1994 ASSESSMENT REPORT

ON THE NORTH BRUCE GROUP

SULPHURETS PROPERTY - BRUCESIDE PROJECT

Skeena Mining Division

Latitude: 56°29'N
Longitude: 130°13'W
NTS: 104B/8&9

OWNER: NEWHAWK GOLD MINES LTD.
GRANDUC MINING CORPORATION

OPERATOR: NEWHAWK GOLD MINES LTD.

REPORT BY: M. McPherson, P.Geo

November 21, 1994

Distribution: - BCMEMPR (2)
- Newhawk (1)

SUMMARY

The Sulphurets Property - Brucejack Project is situated within northwest British Columbia, approximately 65km northwest of Stewart, BC. The property consists of 10 claims and 2 fractions totalling 71 units. The claims are owned by Newhawk Gold Mines Ltd. and Granduc Mining Corp. under a joint venture agreement. Newhawk is the operator.

The Sulphurets property was initially staked in 1959 by Granduc Mines Ltd. to cover various porphyry copper and precious metal vein showings between Mitchell Glacier and Brucejack Lake. Between 1960 and 1975 the property was intermittently explored by Granduc, who completed geologic mapping, geochemical sampling, geophysical surveying and limited drilling primarily over known porphyry showings. Granduc optioned the property to Esso Minerals in 1980, who completed extensive exploration between 1980 and 1985 that led to the discovery of several mineralized zones including the West Zone and Shore Zone. Esso returned the property to Granduc in 1985, and it was subsequently optioned by Newhawk Gold Mines Ltd. Since then, Newhawk has carried out detailed exploration over most of the property including detailed geologic mapping, sampling and trenching, surface and underground drilling, and exploratory underground drifting on the West Zone.

The property is underlain by Upper Triassic Stuhini Group and Lower Jurassic Hazelton Group andesitic tuffs, flows and minor sediments that have locally been extensively and pervasively quartz-sericite-pyrite altered. To date, at least forty zones of quartz +/- carbonate veining, stockwork and breccia have been discovered on the property. Mineralization consists of up to 15% disseminated pyrite within altered volcanics and trace to several percent combined tetrahedrite, sphalerite, galena, pyrargyrite and rare electrum and native gold within quartz veins.

Work in 1994 consisted of detailed mapping and sampling in the vicinity of the Gossan Hill Zone, and 7351.6m of diamond drilling, primarily on the West, R8, Shore and Gossan Hill Zones. Only one of the Gossan Hill drill holes, S94-449 (462.3m), is being filed for assessment.

Hole S94-449 was designed to test the Gossan Hill Area at depths of 100 to 250m below surface, considerably deeper than previous drilling in the vicinity. Results from this hole indicate that the Gossan Hill Zones, PM-1, PM-3, PM-3A, PM-4 and PM-4A are continuous down dip, but decrease in width, and show no significant increase in strength or grade with depth. The Tommyknocker Zone was also intersected, and also shows a marked decrease in width from surface, however it shows a corresponding significant increase in grade. The best intersection from this hole was 45.856 opt Au, 32.38 opt Ag over 0.70m from the Tommyknocker Zone.

Recommendations for further work include additional surface mapping and sampling west of Gossan Hill to try and trace the Tommyknocker Zone along strike to the west, and additional diamond drilling to follow up the significant intersection encountered in hole S94-449. A thorough compilation and interpretation of all previous drilling results from the Tommyknocker Zone needs to be completed in order to help target future drilling.

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1.0 INTRODUCTION

1.1 Location and Access

The Sulphurets Property is located within the Coast Range Mountains of northwest B.C., approximately 60 kilometres northwest of the village of Stewart. It is centred at 130°13'W, 56°29'N on NTS sheets 104/ B8 and 9 (Fig. 1.1).

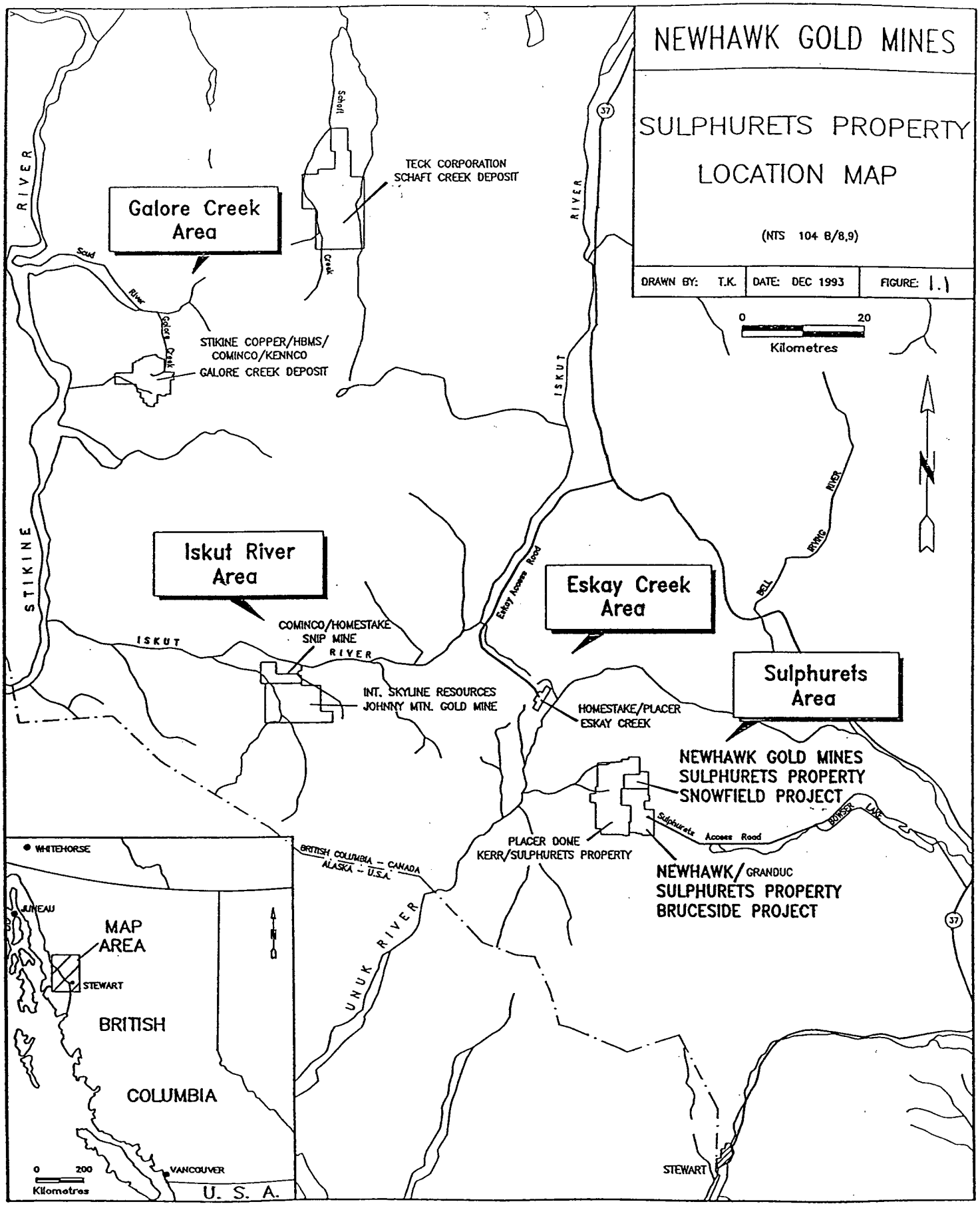
Access during the early summer is limited to helicopter from Stewart, BC or the Bob Quinn airstrip located on Highway 37. Later in the season supplies can be mobilized via the Granduc Road to the Tide Lake airstrip, 35 kilometres south of the property or flown by fixed wing to the Knipple airstrip 15 kilometres southeast of the property. Access from this point is then by helicopter. During previous major summer programs, overland access was by barge along Bowser Lake, then by road along the Bowser River with the final access to the camp being by tracked vehicle 16 kilometres up the Knipple Glacier. A permanent camp is located at the west end of Brucejack Lake. Access around the property is by four wheel drive all-terrain vehicle, helicopter or by foot. During the 1994 season, supplies were flown directly to the camp from Stewart BC using a Bell 206 helicopter on a casual basis from Vancouver Island Helicopters. A Hughes 500D and a Bell 205 helicopter were also used on an "as needed" basis to mobilize heavier equipment throughout the season.

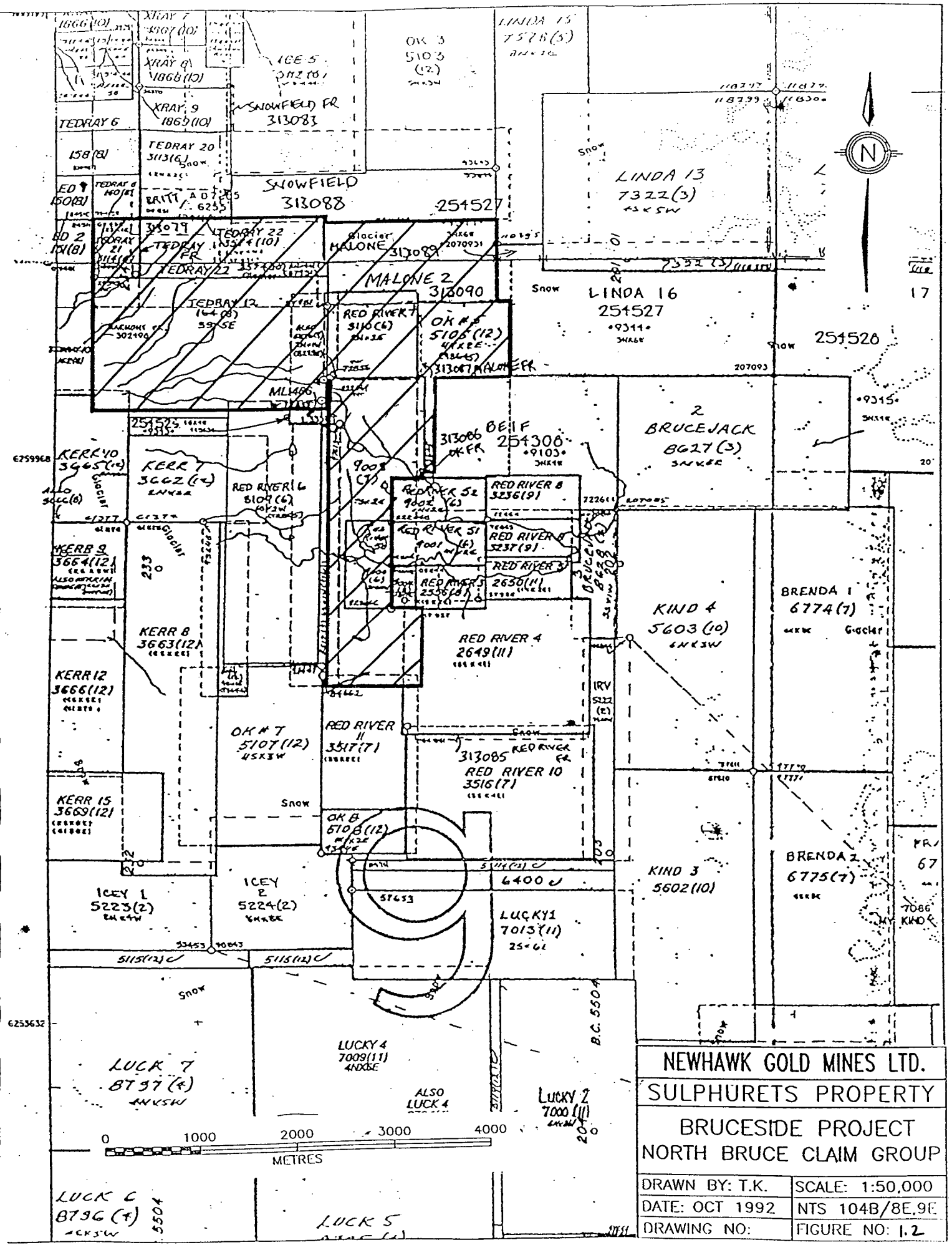
1.2 Property Description

The Sulphurets Property has been split into two separate projects in past years, the Bruceside Project centred around Brucejack Lake and the West Zone, and the Sulphside Project, centred around Sulphurets Lake and the Sulphurets Gold Zone. The Sulphside Project was sold to Placer Dome Inc. in early 1992, however the Bruceside nomenclature still persists. The Bruceside Project is owned 60% by Newhawk Gold Mines Ltd. and 40% by Granduc Mining Corporation under a joint venture agreement. Newhawk is the operator. The property is comprised of the following mineral and placer claims, all of which lie within the Skeena Mining Division (Fig. 1.2):

TABLE 1.1 - CLAIM STATUS

Claim	Record	Units	Expiry Date
Red River 7	250986	4	June 30, 2004
Red River 50	254205	2	June 29, 2004
Red River 53	254208	14	July 4, 2004
Tedray No. 12	250388	15	Aug 26, 2004
Tedray 21	250990	2	June 30, 2004
Tedray 22	251066	8	Oct 6, 2004
Tedray Fr.	313084	1	Sept 9, 2004
OK# 5	251284	8	Dec 10, 2004
Goldwedge #3	252512	6	Sept 3, 2004
Malone	313087	6	Sept 10, 2004
Malone 2	313090	4	Sept 5, 2004
Malone Fr.	313087	1	Sept 10, 2004


NEWHAWK GOLD MINES
SULPHURETS PROPERTY
LOCATION MAP
(NTS 104 B/8,9)
DRAWN BY: T.K.
DATE: DEC 1993
FIGURE: 1.1
0 20
Kilometres
Galore Creek Area
Iskut River Area
Eskay Creek Area
Sulphurets Area
TECK CORPORATION
SCHAFT CREEK DEPOSIT
STIKINE COPPER/HBMS/
COMINCO/KENNCO
GALORE CREEK DEPOSIT
COMINCO/HOMESTAKE
SNIP MINE
INT. SKYLINE RESOURCES
JOHNNY MTN. GOLD MINE
HOMESTAKE/PLACER
ESKAY CREEK
NEWHAWK GOLD MINES
SULPHURETS PROPERTY
SNOWFIELD PROJECT
PLACER DOME
KERR/SULPHURETS PROPERTY
NEWHAWK/ GRANDUC
SULPHURETS PROPERTY
BRUCESIDE PROJECT
STEWART
STIKINE RIVER
ISKUT RIVER
UNUK RIVER
BELL IRVING RIVER
Eskay Access Road
Sulphurets Access Road
BOWSER LAKE
37
WHITEHORSE
JUNEAU
MAP AREA
STEWART
BRITISH COLUMBIA
VANCOUVER
BRITISH COLUMBIA - CANADA
ALASKA - U.S.A.
U. S. A.
0 200
Kilometres



NEWHAWK GOLD MINES LTD.	
SULPHURETS PROPERTY	
BRUCESIDE PROJECT NORTH BRUCE CLAIM GROUP	
DRAWN BY: T.K.	SCALE: 1:50,000
DATE: OCT 1992	NTS 104B/8E,9E
DRAWING NO:	FIGURE NO: 1.2

1.3 Physiography and Vegetation

The topography of the Sulphurets region is typical of the Coast Range Mountains with steep glaciated U-shaped valleys and several permanent snowfields. Elevations in the area range from 750 metres at Sulphurets Glacier just west of the property, to 2560 metres on Mt. John Walker northeast of the property.

