
Ų				87 6.	37
u 88	25			1) -7.	63
4 88	26				ALC (D
			ACATICIE/	NRY.	Mana

CERTIFIED BY:

í

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Newhawk TO -

Project No. S-pt 11/95 . Date ---295 File No._ G

SAMPLE No.	WT. A.T.	Dore	Au oz/ton	Ag oz/ton	Remarks
5 5791		{	0006	4.05	
1 *			X	×	
V 6913			0.129	0.66	······································
6915			0.018	605	
			-		
6917			0.013	0.40	ı
6918			0.040	0.10	
6919			0.015	0.15	
6920			6.005	6.05	
¥			×	*	· · · · · · · · · · · · · · · · · · ·
5 7013		•	0.005	0.09	
¥			*	*	
U 8761			0.037	0.74	
		1	J	+	
8783			0.007	4.05	
		,		-	
878.5			0.036	0.05	
8786			0.02.5	0.19	
8787		1	0.034	1.18	
\$788			0.022	0.70	
8789			0.007	0.32	
\$790			4.005	6.05	
9791			0.069	2.26	
9797			0.055	2.63	
\$793			0.010	4.05	
4.794			0.014	0.33	
879.5			0.017	0,-1	•
9796			0.045	1.95	
\$797		+	0.025	1.2.2	
11. 8798	-		0.024	1.56	

lotin bragt

į

.

NEWHAWK GOLD MINES LTD.

Certificate of Assay

TO -

Project No. ... Date Ser 9 182

File No. NHG 283

SAMPLE No.	WT. A.T.	Dore	Au oz/ton	Ag oz/ton	Remarks
\$ 5767			0.006	0.39	
+			+	J	······································
5 5795			0.010	2-05	······
+			4 -	Ţ	
5 5818			4.005	6-05	
4		İ	+	ł	
5 5890			2.005	6.05	
+		i	1	\downarrow	
\$ 5897			0-049	6.05	
5 5898		e	0.031	2.05	
S \$899			0.015	4.05	· · · · · · · · · · · · · · · · · · ·
5 5900			4.005	6.05	
5 5901	•		0.015	6.05	
¥			+	4	
5 5906	•		0.101	0.41	
+			4	Į.	
5 5909			0.009	2.05	
J J			J	4	
5 5915			6.005	6.05	· · · · · · · · · · · · · · · · · · ·
5 5916			6.005	4.05	
			•		
5 5920			6.005	0.07	
. * ·			-*	-*	· · · · · · · · · · · · · · · · · · ·
U 6776			0.025	3.01	
4 6777			0.017	1-42	
4 6778			0.040	3.34	
U 6779			-2. 332	~ 714.48	
U 6780			0.049	7.65	
U 6781			-0.616	38.40	
4 6782			0-154	2-41	·····
				↓	· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·	CERTIFIED BY:	Ma	ndo

P.2

Certificate of Assay

TO ---

Project No. ______ Date ______ Sept 9/38

. Date -----File No. NitlG - 294

SAMPLE No.	WT.A.T.	Dora	Au oz/ton	Ag oz/ton	Remarks
4 6785			0.006	[-1]	
					· · · · · · · · · · · · · · · · · · ·
И 6787			1.075	44.90	
*			* -	*	
5 6901			6.005	6.05	
5 6902			0.055	0.68	
·				~~~	· · · · · · · · · · · · · · · · · · ·
5 6904			0.010	6.05	
↓			+	L	· · · · · · · · · · · · · · · · · · ·
5 6911.		1	0-033	0.38	
+			4	4	
5 6921			0.027	3.46	
S 6922	•		0.051	22.31.	
↓			*	↓	······································
5 7009	1	······	2.005	2-05	
5 7010			6-005	0-11	
5 7011			0.006	0.27	······································
5 7012	_		2.005	0-12	
~					•
5 7014			0.00	6.05	
5 7015			4.005	0.11	
×		·····	*	×	
4 7820			0.043	2.34	
*			↓ ↓	J I	
U 8747		-	0.031	0.29	
U 8748			0.031	0-33	
4			+		
U 8773			0.030	0.20	•
4			4	1	
U 8784	·		0-023	0.28	

Mango

Р.З

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Newhank то

Project No. ... Date Sept 9/96 File No. ALHG 291

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	SAMPLE No.	WT. AT.	Dore	Au oz/ton	Ag ez/ton	Remarks
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	5 5766			0.005	0.09	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			······································		Ŀ	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	V 5793		· · · · · · · · · · · · · · · · · · ·	0.014	4.05	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>ل</u>		·····	11-	<u> </u>	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5797			0.016	4.05	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5798			0.022	0.07	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5799			0.02.6	0.05	······································
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5800			0.012	1.05	
5802 4.005 4.05 5803 4.005 4.05 5804 4.005 4.05 5805 4.005 4.05 5806 0.014 0.14 5807 4.005 4.05 4.005 4.05 4.05 4.005 4.05 4.05 4.005 4.05 4.05 4.005 4.05 4.05 4.005 4.05 4.05 4.005 4.05 4.05 5897 4.005 4.05 5891 0.005 4.05 5891 0.005 4.05 5891 0.005 4.05 5894 0.175 0.45 5894 0.175 0.45 5894 0.017 4.05 5902 0.011 0.17 5905 0.005 0.06 5907 0.007 4.05	5801			4.005	4.05	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5802			1.005	4.05	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5803		·····	1.005	6.05	· ····································
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5804			4.005	5.05	······································
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5805			6.005	4.05	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5806	······		0.014	0.14	· · · · · · · · · · · · · · · · · · ·
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	5807	۰		L 005	6.05	······································
5889 4.005 4.05^{-} 5891 0.008 4.05 5892 0.005 4.05 5892 0.005^{-} 4.05 5892 0.005^{-} 4.05 5893 0.005^{-} 4.05 58944 0.175^{-} 0.45^{-} 5895^{-} 0.005^{-} 4.05^{-} 5895^{-} 0.017^{-} 2.05^{-} 5896^{-} 0.017^{-} 4.05^{-} 5902 0.011^{-} 0.17^{-} 5902 0.011^{-} 0.17^{-} 5905^{-} 0.005^{-} 0.06^{-} 5905^{-} 0.007^{-} 4.05^{-} 5907^{-} 0.016^{-} 0.11^{-}	Ŀ			L L	<u> </u>	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5889		······	6.005	4.05	······································
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	~			-		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5891		······································	0.003	L.05	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5892			0.005	4.05	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5893			0.005	L.05	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5894			0,175	1.45	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5895			0.032	0.17	· ····································
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5896			0.017	2.05	······································
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1			l l	1	······································
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5902		<u></u>	0.011	0.17	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5403			0.005	0.06	······································
5905 0.007 (.05 5907 0.016 0.11	5904			DiDID	L.05	a
<u>5 5907</u> 0.016 0.11	5905			0.007	6.05	
5 5907 0.016 0.11				-	-	·
	5 5907			0.016	0.11	······································

CERTIFIED 8Y:

Uni ligt

P.2
Certificate of Assay

Vewhowk TO -

.

Project No. _____ Date Sept. 9,49 File No. ______

SAMPLE No.	WT. A.T.	Dore	Au ozňon	Ag oz/ton	Remarks
5 5908			4.005	4.05	
-			-	-	
V 5910	-		0.006	4.05	
5911			0.005	4.05	
5912			4.005	4.05	
5913			0.006	4.05	
5914			0.009	0.15	
V				5	
5917			4.005	4.05	, , , , , , , , , , , , , , , , , , ,
-		· · · · · · ·	~	-	
5919			4.005	4.05	· · · · · · · · · · · · · · · · · · ·
		-		-	
5921			0.006	L.05	
¥			*	*	
6903			0.044	0.22	
<u>V</u>		·			
6905		· · · · · ·	0.074	0.36	······································
6906			0.010	4.05	
6907			0.030	0.42	
6408		<u> </u>	0.009	6.05	<u>αταφιατό το πρ</u> η
6909		-	0.007	4.05	
6910			0.010	0.7.9	
			¥	X	· · · · · · · · · · · · · · · · · · ·
7001			0.005	0.17	
7002			0.013	0.32	· · · · · · · · · · · · · · · · · · ·
7003		1	0.075	<i>A</i> . 11	
7004		1	0.010	0.06	
7005			0.009	0.17.	
2006	1		1.005	1.05	
7007			0.009	0.19	
5 7008			0.012	$\frac{1}{0}$	

CERTIFIED In a

1 dulant

Setting Shines

Certificate of Assay

Vershowk то-

Project No. . Date Sept 6/98 File No. NHG 294

∠.۲

WT.AT.	Dore	Au oz/ton	Ag az/lon	Remarks
		4.005	2.05	
		0.007	0.18	
		0.010	0.41	
		0.006	0.20	· · · · · · · · · · · · · · · · · · ·
		4.005	1.05	
		*	<u> </u>	
		4.00.5	4.05_	·
		4.005	1.05	
		0.009	4.05	·
		1.005	4.05	· · · · · · · · · · · · · · · · · · ·
		*	<u>*</u>	· · · · · · · · · · · · · · · · · · ·
		0.309	41.77	
		0.026	14.75	
		0.007	105	
		4.814	3.52	
	,	0.010	6.05	
-		0.015	0.73	
		0.011	0.10	
		0.015	0.25	
		0.014	0.05	
		0.020	0.63	
		0.011	4.05	
		0.005	4.05	
+		0.022	0.41	
		0.010	0.35	
		0.075	0.15	
		0.021	0.75	
		0.024	2.36	•
_ <u>_</u>		0.006	4.05	
	·	0.009	2.94	
		0.00	4.05	
	WT. AY.	WT. A.Y. Dore	WT.AT. Dore Au oznan 2.005 0.007 0.010 0.010 0.010 0.006 2.005 X 2.005 X 2.005 X 2.005 X 2.005 X 2.005 X 2.005 0.007 4.905 0.007 4.814 0.000 0.015 0.015 0.015 0.015 0.014 0.015 0.014 0.020 0.010 0.011 0.005 0.021 0.010 0.010 0.010 0.010 0.022 0.010 0.024 0.024	WT.AT. Dore Au azton Ag azton 4.005 4.05 4.05 0.007 0.13 0.010 0.41 0.006 0.20 4.005 4.05 4.005 4.05 4.005 4.05 4.005 4.05 4.005 4.05 4.005 4.05 4.005 4.05 4.005 4.05 4.005 4.05 4.005 4.05 4.005 4.05 4.005 4.05 4.05 4.05 4.005 4.05 0.005 4.05 0.005 4.05 0.000 4.05 0.0010 4.05 0.010 4.05 0.010 4.05 0.014 0.05 0.014 0.05 0.020 0.63 0.010 0.35

Mi laft

Certificate of Assay

Newbank

Project No. -5-ept 6/3 Dale ---File No. UHC Z

			Au 02000	Ag oz/ton	Remarks
ALARI E NO.	WT.A.T.	Dare	AU 021011	341	
1/QLL			0.019	104.73	
6611			0.100	53.65	
6615			0.190	24.01	
6679			0.189	1117	
6691			0.024	7543	
6690			0.038	- 600TV	
6619					
					+
	1.				
					and the second s

CERTIFIED BY: _____

. 1

Newhank

NEWHAWK GOLD MINES LTD.

