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## PRELIMINARY MAPPING REPORT ON THE B&H 1-111 CLAIMS

Record No. 8386-8388 Skeena Mining Division NTS 104B/10E 56 deg 32' N 130 deg 38' W

operator: ESKAY GOLD CORP. P.O. Box 10023 1210-700 West Georgia Vancouver, British Columbia V7Y 1A1

owner: Brian Heaney 2885 Mara Drive Coquitlam, British Columbia V3C 5E4

> by GREG L. VEN HUIZEN, P.ENG. 5 January 1991

GEOLOGICAL BRANCH ASSESSMENT REPORT

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### SUMMARY AND RECOMMENDATIONS

The B&H I-III mining claims consist of 47 units located in the Skeena Mining Division. The claims are about 6 km southeast of the E&L deposit which has over 3 million tonnes of .80% Ni and .62% Cu associated with an ultrabasic intrusive body, 2 km west of Harrymel Creek where high grade silver and gold bearing quartz-epidote schist is hosted in a north-south trending fault zone, 30 km southeast of the Snip and Johnny Mountain deposits which are structurally controlled gold bearing quartz-carbonate deposits with the Snip deposit containing 1.5 million tonnes at .64 opt Au and are 15 km southwest of the Eskay Creek discoveries.

The B&H II claim is situated on the north side of Lyons Creek which drains east into Harrymel Creek, about 20 % of the claim is covered with glacial ice. The B&H I and III claims are north and west of the B&H II and over 75% of the areas are covered with ice.

During 28-31 August 1990 the author conducted a preliminary mapping program on the property and collected 5 rock samples of quartz-carbonate material. The results are shown on Figure 5 at a scale of 1:5000 which was prepared aided by aerial photographs. The samples contained no significant metal values.

Further work is recommended consisting of reconnaisance mapping and sampling of the remaining unmapped areas. The program should emphasize the location of ultrabasic intrusions such as found on the E&L deposit and gold bearing schist in shear zones such as those found on Harrymel Creek.

# COST ESTIMATE FOR RECOMMENDED RECONNAISANCE MAPPING AND SAMPLING

# Phase I Geologist 14 days @ \$250......\$ 3500 Helper 14 days @ \$150......\$ 2100 Camp costs......\$ 2500 Transportation(&helicopter)......\$ 7500 Reports.....\$ 2000 TOTAL.....\$ 17600 Contingencies......\$ 2000 TOTAL PHASE I.....\$ 2000

Respectfull ed, .Eng. Ĕα 5 January



### PROPERTY DESCRIPTION, PHYSIOGRAPHY AND ACCESS

The B&H I-III mining claims consists of 47 units located in the Skeena Mining Division, NTS 104B/10E as follows:

<u>N7</u>	ME	RECORD #	# OF UNITS	MINING DIVISION	EXPIRY	DATE
B&H	Ι	8386	18	SKEENA	22 JAN	92
B&H	II	8387	15	SKEENA	22 JAN	92
B&H	III	8388	14	SKEENA	22 JAN	92

The claims were staked on 22 January 1990 over the Arc 34, 35, 36 and 37 claims which were forfeited due to Section 35 proceedings effective to 21 January 1990. The claims were staked by witness posts placed on Harrymel Creek as shown on Figures 2 and 3. No posts were observed by the author during the visit due to their location being outside of the claim areas. A statement of work with this report to follow was filed for the claims on 20 December 1990 by the author as agent for Brian Heaney (owner) with whom Eskay Gold Corp. (operator) has an agreement the details of which are beyond the scope of this report.

Vegetation on the property is largely absent with some conifer forest on areas near Lyons Creek. Small streams are found draining south into Lyons Creek on southern portions of the property. Most other outcrops on the property are barren rock surrounded by ice with the exception of outcrops found on the B&H III property which is a steep southwest facing slope which joins a canyon leading to Harrymel Creek (see Fig. 3).

Access to the property is by helicopter from the Bronson Creek air strip situated 30 km to the northwest of the property which is serviced by scheduled flights from Smithers, Stewart and Terrace, British Columbia. The topography of the claims is rugged. The ridges and some of the talus slopes around them are traversable by foot but many shear ravines and cliffs may require rock climbing equipment. Many outcrops are isolated by glacial ice and can be safely accessed only by helicopter.