Winters tend to be severe with extensive snowfall and high winds, while summers are generally cool and wet. Vegetation consists of scrub alpine spruce and fir at lower elevations along Brucejack Creek, and alpine grasses and juniper at higher elevations. Much of the property is covered in outcrop or talus with no appreciable vegetation.

1.4 Property History

Exploration in the area dates back to the 1880's when placer gold was located on Sulphurets and Mitchell Creeks. In 1935, copper-molybdenum mineralization was located in the vicinity of the Main Copper showing on the adjacent Sulphside property. During the next twenty years the area was intermittently evaluated by a number of different parties. In 1959, Granduc Mines located gold and silver bearing veins near Brucejack Lake and in 1960 staked a series of claims totalling 246 units extending from south of Brucejack Lake north to the Mitchell Glacier. These claims covered the current Bruceside Project precious metal showings, as well as numerous copper-moly occurrences located north and northwest of Brucejack Lake.

Between 1960 and 1975 Granduc completed several exploration programs involving geologic mapping and sampling, geophysical surveying, prospecting and limited drilling primarily in the vicinity of the known copper $\pm$ gold and molybdenum occurrences located immediately north and northwest of the current Bruceside Property boundary.

In 1980 Esso Minerals optioned the Sulphurets property from Granduc, and from 1980 to 1985 completed a comprehensive evaluation of the property that resulted in the discovery of several precious metal showings including the West, Shore, Galena Hill and Electrum Zones. For various reasons, Esso dropped their option on the Sulphurets Property in 1985, and Newhawk Gold Mines optioned it that same year.

Since 1985, Newhawk has completed extensive exploration programs including additional regional and detailed geologic mapping and sampling, rock saw and backhoe trenching, limited soil geochemical sampling, airborne geophysical surveying, and 35,241.6m of surface diamond drilling in 511 holes. In addition to surface work, a total of 5276m of exploratory underground drifting was completed on the West Zone between 1986 and 1989, and 35,981.0m of underground diamond drilling in 422 holes was completed. This work succeeded in outlining significant proven and probable reserves of 826,000 Tons grading 0.450 opt Au, 18.80 opt Ag on the West Zone, and 92.276 Tons grading 0.371 opt Au, 4.63 opt Ag on the Shore Zone (Watts, Griffis and McOuat, 1990). At least forty additional showings of precious metal mineralization have been located across the property, some of which have associated small reserves

(Visagie, 1993b). Based on these reserves, a feasibility study was completed by Corona Corp. in 1990, and determined that the deposit was marginally economic under existing conditions. The current exploration mandate for the property is to delineate additional areas of economic gold-silver mineralization in order to increase the reserves such that the project becomes feasible.

2.0 GEOLOGY

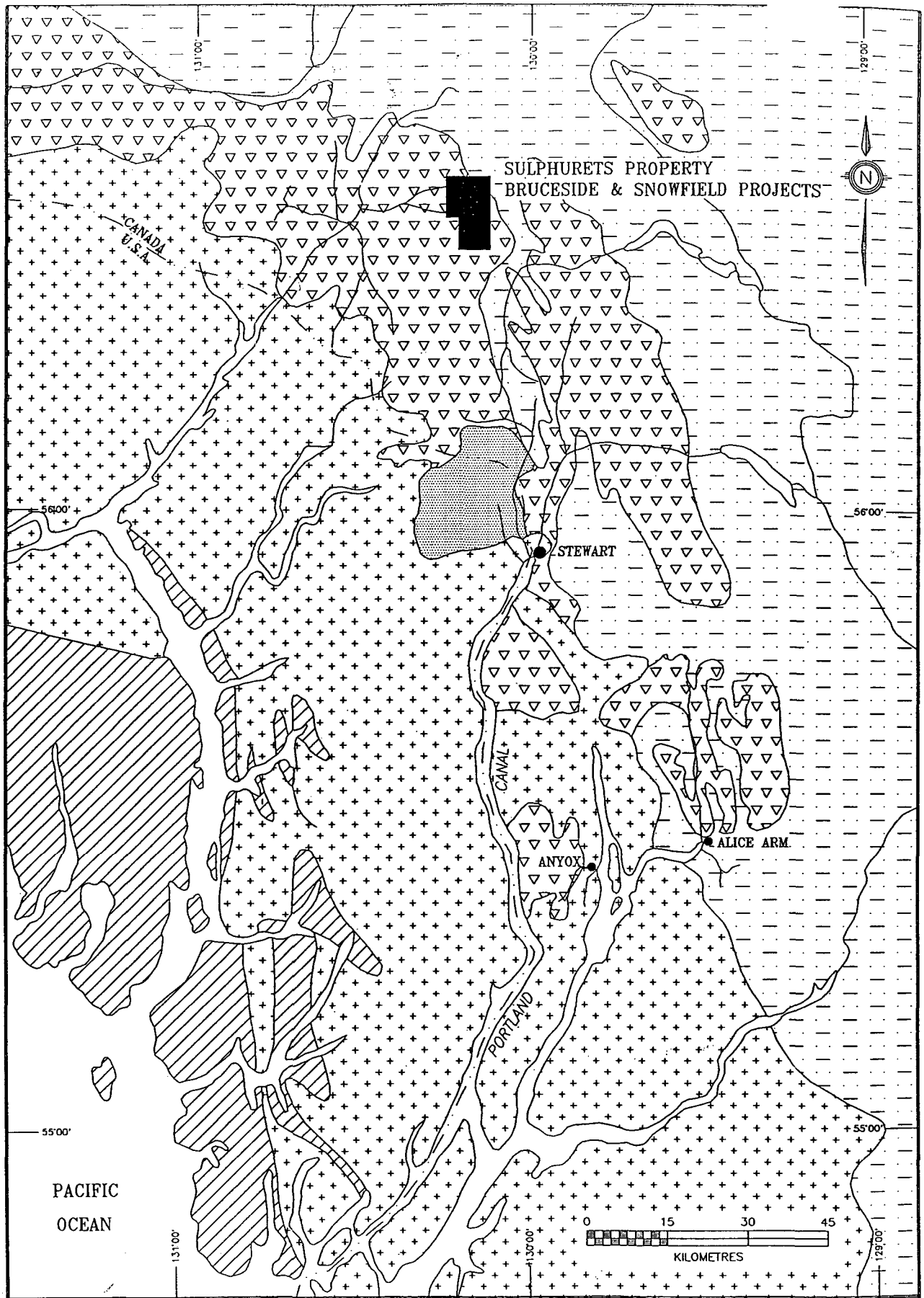
2.1 Regional Setting

The Sulphurets Property lies within the Stikine Terrane, along the western margin of the Intermontane Belt (Fig. 2.1). The area is underlain by Upper Triassic and Lower to Middle Jurassic Hazelton Group volcanic, volcaniclastic and sedimentary rocks, intruded by Mesozoic intermediate to felsic plutons and minor Tertiary mafic dykes and sills. Regional geologic mapping has been completed by the Geological Survey of Canada, the BC Ministry of Energy, Mines and Resources, and the Mineral Deposit Research unit at UBC.

The lithostratigraphic assemblage as compiled by Kirkham (1963), Britton and Alldrick (1988), Alldrick and Britton (1991) and Kirkham et al (in preparation) consists , from oldest to youngest, of alternating siltstone and conglomerate of the Lower Unuk River Formation; intermediate volcanic rocks and siltstones of the Upper Unuk River Formation; interbedded conglomerate, sandstone and intermediate to mafic volcanic rocks of the Betty Creek Formation; felsic flows and pyroclastic rocks, including tuffaceous rocks ranging from dust tuff to tuff breccia and localized welded ash tuff, of the Mount Dilworth Formation; and finally, alternating siltstone and sandstone of the Salmon River Formation and the Bowser Lake Group.

At least three intrusive events have occurred in the area: intermediate to felsic plutons that are probably coeval with volcanic and volcaniclastic supracrustal rocks; small stocks related to Cretaceous Coast Plutonic Complex rocks; and minor Tertiary dykes and sills.

Folding is common throughout the region, with Hazelton Group andesitic tuffs and flows southeast of Brucejack Lake being gently warped, while sediments of the Salmon River Formation and Bowser Lake Group are more tightly folded. Faulting is common, with north striking steep normal faults (ie the Brucejack Fault) and west dipping thrust faults (eg, the Sulphurets Thrust) being the most prevalent orientations.



LEGEND

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

(Map after Dykes et al. 1988)

NEWHAWK GOLD MINES LTD

SULPHURETS PROPERTY

REGIONAL GEOLOGY OF THE STEWART-ANYOX AREA

DRAWN BY: T.K.	NTS 103/104
DATE: DEC 1993	FIGURE NO: 2.1

2.2 Property Geology

2.2.1 Stratigraphy

The Bruceside Project is underlain by two sequences of sedimentary and volcanic rocks; a Lower sequence of Upper Triassic Stuhini Group rocks that occupy the western side of the property, and an Upper sequence of Lower to Middle Jurassic Hazelton Group rocks in the central and eastern portions of the property (Fig. 2.2). Younger, more felsic flows and volcaniclastic rocks overlie the Hazelton Group rocks east of the property. All of these units have been intruded by sub-alkaline plutons of Lower to Middle Jurassic age, that range in composition from syenite to hornblende-feldspar porphyritic diorite to monzonite.

The Upper Triassic rocks (Lower sequence), consist of a lower heterolithic mafic to intermediate volcanic breccia and conglomerate (Fig. 2.2; unit 1), overlain by a sedimentary layer consisting of thin to medium bedded black argillite, siltstone, fine grained sandstone, and minor grey limestone, tuffaceous mudstone, and tuffaceous pebble conglomerate (Fig. 2.2; unit 2).

The Lower to Middle Jurassic rocks (Upper sequence) consists of a lower sedimentary package of two distinct units. The lowermost unit consists of medium to thick bedded medium to coarse grained sandstone and pebble to cobble conglomerate, conspicuous internal planar laminations and rare cross-stratification (Fig. 2.2; unit 3). Overlying this is a layer of thin to medium bedded dark grey to black mudstone and argillite, that is typically highly altered (Fig. 2.2; unit 4). Overlying the sedimentary rocks is a thick sequence of monolithic andesitic volcaniclastics ranging from ash tuff to tuff breccia and lahar, and dominated by plagioclase-hornblende phyric volcanic breccia (Fig. 2.2; unit 5). This upper volcanic package is the main host to alteration and mineralization on the property. To the east, the Upper sequence is overlain by dacitic flows and volcaniclastics, and minor sedimentary rocks (Fig. 2.2; unit 6). The volcaniclastics range from fine ash and plagioclase crystal tuffs to coarse felsic breccias and conglomerates, locally supported with a distinctive hematitic mud (Davies et al, 1994).

Both lower and upper volcano-sedimentary packages have been intruded by numerous late stage plutons, which can be grouped into three main mappable units: i) a plagioclase-hornblende-phyric diorite; ii) a potassium feldspar megacrystic plagioclase-hornblende porphyry; and iii) a plagioclase and rare potassium feldspar porphyry of dacitic composition (MacDonald, 1993). Late stage, fine grained, green andesitic dykes and sills cut all units on the property, and are definitely post-mineral.

Stratigraphy typically strikes north to northwest, with moderate to steep easterly dips and facing directions, indicating a younging direction to the east (Davies et al, 1994). Contacts between individual units are sharp to gradational over several meters, and no unconformities have been identified on the property.

2.2.2 Structure

The rocks on the property have been subjected to regional deformation and weak metamorphism, and exhibit a regionally penetrative foliation of varying intensity. Foliation generally strikes west-northwest, and dips steeply to the north, and is most strongly developed in sericitic rocks and in the argillites of the Upper Triassic package. The deformation is post-mineral, and has resulted in the flattening of mineralized veins and stockwork so that they lie parallel to the foliation.

Post mineral faulting occurs throughout the area, with steeply dipping normal faults being the most common orientation on the property. Offset on these faults ranges from negligible to several hundred meters. The two most important faults on the property are the Brucejack Fault which occupies a north trending lineament just north of camp, and the Bruce Fault, a west trending fault occupying Brucejack Creek (Fig. 2.2). Other mappable faults in the area strike northeast and northwest. The northeast faults dip steeply to the northwest and show tens of meters of normal-dextral oblique displacement. The dip and displacement of the northwest trending faults is unknown, but probably in the order of tens of meters of dextral slip.

The Brucejack Fault forms a northerly striking lineament extending from the extreme southern end of the property, north to the Iron Cap Zone; a strike length of 11 km. The fault cuts all stratigraphic and intrusive contacts, and cuts alteration zones and mineralized veins, indicating that the latest motion was post mineral. The Fault dips vertically to steeply to the west, and displacement has been estimated at 700 to 800m of reverse (west side up) motion, based on offset of stratigraphic contacts, and orientation of slickensides (Davies et al, 1994).

The Bruce Fault trends roughly east-west, and displays a curvilinear dip to the north, with dips ranging from 60 to 70 degrees. Offset on the PM5 Zone indicates displacement along the fault is in the order of tens of meters

Folding on the property is best developed in the sedimentary units of the Lower Sequence, exposed in Brucejack Creek. The folds are tight to open, have subangular to rounded hinges, and wavelengths of several tens of meters. Axial trends of folds are typically northerly, however local disharmonic folds have northwesterly and northeasterly axial trends. A large, north-northwest trending syncline has been postulated beneath the Gossan Hill area to account for stratigraphic relationships and a reversal of facing direction east of the Brucejack Fault and at the Shore Zone. This deformation is likely pre-regional cleavage development and pre-mineral, as cleavage cuts across the interpreted axial trace without deflection, and vein geometry is not significantly effected. An alternative interpretation is that the block of stratigraphy bounded by the Brucejack Fault, Shore Zone, Bruce Fault and Big Sleep Zone is a rotated fault block. This interpretation would include a pre-cursor, east-west fault structure to the Big Sleep vein system, similar to those at the West, Shore and Electrum Zones (see section 2.2.3).