Certificate of Assay

TO -

Project No. Sept. 3/33 . Date File No. UNG 2. 2

		1 0	Au 07800	Ag 07/00	Remark#
SAMPLE No.	WT.A.T.	Dolo	0.020	078	
5 5758			0.024	0.20	
57.59			0.015	1 25	
V 5760			12.005	<u></u>	
<u> </u>			- x	044	
6651			0.021	0.46	
6652			0.001	370	
6653			0.174	077	······································
6654			0.010	100	
6655			4.005	177	
6656			0.020	1.66	
6657			0.021	0.00	
6658			0.051	2.36	<u></u>
6659			0.011	0.18	
6660			0.024	0.99	
6661			0.006	0.36	
6667			0.010	0.43	
1413			0.020	0.49	
6661			0.012	0.34	
1145			4.005	0.14	· · · · · · · · · · · · · · · · · · ·
6601			0.016	0.09	
6660	-		0.026	0.45	
6661			6.005	1.05	
6660			0.024	0.45	
6667			0.015	0.29	
6610			0019	0.35	
6671			0.070	0.34	
6672			0.000	0.74	
6673			- 0.014 		•
*			X	07/-	
6783			0.035	- 0.00	
-					
51.785			0.019	0.000	

CERTIFIED BY: Molin Cruft

тΟ·

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Newhowk

Project No. Date <u>Sept. 2/83</u> File No. NHG 285

۲. ۲

SAMPLE NO.	WT.AT.	Dore	Au oz/ton	Ag oz/lon	Remarks
6 6721			0.011	0.12	т
5 5101			0.016	4.05	
			Ĺ	ł	
5725			4.005	4.05	· · · · · · · · · · · · · · · · · · ·
572.6			0.165	0.26	· · · · · · · · · · · · · · · · · · ·
			Ŀ	Ŀ	
5720			0.005	4.05	
			<u>ل</u>	-)	
5738			0.096	2.02	
			Ŀ	<u>ັ</u>	
	···		4.005	4.05	i
5/4/			· ·		
2751			0.005	0.13	
5751					
F7 C2			0.005	1.05	
5135			-	-	
e mer			0.015	4.05	
5 5 53			¥-	×	
T. 1701			0.311	14.46	
U 6151			0.022	1.91	
6154			0.937	77.85	
V 6753			0.031	12.19	
6754		<u></u>	0.040	0.45	
6755			0.035	0.26	
6756			0.077	2.97	
6757			0.010	6.70	
6758				0.50	
6759				10.47	
6760			0.020	+2.05	
6761			0.014	0.16	
6762			0.034	1201	
11. 6763			Unch	16.76	

Jolin brugt

Certificate of Assay

Project No. Date 30 Aug / 3% NHG File No.

. . .

Newhowk

τO

SAMPLE NO.

.

WT. A.T.

Dare

Remarks Ag oz/ton Au oz/ton 0.32 0.006 0.18 0.010

	0.000			
D 003028	0.010	0.18		
003029	0.008	0.17		
V 003030	0.036	3.94		
D D03031	*	*		
*	1.005	4.05		
5 //42		-		
	0.014	1.02		
4644	0.011	1.58		
6645	0.01	0.99		
	0.009	0.26		
6646	0.010	+ +		
5 60TI	- X	0.44		
X	0.044	0.01	1	
U 6126	0.026	0.70		
6121	0.033	10.55	+	
0 6728	5			
3	0.079	0.10		
673				
1	0.040	0.43	_	
6736	-	-		
	0.227	2.63		
11 6738	X	T¥-		
1 the second sec	0.020	5 1.41		
\$ (78)	0.02	1.13		
5 (7 8 7		Ŧ		
SEISE		2 0.37		
X	0.02			
1 8616		193		•
2/20	0.40	1 240		
0 8680	0.42	5 5.00		
8681	0.03	4 0.33		
8694	0.04	0 0.41		
U 8682		0	1 1	"t

CERTIFIED BY: _____

Certificate of Assay

Project No. -Data 23 Aug /64 _____ بیس میں

r. -

Nachark

TQ -

.

10 File No.-

	WT.A.T.	Dore	Au oz/ton	Ag oznon	Remarks
SAMPLE NO.			6.005	4.05	
5 5/11			0.010	4.05	
1 3120			↓⁄	<u>ل</u>	
C773			0.008	4.05	
514			0.005	4.05	
<u> </u>			5	<u> </u>	
- 12 -7			0.009	4.05	
5161			0.014	1.05	
5128		+	0.013	1.05	
5727			-		
			0.017	4.05	
5131			0.025	1.05	
5/36			0.013	6.05	
5733			0.044	0.05	
57.34			0.049	0.05	
5735			0.017	4.05	
5736			0.061	0.12	
573				-	
			0.062	0.40	
5739			0.021	0.05	
5740	<u></u>		0.021	4.05	
5741			0.006	0.24	
5742			10.004	4.05	
5743			0014	0.13	
.5744			1 505	1.05	
5745				0.13	
5746					
-			1 006	- 1.05	•
5748			- 6.000	1.05	
5749			1 ~~~	- L.05	
5 5750					
					20 0 1
				, L	din luft

CERTIFIED BY:

TO

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Newhouk

Project	NO 9 (2)	A		2.5	
Date —	27	<u></u>			
File No.	\mathcal{N}	<u>-16</u>	ź		

		Dore	Au oz/ton	Ag oz/ton	Remarks
SAMPLE No.	WT. A.T.		1.005	4.05	
5 5752					
-			6 005	4.05	
5754		+	1.000		
			0.012	6.05	
5756			0.074	0.05	
5757			- U.U.L.T	*	
*			0.116	0.31	
6704			0.110	0.07	
6705			0.010	1.05	
6706			0.005	0.78	
6707			0.011	0.14	
6708		· · ·	0.003	010	
6709			0.001	0.40	
(710)			0.015	10.00	
				0.72	
1713			0.001	0.33	
<u> </u>			0.007	0.61	
6/14				1	
(70)			0.019	0.24	
6/10					
	·		0.016	0.75	
6778					
			0.018	0.97	
6780		<u>+</u>	*	*	
*			0.024	+ 0.43	
5 6616			+	*	
*			0.04	0.54	
U 6737					•

CERTIFIED BY: Min Cuit

Certificate of Assay

Vewhawk TO -. . .

Project No. _____ Date <u>Aug 29/88</u> File No. <u>UH G 279</u>

SAMPLE No.	WT. AT.	Dore	Au oz/ton	Ag oz/ton	Remarks
D CO3012			6.005	4.05	· · · · · · · · · · · · · · · · · · ·
003013			0.010	0.22	
V 003014			4.005	4.05	
003015			4.005	L.05	<u></u>
003016			0.006	0.07	
003017			0.008	0.10	······································
003018			4.005	4.05	·
003019			6,005	4.05	
003020			4.005	0.20	<u></u>
003021		4	0.005	0.49	
003022			4.005	0.11	
003023			0.005	0.20	
003024			2.005	0.11	
003025			4.005	2.05	
003026			1.005	0.11	
D 003027			0.006	0.21	
*			×	*	
5 6718			0.005	4.05	
<u> </u>			K	*	
1/449			0.021	0.20	
6650			0.017	0.37	
<u> </u>			*	*	
1702	1		0.132	0.46	
6702			0.017	0.16	
			J	V	
4711	┉┼╼╍╼╼		0.013	0.07	
1 717			0.017	0.19	
6/16		╾┝╾╼╌╼╼		J	•
1773			0.075	0.12	
1774			0.010	0.21	
6/1T			1 1017	0.24	

Idia Cryt

10

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Newhank

Project No. _____ Date <u>August 26/98</u> File No. <u>MHC</u> 275

SAMPLE No.	WT. AT.	Dore	Au oz/ton	Ag oz/lon	Remarks	
5 6617			0.025	0.60		•
1 6618			0.009	0.24		
6619			4.005	0.07		-
6620			0.027	0.72		
667-1			0.047	0.24		 .
6672			0.025	0.13		
6623			0.009	4.05	·	_ •
6674		. •	0.026	0.31	······································	;
6625			0.027	0.60		 '
			4	<u> </u>		i
1635			0.009	4.05		
61.31			0.006	1.05		
6/ 37			6.005	4.05		
			0.011	4.05		
(2625			0.085	0.17		.
6639			0.056	11.92		- .
6640			0.185	2.27		
6641		·	Ŧ	X		
T.			0.015	0.41		
6766			0.014	0.20		
6/6/			0.004	0.07		
6768		 	0.000	0.17		
6769				026		
6770			0.004	0.09		
6771			0.015	0.07		 _
<u>S6772</u>			- 0.029			
*			<u> </u>			
u 6712			0.061	0.04		• · · · •
6713			0.022	5.13		
U 6714			0.015	0.36		
6715			0.046	8.74		
146716			10.087	6.27		

loin Cuft

WT.AT.

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Project No. ---

Date August 21 30

File No. AHG-23-

то _____

SAMPLE No.

U.

5

S

u 6718

J.

6721

*

5 6610

5 6612

6611

663

5 6614

Remarks Ag oz/ton Au ozton Dore 1-22 0.040 J 5 2.68 0.04 × ¥ ~ 0.37 1.005 1.57 0.018 0.09 0.211 0-41 0.120 0.20 0.016 0.86 0.019

5 6615	×	*	
*	0.035	0.16	
4 8654	0.040	0.32	
U 8655 .		¥	
4	m.082	8.63	
11 9662	0.002	T T	
	0.059	0.99	
11 9/15	0.031	0.99	
4 0005	0.054	1 041	
u 8668	0.009		
u 8067	4		
*	0.007	0.01	
U 8676	0.009	0.16	
4 8677 -	0.01	0.20	
u 1678	0.014	0.09	
4 8679		-	
			•
		1	(16)
	CERTIFIED	вү:/	angen

- 1.

NEWHAWK GOLD MINES LTD.

Certificate of Assay

TO-

۰.

Project No. ____

Ang -1 - 2 Date ----

NHE Filo No.-

SAMPLE No.	WT.A.T.	Dore	Au oz/ton	Ag ozňon	Remarks
5 6596			0.016	0.22	
5 6597			0.015	1.37	· · · · · · · · · · · · · · · · · · ·
< 6598			0.010	0.34	
5 6599	[0-459	14-16	
5 6600			0.027	1-93	
			J	+	
6 6626			0.032	0.57	۰
5 6627			2-005	6-05	
5 6628	<u> </u>		0-013	0.61	
< 6629			6.005	6.05	
X		-	*	×	
5 6736			0.007	0.08	
5 6737			0:042	C.28	· · · · · · · · · · · · · · · · · · ·
5 6735			0.040	0.17	
X			*	×	
11 6576			18.523	603.37	1
			l	4	
11 Posting			C.083	0.90	· · · · · · · · · · · · · · · · · · ·
1 530			0.034	Q =35	
<u> </u>			0.059	4.89	
11 4583			0.068	(++1	
1 6584			0.046	F#9.22	
1 6595			0.293	28.58	•
(1 (1586			0.020	2.04	
u 0500	<u></u>		0.057	12.33 1	
<u> </u>			0.055	11.48	
4 6500		<u></u>	0.062	3.80	
0. 05 01				1	
UNCA2			0.022	0.33	
<u> </u>			×	*	
9529	_		0.060	0.97	
<u> </u>	<u>k</u>		CERTIFIED BY:	C//	(amplitude

P.2

Certificate of Assay

10

AUG 19 '88 07:12 -

Project No. -Augurt Date -270

NHE File No.-

		Dore	Au oz/ton	Ag oz/ton	Romarks
APLE No.	WT. A.I.		0.07	0-18	
5 6574			*	*	
×			0.051	1-55	•
5 6739			0.017	0.79	
5 6740			0-020	0.66	
5 6741			0.015	0-29	······································
5 6742			0.011	1.65	· · · · · · · · · · · · · · · · · · ·
5 6743			*	*	
¥			0.065	0.69	
U 8538				4	
1		<u>_</u>	1.005	0.99	
4 8541			0.015	0.46	
U 8542				V	
			0.007	6.05	
U 8546			0.012	6.05	
U 8547	<u> </u>		1-007	0.07	
U 8548					
				0.44	
U 8550				0.25	
4 8551			2.005	1 1	
L .			0.020	0-17	
U 8556				- /.05	
U 8557	-		<u></u>		-
				7.81	1
U 855	7	·	0.115		
J.				a 0.42	
u 856	2		0.03	0 31	
U 856	3				•
				= 0.27	
U 856	5			C 0.7	2
U 856	a				
J			•	¥	
			CERTIFIED	IY:	Manpage

F.C

Certificate of Assay

Newhan

то

Date 40.9

Project No.

File No.

<u>Z</u>.-.

		Dora	Au oz/ton	Ag oz/lon	Remarks
SAMPLE No.	WT.A.I.		0.029	1.97	
5 6588			0.045	6.91	
1 65 39			0.128	6.76	l
<u>U 6590</u>			0.0%	4.19	\ \
6591			0.099	22.72	
6597			0.017	4.18	
6593			0.025	4.20	
6594			0.006	0.34	
65,95			<u> </u>	1	
+			0.023	0.72	
6161			0.442	12121	
6/50			0.472	161.00	
6/31			5	1 5 12	
1777			0.024		
56/33			<u>×</u>		
X (5(7)			0.050	0.41	
<u>il 6366</u>					
17 (564			0.065		
V 6507			X	T	
1 177			4.004	- 4.03	2
6561			L		*
0			0.13	7 34.6	
4550			- U	- V	0
Dert.	1		0.04	6 0.4	J
11 000					
					1 12 -4

...

