ARIS SUMMARY SHEET

District Geologist, Smithers Off Confidential: 92.08.26

ASSESSMENT REPORT 21823 MINING DIVISION: Skeena

PROPERTY: Sulphurets
LOCATION: LAT 56 28 00 LONG 130 10 00
UTM 09 6258417 428116
NTS 104B08E

CAMP: 050 Stewart Camp

CLAIM(S): Red River 51
OPERATOR(S): Newhawk Gold Mines
AUTHOR(S): Visagie, D.A.
REPORT YEAR: 1991, 54 Pages
COMMODITIES
SEARCHED FOR: Gold,Silver
KEYWORDS: Triassic-Jurassic,Hazelton Group,Andesites,Lapilli tuffs
Crystal tuffs,Quartz veins,Electrum,Tetrahedrite
WORK
DONE: Drilling,Geochemical
DIAD 438.0 m 2 hole(s);BQ
SAMP 310 sample(s) ;AU,AG
RELATED
REPORTS: 17133,17166
MINFILE: 104B 118

DRILLING REPORT
BRUCESIDE 2 GROUP

SKEENA MINING DIVISION

Latitude 56°20'N
Longitude 130°10'W
NTS 104B/8

OWNER: Newhawk Gold Mines Ltd.
Granduc Mines Limited

OPERATOR: Newhawk Gold Mines Ltd.

REPORT BY: Dave Visagie, B.Sc.
October 15, 1991

SU91-410.12

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APPENDICES

1.0 INTRODUCTION

The Bruceside 2 Group is located within the "Golden Triangle" area of northwestern B.C. occurring 60 kilometres north of the village of Stewart. The Group is part of the larger Sulphurets property which is presently being evaluated by Newhawk Gold Mines and Granduc Mines under a joint venture agreement. The Sulphurets property hosts several bulk tonnage gold and/or copper deposits along with high grade gold/silver veins with the Bruceside 2 Group hosting several areas of bonanza grade gold/silver veins. It is underlain by Hazelton Group volcanics and volcaniclastics that have been intruded by plutons of sub-alkaline composition. Work on the property dates back to 1935 when copper-molybdenum mineralization was located in the vicinity of the Main Copper Zone. Since then it has had various exploration programs completed on it with the main development occurring in the vicinity of the West Zone, located at Brucejack Lake. As part of the 1991 work program two BQTK sized drill holes totalling 438.0 metres in length were drilled on the Shore Zone, an area of gold/silver mineralization. All of the core was split resulting in the taking of 310 core samples. The drilling was completed between August 15th and 25th, 1991. The results indicate that the Shore Zone contains en-echelon lenses of veining and stockwork in which gold and variable silver values occur.

2.0 LOCATION AND ACCESS

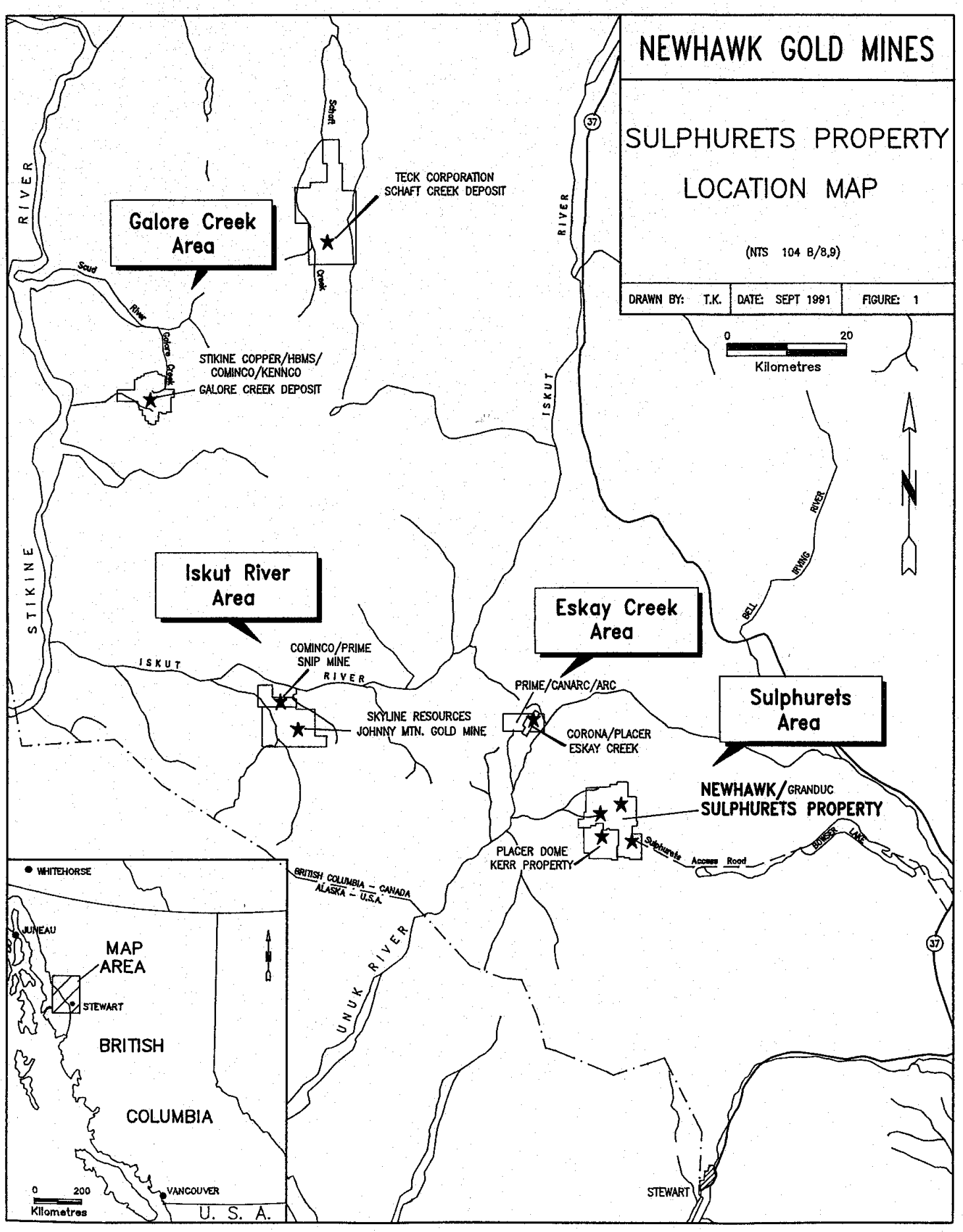
The property is located within the Coast Range mountains of northwestern B.C., some 60 kilometres northwest of the village of Stewart approximately 920 km northwest of Vancouver, B.C., being centred at 130° 10'W, 56° 28'N on NTS sheet 104B/8.

Access during the early summer is by helicopter from Stewart. During the later part of the summer, supplies were mobilized to the Tide Lake airstrip 35 kilometres south of the property and flown in using a helicopter. During major summer programs, access is by barge along Bowser Lake, then by road along the Bowser River with the final access to the camp being by tracked vehicle 16 km up the Knipple Glacier.

3.0 PHYSIOGRAPHY AND VEGETATION

The topography of the Sulphurets property is typical of the Coast Range Mountains with steep glaciated U-shaped valleys being the norm. Elevations range from 670 metres at the foot of Mitchell Glacier to in excess of 1830 metres on some of the mountain ranges. Extensive ice-fields are common throughout the property.

Winters tend to be severe with extensive snowfall and winds while summers tend to be cool and wet. Most of the snowfall occurs between mid-February and mid-April.


NEWHAWK GOLD MINES
SULPHURETS PROPERTY
LOCATION MAP
(NTS 104 B/8,9)
DRAWN BY: T.K.
DATE: SEPT 1991
FIGURE: 1
0 20
Kilometres
Galore Creek Area
TECK CORPORATION
SCHAFT CREEK DEPOSIT
STIKINE COPPER/HBMS/
COMINCO/KENNCO
GALORE CREEK DEPOSIT
Iskut River Area
COMINCO/PRIME
SNIP MINE
SKYLINE RESOURCES
JOHNNY MTN. GOLD MINE
Eskay Creek Area
PRIME/CANARC/ARC
CORONA/PLACER
ESKAY CREEK
Sulphurets Area
NEWHAWK/GRANDUC
SULPHURETS PROPERTY
PLACER DOME
KERR PROPERTY
Sulphurets Access Road
BOWSER LAKE
STEWART
STIKINE RIVER
ISKUT RIVER
UNUK RIVER
IRVING RIVER
BELL
Scud River
Scud Creek
Schaft Creek
37
WHITEHORSE
JUNEAU
MAP AREA
STEWART
BRITISH COLUMBIA
VANCOUVER
0 200
Kilometres
U. S. A.
BRITISH COLUMBIA - CANADA
ALASKA - U.S.A.

Vegetation throughout the property is varied with spruce and fir trees occurring at the lower elevations while lichens, mosses and scrub timber dominate the uplands.

4.0 PROPERTY HISTORY

Exploration in the area dates back to the 1880's when placer gold was located in Sulphurets Creek. In 1935, copper-molybdenum mineralization was located in the vicinity of the Main Copper showing. Until 1959 the property was intermittently evaluated. In 1959, gold and silver values were located in the Brucejack Lake area. Granduc Mines, as a result of this previous work, staked the main claim area in 1960. Follow-up work included an airborne magnetometer survey, a few ground follow-up magnetometer lines and reconnaissance geology. As a result, copper mineralization was located along the Mitchell-Sulphurets Ridge with gold and silver values were discovered at the base of the Iron Cap area.

In 1961, Granduc drilled 224 metres of packsack core in 32 holes at four locations to test the extent of the known copper showings. Additional prospecting resulted in the discovery of gold/silver mineralization in the Hanging Glacier area and molybdenite on the south side of Mitchell Glacier. In 1962, two diamond drill holes, totalling 611 metres in length, tested molybdenum mineralization in the Quartz Stockwork Zone. In 1968, Granduc drilled 1016 metres in six holes on the Main Copper Zone and mapped the area below the Hanging Glacier. In 1970, plane table mapping was carried out from the Hanging Glacier to the south edge of the Mitchell Glacier. Granduc in 1974/75 carried out bedrock geochemical sampling and geological reconnaissance and prospecting throughout much of the property.