2.2.3 Alteration and Mineralization

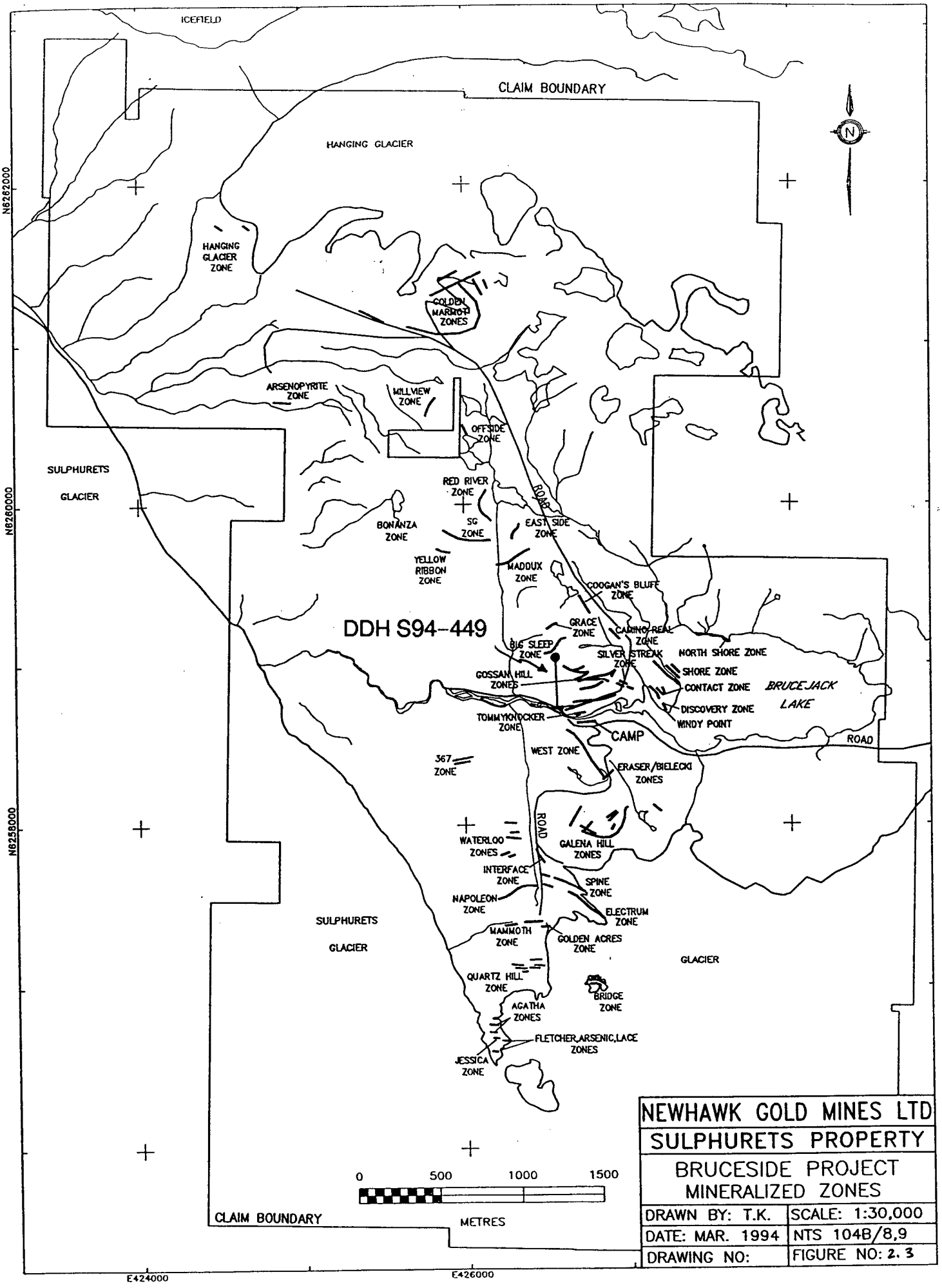
Mineralization on the Bruceside property consists mainly of structurally controlled, intrusive related quartz-carbonate, gold-silver bearing veins, stockwork and breccia zones. The veins are hosted within a broad zone of potassium feldspar alteration, overprinted by sericite-quartz-pyrite +/- clay. Structural style and alteration geochemistry indicate the deposits were formed in a near surface epithermal style environment (Fig. 2.3).

Mineralization was likely a three-stage process (Lewis, 1994). Stage 1 consisted of fault-development and ground preparation. Pre-cursor structures to the West, Shore and Electrum Zones likely formed at this time, as steep northwest trending normal faults with limited displacement, cutting all rock types. Stage 2 consisted of syntectonic mineralization and alteration. Massive and stockwork veins were emplaced within a differential stress field characterized by east-west compressional stress. The main vein orientations resulting from this stress are i) east-west dilational veins such as R8 and Big Sleep; and ii) northwest trending veins localized along pre-existing structures such as the West, Shore and Electrum Zones. Underground mapping indicates the northwest trending structures, particularly R6, have been brecciated, while east-west trending structures have not. This would support the theory of reactivation along pre-existing northwest structures. Reactivation was probably sinistral in movement, and may account for the sigmoidal shape of the east-west trending Big Sleep Zone. The localization of major vein systems within the volcanic rocks as opposed to the sedimentary rocks is likely the results of preferential ground preparation within the volcanics. Stage 3 was marked by the development of northwest trending cleavage and local warping of smaller veins as a result of northeast-southwest shortening.

The central part of the property is dominated by a north-trending band of pervasive quartz-sericite-pyrite alteration 100m to 450m wide and 4.5km long. Hosted within this alteration band are over 40 zones of quartz+/- carbonate +/- adularia +/- barite veins and stockworks ranging in width from several centimetres to over 50m, and in length from several meters to several hundred meters (Fig. 2.3). Veins locally form complex shaped mineralized bodies, in which several generations of syntectonic veins, stockworks and breccias may occur (Roach and MacDonald, 1992). The larger vein systems, ie. Shore and West Zones, trend northwest and dip vertically to steeply to the northeast, with somewhat smaller zones such as Big Sleep and Gossan Hill trending easterly and dipping variably north and south. The pattern of mineralized zones forms a slightly angled "ladder" system in the central part of the property, with the Shore and West Zones, and the Electrum Zone further south, forming the ladder "legs", and the east-west trending zones such as R8, Big Sleep and Gossan Hill forming the "rungs". This area has been the focus of continued exploration, as it hosts the highest concentration of mineralization on the property.

Mineralization within the alteration zone consists of 2% to 20% disseminated pyrite and rare arsenopyrite, and within the veins consists of trace to 10% combined disseminated pyrite, tetrahedrite, arsenopyrite, chalcopyrite, galena, sphalerite, pyrargyrite, polybasite and rare native gold and electrum. Of the forty zones of mineralization discovered to date, the West Zone/R8 and Shore Zone are the most significant in terms of grade and tonnage. Other zones of significance include Gossan Hill, Tommyknocker, Big Sleep, Grace and Coogan's Bluff (Fig. 2.3).

The Gossan Hill/Tommyknocker Zone is an area of intense quartz-sericite-pyrite alteration hosting eleven zones of quartz veining and stockwork carrying erratic gold mineralization. These zones include Marie Gold, PM-1, PM-2, PM-3 and 3A, PM-4 and 4A, PM-5, PM-6, U-Vein, Silver Streak and Tommyknocker (Fig. 2.3). They generally strike east-west, dip moderately to steeply to the north, and range in strike length from 30m to 245m, and in width from 0.5m to 20m. "Rolls" and inflections down dip are common. The Tommyknocker Zone is the southernmost vein zone at Gossan Hill, and is the most promising in terms of significant economic mineralization. It consists of a central quartz vein up to 1.0m in width, hosted within a 5m wide quartz stockwork in strong quartz-sericite-pyrite altered andesitic volcanics. Previous drilling on both the PM structures and the Tommyknocker Zone had concentrated on delineating the zone near surface, typically above the 1300m level. The 1994 exploration program concentrated on testing these zones at significantly deeper depths, at approximately the 1200m level.



NEWHAWK GOLD MINES LTD	
SULPHURETS PROPERTY	
BRUCESIDE PROJECT MINERALIZED ZONES	
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DATE: MAR. 1994	NTS 104B/8,9
DRAWING NO:	FIGURE NO: 2.3

3.0 1994 DIAMOND DRILLING PROGRAM

3.1 Introduction

The 1994 exploration program was designed to evaluate the highest priority targets on the property for their potential to host gold and/or silver mineralization of significant tonnage and grade. Exploration was focused in the vicinity of Gossan Hill, the area with the highest concentration of alteration and mineralization on the property, and therefore the area most likely to host mineralization of significant size. The program consisted of detailed surface mapping and diamond drilling. Only one drill hole is being reported for assessment purposes, S94-449 (fig. 2.3).

Drilling was contracted to F. Boisvenu Drilling of New Westminster, BC, using a Hagby-Brok diamond drill to recover BQTW core. The drill site for S94-449 was levelled using a D7 Cat, and the drill was moved to the site using a Hughes 500D helicopter contracted from Vancouver Island Helicopters out of Stewart BC. Daily access to the drill was by all-terrain-vehicle. Drill core is stored on site, at the Newhawk core storage area south of the camp.

All zones of significant alteration and mineralization were split using a manual Longyear core-splitter. Split core was shipped to Eco-Tech Labs in Stewart, BC for gold and silver assay, and 9-element ICP. Samples were first dried (if necessary), crushed, sieved and pulverized to -140 mesh, and a 1/2 assay ton sub-sample taken. For gold analysis, the sub-sample was pre-concentrated by conventional fire assay, and the resulting bead digested in 3 ml 30% HNO_3 and 3 ml concentrated HCl (if necessary). The resulting solution was diluted to 10ml and analyzed by atomic absorption. Core carrying visible gold was cut with a rocksaw, and sent for gold metallic assay. For silver analysis, a 2.0 gram subsample was digested in 20 ml HNO_3 for 20 minutes, or until all the HNO_3 had disappeared. The digestion is then cooled, 10 ml HCl added and digested for 30 minutes. The digestion is again cooled and another 50 ml HCl added and 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. For the ICP analysis, a 10 gram sub-sample was digested with 3 ml of 3:1:3 nitric acid to hydrochloric acid to water at 90° for 1.5 hours. The sample was then diluted to 20 ml with demineralized water and analyzed for Ag, Cu, Pb, Zn, Mo, As, Sb, Tl, Hg. Samples that contained > 30 ppm Ag or > 10,000 ppm Cu, Pb, As, or Zn were re-assayed for that particular element.

The drill log is located in appendix I, and assay data is located in appendix II.

TABLE 3.1 - DRILLHOLE SPECIFICS

Drill Hole	Zone	Section	Azimuth	Dip	Length
S94-449	Gossan Hill	200+80N	177°	-45°	462.3m

3.2 Results

Drill hole S94-449 collared in weakly sericite-pyrite altered andesite lapilli tuff, intruded by a feldspar +/- hornblende porphyry from 22.8m to 96.7m. The porphyry is locally moderately sericite-pyrite altered and carries up to 20% quartz-carbonate veinlets. The hole crosses into a thick package of weakly altered, poorly sorted heterolithic lapilli tuff or lahar at 96.7m, and remains in this unit until ~ 297.0m, where the unit lies in fault contact with intercalated argillite and arkosic sediments. The hole remains in the sediments for most of the remaining length, until crossing back into the heterolithic unit at 447.3m. Both the heterolithic unit and the sediments are moderate to strongly quartz +/- sericite +/- pyrite altered from ~ 230m to the end of the hole. Numerous zones of quartz stockwork and quartz breccia were intersected within this package of altered rocks.

The PM-1 Zone was intersected from 57.1m to 61.9m, but it is poorly mineralized, with only 3-5% pyrite in the altered host. More significant mineralization was intersected below the 1260m level. The hole intersected the PM-3 (254.0 - 254.9m), PM-3A (262.1 - 263.0m; 266.9 - 273.5m), PM-4/4A (329.2 - 329.85m), and the Tommyknocker Zones (395.5 - 396.0m; 398.5 - 398.7m; 426.3 - 427.0m). All of these zones are relatively narrow (typically < 2m), and show a decrease in width from surface. Mineralization consists of trace tetrahedrite, trace to 5% pyrite in the PM Zones, and <1% galena, < 1% pyrite, < 1% sphalerite, 1% tetrahedrite and significant visible gold in the Tommyknocker Zone.

The Tommyknocker Zone shows a decrease in width both down-dip from surface, and along strike from previous drill holes, however there is a corresponding significant increase in gold and silver grade. The nature of the zone has also changed, from a well defined quartz stockwork/quartz vein at surface, to a more diffuse, weaker quartz stockwork in a wider, package of alteration at depth.

TABLE 3.2 - SIGNIFICANT DRILL INTERSECTIONS

Hole	Zone	From (m)	To (m)	Width (m)	Au (opt)	Ag (opt)
S94-449	PM-3/PM-3A	260.4	265.7	5.3	0.231	0.46
	includes	262.1	263.0	0.9	0.426	1.11
	PM-3A?	278.0	281.0	3.0	0.187	2.65
	includes	278.0	279.0	1.0	0.460	0.54
	----------	291.5	292.5	1.0	0.125	0.22
	----------	308.7	311.0	2.3	0.123	0.51
	Tommyknocker	426.3	427.0	0.7	45.865	32.38

4.0 CONCLUSIONS AND RECOMMENDATIONS

The 1994 exploration program on the Bruceside Project consisted of detailed mapping and sampling in the vicinity of the Gossan Hill Zone, and 7351.6m of diamond drilling, primarily on the West, R8, Shore and Gossan Hill Zones. One of the Gossan Hill drill holes, S94-449 (462.3m), is being filed for assessment purposes.

Hole S94-449 was designed to test the Gossan Hill Area at depths of 100 to 250m below surface, considerably deeper than previous drilling in the vicinity. Results from this hole indicate that the Gossan Hill Zones, PM-1, PM-3, PM-3A, PM-4 and PM-4A are continuous down dip, but decrease in width, and show no significant increase in strength or grade with depth. The Tommyknocker Zone was also intersected, and also shows a marked decrease in width from surface, however it shows a corresponding significant increase in grade. The best intersection from this hole was 45.856 opt Au, 32.38 opt Ag over 0.70m from the Tommyknocker Zone.

Recommendations for further work include additional surface mapping and sampling west of Gossan Hill to try and trace the Tommyknocker Zone along strike to the west, and additional diamond drilling to follow up the significant intersection encountered in hole S94-449. A thorough compilation and interpretation of all previous drilling results from the Tommyknocker Zone needs to be completed in order to help target future drilling.