τ**ο** --

NEWHAWK GOLD MINES LTD.

.

Certificate of Assay

Project No. _____

File No. Att G - 200

SAMPLE No.	WT. A.T.	Dore	Au oz/ton	Ag oz/ton	Romarks
5 6514			0.075	2.05	
5 6516			6-005	6.05	·
5 6517			0.006	1.35	
5 6518			0.040	0.68	
5 6519			0.007	2.13	<u></u>
56520			6.005	0.57	
56521			0.027	0.66	
5 6577	<u> </u>		0-121	23.14	
6 6502			0.013	0.10	
56525	·		0.020	0.94	· · · · · · · · · · · · · · · · · · ·
5634			6.005	0.85	
<u> </u>			1	¥	
5 6512			0.010	0.28	
5 6562			0.634	25.95	1
5 65 65	· · · · · · · · · · · · · · · · · · ·		0.023	1-87	
5 0304			6.005	1.50	
5 63 63			0.022	1.62	
5 6560	<u> </u>		0.020	0-17	
5 6567	<u>}</u>		0.023	0.10	
5 6560			0.037	0-24	
5 6569	<u> </u>		0.10	0.23	4
56570	<u> </u>		0.036	1.05	
5 65 71	<u> </u>		0.021	0-48	
56572			0.015	0.09	
5 65 13					
			0.009	0.16	
5 65+5					
<u> </u>				1 0 32	
LI 655	1		0.03/	0.29	
4 656	<u>q. </u>			J J	
	<u> </u>		<u>_</u>		

Mangle G

- -

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Project No. ______

TO -----

File No. NHE

		Dore	Au ezfon	Ag oz/ton	Remarks
AMPLE No.	WT.A.T.		0.025	0.65	
1 6287	<u> </u>		×	*	· · · · · · · · · · · · · · · · · · ·
×		+	0.015	6.05	
4 6553			0.011	6.05	B
4 6554			0.501	1-31	
1 6555			0.031	1.00	
4 6556			0.041	0.47	
<u>U 6557</u>	+	-	0.03	H 0.70	
4 6558			*	T_X	
			0.062	0.49	
U 8504			0.015	2.34	
U 8507			0.075	0-36	
LI 9510			0.068	3.98	
4 8513			0.06	5 9.21	
4 9516			6.005	4.05	
U 8522			0.000	: 1.00	
4 85 25	5		0-11	16.20	
u 852	2		0.20	5 (8.9	4
U 953	31		1.00	5 0.11	
4 857	¥		0.0	77 2.30	1
4 853	7		0:07	9 4.49	}
U 854	0		0.0	34 0.4	3
1 854	3			×	19
×			0.00	6 1.09	5
5 651	3				
				5 0.1	9
5 651	5				

tlewitt.

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Project No. _____ Date ____August & 202

File No.---

то -

,

SAMPLE No.	WT.A.T.	Dore	Au oz/ton	Ag oz/ton	Remarks
11 6.040			0.018	0.30	v
<u>u 6440</u>					
11 770			0-173	(0-03	17
<u>4 770 </u>			Nº I		
11 2710			0.0501	3.73	1
y 7770					
11 7860			0.009	0.61	
9 1000					
11 7000	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	0.033	0-42	
<u>4 7000</u>			_		
14 3000	<u> </u>	<u> </u>	0.010	0.85	1 .
<u>4 4700</u>					
1, 7,971			6.005	0.09	1
<u> </u>		<u></u>			
9050	<u> </u>	<u></u>	0.017	1.08	
<u> </u>		ļ			
C C = 5110		<u></u>	0-204	0.59	'_
5 6540	<u>_</u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
C 1.50			0.047	3.91 "	
5 6560					
-		<u> </u>			
بر				1	
					•
				<u> </u>	
	<u> </u>		<u></u>		
					+
			····		

Ch Camp

<u>10 -</u>

NEWHAWK GOLD MINES LTD.

Certificate of Assay

Project No. __ Date August 3 20

L 1 T

SAMPLE No.	WT. A.T.	Dore	Au oznon	Ag oz/lan	Remarks
4 6452			2.005	6.05	
*			*	*	
5 6556			0.119	0.42	
\$ (0557			0.195	0.85	· · · · · · · · · · · · · · · · · · ·
*		-	*	*	
11 7974			0.006	0.22	
					·
	<u></u>	-			
<u> </u>	1				
· · · · · · · · · · · · · · · · · · ·			·		
	-{				
	_ <u></u>				
			-{		*
· ·					
-					
	+				
·					
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
	_				
					•
					·
					

AUG 04 '88 06:50

· :...

.

NEWHAWK GOLD MINES LTD.

Certificate of Assay

TO -

Project No. -August 3 19 Date ----NH6-345

F._

File No.___

	WTAT	Dore	Au oz/ton	Ag oz/ton	Remarks
SAMPLE NO.	10.00		1.005	0.69	
<u>((172</u>	<u> </u>		1.005	0.74	
<u>u 6455</u>			0.07.1	0.33	
<u>u 6484</u>			0.021	0.09	
<u>u 64.05</u>			0.02	1.05	
<u>U 6436</u>			0.016	1.44	
4 6437			0.019	0.66	·
<u>u 6466</u>		+	0.017	0.31	
<u>U 6451</u>			0.017	0.30	······
4 6440	<u> </u>		- 0.010	(105	
U 6441			2.003	0.70	است. با با با با است
<u>u 6442</u>			0.008	-6.44	۰۰
<u>u 6443</u>			0.014	- 10 32	
<u>u 6444</u>	<u> .</u>		0.025	10.72	•
. u 6445			0.044	10.78	
u 6446	<u> </u>		0.007	0.84	
		·	↓	+	
U 6450.		, , , , , , , , , , , , , , , , , , ,	0.016	0.12	
U 6451			0.011	0.08	
*			*	*	
5 6503			0.009	2.05	
5 6504			0:086	0.08	
5 6505			0-154	2.05	
5 6506			0.011	0.37	
5 6507			2.005	2.05	
5 6508	3	╺╸╎╶╴╶┈╼╼╼╼	. 0.012	12.90	
5 650	1		6.005	0.24	
C LEIN	<u></u>		0.018	2.05	
6 4511			0.162	28.32	1
6 Lein	╺╴┟────		0.061	1.18	
<u> </u>	·			1 1	
5 (ASH)	3		0.037	0.85	······································
V		I	CERTIFIED BY:	M	ample?-

1

. NEWHAWK GOLD MINES LTD.

Certificate of Assay

TO -----

Project No.

E • 3

FleNo NHG236

SAMPLE No.	WT.AT.	Dore	Au oz/ton	Ag oz/ton	Remarks
5 6544	······································		2.005	0.09	
5 6545	· ·		0.024	17-26	
5 6546			0.007	0.15	
5 6547			0.080	0.23	·
5 6548			0.034	0-14	······································
5 6549	······································		0.043	2.05	
5 6550	·····		0.018	2.05	· · · · · · · · · · · · · · · · · · ·
5 6551			2.005	2.05	
5 6552			0.006	2-05	
5 6553			0.009	0.010	
5 6554			0.008	6.05	
5 6555			4.005	4.05	
¥			+	Ŷ	
5 6558			0.376	0-42	
5 6559			0.046	0.07	
5 6560			0.042	3.91	
					
U 7869			0.044	0.32	
4			4	4	
4 7877			0.110	8-11 1	
ý v			i i	+	
(1 7892	<u> </u>		0.012	0.46	
11 78 93			0.007	0.38	·
-		-			
11 7895	<u>+</u>		0.019	0.57	
U 1996		···	0.031	0.35	
L. <u>9 10 10</u>					
4 3902	_ 		0.017	0.35	•
1 1 2907	+		0.016	0.25	
	· · · · · · · · · · · · · · · · · · ·				
4 7905			0.0%	0.32	

Ch anglat-

Certificate of Assay

то —

. . .

Project No. Date Augurs . 193

File No. N446- 232

SAMPLE No.	WT.A.T.	Dore	Au oz/ton	Ag oziton	Remarks
5 1530	<u></u>		0.034	4.05	
			-	-	
1 6532			0.034	4.05	and the second se
6533	-		0.033	0.16	
1534			40.005	4.05	
					<u></u>
1.527		_	0.016	L.05	
<u>ر د دیما</u> ۱,			J	L'	
1 4 11 1			0.010	0.41	
634	··· · · · · · · · · · · · · · · · · ·		D.CZZ	4.05	
5 6544			*	*	
π		-	0.015	1-11	
1 - 10-7			0.011	0.92	
1856			0.010	0.62	
7853			0.009	0.67	
7854			10.014	1.95	
1855			0.049	12.94 1	
/456	· _ · · · · · · · · · · · · · · · · · ·		0.055	10.46	
7851			0.077	0.34	· · · · · · · · · · · · · · · · · · ·
78.58			0.022		
·					
					· · · · · · · · · · · · · · · · · · ·
			CERTIFIED BY:	N	1 Camplester

P.3

· ._.

NEWHAWK GOLD MINES LTD.

Certificate of Assay

TO -

Project No. Date July 31/84

r. 4

File No. NHG - 224

SAMPLE No.	WT.A.T.	Dore	Au oz/lon	Ag oz/ton	Remarks
U 9034			0.007	0.30	
4 8036			0.036	0.57	
4 8037			0.020	0.86	
4 9038			* 0.334	125.61 1	······
4 9039	······		0-014	1.05	
4 8040			- 0.010	0.77	
4 8041			0.016	2+17	
4 8042			0.055	3.92	
u 8043			0.205	15.55	!
4 8044			0.016	1.46	
X			×	*	
5 6501			0.246	(.38.*	
5 6502	•		0.244	2.99 .	
V			¥ .	+	
5 6526	······································		0.023	0-17	
5 4 527			0.149	2.57 '	
5 6528			0.082	0.99	
5 6529			2.005	(.05	
			-		
5 6531			0.097	6.05	
<u>_</u>			·\-	4	
<u> </u>			0.010	6.05	
5 6536			0.011	0-14	
C 6538	<u> </u>		. 0.013	6.05	
\$ 6529			0.092	0.23	
5 6540			- 0-204	0.59	
<u> </u>			0.04L	0-11	
	<u> </u>				
<u></u>			CERTIFIED	m	ando

CERTIFIED

APPENDIX III

Qualifications of Field Personnel

4

Qualifications of

N. Tribe, P. Eng., Author and Field Supervisor

RESUME OF

NORMAN L. TRIBE, P.ENG.

-Graduated from the University of British Columbia in 1964 with a B.A.Sc. in Geological Engineering.

-Registered Professional Engineer in the Province of British Columbia.

-President and principal of N. Tribe & Assoc. Ltd. a geological contracting company serving the industry for 18 years.

-A total of 24 years experience in most phases of my profession including underground grade control, pit grade control, mine development, mine evaluation, property evaluation, project management, project consultant, exploration management, exploration geology and reporting to the various governments and/or stock exchanges.

-Wide ranging experience throughout the world including postings in the Canadian Cordillera, the Canadian Shield (Ontario, Saskatchewan, Manitoba and the N.W.T.), Australia and the Pacific Islands, (Fiji, Misima, P.N.G., etc.), the Austrailian Shield, the Guiana Shield.

-Experience in various mines including Craigmont (Merritt), Eldorado (Beaverlodge), Highland Bell (Beaverdell), Argo (Zortman), Pegasus (Landusky), Lupin (Contwoyto Lake), Scottie Gold (Stewart), Newhawk Gold Mines (Brucejack Lake), Esperanza Gold (Burton) and Edjudina (Australia).

-Spent six months with the Ministry of Energy Mines and Petroleum Resources of British Columbia as Mines Inspector in Kamloops, B.C.

-Holder of the following industry related certificates:

-Underground Shift Boss, U.G. 2029

-Open Pit Shift Boss, O.P. 811

-General Blasting Ticket, B.C. 37431

-Blasters Permit, Yukon Territories, 2037

-Industrial First Aid Ticket, 703669465 (expired)

-Underground Mine Rescue Ticket, 6642

-Surface Mine Rescue Ticket, 03969

-British Columbia Class 5 Drivers Licence 3146483

-International Drivers Licence

-Valid Current Canadian Passport

RESUME OF

RICHARD LEEP, B.Sc.