### HISTORY OF THE AREA

Mineral exploration in the Stewart-Unuk River area began in the early 1890's when placer miners on their way out of the Cariboo prospected the Unuk River and its tributaries. the discovery of mineralized float and vein material led to an influx of hard rock prospectors.

Mine development over the next three decades resulted in steady growth of the Stewart area. The Silback-Premier mine was discovered in 1918 and provided an incentive for intensive exploration and development in the general area. Most of the small mines in the area were worked out by the 1940's but the Silback Premier mine continued producing through the 1970's with a total of 4 million ounces of gold, 41 million ounces of silver, 4 million pounds of copper, 52 million pounds of lead and 19 million pounds of zinc produced. Activity was maintained through the 1960's and 1970's with the development of the Granduc massive sulfide deposit and construction of the Stewart-Cassiar highway. Recent activity in the area is wide



### FIGURE 2-CLAIM OUTLINE MAP-B&H I-III, RECORD #8386-8388

from BCDMPR map M104B/10E

Scale 1:50000

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FIGURE 3-CLAIM TOPOGRAPHIC MAP- B&H I-III, Record #8386-8388 from DEMR map "Snippaker Creek" NTS 104B/10

SCALE 1:50000



spread and includes the development of the Snip deposit. continuing exploration of the Eskay Creek deposit and numerous other on-going projects.

### REGIONAL GEOLOGY

The Stewart-Unuk River area includes part of the contact of the eastern Coast Plutonic Complex with the west-central margin of the successor Bowser Basin. The country rocks of the area form a well-defined entity that E.W. Groves (1988) refers to as the Stewart Complex which is comprised of sedimentary, volcanic and metamorphic rocks ranging in age from Middle Triassic to Quaternary.

The Stewart Complex is a deformed belt of volcanic. volcaniclastic and sedimentary rocks which extend from Alice Arm in the south to the Iskut River in the north. These rocks are in an intruded contact with with Middle Jurassic to Eocene felsic plutonic rocks of the Coast Plutonic Complex and are disconformably overlain by symmetrically folded, marine and non-marine, coal-bearing, clastic rocks of the Jura-Cretaceous successor Bowser Basin to the west.

The oldest rocks in the Stewart-Unuk River area are the Upper Triassic Takla Group (Grove, 1988) which are predominately green epiclastic volcanic units found along the Iskut-Unuk River section. These include volcanic breccias, marbles, sandstones and siltstones which form a known thickness of at least 900 meters. The Upper Triassic rocks in the claim area are represented by the Stuhini Group (BCMEMPR Map 1989-10) and

includes grey to black thinly bedded siltstone, shale and argillite (turbidite) and grey impure silty, sandy limestone.

The Triassic rocks are overlain by sedimentary, volcanic and green epiclastic volcanic rocks of the Jurassic Hazleton Group. The contact varies in places but is generally disconformable to unconformable. The Hazleton Group includes all of the Jurassic rocks in the area and is divided into four major divisions including the Early Jurassic Unuk River Formation, the Middle Jurassic Betty Creek Formation and Salmon River Formation and the Late Jurassic Nass Formation.

The Unuk River Formation is comprised predominately of a volcaniclastic sequence marked by extensive pillow volcanic members and widespread, thin marble layers.

The Betty Creek Formation rests unconformably on the Unuk River Formation and consists of a thick succession of red and green epiclastic volcanic rocks.

The Salmon River Formation overlies the Betty Creek Formation conformable to disconformably and consists of thin bedded siltstones, greywackes and minor volcanic units.

The Nass Formation overlies the Salmon River Formation and consists of siltstones, greywackes, some conglomerate, minor argillite and volcanic rocks.

In addition to the volcanic, epiclastic and sedimentary rocks of the Unuk River, Betty Creek and Salmon River Formations, the Stewart Complex is also partially composed of their cataclastic and metamorphic equivalents. Cataclastite and mylonite are found near the intruded contact of the Late Jurassic Texas Creek granodiorite. Phyllites, schists and gneisses are confined to the intruded contact areas with the Tertiary Hyder guartz monzonite and Boundary grandodiorite.

### GEOLOGY AND MINERALIZATION

No assessment reports have been filed on the area covered by the claim and no work known to the author has taken place on the claims. The claim area is covered by BCMEMPR map "Geology and Mineral Deposits of the Unuk Area" Open File 1989-10 at a scale of 1:50,000. The map is reproduced for the claim area on Figure 4.