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6.0 STATEMENT OF EXPENDITURES

Labour				**$ 2,760**
J. Watkins (Geologist)	Aug. 6-11	6 days @ $300/day	$ 1,800	
J. Franks (Assistant)	Aug. 6-11	6 days @ $160/day	$ 960	
Room & Board				**$ 1,440**
36 man-days @ $40/day				
Helicopter Support				**$ 1,789**
2.4 hours @ $745.52/hour (Hughes 500D)				
Drilling				**$ 27,542**
500' @ $15.90/ft			$ 7,950	
500' @ $16.90/ft			$ 8,450	
500' @ $18.90/ft			$ 9,450	
16' @ $21.50/ft			$ 344	
core boxes:	76 boxes @ $7.50/box		$ 570	
tropari rental:	0.25 mo. @ $1100/mo.		$ 275	
stanby:	15.5 man hours @ $30/hr.		$ 465	
	2.5 machine hours @ $15/hr.		$ 38	
Assaying				**$ 3,713**
199 samples @ $18.66/sample				
Supplies				**$ 300**
Sample bags, tape etc.				
Report Preparation				**$ 1,000**
includes writing, drafting, etc.				
TOTAL				**$ 38,544**

7.0 STATEMENT OF QUALIFICATIONS

I, **Margaret D. McPherson**, DO HEREBY CERTIFY THAT:

1. I am presently employed as a geologist with Newhawk Gold Mines Ltd. located at #860 - 625 Howe Street, Vancouver, B. C. V6C 2T7.

2. I graduated from the University of British Columbia in 1987, with a Bachelor of Science degree in Geology.

3. I have been employed in the mineral exploration industry since 1985.

4. The work described in this report was done under my supervision.

Margaret D. McPherson

November 15, 1994

APPENDIX I

Diamond Drill Logs

THE NORTHAIR GROUP

COLLAR M.6.216.681° - 93.88° EDM

NEWHAWK GOLD MINES LTD.

Diamond Drill Hole Record

SULPHURETS PROPERTY

DEPTH	BEARING	DIP	SURVEY TYPE
COLLAR	177°	-45°	
32.3m	175°	-45	Tropari
123.7m	180.5°	-43	"
215.2m	181.0°	-45	"
300.5m	184.5	-43	"
395.0	193.5	-38	

ZONE: GOSSAN HILL | LENGTH: 462.3 | HOLE NO.: SS94-449

CLAIM: Red River 50 | CORE SIZE: BQTW | SHEET NO. 1 of 22

LATITUDE: -4690.695N | RECOVERY: | LOGGED BY: J. Watkins

DEPARTURE: 3315.336E | STARTED: Aug 5/94 - night shift | SAMPLED BY: Craig Harkema, Jim Franks

ELEVATION: 1444.228 m | COMPLETED: Aug 10/94 - 10:00 AM | PURPOSE: test Tommyknocker

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 %
0	18.8	ANFL	Andesite flows: massive fg, uniform, 5% fg-carb vnlet @ 20-30° thru, fine spotted w dk chlorite after mafic phenos, v. small ?spar phenos, lower contact sharp, possible tight shear @ 70°, weak sor(Py) over 20cm at bottom contact	18.6	18.6		tr.	mod wk		tr. 3														
18.8	22.8	ANLT	Andesite lapilli tuff: lapilli of feldspar porphyry, wk-mod ser, alt'd clasts, in dk grey cg tuff, chlorite alt'd groms, 5% carb(qtz) vnlets to 1cm @ 30°, @ 21.6' broken over 10cm possible low angle shear lower contact gradational			-	mod	wk	mod	1-2														
22.8	27.4	ANPP	Andesite porphyry: probable clast supported coarse lapilli to agglomerate				mod		mod	<1														

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Hole No. 594-449
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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 %
			dark green to creamy white feldspars to 2mm thru, 3% carb(gb) vnlts @ 30°, lower contact gradational				mod	wk	mod	<1															
27.9	16.6	HELT	Hetrolithic lapilli tuff: similar to before but 10% lapilli size black argillite? frags; also rare sericite alt'd andesite porphyry frags to 5cm, fg andesite flow frags, and probable large block of fspar porphyry all in a 90% golmss of eq unsorted tuff, porphyry content & frags increasing down hole from 34.0 to 39.2: 10-15% calcite-rich vns to 5cm @ 40°, lower contact gradational	31.0	39.2				15	<1															
				39.2	46.6				5																	
46.6	51.0	ANPP	Andesite porphyry as before but less evidence of agglomerate blocks, scattered patchy apple green sericite altn				mod	Patchy strg	strg	1																

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Hole No. SDA-99
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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 %
			10% calcite rich vning thru @ 40° lower contact gradational																							
54.0	57.5	SP/ ANPP	sericite-pyrite altd andesite porphyry, apple green with remnant white(carb) feldspar megacrysts, 10-20% calcite ± (qtz) vnlets to 5cm thru, lower contact gradational					stkg	stkg	3-5				12275	51.0	55.5	1.5	0.024				.27				
														276	55.5	56.5	1.0	0.030				.17				
														277	56.5	57.5	1.0	0.015				.09				
57.5	61.9	SP/ QTSW/ ANPP	Sericite-pyrite altd andesite porphyry w 25% qtz-carb stockwork, lower contact gradational			10		stkg	stkg	3-5				278	57.5	59.0	1.5	0.012				.32				
														279	59.0	60.5	1.5	0.007				.23				
														280	60.5	61.9	1.4	0.009				.27				
61.9	63.9	ANPP/ SP	andesite porphyry as halve with patchy moderate sericite-pyrite altn, 10% carb(qtz) vning @ 60° & 80°, lower contact sharp @ 85°			3	wk	mod	stkg	1-2				281	61.9	63.9	2.0	0.006				.16				
63.9	65.1	CCVN	calcite-rich vn, massive @ 85°						100					282	63.9	65.1	1.2	0.006				.32				
65.1	86.3	ANPP	Andesite megacrystic porphyry with rare ~~exotic~~ frags of fg tuff and flow, unit could be				wk	wk	mod	1																

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Hole No. 594-449
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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 %
			coarse blocky flows or agglomerate, 10% calcite (qtz) vning to 2cm. most @ 70°-80° lower contact gradational																							
863	887	ANPP.	Andesite porphyry: weak to moderate pervasive sericite altn and x-cut by 20% carb (qtz) vns to 5cm., lower contact gradational.			10.		wk mod	mod.	2.				V72887	863	887	2.4	0.022				.24				
887	967	ANPP.	Andesite porphyry: as before, patchy v. weak sericite altn, 5% carb (qtz) vnlets @ 80° lower contact gradational					wk	mod.	<1																
967	996	HELT.	Hetrolithic lapilli tuff., predominate cg tuff ⇒ small angular black argillite clasts, ser. altd frags to 3cm., and rare porphyry, x-cut by 10% carb (qtz) vnlets to 1cm. lower contact gradational																							

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Hole No. SD9-449
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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 %
99.6	112.5	HELT/ QCSW	Hetrolithic lapilli tuff with qtz-carb stwk and vning 20% decreasing to 10% vning + stwk with depth, weak patchy sericite altd, pervasive wk to moderate chlorite			S	mod	wk	mod	1-2				277284	99.6	101.0	1.4	0.012				.14				
														285	101.0	102.5	1.5	0.016				.25				
														286	102.5	104.0	1.5	0.033				.16				
														287	104.0	105.5	1.5	0.009				.22				
														288	105.5	107.0	1.5	0.013				.13				
														289	107.0	108.5	1.5	0.010				.09				
														290	108.5	110.0	1.5	0.029				.11				
112.5	115.1	HELT	Hetrolithic lapilli tuff as before w 5% carb(qtz) vnlets, low contact gradational			<1	mod		wk	<1				291	110.0	111.5	1.5	0.021				.08				
														292	111.5	112.5	1.0	0.180				.18				
115.1	136.6	ANPP	Andesite porphyry, fairly uniform w rare exotic clasts of fg andesite, scattered carb(qtz) vnlets @ 40°, lower contact gradational,				mod		wk	<1																
136.6	159.2	HELT	Hetrolithic lapilli tuff as before with scattered porphyry blocks, rare 10cm wide beds of bedded f.s. tuff @ 45°, scattered carb(qtz) vnlets @ 45° & 80°, lower contact broken			<1	mod		wk	<1																

Hole No. SGA-449

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NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

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 %
154.2	156.5	FLT?	Broken, blocky @ 80°, possible fault			wk	mod		mod																	
156.5	206.0	ANTF	Andesite tuff: massive uniform with fine lapilli grading - down hole to cg tuff w rare lapilli, rare black argillite frag to 3mm, scattered carb (qtz) vnlets @ 80° lower contact very gradational to weak pervasive sericite + fine diss Py				wk		wk	<1															
206.0	209.8	ANTF/ SP	Andesite tuff as above but with weak to moderate pervasive sericite + 2% fine diss. Pyrite and 5% qtz + carb vnlets & vnlk stock work, lower contact gradational			wk		wk mod	wk	2.				292	206.0	207.5	1.5	0.059				.07				
														293	207.5	209	1.5	0.017				.07				
														295	209.0	209.8	0.8	0.010				.1				
209.8	211.75	ANTF/ QCVN.	Andesit tuff as above x-cut by 30% qtz + carb vning @ 70°-80°, patchy silic, 2-3% diss Py weak 80° fabric, shear? at lower contact.			30		mod	mod	3				296	209.8	210.8	1.0	0.121				.16				
														297	210.8	211.75	0.95	0.012				.12				

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. SDA-449
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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 %
211.75	230.5	HELT/ SP.	Heterolithic lapilli tuff grading from lapilli tuff to lapilli tuff agglomerate with block of altd porphyry, clast types included: altd porphyry, f.g. tuff, rare chert and scattered black siliceous argillite, all unsorted in grain-mass of cg tuff, weak to moderate pervasively sericite + 2-3% diss Py, scattered qtz+carb vnlets most @ 50-60°, lower gradational @209.0: 13cm qtz vn with comb qtz + 5% diss py in core @ 80°	209.0	209.13	wk	wk	wk mod	wk	3				12 7298	211.75	213.2	1.45	0.003				.12				
									5					299	213.2	214.7	1.5	0.002				.13				
														300	214.7	216.2	1.5	0.001				.13				
														150 001	216.2	217.7	1.5	0.002				.13				
														002	217.7	218.7	1.0	0.003				.11				
														003	218.7	219.7	1.0	0.006				.16				
														004	219.7	221.2	1.5	<0.001				.10				
														005	221.2	222.7	1.5	0.002				.14				
														006	222.7	224.2	1.5	<0.001				.09				
														007	224.2	225.7	1.5	0.003				.09				
														008	225.7	227.2	1.5	0.003				.11				
														009	227.2	228.7	1.5	0.001				.09				
														010	228.7	229.6	0.9	0.006				.11				
														011	229.6	230.5	0.9	0.020				.05				
230.5	232.5	SP/ HELT	mod to strong pervasive sericite + py masking clastic texture, 2% diss Py lower contact gradational			wk		strg		2				012	230.5	231.5	1.0	0.002				.10				
														150 013	231.5	232.5	1.0	0.002				.13				

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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo	tet	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
232.5	254.0	HFLT/ QSP.	Alt'd hetrolithic lapilli tuff as before, pervasive altn partly masking primary textures, some fragments very strong sericite altn, 5% qtz + carb vnlets/ vns to 3 cm, patchy <1 g py, rare amber sphalerite host in qtz + carb vns, vn'd @ 70°-80° @ 243-6 : 5cm py + qtz + carb vn @ 80°, 80% py c.g. lower contact gradational											<1	50014	232.5	234	1.5	0.002				.07				
															015	234.0	235.5	1.5	0.004				.13				
															016	235.5	237	1.5	0.009				.11				
															017	237.0	238.5	1.5	0.010				.23				
															018	238.5	240	1.5	0.003				.14				
															019	240.0	241.5	1.5	0.001				.10				
															020	241.5	242.5	1.0	0.007				.10				
															021	242.5	243.5	1.0	0.003				.06				
															022	243.5	244.0	0.5	0.018				.25				
															023	244.0	245	1.0	0.004				.20				
															024	245.0	246.5	1.5	0.017				.21				
															025	246.5	248	1.5	0.011				.20				
															026	248.0	249.5	1.5	0.008				.18				
															027	249.5	251	1.5	0.008				.19				
															028	251.0	252.5	1.5	0.009				.16				
															029	252.5	254.0	1.5	0.020				.13				
254.0	254.9	QTVN	80% qtz vning most @ 40°; <qtz + ser + py host, 5% patchy py & tetrahedrite, lower contact broken			80		stg	wk	5.				<1	030	254.0	254.9	0.9	0.021				.11				
															031	254.9	256.4	1.5	0.033				.18				
															032	256.4	257.9	1.5	0.022				.15				
															033	257.9	259.4	1.5	0.024				.13				
254.9	262.1	QSP.	qtz + ser + py altd f.g. to aphanitic, possible fine bed tuff or sed?, vague lapilli? 5-10% qtz-carb vning			10		stg	wk	5				tr.	034	259.4	260.4	1.0	0.057				.11				
															035	260.4	262.1	1.7	0.186				.24		*		

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SULPHURETS PROPERTY

Hole No. SA-449
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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 %
2621	2630	QTZN QCSV	70% irregular qtz vning w whispy bands qtz+py most @ 20°-30° low contact fracture/material			70		stkg	wk	7.				036	262.1	263.0	0.9	0.426				1.11				
2630	2669	QSP/ ANTF 2CSV	-serisite+pyrite altd f.g. vaguely bedded tuff with 40% qtz (carb) vning & wisps stockwork, weak patchy silic, most vning + vague bedding @ 30°-45°, lower contact vague			90		stkg	lo	7.				037	263.0	264.5	1.5	0.291				.36				
														038	264.5	265.7	1.2	0.135				.42				
														039	265.7	266.9	1.2	.033				.16				
														040	266.9	268.5	1.6	0.034				.10				
2669	2735	QTSW/ ANPP	40-50% white qtz stockwork on silic maga crystic andesite porphyry and/or bapilli tuff, blocky pseudo-morphed fspar maga crysts now white qtz to 1cm scattered through, 3-5% scattered diss py, 10% x-cutting white qtz vns to 3cm @ 45°, low contact sharp irregular.											041	268.5	270.0	1.5	0.006				.11				
														042	270.0	271.5	1.5	.017				.10				
														043	271.5	272.5	1.0	.006				.14				
														044	272.5	273.5	1.0	.003				.06				
2735	2744.0	DY	Andesite dyke, tan sharp lower contact @ 60°																							