Richard Leep, B.Sc., majored in geology and maths at the University of New Mexico, graduated in 1970.

-18 years' experience including:

-10 years as mine geologist at Hecla's Star Mine

-1 year as shift boss at the Lucky Friday Mine

-5 years as district geologist at Hecla's Coeur d'Alene office

-2 years as exploration geologist for the Hecla Escalante Mine in Utah.

RESUME OF

BRIAN BOWER, B. Sc.

Brian Bower graduated from the University of British Columbia in 1986 with a Bachelor of Science, Geology Major.

Pre-graduation experience:

-4 years summer experience as geological assistant for Kidd Creek Mines in northern British Columbia and the Toodoggone.

Since graduation:

-2 years for Total Erikson at Erikson Gold Mines, Cassiar, B.C.

RESUME OF

MICHAEL GENN, B.Sc.

Michael Genn graduated from the University of British Columbia in 1987 with a Bachelor of Science degree in Geology.

Pre-graduation experience: -1 year as field assistant at Syncrude, Fort McMurray, Alberta.

Post-graduation experience:

-1 year as field geologist for Omni Resources Inc. at Whitehorse, Y.T.

APPENDIX IV

LEGEND AND LITHOLOGIC DESCRIPTIONS

9

LEGEND

The legend in use when we arrived in July 1988 was as detailed below. We started with this legend and expanded it to describe the rocks as we moved away from the West Zone ore body and the rocks and alteration found there.

The legend that developed is as follows:

AN?? - Various varieties of andesite rocks All "Andesitic" Units have undergone local quartz sericite pyrite alteration. Dusty disseminated Py may be responsible for overall grey cast of rocks.

ANLT - Andesite lapilli tuff: color dark to medium grey, moderately foliated, to massive rock. Angular felsic phenocrysts to rounded clasts up to 3 cm, averaging 7 - 8 mm long in a granular to ashy matrix. Regional alteration 20% silica, 5 - 10\% sericite, 5% interstitial pyrite. Fragments are matrix supported.

ANTE - Andesite tuff: Colour dark to medium grey moderately foliated to massive rock. Generally fine-grained with average grain size 2 - 3 mm. Contains minor subunits of ANLT, ANXT, ANBX, ANPP and HELT.

ANXT - Andesite crystal tuff: Color dark to medium grey moderately foliated to massive rock. Feldspar and sometimes quartz phenocrysts up to 5 mm long in a grainy matrix. Fragments clast supported.

ANBX - Andesite Breccia: Medium to dark grey rock with angular fragments to 20 cm in diameter. Fragments often contain **small 6** mm feldspar phenocrysts. Matrix is grainy to ashy in composition. Clasts usually matrix supported.

DC?? various dacitic units.

Dacitic Units: Moderately silicified and bleached equivalents of andesitic units described above. Discrete small muscovite (sericite) books and minor secondary pyrite are common in a medium grey grainy to ashy, welded looking groundmass.

DCLT, DCTF, DCBX - dacitic equivalent to the andesite units noted above.

PPFP - Feldspar Porphyry: White to generally beige

sub to euhedral 3 - 15 mm feldspar phenocrysts comprising 10 - 15% of rock in a grainy matrix. Overall colour ranges from medium to pale grey and grey-olive green, due to silicification and pyrophyllite alteration present where this unit occurs.

PPHB - Hornblende Porphyry Dyke: Massive medium green, uniform fine-grained intermediate dyke. Characteristic 0.5 - 2 mm black hornblende laths comprise up to 5% of the rock. This intrusive is postmineral and crosscuts highly silicified units and veining with clean sharp contacts. These dykes may be flat lying as extrapolated from drill hole information.

CHRT - Chert: Massive grey to grey-green massive to "flow banded" amorphous rock. Rock behaves brittley to deformation with numerous tension gashes and slips while the "Reterolithic Tuff" surrounding this unit behaves in a ductive fashion. Contact relationships with surrounding rocks appear primarily with soft sediment deformation features.

HELT - Heterolithic Tuff: Medium to dark grey pyro-epiclastic rock with highly variable appearing generally andesitic clasts in a foliated ashy matrix. Fragments range from 0.5 - 20 cm in diameter and are rounded to hackly. Some cyclic bedding can be seen. Possible fluviatile and other subaqueous textures and rock types are associated with this unit. This is the dominant rock type and host rock of the West Zone.

SYEN - Syenite. Dark to medium greys flecked with white. Hardness -5. Medium grained, phanuretic to weakly prophyritic. Weakly to moderately sericitized but feldspars still visible.

AKSS - Arkose, arkosic sandstone. Dark, medium greys. Hardness 4. Fine grained to grainy, may show bedding or cross bedding.

CNGL - Heteralithic conglomerate. Particles 0.5 cm - 2 cm. **Angular fragments of argillite usually present.**

CONG - Monolithic conglomerate as above without the argillite fragments.

PPGL - Pebble conglomerate. As in CONG but with a distinct one cm. pebble mosaic. This conglomerate becomes intensely sericitized and becomes CGZN.

BLOT - Dark greys - black. Hardness 7. Very fine grained black siliceous matrix often contains an abundance of secondary white quartz veins.

ARGL - Black, harness 5 - 6. Very fine grained argillite does not take the sericite pyrite or silica

11

alteration, but does brecciate and accept the GTVN, GCVN or GBVN.

DIOR - This category is a generalization for several varieties of medium to basic dyke material. The typical dyke is fine grained Hb diorite with a good pale green chill margin. DIOR may also include diabase or other dike.

Alteration Suite is as follows:

??Zn - Zone rock: called in the mine legend, QTZN. These rocks are pale grey to dark grey, hardness 3, fine to medium grained, weakly to moderately schistose, intensely sericitized, moderately to intensely pyritized, 10 - 50% fine grained pyrite and weakly to moderately silicified with 5 - 10% quartz veining. Petrogenic variations on this rock type are:

QTZN - Generic zone rock, indeterminate origin ANZN - Andesite zone rock AKZN - Arkosic zone rock SYZN - Syenite zone rock PPZN - Plagioclase porphyry zone rock CGZN - Conglomerate zone rock

OCZN - Quartz Carbonate (Calcite, Siderite, Ankerite) Zone: Generic zone rock generally medium grey silicified with early quartz followed by later quartz carbonate veining. Quartz calcite veining ranges from white to dark grey and also pink calcite. Quartz siderite is distinctive with its yellow siderite grains in white quartz. This is a common apparently last phase of veining and seen in tension gash line features. Quartz Ankerite is distinctive with pale yellow to ivory ankerite in late quartz fracture and gash veining.

075W - Stockwork veining 10 - 80%. Veining forming a crisscross network usually in a pale intensely sericitized and/or pyritized matrix.

> Variations are: QTSW - quartz stockwork QCSW - quartz carbonate stockwork QBSW - quartz barite stockwork

 $\ensuremath{\mbox{Q?BX}}$ – Quartz breccia veining. Similar to Q?SW but with a brecciation of some of the earlier veins.

Variations are:

QTBX - Quartz breccia veining

OCBX - Quartz carbonate breccia veining

QBBX — quartz barite breccia veining

0?VN - Massive veining. Usually white massive vein material of a single generation of vein material may contain some wall rock fragments 80% plus vein material.

Variations: QTVN - Quartz veining QCVN - Quartz carbonate veining at least 5% carbonate. QBVN - Quartz barite veining at least 5% barite. SXVN - Sulphide vein. Should be subscripted to identify the minerals: - tet. - tetrahedrite - ga. - Galena - sph. - Sphalerite - py - Pyrite - po - Pyrrhotite - ten. - Tenanite - cpy - chalcopyrite - asp - arsenopyrite - el - electrum - chc - chalcite - mo - molybdenite - fl - fluorite - pyg - pyrargyrite - bor. - bornite - ba. - barite - tour. - tourmalene

Subscript modifiers are also applied to any of the above rock types according to the following coding:

wsw - Weak stockwork, 2 - 5% stockwork.

msw - Moderate stockwork, 5 - 10% stockwork.

Assays are plotted on the sections as:

.0X / .00X

ounces per ton Ag. / ounces per ton Au.

or as:

.0X ounces per ton Ag.

.00X ounces per ton Au.

Old leaend still in use.

Some carry over from the work of Bridge et al is still in use. This legend is too generalized to be used except for the regional mapping. It is summarized as follows to provide a reference for use when referring to the earlier work:

- 1, the sedimentary package, sandstone, arkose
 wacke, lithic arkose and shale, pebble conglomerate arenite.

- 2, andesite fragmentals, monolithic and heterolithic tuffs, tuff breccias.

3, alkali feldspar porphyry syenite.

- 4, syenite.
- 5, dike rock suite.
- 6, black quartz.
- 7, quartz veins.
- 8, alteration package.
- subscripts to the alteration package:
 - Q silicification
 - w, weak
 - m, moderate
 - i, intense
 - S sericitization
 - w, weak
 - m, moderate
 - i, intense
 - P pyritization
 - ~ w, weak
 - m, moderate
 - i, intense