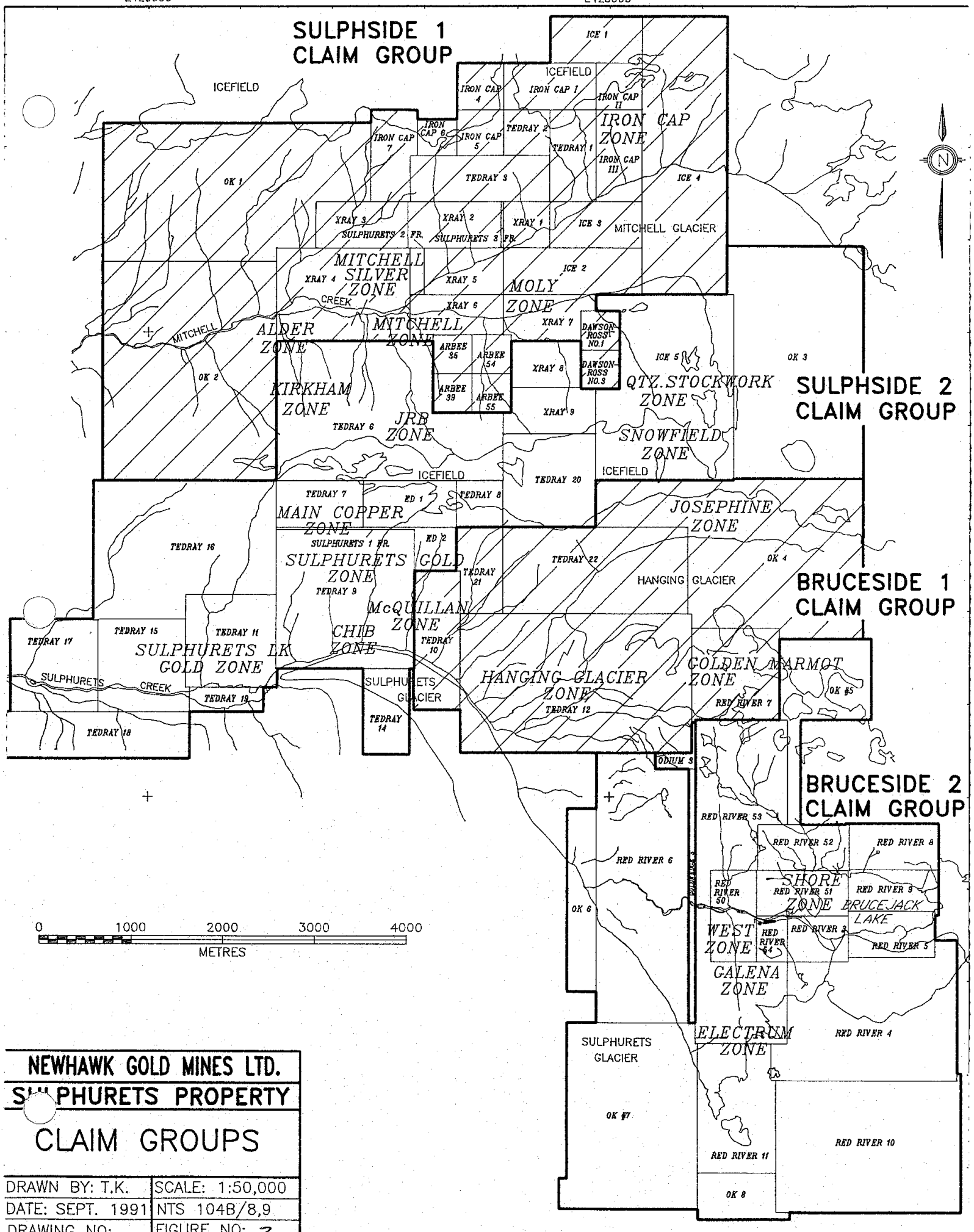
In 1980, Esso Minerals optioned the property from Granduc and subsequently completed between then and 1985, an extensive program consisting of mapping, trenching, geochemical sampling that resulted in the discovery of several showings including Snowfields, Shore, West and Galena. Esso surrendered its interest in 1985.

In 1985, Newhawk Gold Mines optioned the property from Granduc. Since then it has completed work on the Snowfields, Mitchell, Golden Marmot, Sulphurets Gold, Main Copper zones along with lesser known targets.

5.0 CLAIM STATUS

All claims comprising the Sulphurets property occur within the Skeena Mining Division. All claims are in good standing.

The property is held under a joint venture agreement between Granduc Mines Limited and Newhawk Gold Mines Ltd. with Newhawk acting as operator.



NEWHAWK GOLD MINES LTD.

SULPHURETS PROPERTY

CLAIM GROUPS

DRAWN BY: T.K.	SCALE: 1:50,000
DATE: SEPT. 1991	NTS 104B/8,9
DRAWING NO:	FIGURE NO: 2

For assessment purposes, the property has been divided into four groups; Sulphside 1, Sulphside 2, Bruceside 1 and Bruceside 2 with this report focusing on the Bruceside 2 Group:

BRUCESIDE 2 GROUP

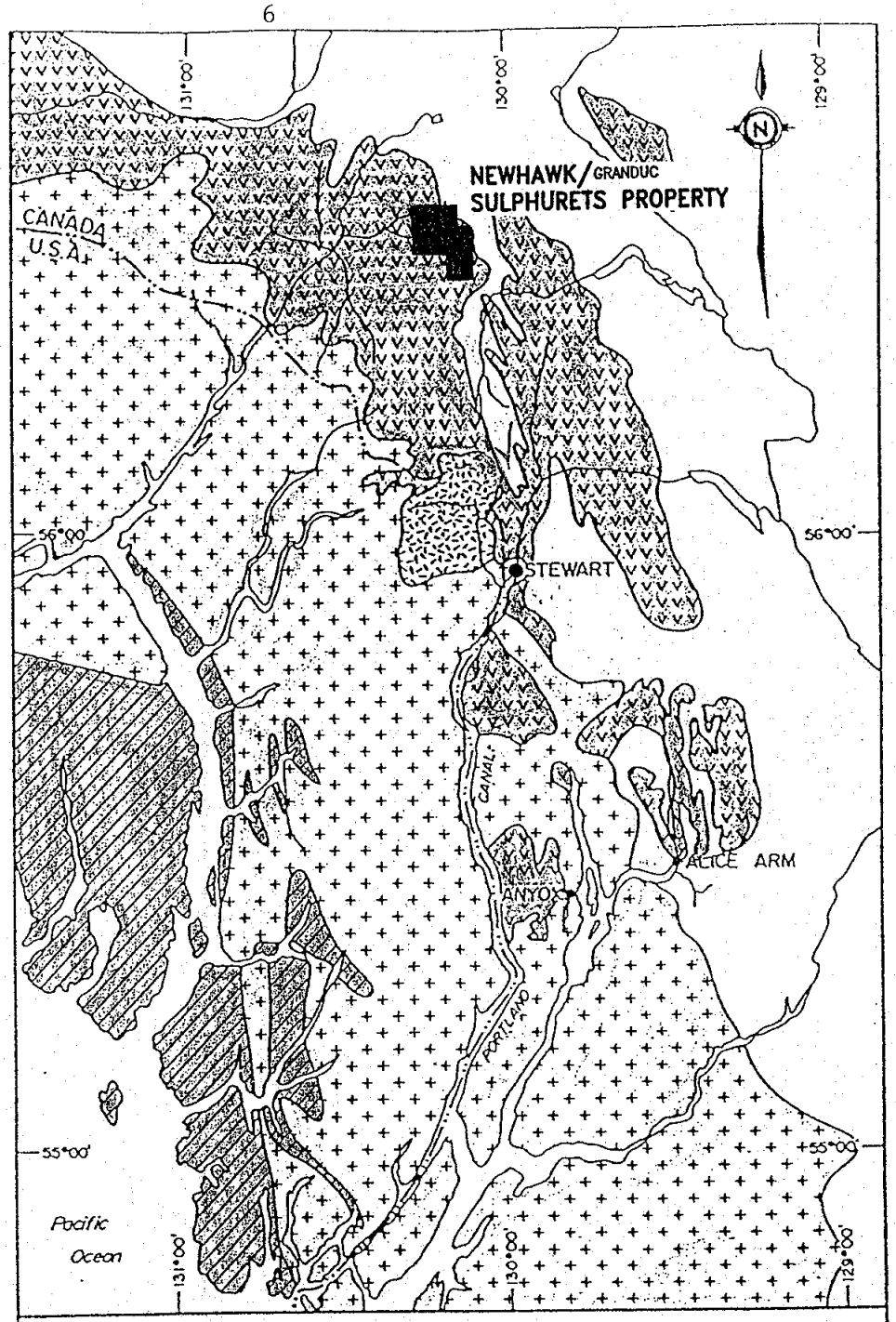
Name of Claim	Title Number	Number of Units
OK 5	5105	8
OK 6	5106	4
OK 7	5107	12
OK 8	5108	2
Red River 3	2556	2
Red River 4	2649	12
Red River 5	2650	2
Red River 6	3109	12
Red River 8	3236	2
Red River 9	3237	2
Red River 10	3516	12
Red River 11	3517	6
Red River 50	9000	2
Red River 51	9001	2
Red River 52	9002	2
Red River 53	9003	14
Red River 54	9004	1

6.0 REGIONAL GEOLOGY

The Sulphurets property is underlain by a thick sequence of Lower to Middle Jurassic volcanic and sedimentary rocks of the Hazelton Group that have been intruded by plutons of sub-alkaline composition. This complex has been folded and faulted and is now elongated in a northerly direction. It is bounded to the west by the Coast Crystalline complex and to the east by Bowser Basin sediments.

The oldest rocks on the property are Lower Sediments, reported to have a minimum thickness of 1500 metres, consisting mainly of argillites, siltstone and cherts along with minor amounts of wackes, arenites, tuffs and trachytes. Younger pyroclastic rocks, that range from fine tuff to breccias, are evidence of a major volcanic event in the area. These sometimes contain blocks greater than one metre in size and occur in a northerly trending elongate zone through the central part of the area. Most of the pyroclastics are of andesitic composition and have been subjected to varying degrees of alteration. These altered tuffs and breccias are host for most of the vein deposits in the Stewart area and are the most favourable host rocks on the Sulphurets property.

The Upper Sediments consist of an extensive sequence of black shales and argillites that are similar in character to the Lower Sediments.



LEGEND

- LOWER - MIDDLE JURASSIC BOWSER ASSEMBLAGE
- UPPER TRIASSIC - LOWER JURASSIC TAKLA & HAZELTON ASSEMBLAGE (STEWART COMPLEX)
- WRANGELL METAMORPHIC BELT (UNDEFINED AGE)
- UPPER TRIASSIC - LOWER JURASSIC TEXAS CREEK INTRUSION
- CRETACEOUS - TERTIARY COAST RANGE INTRUSIONS

REGIONAL GEOLOGY OF THE STEWART - ANYOX AREA

20 10 0 20 40 60 kilometres

Figure 3 (after Dykes et al, 1988)

The volcanic-sedimentary sequence is cut by numerous elongated, sub-parallel northerly trending, late stage intrusive plutons that are probably of Mid-Jurassic age. These intrusives range from diorite to granite in composition and appear to be sub-alkaline. The emplacement of these plutons appears to be related to faulting and associated intense alteration, sillicification and mineralization. Sericite and pyrite are the most abundant alteration minerals with other assemblages locally dominated by-feldspar, chlorite and propyllitic minerals. Some clay alteration minerals have also been recognized in the Brucejack Lake Zones. Porphyry copper-gold mineralization occurs in the northern and central parts of the property and is often associated with K-spar and sericitic alteration.

Structurally controlled gold/silver bearing veins occur mainly in volcanic rocks within one kilometre wide zones of intense predominantly sericitic alteration. The veins consist of quartz, minor calcite, and trace to 20% sulphide minerals. These range from simple single veins to complex vein zones and stockworks. Sulphides within these veins consist of pyrite, sphalerite, galena, tetrahedrite, electrum and chalcopyrite along with argentite, pyragerite and polybasite.

7.0 1991 WORK PROGRAM

As part of the evaluation of the Bruceside 2 Group, two BQTK drill holes totalling 438 metres were drilled. The drilling was completed by F. Boisvenu Drilling, Delta, B.C. using a JKS 300 drill. Newhawk's camp at Brucejack Lake was used for housing the crew. The mobilization of the drill to the sites of interest was completed using a chartered helicopter from Vancouver Island Helicopters. All assaying was completed by CDN Labs, Burnaby, B.C.

7.1 Drilling

Throughout the length of the drill program two ten hour shifts were employed daily to complete the holes. All sites were prepared by Boisvenu's crews. Upon completion of the drilling the collar was surveyed by Newhawk personnel.

The core was moved daily to the Brucejack campsite to be logged and split. In addition all samples were crushed and pulverized on site prior to being sent out for analysis. The drill core is presently stored at the Brucejack campsite. All drill logs are located in Appendix 1 while the sample results are listed in Appendix 2.