On the western portion of the claim area is found a ridge about 200 meters wide mapped as being underlain by rocks of the Lower Jurassic Betty Creek Formation (Unit 3d) comprised of grey, green and purple massive to well bedded dacitic tuff, lapilli tuff, cystal and lithic tuff and feldspar phyric with unit 13b intruding the unit which consists of the Tertiary post-tectonic King Creek Dyke Swarm which are feldspar porphyry dacite, andesite, diabase and guartz diorite dykes.

On the eastern portions of the claim area is found the largest rock exposure which is comprised of the southeast facing slopes toward Lyons Creek. This area is mapped as being underlain by the Upper Triassic to Lower Jurassic Unuk River Formation (Units 2a, 2s and 21) consisting of grey green plagioclase andesite, grey, brown and green thin bedded tuffaceous siltstone and fine grained wacke, and grey variable bedded limestone and by Upper Triassic Stuhini Group rocks (unit





# LEGEND-FIGURE 4



- 5

# LEGEND-FIGURE 4 CONTINUED

Geological boundary (defined, approximate, assumed)	
Bedding, tops known (horizontal, inclined, vertical, overturned)	
Bedding, tops unknown (horizontal, inclined, vertical)	+ × +
Bedding, estimated dip (gentle, moderate, steep)	<u> </u>
Stratigraphic tops in pillow volcanics	
Compositional layering in metamorphosed rocks;	
foliation (inclined, vertical)	
Trend line	1916-1111-111-11-1-1
Regional anticline: syncline	<u> </u>
Arbitorm; synform (normal, overturned)	- <u>1't+ +' t+</u>
Minor fold axis with M, Z or S symmetry; with plunge	
Fault (defined, assumed; D + downthrown side)	
Thrust fault (defined, assumed; teeth on upper plate)	
Air photo lineament	
Fossil locality	(F)
Fiamme	Ō
Area with more than 40% Tertiary dykes	
Limit of major phyllite zone	·····
Volcanic vent (observed, assumed)	
Geologic station	
National geochemical reconnaissance sample site	
Potassium-argon isotopic age site; H = hornblende;	
age in millions of years before present	
Mineral occurrence; MINFILE number	×83
Adit	
÷	

### MINERAL OCCURRENCES

MINFILE NUMBER (104B)	NAME	COMMODITY	MINFILE NUMBER (104B)	NAME	COMMODITY	
(1040)	E 8.1	Ni Cu Pt An Ti Au	216	Briss 1	Cu	
7	Concert King Lebio	Cure	217	Birss 4	Cu	
	Copper rung, cerno Markau	Au Ao Ph Zo Cu	218	Mal	Cu	State
P P	Har Jim Max	Cu Fe	219	Jim, Flory	Sunday CUTO	an worker
10	Fex. Ox	Magnetite	220	McOuillan Ridge	Cu	20
11	Cumberland, Daly	Au Ao Zo Cu Po Ba	221	Gracey Creek	Cu ·	7
12	McQuillan	Cu Fe	222	Cebuck Creek, Max	Au, Ag	
13	Max, Granduc	Fe Cu	223	Fewright Greek Placer	Au	21 J
14	Doc. Gracev	Au Ao Cu Pb Zo	224	Homer 3	Cu	
15	Gipbe Doc	Au Ao Pb	225	Sx Mile 2	Cu	97
17	Gold Run	Au Po Zn	226	North Fork	Cu	1
18	Linuk Jumbo	Cu	227	Sulphide Creek Placer	Au	1
19	Elstence	Pb Cu Au	228	SC	Cu	2
20	S Inhurets Creek Placer	Au	229	Granite Creek	Cu	10
72	Builde Glacier	70	230	Lad	Zn Fe	1
79	VV Mt Duon	Cu Au Ao Mo	231	Fred, Dan	Cu	÷.
80	Manufacture Crimete	Cu	232	Tet	Cu	۵.
A1	Tan Street	<u>.</u>	233	GFJ, Corey	Au Ag Cu Zn	13
83	Tag	4o Ph	234	Mandy Glacier	Cu	4
85	Chur (20he 1)	Au An	235	Unuk Finger	Cu	12
65	barb Lake	Fu Au Ph	236	Ted Morris Glacier	Cu	-
07 07	UD, DHISS O	C.	237	TMG	Cu	11
90	Units Hever	Cu to tu Ph	238	That 5	Cu	3
W/	Fewright		239	Corev 16	Cu	- 24
110	Canyon Greek	C.	240	C-10. Mount Madge	Au An Cu Zn	
195	Harrymer Creek South	Cu 6-	279	Mike Peak	Asbestos	1.00
123	Chos. Anne	Core De	287	Corev 6	Cu	
134	DC	70	327	Cam South	Cu Po Zo Mo	1.133
152	Enc 2, Mount Dunn	2n	340	Course South	Au 40	
1/5	Gingrass Creek	Asbestos, Cu	344	tout Done 2	A. C.	
184 .	Sulphurets Lake	AU AG CU	352	Colach	C. Ph 7n	
204	Çole, Boot		354	East	An An Ph Zo Cu	6
215	Divet	Pb Cu		Cigar	nu ng ru tai uu	