N. TRIBE & ASSOCIATES LTD. - 2611 SPRINGFIELD ROAD, KELOWNA, B.C. CANADA V1X 189 - TELEPHONE (604) 860-7661

14



S 6501 : Sulphurets Lake Zone : select grab : 035/55k : a : 0.245 : 1.36 S 6502 : Sulphurets Lake Zone : repr. chips : 050/45NN : a : 0.244 : 2.36 S 6901 : Sulphurets Lake Zone : repr. chips : : 2a : 0.005 : (0.05 S 6902 : Sulphurets Lake Zone : repr. chips : : 1a : 0.055 : 0.66 S 6903 : Sulphurets Lake Zone : repr. chips : : 2a : 0.044 : 0.27 S 6903 : Sulphurets Lake Zone : repr. chips : : 2a : 0.044 : 0.27 S 6904 : Sulphurets Lake Zone : repr. chips : : 3a : 0.010 : (0.055 S 6905 : Sulphurets Lake Zone : repr. chips : : 2a : 0.044 : 0.27 S 6905 : Sulphurets Lake Zone : repr. chips : : 3a : 0.010 : (0.055 S 6906 : Sulphurets Lake Zone : repr. chips : : 2a : 0.010 : (0.056 S 6907 : Sulphurets Lake Zone : repr. chips : : 2a : 0.010 : (0.027 S 6908 : Sulphurets Lake Zone : repr. chips : : 3a : 0.020 : (0.027 S 6908	30: Q-py-ser shearsS 5513 : Hanging Glacier: repr37: Q-py-ser shearsS 5514 : Hanging Glacier: sele36: Silic ser-by zoneS 5515 : Hanging Glacier: sele58: Py-ser alto. E-py storsS 6515 : Hanging Glacier: repr58: Py-serS 6516 : Hanging Glacier: repr59: Py-serS 6562 : Hanging Glacier: sele50: Py-serS 6563 : Hanging Glacier: sele51: Q-py stors in silic zoneS 6564 : Hanging Glacier: sele51: Silic py-ser zoneS 6565 : Hanging Glacier: sele52: Silic py-ser zoneS 6565 : Hanging Glacier: sele55: Wkly bedd py zoneS 6566 : Hanging Glacier: sele55: Wkly bedd py zoneS 6566 : Hanging Glacier: sele	. chips 062/75NW 20cm missing missing Q-py shear ct grab 062/35N 20-50cm 0.025 (0.05 Q-carb-py vn . chips 010/52E 10cm missing missing Q-sph-cpy . chips 092/55S 10-50cm (0.005 (0.05 Carb vn, no sulf ct grab 155/52W 20cm 0.010 0.29 Q-carb-cpy-gn-tt-pv ct grab 076/64NW 10-20cm 0.634 25.55 Carb-cp.gn-tt-pv ct grab 076/64NW 10-20cm 0.634 25.55 Carb-gn-py-cpy-sph ct grab 015/73W 20-30cm 0.023 1.87 Q-carb in shears ct grab 135/10NE 10cm (0.005 1.50 Q-carb-sph-gn ct grab 135/10NE 10cm 0.022 1.62 Q-carb-sph-gn-tt	S 6507 M-S Ridge Zone : select grab 1 020/80E : 3-5cm : 0.000 0.00 0.00 0.00 0.00 0.000 0.000 0.000 0.000 0.012 12.90 0.012 12.90 0.012 12.90 0.012 12.90 0.000 0.24 0.000 0.24 0.000 0.24 0.000 0.24 0.000 0.24 0.000 0.24 0.000 0.24 0.000 0.00	PROPERTY GEOLOGY Pringin? py-hea.vn vb coarse jav. py-cpy py-cpy py-sph-fhea, below S 6559 i i PROPERTY GEOLOGY SAMPLE LOCATION SUMMER 1988 FIGURE NUMBER 4 A A A A A A A A A A A A A
ASSAY RESULTS-od SMPL ND. : AREA LOCATION : TYPE : AZ/DIP : WIDTH : Au Ag	DT I ECOMMENTSSMPL NO.: AREA LOCATION I	I ASSAY RESULTS-opt 1 Type I Az/dip I width I Au Ay I Comments	: ASSAY RESULTS-opt : SMPL NO.: TAREA LOCATION : TYPE : AZ/DIF : WIDTH : Pu Ag :	
TABLE 1: SULPHURETS LAKE GOLD ZONE SAMPLES	TABLE 5: HANGING BLACIER SAMPLES		TABLE 4: MITCHELL-SULPHURETS RIDGE SAMPLES	
		· · ·		
				18 564
				GEOLOGICAL BRANCH ASSESSMENT REPORT
	a a a a a a a a a a a			LUNTOUR NTERVAL 500 PEET
				S 5529 ' Granduc Main Cu Zone I select grab 1 070760NN 1 20cm 1 0.082 1 0.99 1 Cu stained fracture S 5529 ' Granduc Main Cu Zone I select grab 1 030760NN 1 2m 1 0.082 1 0.99 1 Cu stained fracture S 5529 ' Granduc Main Cu Zone I select grab 1 030765NN 1 2m 1 0.000 1 0.00 1 Dissem py
				STIPL NO. : AREA LGCATION : TYPE : AZ/DIP WIDTH : Au Ag : COMMENTS S 6525 : Granduc Main Cu Zone : repr. chics : 070/70 : 1s : 0.023 : 0.17 : Py-Epv in shear
			ELECTRUM ZONE	: ASSAY RESULTS-opt :
	l l l l l l l l l l l l l l l l l l l		GALENA ZONE	TABLE 3: GRENDUC MAIN COPPER ZONE SAMPIES
				S 6919 : Sulphurets Bold Zone : repr. chips : 040/7000 : in : 0.015 : 0.15 : Fablt bx S 6920 : Sulphurets Bold Zone : repr. chips : 040/7000 : 3n : 0.005 : 0.05 : 1 Bx S 6721 : Sulphurets Bold Zone : select grab : : 3n : 0.027 : 3.45 : 0-py-ser S 6722 : Subburgts Bold Zone : release : 047/04 : 50cm : 0.05 : 0.027 : 3.45 : 0-py-ser
	2		inter interior	S 6916 : Sulphurets Bold Zone : repr. chips : 640/70NH : 2n : 0.030 10 0.05 : 0-py-ser S 6917 : Sulphurets Bold Zone : select crab : 040/70NH : 3n : 0.013 : 0.40 : 0-py-ser S 6918 : Sulphurets Bold Zone : repr. chips : 040/70NH : 3n : 0.040 : 0.10 : 0-py-ser
	2 2 2		2 WEST ZONE	S 5913 : Sulphurets Sold Zone : repr. chips : 040/70NN : 3m : 0.003 : 0.06 : 0.05 : 0.06 : 0.05 : 0.06 : 0.07 : 0.06 : 0.07 : 0.08 : 0.08 : 0.
	222		SHORE ZONE	S 6554 : Sulphurets Sold Zone : select grab : : 1 19cm : 0.008 : 0.00 : R-py-cgy-gn-soh S 6555 : Sulphurets Sold Zone : select grab : : 1 10cm : 0.000 : 0.00 : R-gy-cgy-gy-sph vnlts S 6556 : Sulphurets Sold Zone : select grab : : 5m : 0.119 : 0.42 : Py in shear, fresh rock S 4912 : Sulphurets Sold Zone : select grab : : 5m : 0.119 : 0.42 : Py in shear, fresh rock
S	2	Y SP	22/100	S 6552 : Sulphurets Sold Zone : select grab : : 10tm : 9.006 : 0.00 : R-py-csy-gn-sph S 6553 : Sulphurets Sold Zone : select grab : : 1 tm : 0.009 : 0.01 : R-gn-cpy-sph S 6554 : Sulphurets Sold Zone : select grab :



L ALEAY RESULTS-opt SMPL NO. LORED LOCATION : ZONE : TYPE : AZ/01P ∎ដៃΩំដៅ ដ ឝ៌ថ COMMENTS 5 0605 | Sallen Karwat | Ptarmigan | repr. thip | 140/90 | 0.7-14 | 0.004 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.5 S.6410 1.6013an Marsot | Ftarssgan 1 repr. chip - 1 120/834E 1 10-20cm 10 0.005 1 - 0.37 1 8 vn in seds - 5 6611;3 Golden Haraot & Ptermigan Sprepr. chips 1 100/868 : 40-50cm : 0.018 : 1.57 : Yellow W-py yn 5 6614 1 Bolden Maraot 1 Ftarnigan + Seject grab 1 ---- 1 1.5# 1 0.016 1 0.20 1 0 pj-sHr in 5 6615 3 Golden Harmot 1 Ptarmagan 1 emiect grab 1 090/90 3 60cm 3 0.019 1 0.86 3 G-py-sphrett? vm * 3 46 15 9 6616 1 601den Harmat 1 Pturaican 1 repr. chips 1 140/8008 1 20cm 1 0.024 1 0.48 1 0 vn #/#0488 Py S 6628 | Bolden Marmot | Ftarmigan | repr. chips | 0567668E | 50cm | 0.013 | 0.01 | 6 ser-py in shear "S 6629 | Golden Barsot | Ptarsigan ! repr. thips | 058/90 | BOce | 3< 0.005 | 0.05 | 0-carb vn S 6532 | Golden Maraot 1 Ftaraigan 1 select grab 1 142/8254 / 20cm / 1 0.009 (s 0.05 1 G-ser-by shear 13 6633 1 Bolden Harmot | Ptarmigan | select grab | 120/70 | 10cm | 1 0.007 | 0.06 | 0 vn x/Cu stain S 5624 + Boiden Marmot | Ptarmigan | select gras | 154/? : ? | \$2.018 | \$9.52 & vn badly weathered 5 6676 1 Solden Marmot | Ptarmigan | trench chips [----- | 3m 1 0.607/10 0.05 1 #T 273 5 6677 1 Bolden Mareot | Ptareigan | trench chips | ---- 1 3a 1 4.B14 (- 3.52) 17 277 -_ S. 6678 | Eciden Harmot + Ptarmigan | trench chips + ---- 1 20 1 0.010 10 0.05 1 41 274 8 6579 | Bolden Haraol | Ptarsigan | trench chips | ----- - 1 2.4s | 1 0.015 | 0.73 | #1 274 2 SEED : Solden Harant : Ftarmiyan : trench chips : ----- : im U.011 1 0.10, 1 11 279 2 6681 | Galden Murmat | Ftarmigum | trench chips | ----- 1 2m 0.01B (0.25) 17 279 S 6682 1 Golden Harmot / Ptarmigan / trench chips / ---- / 3m 0.014 0.05 1 #7 279 S 6683 1 Bolden Harmot | Ftarmigan | trench chaps : ----- 1 Sm 0.020 0.63 141 279 5 6684 1 Solden Harmut, 1 Ptarmigan 1 trench chips 1 ----- 1 Jm 0.011 10 0.05 1 47 277 5 6695 3 Golden Harmot 1 Ptarmigan 1 trench chips 3 ----- 1 3m 0.005 K 0.05 / 4T 277 5 6085 1 Suidan Marsot 1 Ptarmigan 1 trench chips 1 ----- 1 3m 0.022 : 0.41 : #7 277 -S-6687 | Solden Marmot | Plarmigan | trench ships | ----- | 2m --- | 0.010 : 0.35 : 01 279 S 6923 1 Golden Maraot 1 Ftarmigan 1 trench chips 1 ----- 1 2m 0.013 : 0.08 1 MT 269 5 6924 1 Souden Harmot 1 Ptarmigan 1 trench chips 1 ---- 1 20 1 0.010 10 0.05 1 #1 209 S.6925 1 Golden Marwat 1 Ptarmigan 1 trench chips 1 ----- 1 1m 1 0.023 14 0.05 1 41 269 S 6925 1 Golden Marmot 1 Plarmigan 1 trench chips 1 ----- 1 2m 1 0.019 10 0.05 1 #7 269 - 5.6427 f Golden Marmot | Ptarmigan | trench chims / 2007 - 1.28 - 1. 6.628 (K. 6.05 / 1.1.278 -3 6929 | Bolden Harmot | Ptarmigen | trench chips | ----- | 2m | 0.018 |c 0.05 | 41 270 - 0.6931 1.601den Harmot 1.Ftarmigan 1.trench_htps://---///2# 1.0.609.1.0.20...#1.270. 5 5932 1 Golden Kerent i Htarmigan 1 trench chips 1 ----- 1 20 1 0.015 10 0.05 1 41 270 S 6933 1 Bolden Maraot 1 Ptarmigan 1 trench chips 1 ====== 1 im ==== 0.030 1 = 6.44 1 #T 272 S 6934 1 Golden Narsot 1 Ptarmigan 1 trench chigs 1 ----- 1 20 1 0.017 1 0.07 1 41 272 9 5935 1 Colden Hardot 1 Ptarmigan o trench chipo 1 ----- 1 2m ----- 1 0.013 (c. 0.05 1 #1 2/2 0.6736 1.601dem Marmot 1 Ftarm.gam 1 trench chips 1 ----- 1 2m 1 0.043 1 4.24 1 #7 277 - 3 e937 1 Obligen Haraot 1 Ptaraigus 1 trenen enium 1 merson - 1 La - - 6 - 0.013 (6 - 0.05 - 1 4E 273

1.6062 1.Golden Karmot 1.Kall - 1.reprietuss 1.000790 - 1.1m - 1.0.668 1. 0.23 1.0.vm S 6583 | Solden Marmot (Wall) - C repr. chips (000/90 - 1 20cm - 1 - 0.121 | - 0.54 | Vn wallry u só40 : Golden Marmot : Mali - 1 splect gram : 0u0/40 - 1 ? - 1 0.056 : 11.02 ; Wall vn (E) -6641 | Sciden Haraut | Wall i select grab 1 000/90 1 7. 1. 0.165 1 2.27 1 Wall vn (W) -S 6588 | Golden Harmot | Wall tranch chips 1 ----- 1 2.6m 1 0.075 1 0.15 1 #T 280 3 6689 : Solden Marsot i Hall i trench chips 1 ----- 1 2.5m 1 0.021 1 0.75 1 47 201 i S 6690-1 Golden Harmot (Hall trench chips ! ---- 1 2.5s 1 0.024 1 7.36 1 4T 281 5-6522 | Golden Marmot | Heasel | repr. chips |.007/90 | 3.5m | -0.121 | -23.14 | Q volts in ser-py shear S 6523 t Bolden Harmot I Heasel – I select grab ± 612/7 – t im – t - 0,013 t - 0,10 + @ yn

•

S 6567 | Golden Marmot | Weasel | | repr. chips | 017/74# | 4.3m | 0.020 | 0.17 | Shear near dyke

S 6569 | Golden Marmot | Weasel | | repr. chips | ----- | 10m | -0.033 | - 0.24 | Ser-py shear

5 4570 / Bulden Marmot : Measel : repr. chips : ----- : 10m : 0.110 : 0.23 : Ser-py shear

S 5568 : Golden Harmot | Weasel | repr. chips | ----- | 1.9m | 0.023 ! 0.10 | Altd rx between dykes