7.2 Assaying

All drill core was assayed for gold and silver by fire assay using a 1/2 assay ton subsample. The following is an outline of the procedure used for the preparation and analysis of the samples:

Samples dried (if necessary), crushed and split to give a 250-300 gram sample and pulverized to approximately -150 mesh, then rolled to ensure a homogenous sample.

For gold analysis a 1/2 assay ton is preconcentrated by conventional fire assay. The resulting Ag prill is digested in 3 ml 30% HNO_3, anything insoluble is dissolved using 3 ml concentrated HCl. The resulting solution is diluted to 10 ml and analyzed by atomic absorption. Each set of forty samples has one random duplicate and a certified assay standard.

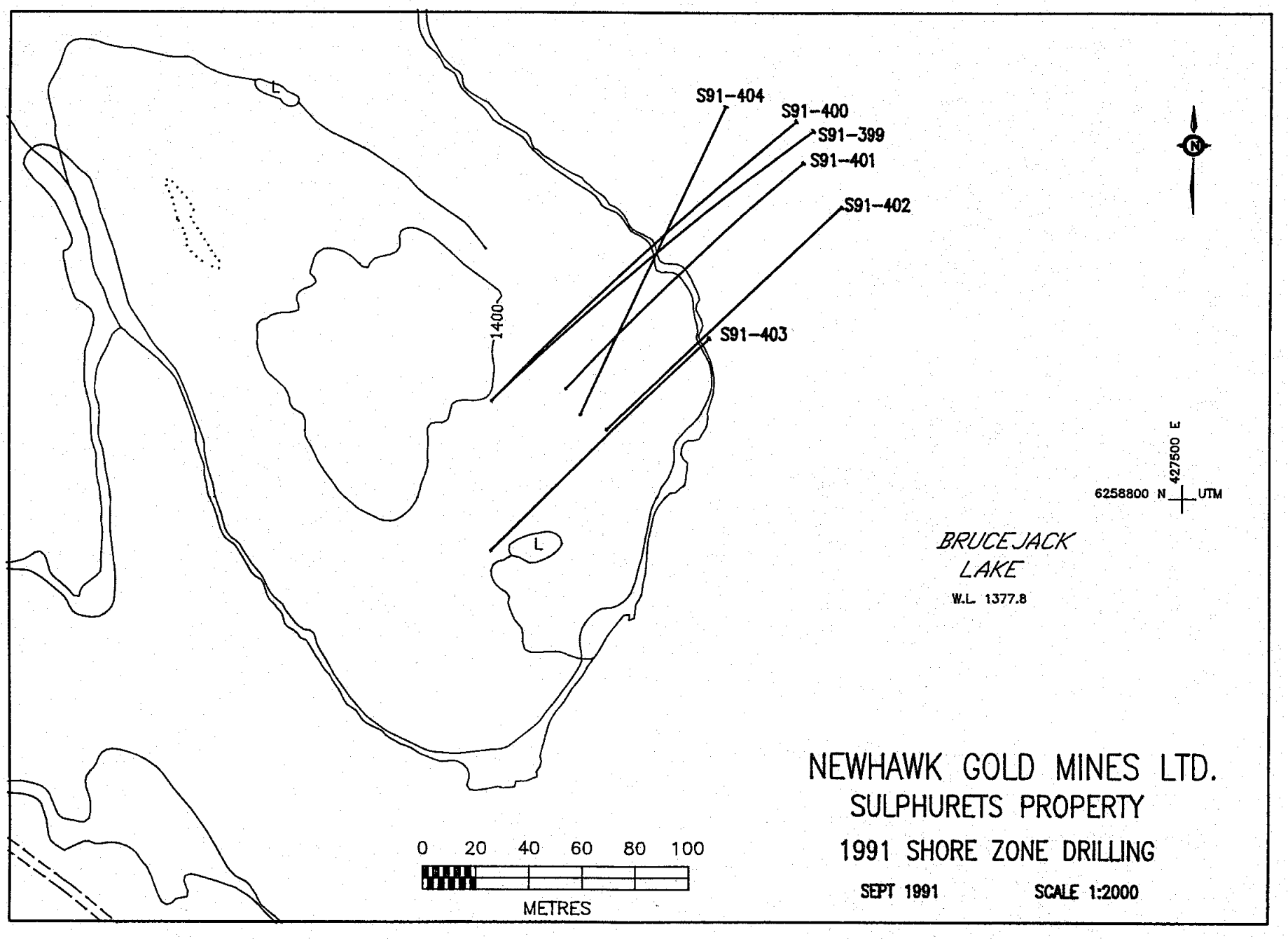
Any samples with a greater than one gram per tonne are re-run automatically to verify the first set of results and to determine if a nugget effect exists.

Samples having gold values exceeding five grams per tonne are normally re-cut from the reject and screened for "metallics".

For silver analysis a 2.0 gram sample is digested in 20 ml HNO_3 for 20 minutes or until all NO_3 fumes have disappeared. The digestion is then cooled, 10 ml HCl are added and digested for 30 minutes The digestion is again cooled and another 50 ml HCl are added and further digested for one hour. When this digestion has cooled to room temperature it is bulked to 200 ml mixed, centrifuged and analyzed by atomic absorption.

8.0 SHORE ZONE GEOLOGY

The Shore Zone is hosted by andesitic lapilli to crystal tuffs, agglomerates and breccias that have undergone intense alteration. The volcanics are thought to strike northerly and have a steep dip. Alteration consists of quartz-carbonate-sericite-pyrite in varying combinations and intensities. Mineralization consists of sphalerite, galena, chalcopyrite and electrum along with pervasive pyrite. The sulphides usually occur in association with a quartz-carbonate gangue although pyrite is found throughout the hosting andesites and sediments. In general they occur as stringers, patches, open space fillings and as disseminations. Analyses show the electrum to be made up of equal quantities of gold and silver. Previous drilling has shown the zone to be comprised of a series of en echelon lenses of quartz carbonate veins, stockwork, and breccias in which variable gold and silver values occur. The purpose of the 1991 drill program was to try to further delineate some of the known lenses at the eastern end of the zone. Six holes were drilled in the area of which two S91-399 and 400 are being submitted for assessment purposes.


S91-404
S91-400
S91-399
S91-401
S91-402
S91-403
1400
L
L
N
427500 E
6258800 N
UTM
BRUCE JACK
LAKE
W.L. 1377.8
0 20 40 60 80 100
METRES
NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY
1991 SHORE ZONE DRILLING
SEPT 1991
SCALE 1:2000

Both holes were located at the same collar and drilled on section to test the zone at two levels for continuity. The results show that between the holes there appears to be a good correlation in lithology. Both holes are moderately anomalous with the best values being associated with tetrahedrite. Tetrahedrite occurs as scattered disseminations within some of the veins. The best intersection 1.09 opt Au over 1.5 metres occurs within a quartz carbonate vein in which there is a 20 centimetre section that has 50% pyrite along with minor tetrahedrite.

9.0 SUMMARY AND CONCLUSIONS

The Shore Zone hosts several en echelon lenses of quartz carbonate veining, stockwork and breccia that contain variable amounts of pyrite, sphalerite, galena, chalcopyrite along with electrum. Within the zone extensive quartz-carbonate-sericite-pyrite alteration occurs. The purpose of the 1991 drilling was to define the continuity and grade of a lens located at the southern end of the zone. As a result two drill holes were drilled from one site on section. The results suggest that the lithology and mineralization can be in part correlated. Although the hosting lenses appear to continue at depth the grade appears to decrease. The best values occur in the upper hole where a 1.5 metre section averaged 1.09 opt Au. Silver values throughout the zone are generally low.

10.0 RECOMMENDATIONS

It is recommended that all of the 1991 data be incorporated with the previous work and that a series of sections and level plans be constructed to help define the size and nature of the lenses of mineralization. If there is a better understanding of the zone a drill plan is recommended that will test the continuity of the lenses.

11.0 COST STATEMENT - BRUCESIDE 2 GROUP

1. Labour (18 man-days) **Total: $ 3,579.00**

i) Dave Visagie (Project Geologist)
August 18-24
7 days @ $295/day

ii) Adrian Maarkus (Core Splitter)
August 18-24
7 days @ $137/day

iii) Stuart Rodway (Sample Prep)
August 18-25 (1/2)
4 days @ $137/day

2. Transportation **Total: $ 5,200.00**

a) Helicopter
i) 500 D
August 17 4 hrs
August 18 2 hrs
6 hrs x $750/hr $ 4,500.00

ii) Man Carrier
7 days @ $100/day $ 700.00

3. Room & Board **Total: $ 4,600.00**

i) Drillers: 7 days x 4 men 28 man-days
ii) Labour: See (1) Labour 18 man-days
46 man-days x $100/day $4,600.00

4. Consumables **Total: $ 500.00**
Office supplies, plastic & nylon bags, dymo, etc.

5. Communication **Total: $ 1,800.00**
Spacetel

6. Sample shipping, freighting of goods **Total: $ 250.00**

7. Expediting **Total: $ 500.00**

8. Drill cost **Total: $ 27,166.25**

i) 1000 ft @ $17/ft	$17,000.00
ii) 437 ft @ $18.75/ft	$ 8,193.75
iii) 40 standby @ $25/hr	$ 1,000.00
iv) 20 machine hrs @ $15/hr	$ 300.00
v) Tropari rental 1/4 x $1000/mo	$ 250.00
vi) Core boxes 65 boxes x $6.50/box	$ 422.50

9.	**Assaying** 310 samples Au/Ag x $9.50/sample	**Total:**	**$ 2,945.00**
10.	**Report** Includes drafting, typing, etc.	**Total:**	**$ 3,000.00**
	SUBTOTAL:		$ 49,540.25
12.	**Management Fee 10%**		**$ 4,954.03**
	TOTAL:		**$ 54,494.28**

12.0 STATEMENT OF QUALIFICATIONS

I, D.A. Visagie of 860 - 625 Howe Street, Vancouver, British Columbia, do hereby declare that:

1. I graduated from the University of British Columbia with a Bachelor of Science Degree, majoring in Geology, in 1976.

2. I have been steadily employed in the mining industry since then and have since January 1990 been employed by Northair Mines Ltd. as Senior Geologist.

3. The work undertaken on the Bruceside 2 Group was under my supervision.

Dated at Vancouver, British Columbia, this 15th day of October, 1991.

Dave Visagie

Appendix 1 Drill Logs

Newhawk Gold Mines Ltd.