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. SU4-449
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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB		Mineralization % Py	% Cp	% Mag	% Mo	bt.	Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
274.05	285	QSP/ HYPP	pervasive qtz + ser + py alt'd thru w 20% grading to 10% white qtz vning to 2cm most @ 45°-60°, primary texture partly masked, probable magmatic andesite porphyry w qtz pseudomorphed fspars, bxt could be lapilli tuff, 5% patchy diss py grading to 7%, @ 280.8: 5cm comb qtz vn @ 30° coated with 2% mg py + 2% tetrahedrite lower contact gradational.			sltg		sltg	tr.		5				<1%	150045	274.05	275	0.95	.018				.12				
																046	275	276	1.0	.011				.09				
																047	276	277	1.0	.006				.11				
																048	277	278	1.0	.018				.12				
																049	278	279	1.0	.460				.54		*		
																050	279	280	1.0	.043				.16				
																051	280.0	280.5	0.5	.011				.20				
																052	280.5	281.0	0.5	.183				14.29		*		
																053	281.0	281.5	0.5	.076				.24				
																054	281.5	282.5	1.0	.028				.16				
																055	282.5	283.5	1.0				?					
																056	283.5	284.5	1.0	.018				.08				
																057	284.5	285.5	1.0	.011				.09				
																058	285.5	286.5	1.0	.017				.15				
285	297.0	QSP/ AHFLT	pervasive qtz + ser + py alt'd with 10% qtz vn & qtz vn bx to 3cm wide @ 60°-70°, & 45°, primary texture partly masked as above bxt distinctly clastic w large lapilli of ser alt'd andesite porphyry and fg clasts, 7% patchy pyrite + asso pyrite thru, lower contact			sltg		sltg	tr.		7				tr.	059	286.5	287.5	1.0	.010				.16				
																060	287.5	288.5	1.0	.052				.19				
																061	288.5	289.5	1.0	.037				.15				
																062	289.5	290.5	1.0	.027				.21				
																063	290.5	291.5	1.0	.019				.17				
																064	291.5	292.5	1.0	.125				.22	*			
																065	292.5	293.5	1.0	.029				.18				
																066	293.5	294.5	1.0	.019				.13				
																067	294.5	295.5	1.0	.013				.16				
																068	295.5	297.0	1.5	.009				.60				

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. 594-99

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 %
297.0	297.5	FLT	strong fault to gouge @ 60° to 275.2. from 275.2–275.4: qtz + py healed qtz bx to 10% Py, from 275.4–275.0: grades to sericite altd			10		mod	wk	5/10				59865	297.0	297.5	0.5	.027				.30				
297.5	300.9	ARGT/ ARKS	intercalated argillite and f-g uniform textured arkose; sericite altd to arkose sections mod to strongly altd, 10% fine qtz+carb stock work host developed in arkose, 5% py host is arkose, bedding contorted from 20° to 60°, lower contact flamed arkose against argillite at 20°			wk		mod/ strg	wk/ mod.	5				070	297.5	299.0	1.5	.024				.17				
														071	299.0	300.0	1.0	.005				.06				
														072	300.0	300.9	0.9	.060				.30				
300.9	303.3	ARGT.	argillite: black minor intercalated grey arkose, bed 10–0°, 5% carb+qtz vnlets x-cutting and in bedding plans, rare x-cutting vn to 2cm to cg py, 5% Py mostly as 1–2mm vnlets @ 75°, low contact above bed @ 10°											073	300.9	302.1	1.2	.015				.37				
														074	302.1	303.3	1.2	.003				.17				

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. SX-449
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Interval (meters) From	To	Rock Type	Geologic Description	From	To	Alteration SIL	CHLOR	SER	CARB	Mineralization % Py	% Cp	% Mag	% Mo
303.3	305.2	ARKS	Arkose: f.g. uniform thru, wkly sericite altd, 10% fine qtz+carb+(Py) stockworking best in center of unit. lower contact sharp bsd @ 10°			wk		wk	mod	3			
305.2	305.7	ARGT.	argillite: black to light grey.; 2% fine qtz+carb vnlets. most @ 70°-80°, rare qtz+carb+py vnlets. lower contact distinct @ 80°			wk		wk	wk	1			
305.7	318.8	ARKS/ ARGT.	arkose and/or pervasively wkly ser. altd argillite, scattered dk grey to black remnants of argillite, vague bedding thru @ 0°-10°, x-cut by 5% qtz(carb) vnlets most at 70°-80°, and by 5% qtz+carb+py vnlets,			wk		wk	wk	3			
318.8	326.2	QSP/ SED.	qtz+ser+py altd sediments w rare vague bedding, x-cut by qtz+(carb) vns to 2cm. most @ 45°-60° and weak fine stock work patchy mg py and fine										

Assay Data Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	Core Data RQD %	Run	Recovery %
15007	303.3	304.3	1.0	.006				.10				
076	304.3	305.2	0.9	.023				.10				
077	305.2	305.7	0.5	.006				.07				
078	305.7	307.2	1.5	.028				.11				
079	307.2	308.7	1.5	.002				.05				
080	308.7	311.0	2.3	.123				.51	*			
081	311.0	313.2	2.2	.004				.09				
082	313.2	314.7	1.5	.003				.07				
083	314.7	316.2	1.5	.002				.06				
084	316.2	317.7	1.5	.001				.08				
085	317.7	318.8	1.1	.017				.09				
086	318.8	319.8	1.0	.009				.09				
087	319.8	320.8	1.0	.018				.06				
088	320.8	321.3	0.5	.054				.10				
089	321.3	322.3	1.0	.033				.15				
090	322.3	323.8	1.5	.007				.07				
091	323.8	325.0	1.2	.010				.03				
092	325.0	326.2	1.2	.024				.24				

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. SS4-449
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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 %
			pyrite vnlets most @ 80° from 320.8-321.0' 80% white qtz vning @ 70° lower contact sharp @ 80°																							
3262	3279	DY	Andesite dyke w 20% carb vning & stockwork, lower contact chilled sharp @ 80°				v wk	v wk	20	tr.																
3279	3292	QSP/SED	qtz + sericite + pyrite altd an bxfore w 15% irregular white qtz vnwps & patchy silic rare remnant of black argillite, vague bedding, lower contact gradational			15		mod stg	wk	3				0983	3279	3292	1.3	.002				.09				
3292	3298	SIZN	70% white qtz, irregular an silic & sericite altd sedi?, patchy black chlorite & qtz, 2% diss Py, lower contact gradational.			strg	wk	wk	wk	2				0984	3292	3298	0.6	.008				.13				
3285	3387	SP/SED	sericite + pyrite altd sediments moderately altd, vague bedding @ 20-10° 2-3% fine qtz+carb vnlets, 2% fine Py vnlets + diss Py.			wk		mod	wk	2				0985	3285	3313	1.45	.006				.09				
														0986	3313	3328	1.5	.001				.06				
														0987	3343	3358	1.5	.001				.06				
														0988	3358	3373	1.5	<.001				.04				
														0989	3373	3387	14	<.001				.06				

Hole No. S94-449

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NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

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 %
338.7	340.0	QSP/SED.	qtz + ser + py altd sediment with silt sections, bedding well preserved @ 60°-90°, disrupted silt bands, v. strong sericite altd bands, fine bands // to bedding is v. fine grained diss. py, low contact sharp, tight, healed shear @ 40°.			mod.		mod strg	wk	10				150 100	338.7	340.0	1.3	.003				.36				
340.0	341.7	ARGT/QSP.	50% black argillite interrelated with ser. + py + qtz altd bands; 10% qtz + carb stockwork + fracture filling, patchy massive v.f.g pyrite and diss py totalling 7%, lower contact sharp @ 80°			mod		mod	wk	7				101	340.0	341.5	1.5	.001				.30				
														102	341.5	343.0	1.5	.009				.38				
														103	343.0	344.7	1.7	.010				.21				
341.7	346.1	DY	Andesite dyke, tan 5% qtz + carb vnd, qtz + carb filled amygdules? w/ core axis, lower contact sharp @ 80					wk	wk	<1																

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. SX-445

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 %
346.4	363.6	ARGT/ ARKS.	predominately black to dark grey argillite with intercalated gritty arkose, well bedded with flame structures, wk section of sericite altn in gritty sections, 5-10% py vnlets bedding planes, bedded @ 10-20°, 5% carb (qtz) vning thru most @ 60°, lower contact gradational.					v wk	mod.	5/10				104	346.4	348.9	2.0	.035				.14					
														105	351.0	353.0	2.0	.002				.14					
														106	361.0	362.0	1.0	.001				.06					
363.6	366.9	ARGT/ SP.	argillite w gritty sections as above, 50% bleached by sericite altn and vn to 5 cm of cg pyrite + qtz at 45° totaling 5% @ 364.4 light sericite shear @ 30°. lower contact gradational			wk		wk mod	wk	5.				107	363.6	365.1	1.5	<.001				.08					
														108	365.1	366.1	1.0	<.001				.07					
														109	366.1	366.9	0.9	.001				.09					
366.9	374.1	ARGT/ SP	black argillite grading to sericite altd sediment, vague bedding @ 60°, 5% carb (qtz) vnlets			wk		wk mod	mod	2																	

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. SDH-499
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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 %
366.9	374.1		cont'd																							
			@ 369.0: tight chlorite rich shear @ 40°																							
			lower contact healed sor. sh @ 30°																							
374.1	395.5	QSP/ SCO	pervasive moderate to locally strong Sericite alt'n w scattered vns to 5cm of cg pyrite + qtz (carb) to 5cm @ 30° 5% scattered qtz (carb) vnlets thro most @ 30° lower contact marked by 0.5cm carb filled shear @ 25°			✓ wk		mod strg	wk	5				110	377.5	379.0	1.5	.001				.03				
														111	379	380.5	1.5	<.001				.07				
														112	380.5	382.0	1.5	<.001				.09				
														113	382.0	383.5	1.5	<.001				.05				
														114	383.5	385.0	1.5	.001				.06				
														115	385.0	386.5	1.5	.001				.11				
														116	386.5	388.0	1.5	<.001				.04				
														117	388.0	389.5	1.5	<.001				.07				
														118	389.5	391.0	1.5	<.001				.06				
														119	391.0	392.5	1.5	.001				.07				
														120	392.5	394	1.5	<.001				.08				
														121	394.0	395.5	1.5	<.001				.08				
395.5	396.0	VNBX	80% clast supported subround frags of sericite altd sed as above in groundmass of 10% diss py, 5% dark green chlorite and 5% qtz as irregular vnlets, low contact sharp tight healed shear @ 35°			S	S	strg	wk	10				122	395.5	396.0	0.5	<.001				.06				

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. SS4-449
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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 %
396.0	398.5	SP/SED.	pervasively alt'd bedded sediments, mod ser thru, bedding @ 0°-10°; rare 1mm qtz+carb vnlets @ 20° sharp at 20°			wk		mod	v. wk	23				123	396.0	397.2	1.2	.001				.08				
														124	397.2	398.5	1.3	.001				.07				
398.5	398.7	VNBX	2cm vn at top contact of diss py (10%) in ranamass of chl+qtz with fine ser alt'd fragp. @ 20°; fw to vn is bleached ser. fragp as above with 20% irregular vn admass, lower contact tight healed shear @ 20°											125	398.5	399.0	0.5	.001				.08				
398.7	417.6	SP/SED	pervasively sericite alt'd bedded sediments with rare remnant of dark grey to black argillite, scattered qtz+carb+py vns to 2cm with distinct strong sericite alt'n halored to 1cm wide @ 30°; 1%-1mm qtz+carb vnlets @ 10°-20°; 3% diss py, 2% py in vnlets			wk		mod strg	v. wk	5				126	399.0	400.5	1.5	<.001				.09				
														127	400.5	402.0	1.5	<.001				.09				
														128	402.0	403.5	1.5	<.001				.05				
														129	403.5	405.0	1.5	<.001				.09				
														130	405.0	406.5	1.5	<.001				.07				
														131	406.5	408.0	1.5	0.001				.05				
														132	408.0	409.5	1.5	0.001				.09				
														133	409.5	411.0	1.5	.001				.09				
														134	411.0	412.5	1.5	<.001				.03				
														135	412.5	414.0	1.5	<.001				.29				
														136	414.0	415.5	1.5	<.001				.09				
														137	415.5	416.5	1.0	<.001				.07				
														138	416.5	417.6	1.10	.001				.06				

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. SS9-449
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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 %
417.6	420.4	SP/ SED.	pervasive sericite alt'd bedded sediments as above but with the gradual appearance of tight low angled (10°) shears with wispy strong sericite, bedding evident at 0°-10°, 2% diss py, 3% in narrow qtz + carb vinlets with patchy dk green chlorite lower contact gradational			wk	wk	mod stkg	wk	5				139	417.6	418.7	2.1	<.001				.05				
																						40				
420.4	423.1	SP/ SED.	pervasive sericite alt'd bedded sediments as above but with 10% qtz + carb stockwork and tension gashes on fine network of tight sericite healed shears that increasing in intensity with depth, scattered strong sericite + pyrite vns to 2cm some at 90°, patch dark green chlorite., low contact gradational.			wk	2	mod stkg	wk	3-4				140	418.7	421.4	1.7	<.001				.05				
														141	421.4	422.4	1.0	"								
														142	422.4	423.1	0.7	0.006				50				

NEWHAWK GOLD MINES LTD.
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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 %
423.1	423.8	QSP/ (QTSW)	weak qtz stockwork imposed on weakly healed sheared fabric as above, 10% qtz stwk, 5% patchy Py lower contact broken.			10		stvg	wk	5				150148	423.1	423.8	0.7	0.006				.06				
423.8	424.1	FLT	fault: broken carbonate rich shear @ 15°			wk		stvg	stvg	5				144	423.8	424.8	1.0	0.004				.04				
424.1	426.3	QSP/ SH.	quartz + sericitized + pyrite altd, tight healed shears through at @ 0°–10°, with wispy and patchy strong sericite, 2% wispy patches of dark green chlorite, 3% discontinuous py + qtz vnlets @ 90°, 1–2% patchy v dissem py, lower contact tight healed shear @ 15°			2	2	mod stvg	wk	5				145	424.8	425.8	1.0	0.007				.08				
														146	425.8	426.3	0.5	0.007				0.10				
											PbS	Sph.	tet.													
426.3	427.0	QTZV/ SH.	qtz + sericite + pyrite healed shear with sharp bounding contacts @ 15° & 25°, centered by 10 cm wide calcite, qtz-rich vn @ 20° vs 3% V.G, 1% PbS, 3% amber sphalerite, 3% tetrahedrite			10		stvg	S	1	<1%	1%	1%	VG	147	426.3	427.0	0.7	15.865				32.38				

NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY

Hole No. SG-499
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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 %
427.0	431.9	SP/ SED.	sericite pyrite altd bedded sediment, x-cut by 10% qtz+carb+py+chl. vnlets and rare vn to 2cm at 80°, local v. strong whispy sericite + scattered fine chlorite rich vnlets <1mm; bedding @ 45° grading to 60°, lower contact grad.			5	3	stg	5	7				150148	427.0	428.0	1.0	0.083				.69				
														149	428.0	429.0	1.0	.001				.09				
														150	429.0	430.0	1.0	<.001				.10				
														151	430.0	431.0	1.0	.001				.06				
														152	431.0	431.9	0.9	.001				.07				
431.9	442.3	SP/ SED.	sericite pyrite altd bedded sediments as before with scattered qtz+carb+py+chl vnlets, scattered qtz+carb x cutting vnlets, 1% x cutting py vnlets, lower contact gradational.			wk	1	mod.	wk	3				153	431.9	433.3	1.4	<.001				.05				
														154	433.3	434.8	1.5	<.001				.04				
														155	434.8	436.3	1.5	<.001				.07				
														156	436.3	437.8	1.5	.001				.05				
														157	437.8	439.3	1.5	.001				.09				
														158	439.3	440.8	1.5	.002				.07				
														159	440.8	442.3	1.5	<.001				.06				
442.3	444.3	SP/ CQSW.	sericite pyrite altd sed. w 5% grading to 10% carbonate ± (qtz) stockwork lower contact sharp shear @ 30°			vwk	vwk	mod	mod.	2				160	442.3	443.3	1.0	.001				.06				
														161	443.3	444.3	1.0	.003				.07				
444.3	447.3	SP/ SED.	sericite pyrite altd sed, scattered py+qtz+carb vnlets to 2mm, rare chl+carb hairline fractures.											162	444.3	445.8	1.5	.001				.07				
														163	445.8	447.3	1.5	.003				.11				

NEWHAWK GOLD MINES LTD.
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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 %
447.3	450.9	HELT/SP.	mixed with sections of sericite altd sediments as above that could be large blocks, intervals of good lithic lapilli tuff, rare layer preps of sericite altd fspar porphyry, all disrupted by scattered tight shears at 40° weak to moderate sericite + dis pyrite altn thru, lower contact sharp @ 40°			mk		mod stg	mk	5				160	447.3	448.5	1.2	.010				.22				
														165	448.5	449.7	1.2	.010				.34				
														166	449.7	450.9	1.2	.005				.30				
450.9	451.6	SP/SED.	pervasive sericite pyrite, probable bedded sods, probable large block, low contact sharp tight shear @ 40°											167	450.9	451.6	0.7	.003				.15				
451.6	458.7	HELT/SP.	juxtaposed intervals of lithic lapilli tuff. as before and pervasive sericite altd sediments as before, all segmented by scattered tight, healed shears @ 40° lower contact sharp against gouge fault at 30°											168	451.6	453.1	1.5	.004				.27				
														169	453.1	454.6	1.5	.004				.15				
														170	454.6	456.1	1.5	.024				.29				
														171	456.1	457.6	1.5	.005				.22				
														172	457.6	458.7	1.1	.003				.15				

NEWHAWK GOLD MINES LTD.
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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 %
1587	1589	FLT	gouge @ 30° lower contact broken.					stg	wea		5																
1589	1623	SP.	bleached creamy grey throughout w disc and fine py veinlets thru @ 60°, badly broken & cleaved at 60°, tourb f.g. sediment, rare qtz + carb patches.			wk		stg		bbl	7.				150 HQ	458.9	460.6	1.7	.003				.05				
															174	460.6	462.3	1.7	.003				.04				
	1623		EOH.																								

APPENDIX II

ASSAY DATA

NEWHAWK GOLD MINES ETK 3054 1-Sep-94

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
44	127275	0.84	0.024	9.1	0.27
45	127276	1.03	0.030	5.8	0.17
46	127277	0.50	0.015	3.2	0.09
47	127278	0.41	0.012	11.0	0.32
48	127279	0.23	0.007	8.0	0.23
49	127280	0.30	0.009	9.3	0.27
50	127281	0.20	0.006	5.4	0.16
51	127282	0.21	0.006	11.1	0.32
52	127283	0.75	0.022	8.1	0.24
53	127284	0.42	0.012	4.8	0.14
54	127285	0.54	0.016	8.5	0.25
55	127286	1.14	0.033	5.5	0.16
56	127287	0.31	0.009	7.5	0.22
57	127288	0.44	0.013	4.6	0.13
58	127289	0.34	0.010	3.0	0.09
59	127290	1.01	0.029	3.7	0.11
60	127291	0.71	0.021	2.7	0.08
61	127292	0.67	0.020	2.6	0.08
62	127293	2.03	0.059	2.4	0.07
63	127294	0.58	0.017	2.5	0.07
64	127295	0.35	0.010	3.9	0.11
65	127296	0.71	0.021	5.3	0.16
66	127297	0.40	0.012	4.0	0.12
67	127298	0.11	0.003	4.1	0.12
68	127299	0.06	0.002	4.6	0.13

Frank J. Pezzotti, A.Sc.T.B.C.Certfied Assayer

NEWHAWK GOLD MINES ETK 3054 1-Sep-94

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
69	127300	0.05	0.001	4.5	0.13
70	150001	0.07	0.002	4.5	0.13
71	150002	0.11	0.003	3.6	0.11
72	150003	0.22	0.006	5.4	0.16
73	150004	<.03	<.001	3.5	0.10
74	150005	0.08	0.002	4.9	0.14
75	150006	<.03	<.001	3.1	0.09
76	150007	0.09	0.003	3.0	0.09
77	150008	0.10	0.003	3.6	0.11
78	150009	0.03	0.001	3.1	0.09
79	150010	0.20	0.006	3.6	0.11
80	150011	0.67	0.020	1.8	0.05
81	150012	0.06	0.002	3.5	0.10
82	150013	0.07	0.002	4.5	0.13
83	150014	0.06	0.002	2.4	0.07
84	150015	0.14	0.004	4.3	0.13
85	150016	0.31	0.009	3.6	0.11
86	150017	0.33	0.010	7.8	0.23
87	150018	0.10	0.003	4.7	0.14
88	150019	0.04	0.001	3.3	0.10
89	150020	0.24	0.007	3.5	0.10
90	150021	0.10	0.003	2.0	0.06
91	150022	0.61	0.018	8.6	0.25
92	150023	0.13	0.004	6.9	0.20
93	150024	0.57	0.017	7.2	0.21
94	150025	0.39	0.011	7.0	0.20
95	150026	0.28	0.008	6.2	0.18
96	150027	0.26	0.008	6.6	0.19
97	150028	0.31	0.009	5.6	0.16
98	150029	0.68	0.020	4.5	0.13
99	150030	0.72	0.021	3.8	0.11
100	150031	1.14	0.033	6.3	0.18
101	150032	0.76	0.022	5.0	0.15
102	150033	0.81	0.024	4.4	0.13
103	150034	1.97	0.057	3.7	0.11
104	150035	6.38	0.186	8.2	0.24
105	150036	14.61	0.426	37.9	1.11
106	150037	8.25	0.241	12.3	0.36

Frank J. Pezzotti, A.Sc.T.B.C.Certfied Assayer

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Fax (604) 573-4557

CERTIFICATE OF ASSAY ETS3057

NEWHAWK GOLD MINES
625 HOWE ST- SUITE 860
VANCOUVER, B.C.
V6C-2T6

1-Sep-94

Attention: Fred Hewitt/M.McPherson

138 rock samples received August 16, 1994
Sample run date: August 23, 1994
Samples Submitted By: J.Watkins/B.McDonough
Client Project Number: Sulphurets
Shipment Number: 28

ET #	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
11	150038	4.62	0.135	14.3	0.42
12	150039	1.13	0.033	5.6	0.16
13	150040	1.15	0.034	3.5	0.10
14	150041	0.19	0.006	3.6	0.11
15	150042	0.60	0.017	3.5	0.10
16	150043	0.22	0.006	4.7	0.14
17	150044	0.09	0.003	2.1	0.06
18	150045	0.61	0.018	4.2	0.12
19	150046	0.38	0.011	3.0	0.09
20	150047	0.21	0.006	3.7	0.11
21	150048	0.62	0.018	4.1	0.12
22	150049	15.76	0.460	18.6	0.54

Frank J.Pezzotti, A.Sc.T. B.C.Certified Assayer

NEWHAWK GOLD MINES ETS3057 1-Sep-94

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
23	150050	1.49	0.043	5.6	0.16
24	150051	0.38	0.011	6.7	0.20
25	150052	3.53	0.103	490.0	14.29
26	150053	2.61	0.076	8.3	0.24
27	150054	0.95	0.028	5.4	0.16
28	150056	0.62	0.018	2.7	0.08
29	150057	0.37	0.011	3.2	0.09
30	150058	0.60	0.017	5.1	0.15
31	150059	0.34	0.010	5.6	0.16
32	150060	1.79	0.052	6.4	0.19
33	150061	1.27	0.037	5.1	0.15
34	150062	0.93	0.027	7.3	0.21
35	150063	0.65	0.019	5.9	0.17
36	150064	4.27	0.125	7.4	0.22
37	150065	1.01	0.029	6.2	0.18
38	150066	0.66	0.019	4.3	0.13
39	150067	0.44	0.013	5.5	0.16
40	150068	0.32	0.009	20.6	0.60
41	150069	0.91	0.027	10.2	0.30
42	150070	0.84	0.024	5.7	0.17
43	150071	0.18	0.005	2.1	0.06
44	150072	2.06	0.060	10.2	0.30
45	150073	0.53	0.015	12.7	0.37
46	150074	0.11	0.003	5.9	0.17
47	150075	0.19	0.006	3.4	0.10
48	150076	0.78	0.023	3.3	0.10
49	150077	0.22	0.006	2.4	0.07
50	150078	0.96	0.028	3.6	0.11
51	150079	0.08	0.002	1.8	0.05
52	150080	4.23	0.123	17.3	0.51
53	150081	0.13	0.004	3.2	0.09
54	150082	0.11	0.003	2.5	0.07
55	150083	0.07	0.002	2.1	0.06
56	150084	0.05	0.001	2.7	0.08
57	150085	0.60	0.017	2.9	0.09
58	150086	0.32	0.009	3.1	0.09
59	150087	0.62	0.018	2.0	0.06
60	150088	1.86	0.054	3.3	0.10
61	150089	1.13	0.033	5.2	0.15
62	150090	0.23	0.007	2.4	0.07
63	150091	0.35	0.010	1.0	0.03
64	150092	0.84	0.024	8.1	0.24
65	150093	0.07	0.002	2.9	0.09

Frank J.Pezzotti, A.Sc.T. B.C.Certified Assayer

NEWHAWK GOLD MINES ETS3057 1-Sep-94

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
66	150094	0.28	0.008	4.3	0.13
67	150095	0.19	0.006	3.0	0.09
68	150096	0.04	0.001	2.1	0.06
69	150097	0.03	0.001	1.9	0.06
70	150098	<.03	<.001	1.5	0.04
71	150099	<.03	<.001	2.0	0.06
72	150100	0.09	0.003	12.4	0.36
73	150101	0.05	0.001	10.4	0.30
74	150102	0.31	0.009	13.1	0.38
75	150103	0.35	0.010	7.1	0.21
76	150104	1.20	0.035	4.9	0.14
77	150105	0.06	0.002	4.8	0.14
78	150106	0.03	0.001	1.9	0.06
79	150107	<.03	<.001	2.8	0.08
80	150108	<.03	<.001	2.4	0.07
81	150109	0.03	0.001	3.0	0.09
82	150110	0.03	0.001	1.1	0.03
83	150111	<.03	<.001	2.3	0.07
84	150112	<.03	<.001	3.0	0.09
85	150113	<.03	<.001	1.7	0.05
86	150114	0.04	0.001	2.2	0.06
87	150115	0.03	0.001	3.8	0.11
88	150116	<.03	<.001	1.3	0.04
89	150117	<.03	<.001	2.3	0.07
90	150118	<.03	<.001	2.2	0.06
91	150119	0.03	0.001	2.3	0.07
92	150120	<.03	<.001	2.7	0.08
93	150121	<.03	<.001	2.7	0.08
94	150122	<.03	<.001	2.2	0.06
95	150123	0.03	0.001	2.6	0.08
96	150124	0.04	0.001	2.3	0.07
97	150125	0.03	0.001	2.8	0.08
98	150126	<.03	<.001	2.9	0.09
99	150127	<.03	<.001	3.1	0.09
100	150128	<.03	<.001	1.6	0.05
101	150129	<.03	<.001	1.3	0.04
102	150130	<.03	<.001	2.4	0.07
103	150131	0.03	0.001	1.6	0.05
104	150132	0.04	0.001	1.5	0.04
105	150133	0.03	0.001	1.4	0.04
106	150134	<.03	<.001	1.0	0.03
107	150135	<.03	<.001	10.0	0.29
108	150136	<.03	<.001	1.3	0.04

Frank J.Pezzotti, A.Sc.T. B.C.Certified Assayer

NEWHAWK GOLD MINES ETS3057 1-Sep-94

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
109	150137	<.03	<.001	2.4	0.07
110	150138	0.03	0.001	1.9	0.06
111	150139	<.03	<.001	1.8	0.05
112	150140	<.03	<.001	1.7	0.05
113	150149	0.03	0.001	3.1	0.09
114	150150	<.03	<.001	3.3	0.10
115	150151	0.03	0.001	2.1	0.06
116	150152	0.03	0.001	2.3	0.07
117	150153	<.03	<.001	1.8	0.05
118	150154	<.03	<.001	1.5	0.04
119	150155	<.03	<.001	2.4	0.07
120	150156	0.03	0.001	1.8	0.05
121	150157	0.04	0.001	3.2	0.09
122	150158	0.06	0.002	2.3	0.07
123	150159	<.03	<.001	1.9	0.06
124	150160	0.04	0.001	2.0	0.06
125	150161	0.10	0.003	2.3	0.07
126	150162	0.05	0.001	2.4	0.07
127	150163	0.10	0.003	3.9	0.11
128	150164	0.33	0.010	7.4	0.22
129	150165	0.34	0.010	11.7	0.34
130	150166	0.18	0.005	10.3	0.30
131	150167	0.10	0.003	5.2	0.15
132	150168	0.13	0.004	9.3	0.27
133	150169	0.15	0.004	5.1	0.15
134	150170	0.83	0.024	10.0	0.29
135	150171	0.16	0.005	7.5	0.22
136	150172	0.09	0.003	5.1	0.15
137	150173	0.11	0.003	1.7	0.05
138	150174	0.11	0.003	1.2	0.04

Frank J.Pezzotti, A.Sc.T./B.C.Certified Assayer

NEWHAWK GOLD MINES ETK 3050 25-Aug-94

ET #.	Tag #	Au (g/t)	Au (oz/t)	Metallics Au (g/t)	Metallics Au (oz/t)	Ag (g/t)	Ag (oz/t)
81	150142	0.21	0.006			2.5	0.07
82	150143	0.19	0.006			2.1	0.06
83	150144	0.13	0.004			1.3	0.04
84	150145	0.24	0.007			2.7	0.08
85	150146	0.23	0.007			3.3	0.10
86	150147			1572.72	45.865	1110.3	32.38
87	150148	2.83	0.083			3.2	0.09
QC/DATA:							
Resplit #:							
RS/7	16781	8.68	0.253				
RS/50	127219	0.11	0.003			19.6	0.57
RS/80	127249	0.17	0.005			8.2	0.24
Repeat #:							
1	16775	4.47	0.130			160.5	4.68
1	16775	4.58	0.134				
39	16776					15.6	0.46
77	16776					7.7	0.23
Standard							
	STD 1991					1.4	0.04
	STD 1991					1.2	0.04
	STD 1991					1.8	0.05

NOTE: Average values are reported where repeat assays are performed.
Screened "Metallic Assays" are performed on sample resplits screened to -140 mesh.