9,5513 | Hanging Glacier

- 5 4514 / Hanging Blacier -

S 6515 1 Hanging Blacier

5 6516 1 Hanging Glacier

S 6562 1 Hanging Glazier

S 6563 : Hanging Blacier

S 6564 1 Hanging Blacier

S 6565 I Hanging Blacier

S 6566 | Hanging Glacier

وأكبيهم والأراجي والمعاد والمراجع والمعاد والمعاد والمعاد والمعاد والمعاد والمعاد والمعاد والمعاد والمعاد والم

• •

1 repr. chips 1 010/52E 1 10cm Imissing Imissing 1 D-sph-cpy"

-1 selectograb 1 062/55N- 4 20-50cm-1. 0.025 K.... 0.05. 1-0-carb-py vno 39-1 082/655 1 10-50cm 14 0.005 14 0.05 1 Carb ym, no sulf-

TABLE B: JOSEPHINE ZONE' SAMPLE

S 6675 1 Josephine Zone

S 66% | | Josephine Ione |

9 5542 1 Josephine Lone

S 6623 1 Jusephine lone

5 6544 1 Josephine lone

9 6695 i Josephine Lone

S 6696 | Josephine Lone

S 6697 5 Jasephiae Lone

S 6698 | Josephine Zone

S 5699 1 Josephine Ione

AREA LOCATION

select grab 1 ---- 4n

select or ab

---- 2

select grab 1-050/7288 1 20' 1 0.019-1

select grab : 046/63N# 1 2-3a 1. 0.190 1

046/6888 1 2-3m 1

----- : 1+= : 0.010 :C

select grab _: 042/66NW 1 2-3# _ 1. -0.189 1 _,84.01 1 @-tt-py--

1 select grab : 042/66NW 1 2-3m - 1 - 0.024 1 - 4.17 - 1 Q-tt-py

select grab : 012/740 | 4m | 0.030 | 25.43 | 0-tt

select grab : 168/58# : 20cm - 1 _0.010 f _ 0.28 : 1 @-carb-cpy-gn-tt-py select grab : 076/64NW : 10-29cm 1 0.634 t - 25.95 ; Carb-gn-py-cpy-sph 1 select grab 1 015/75# 1 20-30cm 1 0.023 1 1.87 1 0-carb in shears select grab | 135/10NE | 10cm - | 0.022 | 1.62 | 0-carb-sph-gn-tt

ा सम्प्रां प्रार्थन हैं देखें

2 64597 4 98

DDH\$88 7284

DDH888-28 £ x36523~ DDH868-26

· · · · ·

•

\$6634 \$1633

* X *

. In the second
τ. ω. τ . Δ.	លនេ ពនាម ៧៥៦៧ភ្ញា	LASA SANPLES						PAGE 1
ingle of	BOLDEN INNIGS	CALM WING LLS	· ·		н н н			
• · · · · ·	• •	•	· ·	4 ° .	•	ASSAY RESUL	TS-opt	and the second sec
- SAPE NO.:	AREA LOLATION	: LUNE :	TYPE	A2/01P +	- 5701k	1 Au	Ag. 1	CJAHENTS.
5 6521 1	Golden Haraot	liet. 1	seiect grub i			1 0.627 1	0.65	Bipyrspä vn
5 6571 3	Bolden Harmot	l Leb l	repr. chaps	110/865W 1	10.	1 0.036 1C	0.05 1	Ser-py-9 shear
5 6572 1 5 6573 1	- Eolden Harmot - Solden Harmot	i Debi	repr. chips -	110/855W / 110/855W /	iùn	1 0.015 1	0.49	Ser-py-8 shear
S 6574 1	Golden Harmot	; Deb	repr. chips	110/855W 1	16 . -	1 0.007 1	0.18 1	Ser-py-9 shear
S 6575	Golden Haraot	l Deb 1	select grab	070-0847 : 140/9558 :	40 . 7.	: 0.009 (: 0.017 !	0,16 7	u poos in scear love G-ser-ov (weathered)
: ULCO E 5 663 1	- Solden harmot	Det :	repr. chips	070/6052 :	56	1 0.006 1	9,13 1	Q-ser-py (frash)
5 6635 1	Golden Harsot	Deb	talus randos			1 0,009 10	0.05	6HP-4+75a E 6HP-4+100a F
5 4634 5 5 4634 5	Solden Harmot	l Den	talus random			16 01005 16	0.05	BNP-4+1256 E
S 6658	Golden Harapt	1 Deb	talus random	•••••		0.011 14	0.05	649-4+150m E
· · · · · · · · · · · · · · · · · · ·	Bolden Harnot	1 Deb	trench chips		2 4 - 1 7 5	1, 0,000 10 0,005 10	0.74	41 264
. 5 6995 i 7 5 6996 i	: Solden Haraot : Solden Haraot	l Deb	trench chips		2	14 0.005 i	0.73 t	41 264
5 6947	Solden Harsot	1 Det	trench chips		, 28	1 0.005 1	0.26	1 41 5a4
5 6948	liggiden Harmot I Colden Harmot	i det Lich	trench chips trench chips		2# 5a	1 0.011 1	0.13	41 285
9 6953	Golden Harmot	: 0 90	treach chips		51	1 0.006 14	0.05	41 245
S 6576	l Golden Har aq t	r L Harmot	select grab		2.5.	1 0.956 1	0.32	[₽v#\$], j., b. p.v Samenv altr
S 6579	l Golden Haradt : Solden Haradt	: Baraot	repr. chios	; ;	- 4,₩ 111⊕	1 0.016 1	0.32	Silic rane
5 6602	6 Golden Haraqt	t Mareot	select grap	1 050/? 3	30c#	1 0.460 1	9.17	Gistgr 10-
5 6693	1 Golden Harmot	t 1 Marmot .	i finat grab	י הב אויילי י הפיז (פיוער י		1 0.013.1 ic 0.005 i	16,36	Bear we
5 6404	i Solden Marani 1 Solden Marani	t i narapt t i Narast	i repri cnips i select grab		1#	1- 0.211	0.09	Silic py material to the second
\$ 6613	: Golden Marsol	t i Marmot,	select grab	;	38 .	: 0.120 :	0.41	f Silic py in voic-chart by
S 6676	: Spiden Harmol : Spiden Harmol	t l'Harmot (l select grad	:]}7/855W ; : 138/825W ;	18. 1901 - 1	- ₹ 0.03Z ; - {< 0.005 }€	V.37 0.05	i u-sur-py in sources
5 6700	i bolden Harmon i Bolden Harmon	t i Naraot	l select grab	[[Soce	1 1.116 1	0,44	1 D-py bx
S 6950	601 den har an	t i Naraot	trench chips	; {	1.	1 0.029 1	9.51	1 41 282. 1
S 6951	1 Solden Marsol 1 Solden Marsol	t i Marmot E i Ptarminan	i select grab 1 repr. chios	: 103/79N	200	1 0.028 1	0.58	1 9-py vn 2
- 5 6519	: Solden Harmo	t i Ptarmigam	f repr. chips	1 676/685	- 1 # -	t 0.007 :	2.13	0 ve 1 / 1
8 6529	i Golden Harmo	t i Ptarmigan	repr. chips	1 080/655 1 493/9-1	Sec.	10 0.005 1	0.57	l Q yn 1 Carb-itechy ym
≤ / S 6580 ° 	1 Solden Maran 1 Golden Haran	t i Ptarmigan. t i Ptarmigan.	: repr. cnips 1 select grab	1 yas/dom	2	0.009	6.73	1 8-carb ve
\$ 4584	t Golden Har ao	t Ptarmigan	f repr. chips	1 068/88NN	: Sêca	: 0.034	1.48	i Ø-cgy-tt
9 4585	: Golden Harno	t i Ptarmigan i • • Ptarminan	; float grab f calart grab	1 040/82NN	<u>kommunia</u> 1.15e -	1 0.029 ;	1.93	t Q vns in sheer
5.6589	: Solden Harao	t î ftarmigan.	l repr. chips	: 034/90	1. BOC.	1 0.045 1	6.91	1 1 vn
S 8590) Golden Harmo	t'; Ptarnigaņ.	f repr. chips	1 090/82N	1-1-50	0.128	6.76. . 1 10	- O-py-tt va
S 6591	: Golden Marse : Aniden Marse	t i Ptarmigan. E i Plarmican.	i select grad i select grad	1 116/84NE	1 50cm	0.099	22.72	l G-py-cpy-tt-ga
\$ 6593	1 Golden Harmo	it I Ptarmigan	t select grab	1 050/72NW	80ce	1 0.017 t	4.19	+ O-py-cpy-tt-sph
\$ 6597	1 Golden Marag	t i Ftaraigan	l repr. thips	1 060/7288	1 30cm	1. 0.015 i	1.37	l Ser-ov is mailer
S 6548	: boiden har mo	it i Ptarmigan it i Ptarmigan	i select grab.	1 066768NW	1 50CB	0.459 1	14.15	l Q-carb vn sargin
5 6600	1 Solden Harmo	t 1 Ptarmigan	Frepr. chips	1 066/5884	50c#	1 0.027 1	1,93	f O-carb wi
S 6605	: Solden Marmo	nt Ptarmigan	i select grab	1 010/74W	1 10cm 1 7-3	1 0,005 1	2.19	i Vn sargin. I Massive II.ve
5 66V8 5 6607	i bolden Harmo	ot i rtarmigan ot i Ptarmigan	l repr. chips	1 144/76NE	1 0.75-1=	14 0.005 H	(ų. 0 5	1 9- py va
S 6408	: Golden Harmo	nt l'Armigan	i select grab	: 140/90	17	0.010 L	11.32	1- Banded & subcrop
S 6617	1 Golden Maren 1 Golden Maren	nt : Wessel	1 trench chips	· · · · · · · · · · · · · · · · · · ·	1,3a 1 7a .	1 0.025 L	0.50 0.74	1 #1 266 That 786
S 5619	t bolden Marmo	t i weasei	i trench chips		: 3a -	-16 0.005 L	0.07	1 41 264
S 6620	I Golden Har mo	it i Weasel	trench chips	·	: 3 e	1 0.027 :	0.72	1. 47 263A
5 6621	i bolden Marao 1 Guiden Marao	it 1 Weasel It 1 Weasel	i trench chips 1 trench chips	;	:548 341 -	6 0.047 1 0.025 1	V,24 U.13	1 41 2636
5 6523	i bulden Marmo	t Neaset	trench chipy	·	: 3	0.009 14	0.65	1 47 243B
5 6624	: Golden Marmo	t Weasel	I trench chips		3.	0.026 T	0.31	1 41 2638
5 5625 5 6639	 boiden Marao Eniden Marao 	it i Neasel It i Neasel	 trench chips trench chips 		: 3# 5#	0.027 1 1 0.065 F	0.60	i i 2638
5 6517	1 Golden Aarao	t no nase	repr. chips	1 04478VSE	2	t 0.005 t	1.35	t & stocket ?
5 6525 c 1571	1 Bolden Harmo	it i No name	l select grab	1 0287?	1 10	10.005 1	0.65	
5 5577	i Golden Marmo	n a ng name I i No-name	i select grad		200) 200)	1 0.015 1	0.00	: Argill, or graph, tuff
5 5585	: Colden Marmo	t i No name	: repr. chips	1 010/846	1.	0.023 1	0.00	19 va, minor py
- \$ 6587 e 1591	1 Solden Marmo	t : No name t : No name	l repr. chius	1 022/82W	: 30 cs	0.019 L 0.025 L	0.16	i β∼ργ vn
5 6595	i Golden Harmo	a i No name	i repri chips	- 1399 UV2W	1 10a	0.006	9.34	FØ-ser-py in shear in

NEWHAWK GOLD MINES LTD. ပာပ္စ THERE IS HEAD VENTORE . (*** jum HANGING GLACIER AREA **N** O GOLDEN MARMOT ZONE. 3 JOSEPHINE ZONE SAMPLE LOCATION MAP Anomalous Au >0.040 OPT o Anomalous Ag > 1.00 OPT ल्म 🔿 ZP A SALE AND (オマ) 🛱 Anomalous Au, Ag >0.040, 1.00 OPT

Escwina ivo 0133

0.05 | Ser-ov + tale

FIGURE NUMBER 6

ΟŻ DECEMBER 1988

.

14.75 : D-ser-py-tt stgr

2,84 | R-bar stgrs -

104.73 E Q-bar-tt-

53.65 - 1 9-bar-tt

0.05 | Q-ser-py waller.