Diamond Drill Hole Record

Project:

DEPTH	BEARING	DIP	SURVEY TYPE			
COLLAR	Grid 85 A3 45	-41	Compass	PROPERTY: Sulphurets Bruceside	LENGTH: 205.8 m (675')	HOLE NO.: S 91-399
117.4		-41	Acid	CLAIM: Red River 51	CORE SIZE: BQTK	SHEET NO. 1 of 13
205.8	54A3 94 Grid	-39	Tropari	LATITUDE:	RECOVERY: > 95%	LOGGED BY: D. Visagie
				DEPARTURE:	STARTED: August 18, 1991	SAMPLED BY: A. Markus
				ELEVATION:	COMPLETED: August 20, 1991	PURPOSE: Test Shore Zone

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	From	To	Alteration SIL.	ILLITE	CHLOR.	CARB.	Ser			Mineralization % Py	% Cp	% Ga	% Sp	% Gr		Assay Data Sample No.	From	To	Int	Au opt	Ag opt	Au check	Ag check	Cu %	Pb %	Zn %	Core Data RQD %	Run	Recovery %
0	6.0	QCBX	Quartz Carbonate Vein Breccia	0	6.0	S		W		W			5						7201	0	1.0	1.0	.006	.32							4.7	100
			HELT Host to an extensive QCBV																7202	1.0	2.0	1.0	.022	2.76	.022						7.6	100
			HELT - is pale grey green, elongate																7203	2.0	3.0	1.0	.010	.49							10.7	100
			pale grey medium grey pyritic or fine disseminated																7204	3.0	4.0	1.0	.006	.29							13.7	100
			fragments - siliceous weak ser alt																7205	4.0	5.0	1.0	.006	.29							16.8	100
			vuggy in part																7206	5.0	6.0	1.0	.006	.43							19.8	100
			preferred vein orientation @40° to ca																													
			fracturing @ 45° to ca																													
			from 32 - 4.0 core is leached																													
6.0	18.8	QCZn	Quartz Carbonate Vein Zone																													
			≈ 10% Quartz carbonate veining			S		W	W	W			5						7207	6.0	8.0	2.0	.018	.32	.016							
			in fine grained pale grey HELT			S		W	W	W			5						7208	8.0	10.0	2.0	.002	.19	.002							
			Matrix as above, Siliceous t/o			S		W	W	W			5						7209	10.0	12.0	2.0	.002	.23	.002							
			Veins variable to 10cm in width			S		W	M	W			10						7210	12.0	13.0	1.0	.004	.29	.004							
			fractures preferred orientation																7211	13	15.0	2.0	.006	.36	.004							
			ca 45-50° and @ 80°. Fractures																7212	15	17.0	2.0	.004	.19	.004							
			occ py lined, At 12.0 - 13.0																7213	17.0	18.8	1.8	.054	.15	.002							
			weak foliation @ 60° to ca																													
			veins generally in .5-2cm																													
			range interspersed erratically																													
			quartz veins generally barren																													
			Alteration pervasive																													
			[illegible] weak veinlets [illegible]																													

THE NORTHAIR GROUP

NEWHAWK GOLD MINES LTD.
Sulphurets Project

Drill Hole No. S 91-399

Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB		Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
188	22.5	QCVN	Quartz Carbonate Vein	18.8	25.5	S	W		W		Tr				7214	18.8	19.8	1.0	.006		.004		.20			22.9	100
			- white barren vein comprised primarily of												7215	19.8	20.8	1.0	.004		.004		.15			23.9	90
			quartz with minor carbonate. Contacts vein												7216	20.8	22.5	1.7	.002		.004		.20			28.9	100
			well rock (as above) veins toward																							32.0	100
			upper contacts are @ 10° Minor																							35.1	100
			chlorite within the vein																								
22.5	24.6	QCZn	Quartz Carbonate Vein Zone	22.5	24.6	S	m	W	W		5				7217	22.5	24.6	2.1	.008		.006		.19				
			≈ 15% quartz carbonate veining generally																								
			veins less than 5cm in HELT 5%																								
			fine grained disseminated py																								
			fractured as before																								
24.6	30.8	QCSW	Quartz Carbonate Stockwork Zone			M	m	W	W		5-10				7218	24.6	25.9	1.3	.054		.176		.68				
			≈ 20% veining in HELT			M	m	W	W		5				7219	25.9	26.9	1.0	.008		.008		.26				
			first 20 cm well mineralized with			m	m	W	W		5				7220	26.9	27.9	1.0	.002		.004		.15				
			30% py in stockwork well developed			m	m	W	W		5				7221	27.9	28.9	1.0	.002		.004		.22				
			@ 25.6 in 30 cm fault (lost core)			m	m	W	W		5				7222	28.9	29.9	1.0	.004		.002		.12				
			@ 55° to ca			m	m	W	W		5				7223	29.9	30.8	0.9	.004		.002		.35				
			fractures @ 30° to ca common																								
			minor black shiny sulphides																								
			disseminated in veins with pyrite																								
			preferred vein orientation @ 50°																								
			to ca																								
			2cm fault gouge @ 30.5 @ 90° to ca																								

THE NORTHAIR GROUP

NEWHAWK GOLD MINES LTD.
Sulphurets Project

Drill Hole No. 391-399

Page 3 of 13

Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB		Mineralization % Py	% Cp	% Mag	% Mo		Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
			@ 30.6 3cm qv @ 80° to ca 25% py																								
			last 30 cm of section is broken																								
308	347	QCVN	Quartz Carbonate ~~Vein~~ Zone			M	W	W	Alt		5																
			± 10% veining each in a fine grained													7224	30.1	32.8	2.0	.004		.010		.09				
			andesite tuff in which fragments of													7225	32.8	34.7	1.9	.006				.17				
			upto .5cm occur																								
			- pale green colored Pyrite occurs t/o																								
			as disseminations and small stringers																								
			lower contact sharp @ 45° to ca																								
347	362	QCBX	Quartz Carbonate Breccia			M	W	W	W		5					7226	34.7	36.2	1.5	.010				.39				
			Highly veined zone in which fragments																								
			upto 5cm in size of host occurs																								
			Sulphides occurs as disseminations t/o																								
362	392	QCVN	Quartz Carbonate ~~Vein~~ Zone			M	W	W	M/W		3-5					7227	36.2	38.1	1.6	.002				.09				
			as 30.6 - 34.7 carbonate lined													7228	38.1	39.6	1.5	.004				.10				
			- fractures common t/o occ chl: lined																								
			-																								

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NEWHAWK GOLD MINES LTD.
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Drill Hole No. 91-399

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB		Mineralization % Py	% Cp	% Mag	% Mo		Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %		Core Data RQD %	Run	Recovery %
39.6	40.1	QVSW	Quartz Vein Stockwork													7229	39.6	40.1	0.5	.002				.23					
			intensely vein/silicified section at least 35cm			S	W	W			5																	
			veins cutting @ 45° to ca Pyrite rich																										
			main vein																										
40.1	47.0	QCBX	Quartz Carbonate Zone			M	W	W	W		3					7230	40.1	42.1	2.0	<.002				.06					
			similar to 30.8-34.7													7231	42.1	44.1	2.0	.016				.07					
			veins generally barren													7232	44.1	45.6	1.5	.006				.04					
			pyrite found as to 3% fracture infill													7233	45.6	47.0	1.4	.006				.06					
			short section QVBx @ 45.0-45.30																										
47.0	47.5	QCVN	Quartz Carbonate Vein Zone													7234	47.0	47.5	0.5	.002				.01					
			-vein @ 10° to ca includes zone																										
			wall rock barren vein																										
47.5	50.3	QCBx	Quartz Carbonate Zone																										
			- similar to previous (30.8-34.7)								2					7235	47.5	49.5	2.0	.004				.18					
			- veining minor <10%ca													7236	49.5	50.3	0.8	.002				.03					
			- calcite infill host																										
			- fractures irregular with reference @ 70° to ca																										

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
50.3	51.6	QCSW	Quartz carb Vein Stockwork weakly to moderate developed sulphides adj to veins. Only py observed andesite tuff host new carb veins x-cut all other @ 15° to ca			M	W	W	M W	5				7237	50.3	51.6	1.3	.002				.15				
51.6																										
51.6	54.9	QCZn	Quartz Carbonate Zone ~ 10% veining with wk andesite tuff silicification			W	M	M	M	5				7238 7239	51.6 53.6	53.6 54.9	2.0 1.6	.006 .004				.20 .10				
54.9	56.1	QCSW	Quartz Carbonate Vein Stockwork large qz veins upto 5cm in thickness with 5% py in altered andesite tuff			W	M	M	M	5				7240	54.9	56.1	1.2	.006				.19				
56.1	62.1	QCZn	Quartz Carbonate Zone ~ 15-20% veining weak stockwork in andesitic tuff. Frags well silicified, pale greying green coloured, weak- mod silicification. Pyrite is as clumps and disseminations and stringers. Veins barren. Increasingly clastic in appearance with depth			W	M	M	M	5				7241 7242 7243	56.1 58.1 60.1	58.1 60.1 62.1	2.0 2.0 2.0	.004 .010 .006				.15 .10 .07				

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	Zn % Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
62.1	71.0	QCBr	Quartz Carbonate Stockwork Breccia	62.1	71.1	S	W	W	W	5				7244	62.1	63.1	1.0	.008				.18				
			Highly siliceous zone. Core is greenish colored											7245	63.1	64.1	"	.014				.20				
			to 64.3 then becomes greyish white											7246	64.1	65.1	"	.012				.20				
			colored. Intense stockwork t/o, late stage											7247	65.1	66.1	"	.014				.32				
			qtz calcite @ 40 & 60° to ca. Fragments											7248	66.1	67.1	"	.016				.81				
			upto 5 cm in size. 5% diss py									1		7249	67.1	68.1	"	.012				.41				
			within fragments Between 67.1 and 67.6											7250	68.1	69.1	"	.010				.26				
			the section has 1% ZnS in association											7251	69.1	70.1	"	.012				.44				
			with a fine grained black sulphide											7252	70.1	71.1	"	.010				.41				
71.1	78.1	QCSW	Quartz Carbonate Stockwork Breccia	71.1	78.1	S	W	Ŵ	M	5				7253	71.1	72.1	"	.012				.35				
		"	> 50% quartz carbonate veining within											7254	72.1	73.1	"	.010				.32				
			andesitic tuff veins are upto 5 cm in											7255	73.1	74.1	"	.010				.23				
			size less fragmental than above											7256	74.1	75.1	"	.008				.39				
			Sulphides within fragments generally											7257	75.1	76.1	"	.028				2.17				
			py tr sp occasional. Pinkish tinged											7258	76.1	77.1	"	.020				1.63				
			carbonate veining											7259	77.1	78.1	"	.014				.69				
78.1	86.5	QCZn	Quartz Carbonate zone ~~Vein~~			W	M	M	M	5				7260	78.1	80.1	"	.018				.50				
			≈ 20% veins in andesitic tuff matrix, pale											7261	80.1	82.1	"	.012				.34				
			grey colored, weak stockwork (bx) formed on											7262	82.1	84.1	"	.010				.32				
			occasion [illegible] veins @ 80° to ca and are											7263	84.1	85.1	1.0	.008				.20				
			barren. Py within andesites as fine																							
			dissem. Lower contact gradational																							
			(increasing alt) into vein																							

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
			From 84.1 - 85.1 is a short section of breccia											7264	85.1	86.4	1.3	.014				.61				
86.4	87.1	QCVN	Quartz Carbonate Vein white with pinkish tinge 5% disseminated py to disseminated sp, 1% disseminated fine grained black sulphide irregular contacts			S			M					7265	86.4	87.1	0.7	.012				.32				
87.1	91.2	QCSW	Quartz Carbonate Vein Stockwork ≈ 30% veining, occ pinkish tinged highly siliceous in part disseminated py to, minor sp @ 88.6 in a stringer. Preferred vein orientation @ 20° to ca. Minor short sections of brx. At 90.7 in a 3cm qz vein @ 5° to ca for 70cm			S	W		M	5				7266	87.1	88.1	1.0	.008				.38				
														7267	88.1	89.1	1.0	.012				.79				
														7268	89.1	90.1	1.0	.010				.61				
														7269	90.1	91.2	1.1	.010				.29				
91.2	92.1	QCVN	Quartz Carbonate Vein grey with lower contact @ 10° lower @ 10°			S			M					7270	91.2	92.1	0.9	.004				.12				