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B.C. Certified Assayer

NEWHAWK GOLD MINES ETK 3054 1-Sep-94

QC/DATA:

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
Resplit #:					
R/S10	16808	3.27	0.095		
R/S11	16809	0.08	0.002		
R/S12	16810	0.71	0.021		
R/S38	127269			710.0	20.71
R/S78	150009			3.4	0.10
R/S109	14814			3.0	0.09
Repeat #:					
77	150008			3.6	0.11

NOTE: **Average values are reported where repeat assays are performed.**
Screened "Metallic Assays" are performed on sample resplits screened to -140 mesh.

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B.C. Certified Assayer

Et #.	Tag #	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Tl (ppm)	Zn (ppm)
44	127275	9.0	565	70	<5	<1	12	<5	<10	46
45	127276	6.0	540	59	<5	<1	12	5	<10	65
46	127277	3.6	485	25	<5	<1	16	<5	<10	42
47	127278	11.2	345	32	<5	<1	14	5	<10	39
48	127279	7.8	350	21	<5	<1	10	<5	<10	48
49	127280	9.8	420	20	<5	<1	16	5	<10	84
50	127281	5.4	405	16	<5	<1	18	5	<10	55
51	127282	15.0	60	43	<5	<1	8	30	<10	46
52	127283	9.2	420	46	<5	<1	4	10	<10	21
53	127284	5.4	535	21	<5	<1	10	10	<10	25
54	127285	8.4	1020	28	<5	<1	26	10	<10	176
55	127286	6.0	705	31	<5	<1	20	10	<10	80
56	127287	8.0	530	29	<5	1	12	15	<10	26
57	127288	4.0	480	21	<5	<1	14	15	<10	47
58	127289	2.8	480	20	<5	1	16	10	<10	37
59	127290	3.2	845	24	<5	<1	12	<5	<10	43
60	127291	3.2	880	17	<5	<1	8	<5	<10	40
61	127292	2.4	625	16	<5	<1	14	<5	<10	35
62	127293	2.0	365	43	<5	<1	38	<5	<10	131
63	127294	2.8	525	44	<5	<1	44	<5	<10	158
64	127295	3.8	495	27	<5	1	20	<5	<10	29
65	127296	5.2	310	24	<5	2	10	<5	<10	15
66	127297	4.0	280	31	<5	<1	24	5	<10	60
67	127298	3.6	420	61	<5	<1	72	<5	<10	230
68	127299	3.6	350	53	<5	<1	114	<5	<10	361
69	127300	4.2	310	53	<5	<1	112	<5	<10	343
70	150001	4.2	300	59	<5	<1	94	<5	<10	346
71	150002	3.4	270	54	<5	<1	38	<5	<10	88

NEWHAWK GOLD MINES ETS3054 25-Aug-94

Et #.	Tag #	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Tl (ppm)	Zn (ppm)
72	150003	4.6	255	33	<5	<1	40	<5	<10	127
73	150004	3.0	185	46	<5	1	56	<5	<10	158
74	150005	4.4	275	32	<5	<1	60	<5	<10	152
75	150006	2.8	220	44	<5	<1	50	<5	<10	170
76	150007	2.4	240	48	<5	<1	38	<5	<10	140
77	150008	3.6	285	48	<5	<1	68	<5	<10	216
78	150009	2.8	265	45	<5	<1	58	<5	<10	156
79	150010	4.0	225	54	<5	<1	42	5	<10	133
80	150011	2.0	195	25	<5	1	76	10	<10	170
81	150012	3.6	180	36	<5	<1	60	15	<10	124
82	150013	4.0	485	42	<5	1	62	5	<10	80
83	150014	2.4	270	30	<5	<1	30	<5	<10	57
84	150015	4.4	275	36	<5	<1	66	<5	<10	1194
85	150016	3.4	120	47	<5	<1	50	<5	<10	112
86	150017	7.6	215	65	<5	<1	62	<5	<10	109
87	150018	5.2	155	60	<5	<1	34	<5	<10	79
88	150019	3.4	130	37	<5	<1	26	5	<10	46
89	150020	3.6	160	36	<5	<1	38	<5	<10	74
90	150021	2.2	80	39	<5	<1	22	<5	<10	48
91	150022	9.0	455	29	<5	<1	32	<5	<10	44
92	150023	7.0	100	34	<5	<1	46	<5	<10	88
93	150024	7.2	235	24	<5	<1	36	<5	<10	58
94	150025	7.4	110	42	<5	<1	56	<5	<10	138
95	150026	6.8	105	42	<5	28	56	5	<10	94
96	150027	7.4	80	50	<5	4	62	<5	<10	177
97	150028	5.4	95	43	<5	<1	58	<5	<10	161
98	150029	4.2	125	42	<5	4	40	<5	<10	152
99	150030	3.6	85	58	<5	18	34	<5	<10	135
100	150031	6.0	45	180	<5	2	16	<5	<10	44
101	150032	4.2	90	124	<5	6	16	5	<10	47
102	150033	4.4	100	119	<5	2	22	10	<10	66
103	150034	3.2	115	46	<5	<1	20	10	<10	35
104	150035	7.8	115	130	<5	38	24	<5	<10	42
105	150036	>30	95	110	<5	15	26	25	<10	57
106	150037	12.2	110	58	<5	12	18	<5	<10	17

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CERTIFICATE OF ANALYSIS ETS 3057

NEWHAWK GOLD MINES
#860-625 HOWE STREET
VANCOUVER, B.C.
V8Y-3A5

30-Aug-94

ATTENTION: Fred Hewett/Margaret McPherson

138 rock samples received August 16, 1994
Sample run date: August 26, 1994
Samples Submitted By: J.Watkins/B.McDonough
Client Project Number: Sulphurets
Shipment Number: 28

Et #.	Tag #	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Tl (ppm)	Zn (ppm)
11	150038	13.2	295	119	<5	15	560	10	<10	438
12	150039	5.2	70	22	<5	43	88	<5	<10	71
13	150040	3.6	60	12	<5	13	40	<5	<10	35
14	150041	2.6	65	14	<5	4	32	<5	<10	41
15	150042	3.4	70	11	<5	5	28	<5	<10	79
16	150043	4.2	70	13	5	6	34	<5	<10	64
17	150044	2.8	55	8	<5	5	14	<5	<10	26
18	150045	4.2	105	23	<5	13	26	<5	<10	47
19	150046	2.6	100	12	<5	4	30	<5	<10	59
20	150047	3.8	80	16	<5	4	40	<5	<10	68
21	150048	3.8	200	22	<5	46	40	<5	<10	85
22	150049	18.0	245	18	<5	4	26	<5	<10	99
23	150050	5.8	970	23	<5	8	22	<5	<10	120
24	150051	6.4	255	16	5	5	44	<5	<10	102
25	150052	>30	215	342	<5	2	642	305	<10	1607

NEWHAWK GOLD MINES ETS 3057 Eco-Tech Laboratories Ltd.

Et #.	Tag #	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Tl (ppm)	Zn (ppm)
26	150053	9.4	595	43	<5	<1	24	<5	<10	58
27	150054	5.4	375	30	<5	3	20	<5	<10	58
28	150056	3.2	225	23	<5	2	22	<5	<10	42
29	150057	3.8	175	20	<5	8	20	<5	<10	35
30	150058	5.6	225	21	<5	2	22	<5	<10	53
31	150059	5.2	160	25	<5	3	28	<5	<10	74
32	150060	6.2	385	56	<5	<1	24	<5	<10	49
33	150061	5.2	370	58	<5	1	26	<5	<10	76
34	150062	6.8	615	39	<5	<1	22	<5	<10	41
35	150063	5.2	415	22	5	3	32	<5	<10	66
36	150064	6.8	325	13	<5	2	38	<5	<10	94
37	150065	5.4	520	16	<5	2	32	5	<10	80
38	150066	4.2	345	14	<5	1	14	<5	<10	35
39	150067	5.8	340	19	<5	4	24	<5	<10	61
40	150068	24.0	265	30	<5	2	54	20	<10	67
41	150069	11.6	1180	92	<5	2	168	15	<10	1075
42	150070	6.2	2370	66	10	2	158	10	<10	395
43	150071	2.2	1150	44	<5	<1	64	10	<10	230
44	150072	10.8	3785	129	<5	13	108	20	<10	252
45	150073	13.8	2955	84	<5	<1	94	5	<10	162
46	150074	6.8	2495	93	<5	1	74	10	<10	502
47	150075	3.8	2345	77	<5	<1	44	20	<10	179
48	150076	4.4	3110	73	<5	2	22	20	<10	59
49	150077	3.4	1720	61	<5	<1	30	15	<10	87
50	150078	4.4	2145	86	<5	<1	20	20	<10	59
51	150079	3.0	375	56	<5	<1	6	10	<10	44
52	150080	18.4	575	104	5	1	38	15	<10	496
53	150081	3.2	790	86	10	<1	30	15	<10	165
54	150082	3.4	510	85	<5	<1	16	5	<10	59
55	150083	2.2	1030	74	5	3	30	10	<10	102
56	150084	3.0	405	92	<5	1	22	10	<10	121
57	150085	2.8	1955	87	<5	<1	18	15	<10	82
58	150086	3.0	855	276	<5	<1	8	15	<10	38
59	150087	2.6	150	38	<5	<1	36	10	<10	59
60	150088	3.4	275	45	<5	3	48	15	<10	539
61	150089	5.8	145	70	<5	<1	28	15	<10	39
62	150090	3.2	155	57	<5	3	4	10	<10	34
63	150091	0.8	75	24	<5	1	8	<5	<10	21
64	150092	8.8	80	21	<5	3	68	<5	<10	125
65	150093	3.0	195	90	<5	1	12	10	<10	59
66	150094	4.2	210	110	5	3	20	<5	<10	81
67	150095	4.0	175	80	<5	<1	22	<5	<10	57
68	150096	2.4	100	133	<5	3	6	<5	<10	19
69	150097	2.4	50	62	<5	3	20	<5	<10	21
70	150098	2.4	60	56	<5	3	12	10	<10	26
71	150099	2.0	100	55	<5	4	6	<5	<10	16
72	150100	13.6	180	114	<5	23	50	<5	<10	113
73	150101	10.8	205	120	<5	19	56	5	<10	157
74	150102	13.0	830	153	<5	6	48	<5	<10	59
75	150103	8.0	480	126	5	3	24	<5	<10	36

NEWHAWK GOLD MINES ETS 3057 Eco-Tech Laboratories Ltd.

Et #.	Tag #	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Tl (ppm)	Zn (ppm)
76	150104	5.2	635	142	5	<1	48	5	<10	146
77	150105	4.6	645	100	<5	3	18	5	<10	55
78	150106	3.6	730	141	<5	6	22	10	<10	74
79	150107	2.8	590	110	5	8	22	5	<10	74
80	150108	2.8	460	122	<5	5	18	10	<10	50
81	150109	3.4	635	139	<5	5	30	10	<10	63
82	150110	1.2	60	80	<5	7	16	15	<10	237
83	150111	2.4	50	96	<5	3	30	<5	<10	198
84	150112	3.0	40	107	5	2	34	<5	<10	156
85	150113	1.8	105	130	<5	7	28	15	<10	217
86	150114	2.4	180	127	<5	2	36	10	<10	159
87	150115	4.0	175	103	<5	1	62	10	<10	216
88	150116	1.6	110	30	<5	4	58	10	<10	290
89	150117	2.0	85	77	<5	5	42	15	<10	208
90	150118	2.4	120	112	<5	2	38	10	<10	254
91	150119	2.2	90	127	5	3	46	10	<10	257
92	150120	2.6	105	124	<5	7	38	10	<10	209
93	150121	2.8	85	150	<5	6	16	10	<10	198
94	150122	2.0	150	117	<5	7	22	10	<10	155
95	150123	2.4	60	146	<5	20	34	15	<10	263
96	150124	2.2	130	123	<5	18	30	<5	<10	196
97	150125	3.6	305	93	<5	16	50	5	<10	150
98	150126	2.8	150	123	<5	21	58	10	<10	355
99	150127	2.6	85	154	<5	33	60	10	<10	301
100	150128	2.0	50	118	<5	2	26	20	<10	148
101	150129	2.0	65	132	<5	9	26	15	<10	160
102	150130	3.0	85	171	<5	8	16	15	<10	107
103	150131	1.6	35	107	5	22	12	<5	<10	57
104	150132	1.4	70	104	5	14	28	10	<10	170
105	150133	2.0	40	146	<5	11	22	10	<10	69
106	150134	1.4	35	82	5	7	12	5	<10	34
107	150135	2.2	50	160	<5	16	8	5	<10	58
108	150136	1.6	70	67	<5	21	20	10	<10	60
109	150137	2.2	100	92	<5	24	36	5	<10	159
110	150138	2.4	135	147	<5	<1	32	10	<10	129
111	150139	2.0	105	137	5	16	24	10	<10	115
112	150140	1.2	210	143	5	4	32	10	<10	82
113	150149	3.2	320	158	<5	<1	62	5	<10	177
114	150150	2.8	320	139	<5	1	28	<5	<10	148
115	150151	2.4	295	93	<5	1	24	<5	<10	133
116	150152	2.2	335	122	<5	<1	34	<5	<10	83
117	150153	2.4	210	131	<5	<1	20	10	<10	125
118	150154	1.8	85	104	<5	<1	26	5	<10	109
119	150155	3.2	105	150	<5	<1	28	15	<10	237
120	150156	2.2	115	134	<5	<1	20	15	<10	97
121	150157	3.4	110	187	<5	<1	48	10	<10	191
122	150158	2.2	175	122	<5	<1	20	15	<10	112
123	150159	2.0	200	143	5	<1	20	10	<10	111
124	150160	1.8	195	115	<5	2	30	5	<10	144
125	150161	2.8	315	126	<5	8	16	10	<10	85

NEWHAWK GOLD MINES ETS 3057 Eco-Tech Laboratories Ltd.