0.05 | 9-ser py an #/8-tt-py

3.41 1 9-py, albor at ains

S 6601 | Golden Hareot | No name


				-
	Aligned And Angle angl			
		· · · · · · · · · · · · · · · · · · ·		
n an an an an an an an Arian an Arian An an				
	n Bernetter († 1990) Bernetter († 1990) Standard († 1990) Standard († 1990)			
			LEGEND	
			A HIGHLY ALTERED	
			INTRUSIVES	•
			Keratophyre dykes	- 1177 1777 - 1
			5 Syenite	
	Y		SP Syenu dorite Porphyry	
			DP Diorite Porphyry	u. – .
			Scourser AND VOICANICS	•
			Lower-Middle Jurassic	
			Wath Mixed clostic, epiclostic	
			With Volconie full Bressia	
			(a) andasite, (1) treckgandesite	
			Vg conglomerate	
	DP		15 Lower Sediments - serves read	
			가 가장해 이 있었다. 이 가장에는 이 같은 이 수 있다. 이 가장에게 가장 같은 다소가 가장 가장에 가지 않는다. 기억 이 방법은 것 이 가장에서 가지 것 같은 것은 것 같은 것 같은 것 같은 것 같은 것 같이 있다. 이 가장에 있는 것 같은 것 같	
- A			Geological boundary	<u> </u>
			Fault, approximate, assumed	
			1 Bedding	
			"I Foliation	
			Lineation	
بر ورسم مربع محمد مربع بر ایند است.			"y Joint	,
		A set of the	3hear	
3. VC19			A Outerop	
	32		Bo Barite vein	•
	Les JUP	10	Ag Tetrahadrite, orgentite, pyorgenite	
to hig spr	BAT	Bow I ut a?	Deser Rock assay somple	
10			A Edge of ice and snew	
1- Aa -	SPP	9	Cross section location	
	1 28		* Rock Assay Sample (1988)	
	N* \			
Be. 49 4.				
	- N.16	V16- a .		,
		14 J. S.		•
		il the		
/ / a c. / s	GE CE	OLOGICAL BRA		
9	A S	SPS STAUNT REP	ORT	· . •
C		A Rest		
•		from the	1	
		\bigcirc , \supset \bigcirc	198 JOSEPHINE ZONE RAMPLE	
· · · · · · · · · · · · ·			LOCATION MAP Figure No 7	
• •			NEWHAWK GOLD MINES ITO	
. •		•	WINES LID	
			MITCHELL SULPHURETS RIDGE	•
I ASSAY RESULTS-opt T I WIDTH I Au. Ag I	COMMENTS			• • •
1 1.50 1 0.309 1 41.77 1 1 48 1 0.026 1 14.75 f	Q-ser-tt-py stors Q-ser-py-tt stors	and a second	Project the 2152 Honey Descal Skeena	, Č
1 2m 1 0.006 15 0.05 1 1 50cm 1 0.009 1 2.84 1	0-ser-py zn #/0-tt-py 0-bar stors		NTS 1048:9E Yoldes 20	- 19-
1 1+0 1 0.010 ks 0.05 1 1 2p 1 0.019 1 3.41 1	Grannan allra Reggi gingr di mins		1 Print and a second	- <mark>- 4</mark> - 11
I 2-3a I 0.100 I 104.73 I I 2-3a I 0.190 I 53.65 I I 2-3a I 0.190 I 53.65 I	Brbar-Lt D-har-Lt D-tt-out		DRAWING 0158	*.2 .4
1 2 -3a 1 0.024 1 4.17	htt-main and a second			· · · · · · · · · · · · · · · · · · ·



	,			
				\$ 6580
• • •			1-287	
			36612 ×)	
			Í	
			1	T-276 //
		×		Marmot Zone
SHPL D	O.; ARBA LOCATION ; ZONB ; VIDTH ;	ASSAT RESULTS-opt ; Au Ag ; COMMENTS		
1 560 5 561 5 561 5 561 5 561 5 561	9 : Golden Harnot ; Ptarnigan ; 0.7-1m ; 9 : Golden Marnot ; Ptarnigan ; 10-20cm ; 2 : Golden Marnot ; Ptarnigan ; 40-50cm ; 4 : Golden Marnot ; Ptarnigan ; 1.5m ;	0.008 : 0.50 : Q-py va 0.005 : 0.37 : Q va in seds 0.018 : 1.57 : Yellow Q-py va 0.016 : 0.20 : Q-py-ser za	: t	
8 661 8 661 8 662 9 562	5 Golden Marmet ! Ptarnigan 80cm 8 Golden Marmet ! Ptarnigan 20cm 8 Golden Marmet ! Ptarnigan 50cm 9 Golden Marmet ! Ptarnigan 80cm 9 Golden Marmet ! Ptarnigan 80cm	0.019 : 0.86 : Q-py-sph-tt? va 0.024 : 0.48 : Q va w/abund py 0.013 : 0.61 : Q-ser-py is shear 0.005 : (0.05 : Q-carb va 0.005 : (0.05 : Q-carb va		
3 663 5 663 5 667 5 667	2 : Golden Harmot ; Ptarmigan ; 20cm 3 : Golden Marmot ; Ptarmigan ; 20cm 4 : Golden Marmot ; Ptarmigan ; ? 5 : Golden Marmot ; Ptarmigan ; 3m 7 : Golden Marmot ; Ptarmigan ; 3m	0.007 ; 0.08 ; Q vn w/Cu stain 0.018 ; 0.52 ; Q vn badly weathered 0.007 ; 0.05 ; \$T 273 4.814 ; 3.52 ; \$T 273		
8 667 8 667 8 668 8 668 8 668	8 : Golden Harmot : Ptarmigan : 2m 9 : Golden Harmot : Ptarmigan : 2.4m 9 : Golden Harmot : Ptarmigan : 4m 1 : Golden Harmot : Ptarmigan : 4m 1 : Golden Harmot : Ptarmigan : 3m	0.010 (0.05 ; \$T 274 0.015 ; 0.73 ; \$T 274 0.011 ; 0.10 ; \$T 279 0.018 ; 0.25 ; \$T 279		
3 661 3 661 1 661 1 661	2 : Gelden Harmot : Ptarmigan : 3n 3 : Golden Harmot : Ptarmigan : 3n 4 : Golden Harmot : Ptarmigan : 3n 5 : Golden Harmot : Ptarmigan : 3m	0.014 : 0.05 : #T 279 0.020 : 0.63 : #T 279 0.011 :< 0.05 : #T 277 0.005 :< 0.05 : #T 277		¥ 56525
J 661 J 661 J 692 J 692	6 : Golden Harnot ; Ptarnigan ; 3a 17 : Golden Marnot ; Ptarnigan ; 2n 13 : Golden Harnot ; Ptarnigan ; 2n 14 : Golden Harnot ; Ptarnigan ; 2n 15 : Golden Harnot ; Ptarnigan ; 2n	0.022 ; 0.41 ; FT 277 0.016 ; 0.35 ; FT 278 0.013 ; 0.08 ; FT 269 0.010 ; 0.05 ; FT 269 0.010 ; 0.05 ; FT 269		
8 652 8 651 8 651 8 651 8 651 8 651	15 : Golden Harnot ; Ftarnigan ; In 16 : Golden Harnot ; Ptarnigan ; Ze 17 : Golden Harnot ; Ptarnigan ; Zn 18 : Golden Harnot ; Ptarnigan ; Zn 19 : Golden Harnot ; Ptarnigan ; Zn 19 : Golden Harnot ; Ptarnigan ; Zn	0.015 ; (0.05 ; \$7 265 0.028 ; (0.05 ; \$7 270 0.010 ; (0.05 ; \$7 270 0.010 ; (0.05 ; \$7 270		
8 691 8 691 8 691 8 691 8 691	10 : Golden Marmot : Ptarmigan : 2m 31 : Golden Marmot : Ptarmigan : 2m 12 : Golden Marmot : Ptarmigan : 2m 13 : Golden Marmot : Ptarmigan : 1m	0.015 ; 0.12 ; #T 270 0.009 ; 0.20 ; #T 270 0.015 ;< 0.05 ; #T 270 0.030 ; 5.44 ; #T 272		
8 693 9 693 8 693 8 693 8 693	14 : Golden Harmot : Ptarnigan ; 2n 15 : Golden Harmot : Ptarnigan ; 2n 16 : Golden Harmot : Ptarnigan ; 2n 17 : Golden Harmot : Ptarnigan ; 2n	0.017 0.09 #T 272 0.013 < 0.05 #T 272 0.043 4.24 #T 272 0.013 < 0.05 #T 272		
9 631 9 651 4 . 8 651 9 654	18 : Golden Harmot ; Ptarmigan ; 2m 12 : Golden Harmot ; Vall : 1m 13 : Golden Harmot ; Vall : 20cm ; 18 : Golden Harmot ; Vall : ?	0.027 ; 1.87 ; #T 271 0.668 ; 0.23 ; Q vn 0.121 ; 0.54 ; Vn wellrx 0.056 ; 11.82 ; Vall vn (B) 0.145 ; 0.44 ; 0.54 ; 0.54 ; 0.55 ; 11.82 ; 0.55 ;		
8 661 8 661 8 661 8 661	11 ; Gelden Harnet ; Vall ? 18 ; Gelden Harnet ; Vall ? .6a 19 ; Gelden Harnet ; Vall ? .5a 19 ; Gelden Harnet ; Vall ? .5a 19 ; Gelden Harnet ; Vall ? .5a	U.105 ; T.27 ; WAIL VA (U) 9.015 ; 0.15 ; \$T 280 8.021 ; 0.75 ; \$T 281 0.024 ; T.36 ; \$T 281 8.121 ; 93 14 ; 4 units in the original	1.2 × 00°	
	La ; uuidam marmon ; Peasel ; 3.56 3 Galden Harmet ; Veasel ; 1n 4 Gelden Harmet ; Veasel ; 2n 57 Galden Harmet ; Veasel ; 4.5n 1 : Galden Harmet ; Maagal ; 1 in	0.013 ; 0.14 ; 0 vm 0.013 ; 0.10 ; 0 vm 0.020 ; 0.44 ; 0 vm in ser-py shears 0.020 ; 0.17 ; Shear mear dyke 0.023 : 0.18 : Altd ry between dyke		33.00
	ru ; uellen marnot ; reasel ; 1.38 59 ; Golden Marnot ; Veasel ; 10a 10 ; Golden Marnot ; Veasel ; 10a	0.033 ; 0.24 ; Ser-py shear 0.110 ; 0.23 ; Ser-py shear		N



.