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
92.1	94.7	QCBx	Quartz Carbonate Zone			M	M	M	M	5				7271	92.1	93.6	1.5	.010				.31				
			≈ 30% veining, veins pinkish tinged											7272	93.6	94.7	1.1	.006				.15				
			minor fragments throughout weak																							
			remnant feldspar. Veins @ 70-80° to																							
			ca. Weak brecciation on occ																							
94.7	97.9	QCBx	Quartz Carbonate Bx			S	M	W	M	5				7273	94.7	95.7	1.0	.004				.10				
			- ≈ 80% veining with carb being											7274	95.7	96.7	1.0	.004				.10				
			pinkish tinged, Bx fragments											7275	96.7	97.9	1.2	.008				.37				
			upto 3cm. Py disseminations within frags																							
			minor within veins. Vein ⇒ massive																							
			on occ. At 96.3 1cm zone of																							
			10% py, 5% ZnS 1% Ga Contacts																							
			are broken irregular																							
97.9	109	QCSBx	Quartz Carbonate Stockwork			M	M	M	M	5-10				7276	97.9	99.4	1.5	.008				.27				
			-andesitic tuff host with											7277	99.4	100.4	1.0	.010				.19				
			larger fragments than previous upto 2cm											7278	100.4	101.2	0.8	.006				.10				
			5-10% pyr dissem throughout host											7279	101.2	102.2	1.0	.014				.29				
			stockwork occ formed. Pred											7280	102.2	103.8	1.8	.008				.20				
			veins @ 80° to ca. Minor py											7281	103.8	105.4	1.6	.010				.23				
			within veins along with occ											7282	105.4	107.0	1.6	.016				.18				
			fr ZnS & PbS. Veins comprise											7283	107	109	2.0	.0176				.35				
			50% of section with occ bx																							
			Carb occ pinkish tinged																							

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	NS	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
		QCVN	Zn S/Pbs bearing veins @ 101.2 102.9																								
109	112.8	QCVN	Quartz Carbonate Vein	109	112.8	W	S			tr					7284	109	111	2.0	.030				.41				
			-upper contact @ 45 lower @ 80												7285	111	112.8	1.8	.004				.18				
			-singular qz vein to py ~~tr~~																								
			-weak pinkish tinge																								
112.8	125.4	QCZN	QUARTZ CARBONATE STOCKWORK/MIN ZONE			S	M	M	M W	5																	
						S	"	"	"	5					7286	112.8	114.3	1.5	.008				.15				
			ANDESITIC TUFFS (LESS Fragmental than			"	"	"	"	~					287	114.3	115.8	1.5	<.002				.14				
			previous host a qz stockwork (approx												288	115.8	117.3	1.6	.008				.92				
			30-40% veining) w Pyrite disseminated												289	117.3	118.9	1.5	.004				.14				
			within host. Minor fuschite in one												290	118.9	120.4	1.5	.010				.09				
			spot located. Veins accessorily												291	120.4	121.9	1.5	.006				.12				
			pinkish tinged. Weak foliation @												292	121.9	123.4	1.5	.004				.12				
			70° to ca												293	123.4	125.4	2.0	.028				.15				
125.4	141.5	QCSW	Quartz-Carb Vein Stockwork \ Breccia (Shore Zone)			S	W	W	W	5					294	125.4	126.4	1	.008				.18				
			≈ 60° to qv in andesitic tuff matrix			S	W	W	W	S					295	126.4	127.4	"	.040				.18				
			veins at several angles total			3m	M	M	M	S					296	127.4	128.4	"	.010				.19				
			silicification in several areas			3m	W	W	W	S					297	128.4	129.4	"	.010				.24				
			pyrite predominant occurs in	fault		3m	M	W	M	S					298	129.4	130.4	"	.016				.56				
			both host and within veins			W	W	W	W	S					299	130.4	131.4	"	.010				.08				
			minor tr sp / ga the erratic			M	W	W	M	10				Tr	300	131.4	132.4	"	.022				.16				
			Py also forms as stringers			M	W	W	M	5					301	132.4	133.4	"	.014				.19				

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB		Mineralization % Py	% Cp	% Mag	% Mo	Sp	Assay Data Sample	From	To	Int	Au opt	check Au %	Au check	super Au check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
-	141.5		From 129.3 - 130.1 healed fault			S	m	W	m		10				Tr	7302	133.4	134.4	1.0	.012				.23				
			minor gouge on lower contact @ 45°			S	m	W	m		10				Tr	7303	134.4	135.4	1.0	.012				.36				
			On occ sulphide clasts are observed			S	M	M	M		10					7304	135.4	136.4	1.0	.302	.676	.230	.279	1.38				
			@ 136.9 2cm gouge zone			S	W	M	M		10					7305	136.4	137.4	1.0	.020				.34				
			From 137.2 to 140.6 the section is predominantly a brecciated quartz-calcite													7306	137.4	138.4	1.0	.010				.22				
			in which 5-10% py, Tr-½% asp, tr ga and													7307	138.4	139.4	1.0	.046				.55				
			tr fine grained black sulphides occur													7308	139.4	140.4	1.0	.014				.36				
			last 1m includes sil wall rock													7309	140.4	141.5	1.1	.030				3.46				
			with veining stopping @ 139.6																									
			lower contact of vein @ 45° while																									
			that of the sil adjacent veined wall																									
			rock is @ 50°																									
141.5	161.2		Andesite Tuff			m	W	M	M							7310	141.5	143.3	1.8	.028				1.63				
			-aphanitic, pale grey-green minor 5%													7311	143.3	145.4	2.1	.010				.20				
			calcite-quartz veining, veins erratically													7312	145.4	146.4	1.0	.076				1.86				
			distributed at various angles. Py occurs													7313	146.4	146.2	1.8	.016				.29				
			within the host as fine dissem and													7314	146.2	149.2	1.0	.016				.22				
			within the veins. Fracturing is ca. 70°/h													7315	149.2	151.2	1.1	.006				.12				
			ca. Pervasive carbalt																									
			@ 145.4 7cm qv @ 70 30% py																									
			145.9 10cm qv @ 70 5% py																									
			148.0 3cm qv veinlet @ 10 5% fg																									
			black sulphides																									

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Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	From	To	Alteration SIL	Alteration CHLOR	Alteration SER	Alteration CARB		Mineralization % Py	% Cp	% Mag	% Mo	tet	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Au screen check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
	161.2		appears foliated @ 75° to ca													7316	151.2	152.8	1.6	.010				.12				
			@ 153 - 30cm qtz carb vein 10% py													7317	152.8	154.7	1.9	.008				.47				
			py in adj wall rock													7318	154.7	156.7	2.0	.008				.20				
			@ 154.1 - 60cm zone of veining w/ 1% py													7319	156.2	158.2	2.0	.116		.082	.086	.20				
																7320	158.7	160	1.3	.008				.10				
			weak banding @ 60° to ca													7321	160	161.2	1.2	.018				1.40				
161.2	163.7	QCZn	Quartz Carb Vein - Stockwork Zone			S	M	W	M		5				tr	7322	161.2	162.2	1.0	.008				.42				
			30-50% veining forming stockwork set			S	M	W	M		5-10				tr	7323	162.2	163.7	1.5	.110			1.079	1.52				
			in the andesitic tuff. Highly silicified																									
			in part. Py distributed primarily																									
			in wall rock and fragments, frags																									
			upto 5cm in size. Minor																									
			tetrahedrite occurs in association with																									
			pyrite within the veins																									
			@ 163.6 is 10cm qv with 10% py + minor																									
			tet irregular																									
163.7	166.2	Ant	Andesite Tuff			M	S	M	M		5					7324	163.7	164.9	1.2	.016				.28				
			pale green, with grey bands													7325	164.9	166.2	1.3	.010				.10				
			aphanitic fragments up to .2 cm, banded @ 70°-80° to ca																									
			fine grained pyrite disseminated, has 10% py veining (irregular)																									

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Sulphurets Project

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB		Mineralization % Py	% Cp	% Mag	% Mo		Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
1662	170.8	ANLT	Andesite Lapilli Tuff	166.2	170.8	W	W	M	M		5-10					7326	166.2	167.1	0.9	.090		.086	.242	.26				
			fine grained grey with stretched frags													7327	167.1	168.5	1.4	.022				.23				
			up to 2 cm. Minor carb quartz veins													7328	168.5	170.9	2.4	.006				.09				
			dissem pyrite t/o foliated @ 70°																									
170.8	175.3	AnTf	Andesitic Tuff																									
			- fine grained greyish green colored				M	M	W		3-5					7329	170.9	173.9	3.0	<.002				.04				
			relatively massive <5% carb veins													7330	173.9	175.3	1.4	<.002				.03				
			fine grained pyrite dissem t/o																									
			lower contact @ 55° to ca																									
175.3	195	AnLT	Andesitic Lapilli Tuff																									
			Homogeneous sequence of pale greyish				M	M	W							7331	175.3	178.3	3	<.002				.04				
			green lapilli andesitic host in which fragments													7332	178.3	181.3	"	"				.03				
			up to 3 cm in size occur. Veining													7333	181.3	184.3	"	"				"				
			<5% pyrite is finely dissem t/o													7334	184.3	187.3	"	"				.04				
			bedding is @ 70°													7335	187.3	190.3	"	"				"				
			lower contact @ 50° to ca													7336	190.3	193.3	"	"				"				
																7337	193.3	195	1.7	"				.03				

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
195	197.6	And	Andesite tuff (Ash l.ff)	195	197.6		W	W	W	tr				7338	195.	197.6	2.6	<.002				.03				
			pale green, aphanitic with .1-.2cm size fragments, massive w general with minor carbonate veinlets																							
			non-mineralized lower contact @ 60°																							
														7339	197.6	200.6	3.0	.002				.06				
197.6	205.8	And	Andesitic Lapilli Tuff											7340	200.6	203.6	3.0	<.002				.03				
			as 175.3-195.6											7341	203.6	206.6	2.2	<.002				.03				
			205.8 EOH																							

Newhawk Gold Mines Ltd.

Diamond Drill Hole Record

Project:

DEPTH	BEARING	DIP	SURVEY TYPE	PROPERTY: BRUCESIDE	LENGTH: 232.2m	HOLE NO.: 91-400
COLLAR	-A3 45 Grid 55	-51	Compass	CLAIM: Red River 51	CORE SIZE: BQTK	SHEET NO. 1 of 15
-86.9m		-48	Acid	LATITUDE:	RECOVERY: 79.5	LOGGED BY: D. Visagie
187.5		-47	Acid	DEPARTURE:	STARTED: August 21, 1991	SAMPLED BY: D. Mankus
232.2	A3-47 MGrid 87	-46	Tropari	ELEVATION:	COMPLETED: August 23, 1991	PURPOSE: Test Shore Zone

Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL.	SER. ILLITE	CHLOR.	CARB.	Mineralization % Pyrt	% Cp	% Ga	% Sp	% Gr	Assay Data Sample No.	From	To	Int	Au opt	Ag opt	Au check	Ag check	Cu %	Pb %	Zn %	Core Data RQD %	Run	Recovery %
0	7.1	QCSW	QUARTZ CARBONATE STOCKWORK/Breccia			S	I	M	W	1					7342	0	1	1	.006			.32						
			Extensive lightly siliceous qtz stkwk. Veins												7343	1	2	1	.010			.49						
			at several orientations. Bx. fragments												7344	2	3	1	.008			.32						
			andesitic tuff are upto 1.5cm.												7345	3	4	1	.010			.76						
			Late stage re-cutting veinlets predom												7346	4	5	1	.006			.32						
			@ 70° to ca. Vuggy t/o. Fracturing												7347	5	6	1	.006			.20						
			@ 80 ± 50 weak limonite stained												7348	6	7.1	1.1	.004			.20						
			Pyrite occurs within fragments																									
			and on occasion within the																									
			veins. Minor black sulphides																									
			intermittent t/o																									
7.1	19.7	QCZn	Quartz-Carbonate Vein Zone			S	I	M	W	5-10					7349	7.1	9.1	2.0	.002			.36						
			- andesitic tuff: f/g pale green												7350	9.1	12.1	3.0	.002			.34						
			with pyritic blebs t/o. Weak												7351	12.1	14.1	2.0	.002			.29						
			carb veining ~5%. Carb												7352	14.1	16.1	2.0	.002			.23						
			veins @ 20° to ca. Minor												7353	16.1	17.8	1.3	.002			.50						
			limonite along fractures												7354	17.8	18.8	1.0	.004			.32						
			Pyritic frags are upto 1/2cm												7355	18.8	19.7	0.9	.006			.35						
			in size. Weak stkwk un-																									
			occ. last 2.3 m more																									
			stockwork in appearance																									