Et #.	Tag #	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Tl (ppm)	Zn (ppm)
126	150162	2.2	355	116	<5	9	34	10	<10	108
127	150163	4.2	430	118	<5	2	98	5	<10	120
128	150164	7.4	510	34	5	4	216	<5	<10	364
129	150165	12.2	340	59	<5	4	108	<5	<10	263
130	150166	11.4	450	72	<5	6	94	<5	<10	284
131	150167	5.6	440	103	<5	5	28	5	<10	76
132	150168	10.0	510	84	<5	16	64	<5	<10	134
133	150169	5.4	490	86	<5	11	34	<5	<10	325
134	150170	10.4	480	95	<5	6	44	10	<10	108
135	150171	8.8	445	123	<5	9	28	<5	<10	153
136	150172	5.8	540	113	<5	10	26	<5	<10	70
137	150173	2.2	85	109	<5	5	38	<5	<10	100
138	150174	1.6	55	121	5	4	42	<5	<10	88
QC/DATA:										
Resplit #:										
RS/41	150069	12.0	1230	93	<5	2	176	20	<10	1025
RS/81	150109	3.6	630	140	<5	6	30	15	<10	67
RS/121	150157	3.4	120	175	<5	<1	52	10	<10	190
RS/137	150173	1.4	80	104	<5	4	36	<5	<10	94
Repeat #:										
1	14429	>30	245	21	5	2	248	20	<10	259
39	150067	5.4	345	18	<5	4	24	<5	<10	57
77	150105	4.4	635	102	<5	2	20	10	<10	56
115	150151	2.6	325	94	<5	2	26	<5	<10	133
Standard:		1.6	65	88	5	<1	20	5	<10	76
		1.6	70	85	5	<1	22	5	<10	77
		1.8	65	82	<5	<1	20	5	<10	74
		1.2	70	80	<5	<1	22	5	<10	77

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/NewhawkS

NEWHAWK GOLD MINES ETS3050 19-Aug-94

Et #.	Tag #	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Tl (ppm)	Zn (ppm)
81	150142	1.4	285	158	<5	<1	36	10	<10	73
82	150143	1.4	260	140	<5	14	40	10	<10	84
83	150144	1.0	185	116	<5	4	36	10	<10	73
84	150145	2.0	260	177	<5	10	52	10	<10	101
85	150146	2.6	250	161	<5	22	58	10	<10	90
86	150147	>30	370	407	10	<1	658	20	<10	1245
87	150148	2.6	330	152	<5	4	68	10	<10	167
QC/DATA:										
Resplit #:										
R/S7	16781	>30	370	95	<5	12	2320	100	<10	1080
R/S50	127219	17.6	300	50	<5	7	60	10	<10	43
R/S80	127249	5.2	155	39	<5	4	16	<5	<10	31
Repeat #:										
1	16775	>30	290	27	<5	10	1638	90	<10	750
39	127208	14.8	185	88	<5	3	150	10	<10	251
77	127246	6.4	125	47	<5	6	28	5	<10	89
Standard: 1991										
		1.0	65	88	<5	<1	24	5	<10	76
		1.2	65	86	<5	<1	22	<5	<10	81
		1.0	70	86	<5	<1	22	5	<10	85

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

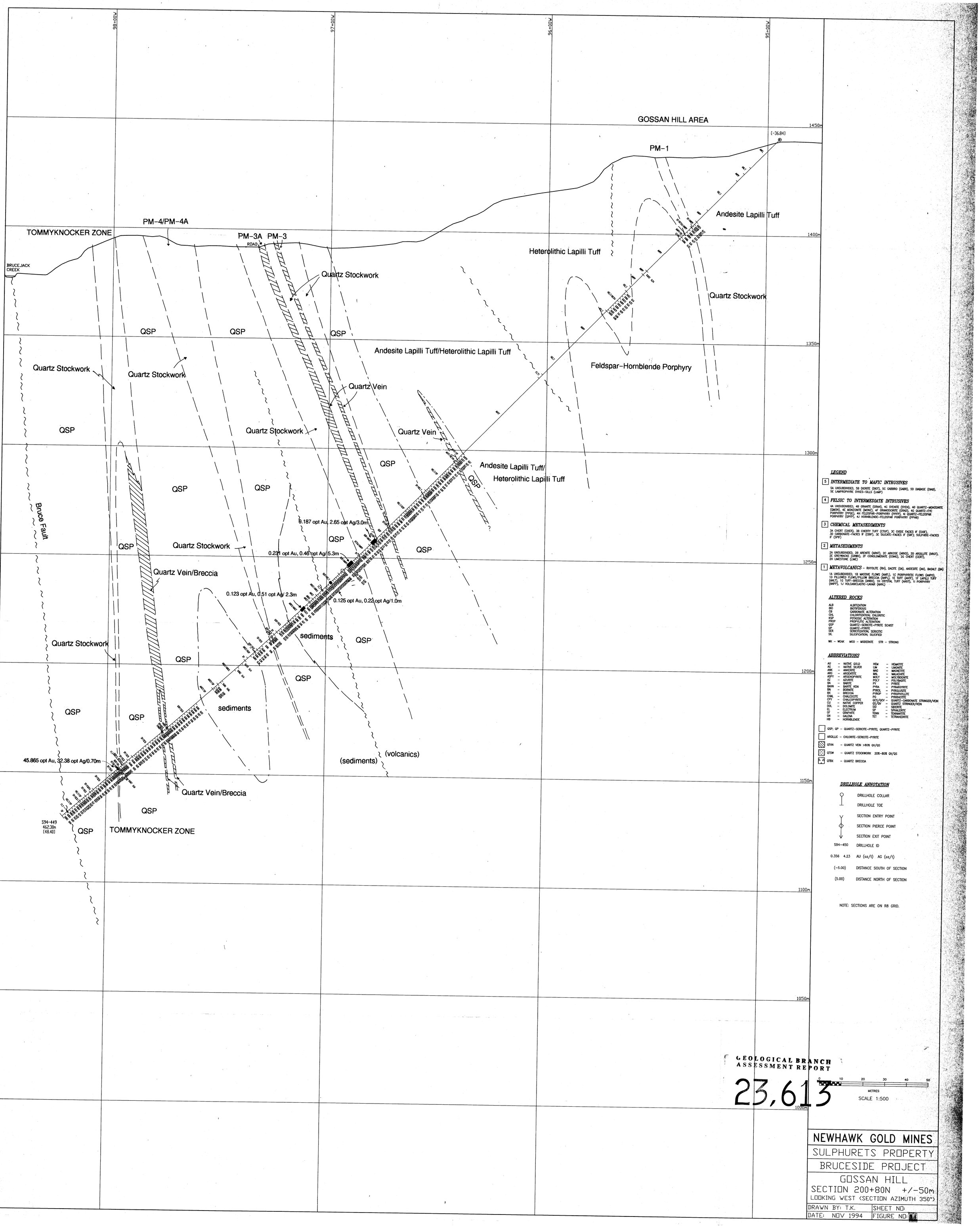
XLS/NewhawkS
df#3044

NEWHAWK GOLD MINES ETS3054 25-Aug-94

Et #.	Tag #	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Tl (ppm)	Zn (ppm)
QC/DATA:										
Resplit #:										
R/S38	127269	>30	310	554	<5	9	1148	235	<10	1705
R/S78	150009	2.8	275	45	<5	<1	58	<5	<10	168
R/S109	14814	3.2	260	12	<5	<1	32	<5	<10	51
Repeat #:										
1	16799	4.6	120	8	<5	7	116	10	<10	14
39	127270	8.0	55	129	<5	<1	28	5	<10	95
77	150008	3.8	270	44	<5	<1	70	<5	<10	224
Standard: 1991										
		1.2	75	85	<5	<1	20	5	<10	76
		1.4	80	82	<5	<1	20	5	<10	79
		1.2	80	80	<5	<1	22	5	<10	76

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/NewhawkS
df#3054



LEGEND

5 *INTERMEDIATE TO MAFIC INTRUSIVES*

5A UNSUBDIVIDED, 5B DIORITE (DIOT), 5C GABBRO (GABR), 5D DIABASE (DIAB), 5E LAMPROPHYRITIC DYKES-SILLS (LAMP)

4 *FELSIC TO INTERMEDIATE INTRUSIVES*

4A UNSUBDIVIDED, 4B GRANITE (GRAN), 4C SYENITE (SYEN), 4D QUARTZ-MONZONITE (QMON), 4E MONZONITE (MONZ), 4F GRANODIORITE (GRAD), 4G QUARTZ-EYE PORPHYRY (FPQE), 4H FELDSPAR-PORPHYRY (FPYP), 4I QUARTZ-FELDSPAR PORPHYRY (QFPP), 4J HORNBLENDE-FELDSPAR PORPHYRY (FPHB)

3 *CHEMICAL METASEDIMENTS*

3A CHERT (CHER), 3B CHERTY TUFF (CTUF), 3C OXIDE FACIES IF (OXIF), 3D CARBONATE-FACIES IF (CBIF), 3E SILICATE-FACIES IF (SIF); SULPHIDE-FACIES IF (SPIF)

2 *METASEDIMENTS*

2A UNSUBDIVIDED, 2B ARENITE (ARNT), 2C ARKOSE (ARKS), 2D ARGILLITE (ARGT), 2E GREYWACKE (GRWK), 2F CONGLOMERATE (CONG), 2G CHERT (CERT), 2H LIMESTONE (LIME)

1 *METAVOLCANICS* - RHYOLITE (RH), DACITE (DA), ANDESITE (AN), BASALT (BA)

1A UNSUBDIVIDED, 1B MASSIVE FLOWS (ANFL), 1C PORPHYRITIC FLOWS (ANPO), 1D PILLOWED FLOWS/PILLOW BRECCIA (ANPL), 1E TUFF (ANTF), 1F LAPILLI TUFF (ANLT), 1G TUFF-BRECCIA (ANBX), 1H CRYSTAL TUFF (ANXT), 1I PORPHYRY (ANPP), 1J VOLCANICLASTIC-LAHAR (ANVL)

ALTERED ROCKS

ALB	ALBITIZATION
BIO	BIOTITEROUS
CB	CARBONATE ALTERATION
CHL	CHLORITIZATION; CHLORITIC
KSP	POTASSIC ALTERATION
PROP	PROPYLITIC ALTERATION
QSP	QUARTZ-SERICITE-PYRITE SCHIST
QP	QUARTZ-PYRITE
SER	SERICITIZATION; SERICITIC
SIL	SILICIFICATION; SILICIFIED

WK - WEAK MOD - MODERATE STR - STRONG

ABBREVIATIONS

AU	NATIVE GOLD	HEM	HEMATITE
AG	NATIVE SILVER	LIM	LIMONITE
ANK	ANKERITE	MAG	MAGNETITE
ARG	ARGENTITE	MAL	MALACHITE
ASPY	ARSENOPYRITE	MOLY	MOLYBDENITE
AZ	AZURITE	POLY	POLYBASITE
BA	BARITE	PY	PYRITE
BAVN	BARITE VEIN	PYRA	PYRARGYRITE
BN	BORNITE	PYROL	PYROLUSITE
BX	BRECCIA	PYROP	PYROPHYLLITE
CHAL	CHALCOCITE	PO	PYRRHOTITE
CPY	CHALCOPYRITE	QCS/QCV	QUARTZ-CARBONATE STRINGER/VEIN
CU	NATIVE COPPER	QS/QV	QUARTZ STRINGER/VEIN
DOL	DOLOMITE	SID	SIDERITE
EL	ELECTRUM	SP	SPHALERITE
GF	GRAPHITE	TENN	TENNANTITE
GN	GALENA	TET	TETRAHEDRITE
HB	HORNBLENDE		

QSP; QP - QUARTZ-SERICITE-PYRITE; QUARTZ-PYRITE

ARGILLIC - CHLORITE-SERICITE-PYRITE

QTVN - QUARTZ VEIN >80% QV/QS

QTSW - QUARTZ STOCKWORK 20%-80% QV/QS

QTBX - QUARTZ BRECCIA

DRILLHOLE ANNOTATION

DRILLHOLE COLLAR

DRILLHOLE TOE

SECTION ENTRY POINT

SECTION PIERCE POINT

SECTION EXIT POINT

S94-450 DRILLHOLE ID

0.356 4.23 AU (oz/t) AG (oz/t)

(-5.00) DISTANCE SOUTH OF SECTION

(5.00) DISTANCE NORTH OF SECTION

NOTE: SECTIONS ARE ON R8 GRID.

0 10 20 30 40 50
METRES
SCALE 1:500

NEWHAWK GOLD MINES

SULPHURETS PROPERTY

BRUCESIDE PROJECT

GOSSAN HILL

SECTION 200+80N +/-50m

LOOKING WEST (SECTION AZIMUTH 350°)

DRAWN BY: T.K.	SHEET NO:
DATE: NOV 1994	FIGURE NO:

130° 11'00"

N6262000

N6260000

N6258000

E423000

E425000

E427000

HANGING GLACIER

SULPHURETS GLACIER

BRUCEJACK LAKE
W.L. 1377.8

BRUCEJACK FAULT

HANGING GLACIER

GOLDEN MARMOT

ARSENOPYRITE

MILLVIEW

CATEAR

EASTSIDE

MADDUX

GRACE

BIG SLEEP

COPPER HILL

SHORE ZONE

WINDY POINT

RAINMAN

WEST ZONE

BRECKI

WATERLOO

GALENA HILL

NAPOLEON

ELECTRUM

MAMMOTH

GOLDEN ACRES

QUARTZ HILL

BRIDGE

AGATHA

JESSICA

FLETCHER

LACE

ICE

N

LEGEND

STRATIFIED ROCKS

Jurassic ?

6 Felsic volcanic tuff, flow; locally plagioclase phyric

5 andesitic volcanic breccia, lapilli tuff, block/ash tuff

4 mudstone, argillite, cherty argillite

3 medium to coarse grained sandstone, pebble to cobble conglomerate

Triassic ?

2 mudstone, sandstone, thin bedded limestone, tuffaceous sandstone

1 heterolithic volcanic conglomerate

INTRUSIVE ROCKS

Jurassic

JrP plagioclase porphyry

JrK potassium feldspar - hornblende- plagioclase porphyry

JrD plagioclase - hornblende porphyry

QSP quartz - sericite - pyrite alteration

quartz stockwork

quartz vein

foliation

bedding

fault

fold axis trace

0 200 400 600 800 1000
METRES

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,613

GEOLOGY COMPILED FROM:
1983: 1:2000 Geology; Esso Minerals Canada
1986–1993: 1:250, 1:500, 1:1000 Geology; Newhawk Gold Mines Ltd.
1986–1991: 1:5000 Geology; GSC – RV Kirkham
1993: 1:5000 Geology; MDRU – P. Lewis, A. Davies

NEWHAWK GOLD MINES LTD.

SULPHURETS PROPERTY

BRUCESIDE PROJECT

Property Geology

DRAWN BY: T.K., M.M.	SCALE: 1:10,000
DATE: MARCH, 1994	NTS 104B/8,9
DRAWING NO:	FIGURE NO: [redacted]