		(MD) NU 1 1981 1941-610-	፣ ማስያው ፣ መካ	ASSAT I	RESULTS-opt	; ; ;	1.100 CO. 100
	: -	\$ 6521 ; Golden Harnot	; 2008 ; 0. ; Deb ; 4a	0.02	AE 7 0.66	, cumpsis 9-py-spk vz	77 × 19
		S 5571 ; Golden Harmot S 5572 ; Golden Harmot S 5573 ; Golden Harmot	; Deb ; 10 ; Deb ; 10 ; Beh ; 10	0.03 0.02	6;(0.05 1;0.40 5;0.40	; Ser-py-Q shear ; Ser-py-Q shear ! Ser-py-Q shear ! Ser-py-Q shear	
	: • •	S 6574 : Golden Marmot S 6575 : Golden Marmot	; Deb ; 100 ; Deb ; 100 ; Deb ; 400	E : 0.00 E : 0.00	7 : 0.18 9 : 0,16	; Ser-py-Q shear ; Ser-py-Q shear ; Q pods in shear some	t w suber
		S 6630 ; Golden Marmot S 6631 ; Golden Marmot	: Deb 28 : Deb 51	0.01	1 0.82 6 0.13	: Q-ser-py (weathered) : Q-ser-py (fresh)	1
	1	S 6635 : Golden Marmot S 6636 : Golden Marmot	Deb	- 0.00 - 0.00	9 :(0.05 6 :(0.05	; GMP-4+75s B ; GMP-4+100s B	
		S 6637 ; Golden Marmot S 6638 ; Golden Marmot S 6644 ; Golden Marmot	: ; Beb : ; ; Deb :	- : 0.00 - : 0.01	5 (C 0.05 1 (C 0.05 2 1 0.11	; GHP-4+1250 B ; GHP-4+1500 B * av 264	
		a pass ; Golden Harmot S 6945 ; Golden Harmot S 6946 ; Golden Marmot	, ver ; 2m ; Deb ; 2m ; Deb ; 2m	(0.03 (0.00	5 ; 0.74 5 ; 0.05 5 : 6 **	1 81 407 1 87 264 1 87 264	
		S 5947 ; Golden Harmot S 5947 ; Golden Harmot S 5948 ; Golden Harmot	Deb 2m	0.90 .01	9 0.26	; #T 264 ; #T 264	
		S 6952 ; Golden Marmet S 6953 ; Golden Marmet	Deb 5m Deb 5m	0.00	7 : 0.13 6 :< 0.05	; #T 265 ; #T 255	
		8 6578 ; Golden Marmot 8 6579 ; Golden Marmot	Harmot 2. Karmot 2m	5a 0.95 0.11	6 0.32 0 0.51	1 Q vas 1 Ser-py alta	
Set of the se		S 6535 ; Golden Harnot S 6602 ; Golden Harnot S 6601 ; Golden Harnot	Harmot 111	n ; 9.01 cn ; 0.46	6; 0.3Z 8; 9.17 3; 16.28	; Bilic Lone ; Q stgr Sa ; O.ar. th BC	NG TO
		S 6604 ; Golden Harmot S 6604 ; Golden Harmot	: Harmot : 2m : Harmot : 2m	- ; 0.01 { 0.00 : 0.21	5 0.56 1 1 0.99	A depy-th and A depy va A filie py material	
		S 6613 ; Golden Marnot S 6625 ; Golden Marnot	Haraot Ja Haraot Ja	0.12 0.03	0 . 0.41	; Silis py is volo-chort by ; Q-ser-py as is 140/758W shear	
		8 6627 ; Golden Harmot 8 6798 ; Golden Marmot	: Harmot : 400 : Harmot : 50 0	ca (0.98 m (1.11	5 {{ 0.05 6 } 0.44	; q-ser-py in shear ; q-py by	
SE D L D GI C A L BRANCH MIC B J D GI C A L BRANCH SOm 100 Dom 100		S 6950 ; Golden Harmot S 6951 ; Golden Harmot	Harmot la Harmot	0.02 - 0.02	• • • • • • • • • • • • • • • • • • •	HT 202 HT 282	
SEE D L D GI C A L BRANCH III Side kun I Kent Han I Kent		3 6519 ; Golden Harnot 8 6519 ; Golden Harnot 8 6529 ; Golden Harnot	; ; Ptarnigan ; 200 ; ; Ptarnigan ; 1a ; ; Ptarnigan ; 1a	DAD 7.94 0.90 0.90	•; •.48 7: <u>2.1</u> 3	8-17 VA 8 VB	10.11
International internatinterevents international international interna		S 6588 ; Golden Marnot S 6588 ; Golden Marnot S 6581 ; Golden Marnot	; Ptarnigan ; 200 ; Ptarnigan ; 400 ; Ptarnigan ; 7		- 1 - 7,97 1 - 96.91 9 - <u>6.</u> 93.4	Carb-tt-cyp ym.	C STORE
Image: State based Product Prod		S 5584 ; Golden Harnet S 5585 ; Golden Harnet	: Ptarnigan 500 Ptarnigan	C# ; ₿.83 - ; ₿.12	4 1.48 6 1.48	Q-ogy-tt Q flast	
Set of the start of partial is in the start of the s		S 5588 ; Golden Harnot S 5589 ; Golden Harnot	: Ptarmigam ; 150 ; Ptarmigam ; 800	n 8.42 cn 9.04	9 1.97 5 6.91	Q vas is show	
SE D L D G I C A L B R A N C H SI D LID BAR HENCH SI D LID BAR H		3 5530 ; Golden Harnot 9 5591 ; Golden Harnot 9 5591 ; Golden Harnot	; Ptarsigan ; 1-; ; Ptarsigan ; 590	1.5m ; \$.12 5m ; \$.\$\$	6 6.16 6 6.19	9-97-099 VB	
Image: State Stat	· · ·	S 6593 ; Golden Harnot S 6593 ; Golden Harnot S 6597 ; Golden Marnot	, rurnigan ; 306 ; Ptarnigan ; 306 ; Ptarnigan ; 306	un (0.02 un (0.02 un (0.01	+ i 44.17 + i 4.18 - i 1.37	4	
GEOLOGICAL BRANCH ASSESSMENT REPORT MERICAL BRANCH ASSESSMENT REPORT ASSESSMENT REPO		S 6534 : Golden Harnet S 6539 : Golden Harnet	l Ptarnigan 24 Ptarnigan 56	18	0 0.14 9 14.15	; for-pg in willes tooseb th soegin	
SEE D L D G J C A L B R A N C H SE S M E N T R E P O R T SE S M E N T R E P O R T		S 6600 ; Golden Harnot S 8605 ; Golden Harnot	: Ptarnigan 50 Ptarnigan 10	n 1.01	1 1.93 5 2.18	ta margin	
GEOLOGICAL BRANCH Som 100 Som 100 Som 100 Som 100 Som 100 South State St		3 5505 ; Golden Harnet 3 6697 ; Golden Harnet	Ptarnigan 2-1 Ptarnigan 8.1	la 0.00 5-1m { 0.00	5 14 0.06 5 14 0.05	i linasive (ve	
SEE 01: 0 G I C A L B R A N C H ME B: ALL LOGINGS : DATE HARD IN THE SET OF TH		• •••• * *••*** ä tte	, ruskalgan ; T	; 0.01	₩ 11.33	·	
GEOLOGICAL BRANCH ASSESSMENT REPORT NEWHAWK GOLD MINES LTD. SULPHURETS PROJECT ASSAY PLAN GOLDEN MARMOT ZONE SOM 100 SCALE: 12000 NTS. 104/B 8 & 9 DATE: November 1994 DATE: November 1994 DATE: Movember 199		3 6018 : Golden Harnot S 6619 : Golden Harnot S 6620 : Golden Harnot S 6620 : Golden Harnot S 6621 : Golden Harnot S 6622 : Golden Harnot S 6623 : Golden Harnot S 6625 : Golden Harnot S 6625 : Golden Harnot S 6617 : Golden Harnot S 6575 : Golden Harnot S 6577 : Golden Harnot S 6585 : Golden Harnot S 6591 : Golden Harnot	Vennel 3a Vennel <th>\$.00 \$ 0.02 \$ 0.</th> <th>3 0.34 5 0.93 7 0.54 5 0.13 6 0.31 7 0.66 8 0.13 7 0.56 8 0.13 7 0.66 8 0.13 7 0.66 8 0.12 5 0.46 5 0.40 5 0.40 5 0.40 5 0.40 5 0.40 6 0.40 7 0.46</th> <th>: #7 156 #7 1614 #7 1614 #7 1614 #7 1614 #7 1618 #7 1618 #7 1618 #7 1618 #7 1618 # 1</th> <th></th>	\$.00 \$ 0.02 \$ 0.	3 0.34 5 0.93 7 0.54 5 0.13 6 0.31 7 0.66 8 0.13 7 0.56 8 0.13 7 0.66 8 0.13 7 0.66 8 0.12 5 0.46 5 0.40 5 0.40 5 0.40 5 0.40 5 0.40 6 0.40 7 0.46	: #7 156 #7 1614 #7 1614 #7 1614 #7 1614 #7 1618 #7 1618 #7 1618 #7 1618 #7 1618 # 1	
GEOLOGICAL BRANCH ASSESSMENT REPORT			· ·		-		
NEWHAWK GOLD MINES LTD. SULPHURETS PROJECT ASSAY PLAN GOLDEN MARMOT ZONE 50m 100 FRURE NUMBER 9 SCALE: 12000 DATE: November 1994 DATE: November 1994 PLATE NO. DRAWN BY:	GEOLOGICA ASSESSMEN	L BRANC T REPOR	H T	B d to the ball of the second		6	
SOM 100 SOM 100 SCALE: 12000 DATE: November 1984 DATE: November 1984 DATE: Movember 1984	14	NEW	AWK	GOL	D M	INES LTD.	「たいない」には、
5 0m 100 SCALE: 1:2000 DATE: November 1984 DATE: November 1984 DRAWN BY: DRAWN BY: DRAWING NO.	X		A	SSAY	PLA	N second and the second s	
50m 100 FIGURE NUMBER 9 SCALE: 1:2000 DATE: November 1984 DRAWN BY: DRAWING NO. DRAWING NO.		G	OLDEN		RMOT	ZONE	A COLUMN TO A DESCRIPTION OF
SCALE: 1:2000 NTS. 104/B 8 & 9 DATE: November 1984 PLATE NO. DRAWN BY: DRAWING NO.	50m 100					FIGURE MUNBER 9	A TANK MAN
DRAWN BY:		SCALE: 1:2000		<u> </u>	NTS. 10	4/B 8 & 9	
DRAWING NO.		DRAME DV	Alt. to	2	PLATEN		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
		UNAWN BY:			UHAWING		

- 30

.]



		NUCLEAL BRANCH NUCLEAR STANCH
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Figure No 10
	1ANLT. ANXT, ANTF72QTZN, ANZN83QTSW9	SYZN 13 CNGL, CONG, PPGL AKSS 14 HELT AKZN 15 BLQT
۲	4 QTVN 10 5 SXVN 11 6 SYEN 12	ARGL CONTACT PDEP PPZN FAULT
	NEWHAWK GO	OLD MINES LTD.
	SULPHUR GOLDEN M	ARMOT AREA
	SPECIAL SEC	TION S88-280
16gn.12m. 8m. 4m. 0 20m.	40m SCALE: 1:500	ORIENTATION: 040° AZ (MINE GRID
DRAWING NUMBER 0104	DATE: DECEMBER 15, 1988	DRAWN BY:



	· · · · · · · · · · · · · · · · · · ·	
	r.a	Figure No. 11
	LEGI	
	1 ANLT, ANXT, ANTE 7 SY	ZN 13 CNGL CONG, PPGL
	2 QTZN, ANZN B AK 3 QTSW 9 AK	SS 14 HELT ZN 15 BLQT
		GL CONTACT
-	6 SYEN 12 PP	ZN SAULT
	NEWHAWK GO	LD MINES LTD.
	SULPHURE GOLDEN MA	RMOT AREA
	GEO	LOGY
	SPECIAL SEC	TION S88-281
16gn.12m. 5m. 4m. 0 20m. 40r	SCALE : 1:500	ORIENTATION: 060° 42, (MINE GRID)
DRAWING NUMBER 0105	DATE: DECEMBER 16, 1988	DRAWN BY:

•

3



	· ·	
		TO GICAL BRANCH
		Figure No. 12
	LEGE	
	1ANLT, ANXT, ANTF7SYZI2QTZN, ANZN8AKS3QTSW9AKZ	13 CNGL, CONG, PPGL 14 HELT 15 BLQT
	Image: 4 grvn 10 arg 5 SXVN 11 PPF 6 SYEN 12 PPZ	CONTACT
	NEWHAWK GOL	D MINES LTD.
	SULPHURET GOLDEN MAI	RMOT AREA
	SPECIAL SECT	ION S88-282
16gn.12m. 8m. 4m. 0 20m. 40m	SCALE : 1:500	ORIENTATION : 156° AZ (MINE GRID)
DRAWING NUMBER 0106	DATE: DECEMBER 16, 1988	DRAWN BY: Africe
		Inc

•



· · · ·				• • • •		GEOLOGICAL 3	RANCH
							ure No. 13
					1 ANLT, ANXT, ANTE	7 SYZN B AKSS	13 CNGL, CONG, PPGL
						9 AKZN 10 ARGL	15 BLQT
					5 SXVN 6 SYEN	11 PPFP 12 PPZN	∽∽∽ FAULT
			-		NEWHAWK	GOLD MINE	ES LTD.
					GOLDE	N MARMOT ARE	A (10)
			16an 12an 8an 4an 0	20-	SPECIAL S	SECTION S8	8-283
				DRAWING NUMBER 0107	SCALE : 1:500 DATE : DECEMBER 16,	ORIENTATION:	145° AZ/(MINE GRID)
	•	· ·	•		•	<u> </u> #	

•

.



÷0