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Tel	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
19.7	21.1	QCVn	Quartz Carbonate Vein			S	W		M	5					7356	19.7	21.1	1.4	.012				.98				
			predominantly 1 vein with minor stockwk																								
			veins @ 45° to ca. Contains 5% py																								
			with the majority of it being located																								
			in the first 30cm. Fractures																								
			irregularly. Lower contact is gradational																								
21.1	26.2	QC2n	Quartz Carbonate Zone			M	W		M	5					7357	21.1	22.3	1.2	.014				.67				
			fine grained andesitic tuff in which 10-15%							1					7358	22.3	23.6	1.3	.004				.20				
			veining occurs. The andesitic tuff is												7359	23.6	24.8	1.2	.004				.14				
			as described previously. Minor stockwork												7360	24.8	26.2	1.4	.002				.17				
			+/- Preferred vein orientation is @																								
			70°. Veins generally barren. Py occurs																								
			within host																								
26.2	27.5	QC2n	Quartz Carbonate Stockwork			S	W		M	5				tr	7361	26.2	27.5	1.3	.004				1.37				
			-fine grained andesitic tuff similar as																								
			previously described in which 70% veining																								
			occurs. Fine grained pyrite generally																								
			more common in wallrock. Sp occ.																								
			have tr Zn S and minor tet disseminated																								
			throughout core																								
27.5	28.3	QC2n	Quartz Carbonate Zone												7362	27.5	28.3	0.8	.004				.54				
			As previously described																								

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB		Mineralization % Py	% Cp	% Mag	% Mo	tot	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
28.3	32.8	QCSW	Quartz Carbonate Stockwork fine grained andesitic matrix in which 30% quartz carb veining occurs Fractured @ 45° occ lined with limonite In first 70cm to dissem tet (fine grained black sulphide) occurs			S	W		M		5				tr	7363	28.3	29.3	1.0	.006				.73				
																7364	29.3	30.3	"	.002				.06				
																7365	30.3	31.3	"	.002				<.01				
																7366	31.3	32.8	1.5	.002				.12				
32.8	73.4	QCZn	Quartz Carbonate Zone			W	W		W		5-7				5	7367	32.8	34.3	1.5	.004				.01				
			± 5-10% veining in fine grained andesite tuff. Tuff is pale grey green with fragments up to 1cm Veins are erratically dispersed and are 1/2-1 cm in eye. Throughout py is sparsely distributed Fractures @ 45° @ 80° At 51.6 is a 60cm quartz carb vein @ 10° to ca with tr py								5					7368	34.3	35.8	1.5	.002				<.01				
											5					7369	35.8	37.3	1.5	.006				"				
											1					7370	37.3	38.8	1.5	"				"				
											1					7371	38.8	40.3	1.5	.002				"				
											1					7372	40.3	41.8	1.5	"				"				
											1					7373	41.8	43.3	"	"				"				
											1					7374	43.3	44.8	"	.020				"				
											1					7375	44.8	46.3	"	.004				"				
											1					7376	41.3	47.8	"	.002				<.01				
											1					7377	47.8	49.3	"	.006				<.01				
											1					7378	49.3	50.8	"	.004				"				
											1					7379	50.8	51.6	0.8	.004				"				
						M	W	I	M		Tr					7380	51.6	52.2	0.6	.006				"				
											1					7381	52.2	53.7	1.5	.002				"				
			From			M	W		M		5					7382	53.7	55.6	1.9	.002				"				
			Q-C stkwk			M	W		M		5					7383	55.6	56.8	1.2	.022				"				
			weak stkwk			M	W		M		2					7384	56.8	57.6	0.8	.010				.03				

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
										Tr				7385	57.6	59.1	1.5	.004				<.01				
										1				7386	59.1	60.6	"	.002				<.01				
										3				7387	60.6	62.1	"	.002				.03				
										3				7388	62.1	63.6	"	.002				.03				"
										1				7389	63.6	65.1	"	.002				<.01				
			From 65.6 - 68.1 // to ca vn & g-c.v.			W			M	1				7390	65.1	66.6	"	.002				"				
			with a weak pinkish tinge barren			W			M	1				7391	66.6	68.1	"	.001				"				
										1				7392	68.1	69.6	"	.002				"				
										1				7393	69.6	71.1	"	.001				.03				
										1				7394	71.1	72.6	"	.002				.01				
														7395	72.6	73.4	0.8	.001				.01				
73.4	76.0	QCSW	Quartz Carbonate Stockwork			S	M	W	M	3-5				7396	73.4	74.4	1.0	.002				<.01				
			≈ 30-40% veining in andesitic lapilli											7397	74.4	76.0	1.6	.003				.35				
			vein: @ variable orientations																							
			py both in host and in veins																							
			traces of black sulphides																							
76.0	77.5	QCZn	Quartz Carbonate Zone			W	M	W		1				7398	76.0	77.5		.002				.03				
			· as previous																							
			· ≈ 10% veining																							

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	tet	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
77.5	84.7	QCBx	Quartz Carbonate Breccia			M	M		M	+-	1				7399	77.5	78.5	1.0	.012				.90				
			Highly veined ≈ 80 with in andesitic tuff						M						7400	78.5	79.5	"	.008				.03				
			(as previously described) Stockwork form												7401	79.5	80.5	"	.006				<.01				
			fragments with fragments being upto												7402	80.5	81.5	"	.008				<.01				
			3cm. Pyrite variably disseminated &												7403	81.5	82.5	"	.008				<.01				
			in generally <2% +/o. Minor +- tet												7404	82.5	83.5	"	.007				<.01				
			and sp. Fracturing @ 45° rough linied.												7405	83.5	84.7	1.2	.014				.35				
			Gradational contacts. From 81.3-																								
			81.9 in qc vein																								
84.7	85.7	QCBx	Quartz Carbonate Zone			M	W		M		1				7406	84.7	85.7	1.0	.016				.45				
			Andesitic tuff with 20% veins @																								
			80° minor tension gash fillings																								
85.7	88.7	QCBx	Quartz Carbonate Breccia Stockwork Zone			S	W		M		5				7407	85.7	87.1	1.4	.010				.87				
			Andesitic tuff in which a well developed												7408	87.1	88.7	1.6	.012				.48				
			stockwork is formed. Carbonate veins																								
			are pinkish tinged and are generally																								
			banded. In last 50 cm more																								
			intense becoming a brx																								

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
88.7	90.8	QCZ	Quartz Carbonate Zone			W	W		M					7409	88.7	90.8	2.1	.012				<.01				
			10% veins in andesitic tuff																							
			veins tend to be calcite dominant																							
			pyr occ disseminated, Frags upto .1cm																							
90.8	93.4	QCV	Quartz Carbonate Vein			M	W		W	T				7410	90.8	92.3	1.5	.004				<.01				
			Upper contact @ 30° to ca, large											7411	92.3	93.4	1.1	.004				<.01				
			vein in part breccia (last 1m																							
			carbonate vein has frags of wall rock																							
			(up to 3cm) that contain 5% py																							
			stockwork dominated section has																							
			disseminated py within the veins and																							
			frags																							
93.4	100.2	QCZ	Quartz Carbonate Zone			M	W		M	2			6	7412	93.4	95.0	1.6	.004				"				
			similar to previous in part											7413	95.0	96.0	1.0	.016				.15				
			approaches stkwk											7414	96.0	97.0	1.0	.010				.06				
			veins appear to be barren											7415	97.0	98.5	1.5	.009				.16				
														7416	98.5	100.2	1.7	.007				.23				
100.2	106.3	QCSW	Quartz Carbonate Stockwork			M	M		M	2				7417	100.2	101.7	1.5	.008				.03				
			- aphanitic andesitic groundmass											7418	101.7	103.2	1.5	.008				.35				
			in which 50% veining occurs											7419	103.2	104.7	2.5	.013				.36				
			veins generally barren											7420	104.7	106.3	1.6	.013				.70				

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB		Mineralization % Py	% Cp	% Mag	% Mo		Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
106.3	112.8	QFP	Quartz Carbonate Breccia			S	M		M		1					7421	106.3	107.3	1.0	.008				.20				
			pervasive well developed zone includes													7422	107.3	108.3	"	.004				.16				
			stockwork fragments are upto 3cm in													7423	108.3	109.3	"	.004				.11				
			size. Sulphides consist of tr-2%													7424	109.3	110.3	"	.004				.28				
			disseminated pyrite found generally with the													7425	110.3	111.3	"	.003				.06				
			host tuffs. Minor pink calcite													7426	111.3	112.8	1.5	.002				.17				
			within the stockwork - gradational																									
			contacts																									
112.8	118.3	QCTz	Quartz Carbonate Zone			M	M		S M		1					7427	112.8	114.3	1.5	.005				.45				
			Andesite tuff in which 20% carb-quartz													7428	114.3	115.8	1.5	.008				.29				
			veining occurs. Veins barren, weak													7429	115.8	117.3	1.5	.013				.48				
			pinkish tinge. Py confined to andesite													7430	117.3	118.3	0.8	.006				.40				
			host occurs as disseminations and veinlets																									
			Preferred orientations @ 80° to ca.																									
			gradational contacts																									
118.3	121.0	QCVn	Quartz Calcite Vein			S	W		S		1																	
			large vein and associated stockwork													7431	118.3	119.3	1.2	.006				.26				
			contains fragments of wall rock													7432	119.3	120.0	1.5	.004				.10				
			that has 5% py vein has																									
			to py																									

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
121	121.8	QCZn	Quartz Carbonate Zone			M	M		M					7433	121.0	121.8	0.8	.002				.12				
			Andesitic tuff with 10% veining																							
			contains 1% py in blebs within																							
			andesite, lower contact @ 45																							
121.8	123.4	QCBr	~~Brec~~ Quartz Carbonate ~~Hydrothermal~~ stockwork			S	M		M					7434	121.8	123.5	1.7	.012				1.21				
			Breccia												121.8	123.5	1.7									
			- Andesitic tuff host ≈ 70% veining																							
			fragments are up to 2cm																							
			fine dusty py. At 123.0 is																							
			20cm of vuggy veining.																							
123.5	125.9	QCZn	Quartz Carb Vein			S	m		S	+				7435	123.5	124.5	1.0	.005				.22				
			- singular barren vein, minor wall											7436	124.5	125.9	1.4	.004				.15				
			rock fragments within vein.																							
			- upper contact contains wall rock																							
			fragments																							
125.9	136.3	QCZn	Quartz Carbonate Zone			M	M	W	M	5				7437	125.9	126.9	1	.011				.37				
			≈ 20% veining generally weak											7438	126.9	127.9	"	.004				.33				
			stkwk in andesitic tuff											7439	127.9	128.9	"	.004				.46				
			host, disseminated blebs of py											7440	128.9	129.9	"	.003				.15				
			occur f/o host Tuffs											7441	129.9	130.9	"	.001				.07				
			chaotic in appearance on occ											7442	130.9	131.9	"	.001				.11				

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Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	From	To	Alteration: SIL	CHLOR	SER	CARB		Mineralization: % Py	% Cp	% Mag	% Mo		Assay Data: Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data: RQD %	Run	Recovery %
			veins in general are <2cm													7443	131.9	132.9	1.0	.002				.39				
			wide. Veins tend to be													7444	132.9	133.9	1.0	<.001				.12				
			barren and are in part erratic													7445	133.9	134.9	1.0	.003				.22				
			in orientation.													7446	134.9	135.7	0.8	.004				.19				
135.7	140.4	QcBx	Quartz Carbonate Stockwork Breccia (SZ)?			S	M	W	M		5					7447	135.7	137.2	1.5	.004				.55				
			Intensely brecciated with frags upto 3cm													7448	137.2	138.2	1.0	.012				.19				
			highly silicified t/o veins form erratic													7449	138.2	139.2	1.0	.009				.09				
			stockwork t/o. Fractures @ 45°. Andesitic													7450	139.2	140.4	1.2	.007				.16				
			tuff matrix From 138.3 - end																									
			intense stockwork.																									
			Throughout py is commonly found																									
			as fine dustings. Minor tet																									
			located in vein @ 139.3.																									
			Grey colored quartz common t/o																									
140.4	144.4	QCZn	Quartz Carbonate Zone																									
			fine grained pale green colored 5%			M	M	W	M		5					7181	140.4	142.4	2.0	.002				.09				
			veining Veins 1-2cm wide													7182	142.4	144.4	2.0	.010				.25				
			generally unidirectional @ 45°																									
			~~from~~ @ 143.3 - is 40 cm fault gouge																									
			Pyrite occurs as disseminated splotches																									
			t/o. Occ weak stockwork, formed																									
			highly fractured t/o.																									

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	tot	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
141.4	150.9	QCSW	Quartz Carb Stockwork			M/S	M	W	S/M																		
			Andesitic tuff matrix variably altered in which an extensive zone of quartz carb stockwork veining occurs. Sulp is content variable to 5%																								
			Clay altered sections form pale green & white speckled sections																								
			144.4-145.0 Q.V. - Tr py to tot pinkish tinge			M/S	M	W	S	3				Tr	7183	144.4	145.0	0.6	.006				.29				
			145.0-146.0 stkwk mod clay alt			M	M	M	M	5				Tr	7184	145.0	146.0	1.0	.004				.23				
			146.0-147.0 " " " "			S	M	M	S	5				Tr	7185	146.0	147.0	1.0	.002				.41				
			147.0-148.0 " " " "			S	M	M	M	3					7186	147.0	148.2	1.2	<.002				.03				
			148.0-149.2 " " " "			S	M	M	S	3					7187	148.2	149.2	1.0	.001				.20				
			149.2-150.2 weak stkwk			S	W	W	S/W	5					7188	149.2	150.2	1.0	.006				2.28				
			150.2-151.2 stkwk mod clay alt			S	W	M	W	5				Tr	7189	150.2	151.3	1.1	.006				4.90				
150.9	~~157.3~~ 158.8	QCSW	Quartz Carb Stockwork fine grained pale ~~green~~ grey andesitic matrix very minor fragmentation Cherty in spots. Siliceous. Moderate stkwk developed 1/6 with veins tending to be banded. Py occurs 1/6 as disseminations and stringers and fracture fillings	150.9	158.8	S	M	W	S/M	1-5																	

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	tot	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
			151.8-152.9: weak stkwk - clasty			S	W		M-W	S				tr	7190	151.9	152.9	1.16	.010				.41				
			152.9-153.9: weak stwk - clasty			S	W		W	3-5					7191	152.9	153.9	1.0	.004				.20				
			153.9-154.9: 20% stkwk			S	W		M	5-7					7192	153.9	154.9	"	.004				.10				
			154.9-155.9: weak stkwk			S				3					7193	154.9	155.9	"	.002				.12				
			155.9-157.3: 25% stkwk			S			M	8-10					7194	155.9	157.3	1.4	.004				.31				
157.3	160.3	QCVn	Quartz Carbonate Vein | Stockwork																								
			parallel vein stockwork																								
			preferred orientation @ 50-80° toca					S																			
																		0.8									
			157.3-158.3: 50% vein			S			M	tr					7195	157.3	158.3	1.0	.004				.10				
			158.3-159.1: 60% vein			S			M	3					7196	158.3	159.1	0.8	.006				.10				
			159.1: mislatch lost 1m core			S	W		M	20					7197	19.1	160.3	1.2	.006				.20				40
			891.1-160.3:							10																	
160.3	169.9	QCSW	Quartz Carbonate ~~vein~~ | Stockwork																								
			Well developed or occ																								
			andesite tuff (lg pale gray) host																								
			in which 50-70% veining occurs																								
			includes sections that are only																								
			weakly veined																								
			160.3-161.4: well developed stkwk			S	M		M	2				T-	7198	160.3	161.4	1.1	.006				.35				
			161.4-162.4 mod stkwk with host			S	M		M	5					7199	161.4	162.4	1.1	.012				.49				
			tuffs having py																								

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Sulphurets Project

Drill Hole No. S91-400

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB		Mineralization % Py	% Cp	% Mag	% Mo	t-/	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
			162.4-163.4: WK stkwk tr dissem py			S	M		W		5-10					20401	162.4	163.4	1.0	.008				.58				
			163.4-164.9: strong stkwk possible banded			S	M		M		5				tr	20402	163.4	164.9	1.5	.006				.12				
			minor tet dusty py																									
164.9	171.6	QCZn	Quartz Carbonate Zone			W		M	W		5-10					20403	164.9	166.9	2.0	.013				.15				
			QSP altered andesite tuff that hosts			W	W	M	W		"					20404	166.9	167.9	1.0	.008				.19				
			≈10% qcv. Pyrite dissem 20. Unit			W	W	M	M		"					20405	167.9	169	1.1	.043				.21				
			pale grey green colored. At 168			M	M	M			"					20406	169.	170	1.0	.009				.26				
			// to ca for 1.3 m is carb-q			W		M	m		"					20407	170	171	1.0	.008				.13				
			vein. ~~The~~ From 169-169.6 the unit			W	W	M	W		"					20408	171	171.7	0.7	.003				.37				
			is pale green colored								"																	
			At 169.8 is a 20cm qv@ 60° to ca																									
			that is barren																									
			Veins oriented @ 60° to ca																									
171.6	175.2	QCSW	Quartz Carbonate Stockwork																									
			weakly developed,			M			M		5					20409	171.7	172.5	0.9	.006				.14				
			fine grained pale grey green, - light			M	m		m		5				tr	20410	172.5	173.5	1.0	.009				.14				
			green, contains 30% q-c veins			S			M		5					20411	173.5	174.2	.7	.480				3.19				
			Py dissem in host rare in veins			S	M		M		5					20412	174.2	175.2	1.0	.009				.22				
			large vein @173.5- 70cm with 5%																									
			pyr tr tet contacts irreg																									
			@174.6 30cm stkwk tr																									
			tet																									

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THE NORTHAIR GROUP

NEWHAWK GOLD MINES LTD.
Sulphurets Project

Drill Hole No. 91-460

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
177.2	177.4	QCZa	Quartz Carbonate Zone			S	W	M	W	10				20413	177.2	177.4	2.2	.004				.13				
			5% veining in a fine grained																							
			light grey pyritic sericite quartz																							
			altered andesitic tuff. Py finely																							
			disem +/o. Weak stkwk or occ																							
			somewhat mottled possible remnant																							
			fiamme																							
177.4	180.0	QCVn	Quartz Carbonate Vein																							
			-large vein @ 45° to ca in part																							
			~~fracture~~ contains fragments and is											20414	177.4	178.4	1	.014				1.40				
			chloritized. Frags are of hosting											20415	178.4	179.4	1	.018				2.78				
			andesite and are upto 3cm in											20416	179.4	180.0	0.6	.009				.77				
			size. Tr disem py +/o																							
180.0	188.6	QCZa	Quartz Carbonate Vein Zone											20417	180.0	182.9	2.9	.003				.17				
			Fine grained QSP altered andesitic											20418	182.9	185.8	2.9	.016				.79				
			tuff with short Lapilli tuff section											20419	185.8	188.6	2.8	.001				.05				
			veining is med tension gash																							
			style Foliation well developed																							
			@ 50° to ca. To 181.4 veining																							
			ca is ≈ 20% of section																							

THE NORTHAIR GROUP

NEWHAWK GOLD MINES LTD.
Sulphurets Project

Drill Hole No. 591-400

Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
188.6	197.4	ANLT	Andesite Lapilli Tuff			W	W	M	W					20420	188.6	190.6	2	.001				.01				
			Fine grained grey dark grey matrix w/											20421	190.6	193.6	3	"				.02				
18'			white fragments upto 3-4 cm occur.											20422	193.6	196.6	3	"				.03				
			The fragments are typically angular											20423	196.6	197.4	0.8	"				.04				
			and are paler in color. Weak																							
			to mod chlorite alt throughout																							
			Veining, <5%, Minor dissem of																							
			pyrite occurs throughout																							
197.4	207.4	Andt	Andesite Tuff			W	W	M	W	5				20424	197.4	199.4	2	.1				.02				
			fine grained grey colored pyritic, occ							5				20425	199.4	201.4	2	"				.02				
			chloritized. Fine grained pyrite 1%							5				20426	201.4	203.4	2	"				.03				
			occ short sections of from 201.7-204.4							10				20427	203.4	205.8	2.4	"				.03				
			of Lapilli tuff. Weak bandy 45-60°							-																
			to ca. Veining is minor <5%																							
			and tends to 60 erratic calcite																							
			fracture fills. At 197.1 m short																							
			5 cm fault gouge section																							
										5				20428	205.8	207.6	1.8	"				.02				
			From 205.8-207.6 lapilli tuff							5				20429	207.6	209.6	2.0	<.001				.03				
			207.6-end Quartz-sericite Pyrite							20				20430	209.6	211.6	2.0	.001				.04				
			andesite tuff							20				20431	211.6	213.6	2.0	<.001				.03				
			veining almost absent foliation							5				20432	213.6	215.6	2.0	.001				.03				
			@ 60° to ca							5				20433	215.6	217.6	2.0	"				.02				
										5				20434	217.6	219.6	2.0	.002				.01				

THE NORTHAIR GROUP

NEWHAWK GOLD MINES LTD.
Sulphurets Project

Drill Hole No. 591-400

Page 15 of 15

Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
227.4	232	And lt	Andesite lap. lt. tuff			w	w	w	w					20435	219.6	221.6	2.0	.003				.61				
			similar to previous											20436	221.6	223.6	2.0	.004				.61				
			minor veining, tr py gradational											20437	223.6	225.6	2.0	.002				.61				
			upper contact											20438	225.6	227.4	1.8	.001				.61				
			- section from 229.7 - 230.9 chloritized																							
			pale green color											20439	227.4	229.7	2.3	.001				.62				
			@ 231.6 5cm fault gouge											20440	229.7	230.9	1.2	.001				.61				
														20441	230.9	233.2	2.3	.001				.62				
			233.2 EOH																							

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*** ASSAY REPORT ***

Appendix 2 Assay Results

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91123
Date: August 29, 1990
Proj.: Bruceside 2

Attn: D. Visagie

	Au oz/ton	Ag oz/ton
7201	0.006	0.32
7202	0.022	2.76
7203	0.010	0.49
7204	0.006	0.23
7205	0.006	0.29
7206	0.006	0.43
7207	0.018	0.32
7208	0.002	0.19
7209	0.002	0.23
7210	0.004	0.29
7211	0.006	0.36
7212	0.004	0.19
7213	0.054	0.15
7214	0.006	0.20
7215	0.004	0.15
7216	0.002	0.20
7217	0.008	0.19
7218	0.054	0.68
7219	0.008	0.26
7220	0.002	0.15
7221	0.002	0.22
7222	0.004	0.12
7223	0.004	0.35
7224	0.004	0.09
7225	0.006	0.17
7226	0.010	0.39
7227	0.002	0.09
7228	0.004	0.10
7229	0.002	0.23
7230	<0.002	0.06
7231	0.016	0.07
7232	0.006	0.04
7233	0.006	0.06
7234	0.002	0.01
7235	0.004	0.18
7236	0.002	0.03
7237	0.002	0.15
7238	0.006	0.20
7239	0.004	0.10
7240	0.006	0.19

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*** ASSAY REPORT ***

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Attn: D. Visagie

Number: 91123
Date: August 29, 1990
Proj.: Bruceside

	Au oz/ton	Ag oz/ton
7241	0.004	0.15
7242	0.010	0.10
7243	0.006	0.07
7244	0.008	0.15
7245	0.014	0.20
7246	0.012	0.20
7247	0.014	0.32
7248	0.016	0.51
7249	0.012	0.41
7250	0.010	0.26
7251	0.012	0.44
7252	0.010	0.41
7253	0.012	0.35
54	0.010	0.32
55	0.010	0.23
7256	0.008	0.39
7257	0.028	2.17
7258	0.020	1.63
7259	0.014	0.69
7260	0.018	0.50
7261	0.012	0.34
7262	0.010	0.32
7263	0.008	0.20
7264	0.014	0.61
7265	0.012	0.32
7266	0.008	0.38
7267	0.012	0.79
7268	0.010	0.61
7269	0.010	0.29
7270	0.004	0.12
7271	0.010	0.31
7272	0.006	0.15
7273	0.004	0.10
7274	0.004	0.40
7275	0.008	0.37
7276	0.008	0.27
7277	0.010	0.19
7278	0.006	0.10
7279	0.014	0.29
80	0.008	0.20

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*** ASSAY REPORT ***

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91123
Date: August 29, 1990
Proj.: Bruceside

Attn: D. Visagie

	Au oz/ton	Ag oz/ton
7281	0.010	0.23
7282	0.016	0.18
7283	0.020	0.35
7284	0.030	0.41
7285	0.004	0.18
7286	0.008	0.15
7287	<0.002	0.14
7288	0.008	0.92
7289	0.004	0.14
7290	0.010	0.09
7291	0.006	0.12
7292	0.004	0.12
7293	0.028	0.15
7294	0.008	0.18
7295	0.040	0.18
7296	0.010	0.19
7297	0.010	0.28
7298	0.016	0.50
7299	0.010	0.08
7300	0.022	0.16
7301	0.018	0.19
7302	0.012	0.23
7303	0.012	0.36
7304	0.302	1.38
7305	0.020	0.34
7306	0.010	0.22
7307	0.046	0.55
7308	0.014	0.36
7309	0.030	3.46
7310	0.028	1.63
7311	0.010	0.20
7312	0.076	1.86
7313	0.016	0.29
7314	0.016	0.22
7315	0.006	0.12
7316	0.010	0.12
7317	0.008	0.47
7318	0.008	0.20
7319	0.146	0.20
7320	0.008	0.10

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*** ASSAY REPORT ***

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91123
Date: August 29, 1990
Proj.: Bruceside

Attn: D. Visagie

	Au oz/ton	Ag oz/ton
7321	0.018	1.40
7322	0.008	0.42
7323	1.100	1.52
7324	0.016	0.28
7325	0.010	0.10
7326	0.090	0.26
7327	0.022	0.23
7328	0.006	0.09
7329	<0.002	0.04
7330	<0.002	0.03
7331	<0.002	0.04
7332	<0.002	0.03
7333	<0.002	0.03
7334	<0.002	0.04
7335	<0.002	0.04
7336	<0.002	0.04
7337	<0.002	0.03
7338	<0.002	0.03
7339	0.002	0.06
7340	<0.002	0.03
7341	<0.002	0.03

The samples whose assays are reported above were received as pulps. When received, they were mixed by rolling and then fire assayed for Au using a one-half assay ton sample. Ag assay was by a mixed acid digestion and AA finish.

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*** ASSAY REPORT ***

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Attn: D. Visagie

Number: 91123-R
Date: August 29, 1990
Proj.: Bruceside

	Au oz/ton	Au oz/ton	Au oz/ton
REASSAYS			
7202	0.022		
7207	0.016		
7208	0.002		
7209	0.002		
7210	0.004		
7211	0.004		
7212	0.004		
7213	0.004	0.002	
7214	0.004		
7215	0.004		
7216	0.004		
7217	0.006		
7218	0.176		
7219	0.008		
7220	0.004		
7221	0.004		
7222	0.002		
7223	0.002		
7224	0.010		
7304	0.230	0.676	0.279 **
7319	0.082	0.086 **	
7323	1.079 **		
7326	0.086	0.242 **	

The assays reported above are reassays of pulps received and reported on Assay Report #91123. These reassays are fire assays using a one-half assay ton sample. Those numbers marked with a double asterisk (**) were obtained from fire assays using the "metallics assay" with a 100 mesh sieve.

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** ASSAY REPORT **

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91130
Date: September 8, 1990
Proj.: Bruceside

Attn: D. Visagie

	Au oz/ton	Ag oz/ton	Reassay Au oz/ton	Reassay Ag oz/ton
7181	0.002	0.09		
7182	0.010	0.25	0.004	
7183	0.006	0.29		
7184	0.004	0.23		
7185	0.002	0.41		
7186	<0.002	0.03		
7187	0.001	0.20		
7188	0.006	2.28		
7189	0.006	4.90		
7190	0.010	0.41		
7191	0.004	0.20		
7192	0.004	0.10		
7193	0.002	0.12		
7194	0.004	0.31		
7195	0.004	0.10		
7196	0.006	0.10		
7197	0.006	0.20		
7198	0.006	0.35		
7199	0.012	0.49		
7342	0.006	0.32		0.32
7343	0.010	0.49		
7344	0.008	0.32	0.008	
7345	0.010	0.76		
7346	0.006	0.32		
7347	0.006	0.20		
7348	0.004	0.20		
7349	0.002	0.36		
7350	0.002	0.34		
7351	0.002	0.25		
7352	0.002	0.23		
7353	0.002	0.50		
7354	0.004	0.32		
7355	0.006	0.35		
7356	0.012	0.98		
7357	0.014	0.67		
7358	0.004	0.20		
7359	0.004	0.14		
7360	0.002	0.17		
7361	0.004	1.37		

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** ASSAY REPORT **

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91130
Date: September 8, 1990
Proj.: Bruceside

Attn: D. Visagie

	Au oz/ton	Ag oz/ton	Reassay Au oz/ton	Reassay Ag oz/ton
7362	0.004	0.55		0.54
7363	0.006	0.73		
7364	0.002	0.06	0.002	
7365	0.002	<0.01		
7366	0.002	0.12		
7367	0.004	0.01		
7368	0.002	<0.01		
7369	0.006	<0.01		
7370	0.006	<0.01		
7371	0.002	<0.01		
7372	0.002	<0.01		
7373	0.002	<0.01		
7374	0.020	<0.01		
7375	0.004	<0.01		
7376	0.002	<0.01		
7377	0.006	<0.01		
7378	0.004	<0.01		
7379	0.004	<0.01		
7380	0.006	<0.01		
7381	0.002	<0.01		
7382	0.002	<0.01		<0.01
7383	0.022	<0.01		
7384	0.010	0.03	0.010	
7385	0.004	<0.01		
7386	0.004	<0.01		
7387	0.002	<0.01		
7388	0.002	0.03		
7389	0.002	<0.01		
7390	0.002	<0.01		

Samples above, received as pulps, were mixed by rolling.
Assay procedures: Au - fire assay (one-half assay ton).
Ag - mixed acid digestion, AA finish.

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CDN RESOURCE LABORATORIES LTD.
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** ASSAY REPORT **

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Attn: D. Visagie

Number: 91130-A
Date: September 6, 1990
Proj.: Bruceside

	Au oz/ton	Ag oz/ton	Reassay Au oz/ton	Reassay Ag oz/ton
7391	0.001	<0.01		
7392	0.002	<0.01		
7393	0.001	<0.01		
7394	0.002	0.03		
7395	0.001	0.01		
7396	0.002	<0.01		
7397	0.003	0.35		
7398	0.002	0.03		
7399	0.012	0.90		
7400	0.008	0.03		
7401	0.006	<0.01		
7402	0.003	<0.01		<0.01
7403	0.008	<0.01		
7404	0.007	<0.01	0.007	
7405	0.014	0.35		
7406	0.016	0.45		
7407	0.010	0.87		
7408	0.012	0.48		
7409	0.012	<0.01		
7410	0.004	<0.01		
7411	0.004	<0.01		
7412	0.004	<0.01		
7413	0.016	0.15		
7414	0.010	0.06		
7415	0.009	0.16		
7416	0.007	0.23		
7417	0.008	0.03		
7418	0.008	0.35		
7419	0.013	0.36		
7420	0.013	0.70		
7421	0.008	0.20		
7422	0.004	0.16		0.16
7423	0.004	0.11		
7424	0.004	0.25	0.008	
7425	0.003	0.06		
7426	0.002	0.17		
7427	0.005	0.45		
7428	0.008	0.45		
7429	0.013	0.48		
7430	0.006	0.40		

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** ASSAY REPORT **

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91130
Date: September 8, 1990
Proj.: Bruceside

Attn: D. Visagie

	Au oz/ton	Ag oz/ton	Reassay Au oz/ton	Reassay Ag oz/ton
7431	0.006	0.26		
7432	0.004	0.10		
7433	0.002	0.12		
7434	0.012	1.21		
7435	0.005	0.22		
7436	0.004	0.15		
7437	0.011	0.37		
7438	0.004	0.33		
7439	0.004	0.40		
7440	0.003	0.15		
7441	0.001	0.07		
7442	0.001	0.11		0.11
7443	0.002	0.39		
[illegible]44	<0.001	0.12	0.001	
[illegible]45	0.003	0.22		
7446	0.004	0.19		
7447	0.004	0.55		
7448	0.012	0.19		
7449	0.009	0.09		
7450	0.007	0.16		
20401	0.008	0.58		
20402	0.006	0.12		
20403	0.013	0.15		
20404	0.008	0.19		
20405	0.043	0.21		
20406	0.009	0.26		
20407	0.008	0.13		
20408	0.003	0.37		
20409	0.005	0.45		
20410	0.003	0.14		
20411	0.480	3.19	0.434 **	
20412	0.009	0.22		0.18
20413	0.004	0.13		
20414	0.014	1.40	0.017	
20415	0.018	2.78		
20416	0.009	0.77		
20417	0.003	0.17		
20418	0.016	0.75		
[illegible]19	0.001	0.05		

Duncan Sanderson
Licensed Assayer of British Columbia

CDN RESOURCE LABORATORIES LTD.
6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

** ASSAY REPORT **

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91130
Date: September 8, 1990
Proj.: Bruceside

Attn: D. Visagie

	Au oz/ton	Ag oz/ton	Reassay Au oz/ton	Reassay Ag oz/ton
20420	0.001	0.04		
20421	0.001	0.02		
20422	0.001	0.03		
20423	0.003	0.04		
20424	0.001	0.02		
20425	0.001	0.02		
20426	0.001	0.03		
20427	0.001	0.03		
20428	0.001	0.02		
20429	<0.001	0.03		
20430	0.001	0.04		
20431	<0.001	0.03		
20432	0.001	0.03		0.02
20433	0.001	0.02		
20434	0.002	0.01	0.002	
20435	0.003	0.01		
20436	0.004	0.01		
20437	0.002	0.01		
20438	0.001	0.01		
20439	0.001	0.02		
20440	0.001	0.01		
20441	0.001	0.02		

The above samples, received as pulps, were mixed by rolling.
Assay procedures: Au - fire assay (one assay ton).
Ag - mixed acid digestion, AA finish.

** indicates Au reassay by "metallics" method.

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