11 and 1t) consisting of grey to black thinly bedded siltstone, shale and argillite (turbidite) and grey impure silty sandy limestone.

The E&L deposit is shown as occurring 6 km NW of the property and is mapped as occurring with a gabbro intrusive stock in the Betty Creek Formation.

The Harrymel Creek and and Harrymel Creek South showings are located 2 km east of the property on Harrymel Creek. The showings are located in a north trending fault zone dipping 60° to 85° to the west which occurrs between Hazleton and Stuhini Group rocks. Mineralization is found in the cataclasite zone as a well mineralized guartz-epidote schist with abundant pyrite, chalcopyrite and pyrrhotite. Some silver values in excess of 13,000 g per tonne were reported from the Harrymel Creek South showings. About 8 km north of these showings the Copper King showing occurs in the same fault zone with gold values of up to 17 g per tonne reported

A fault is shown as occurring in the eastern portion of the B&H property on BCDEMPR Open File Map 1989-10 which was also identified on aerial photos by the author as shown on Fig. 5.

A portion of the outcrops were mapped by the author as shown on Figure 5. The rock types consisted of siltstones, conglomerates, shales, limestone, sandstone and lapilli. Five grab samples of limonite stained quartz-carbonate were taken during the mapping. The quartz-carbonate appeared to be related to the contact between the conglomerate and greywacke unit on samples R126, R151 and R356 with the limonite staining probably from siderite. The source of the quartz-carbonate may have been an altered carbonate-mudstone layer. The other two samples appeared to be similar to above but were found as float further down the slope.

All of the samples were grab samples and none of the five samples contained significant amounts of base or precious metals.

### CONCLUSIONS

The preliminary mapping program undertaken on the B&H claims is thus far inconclusive. A review of materials on the area show a potential for two types of mineralization including structurally controlled gold bearing guartz-carbonate mineralization such as that found in nearby Harrymel Creek and ultrabasic related Ni-Cu mineralization such as found at the nearby E&L deposit. A program which includes examination of all rock exposures should be undertaken to locate possible ultrabasic intrusive bodies and guartz-carbonate filled shear zones. In particular the fault as identified on aerial photos should be examined for potential mineralization.

Respectful tted. Greg L. Ven Hurzen, P.Eng.

5 January 1990

# ITEMIZED COST STATEMENT

Wages 28-31 August 1990, G.L. Ven Huizen, P.Eng	\$1000
Wages 28-31 August 1990, Helper	600
Helicopter 1.7 hours	1349
Camp costs 4 man days @ \$75	300
Air fares	827
Meals and accommodations	94
Aerial photos	44
Analyses	69
Report	717
TOTAL	\$5000

### CERTIFICATE OF QUALIFICATIONS

I, Greg L. Ven Huizen of 3889 Hudson Street, Vancouver, British Columbia hereby certify that:

- I am registered in the Association of Professional Engineers of the Province of British Columbia, No. 14584.
- I am a graduate of the University of Minnesota with a Bachelor of Geo-Engineering Degree (Exploration Option) with Distinction, March 1979.
- 3. I have been practicing my profession since graduation.
- 4. The information contained in this report is the result of work performed by the author and the references cited
- 5. I own no direct, indirect and do not expect to receive any interests in the property covered in this report or any shares in Eskay Gold Corp.
- 6. I consent to the use of this report titled, "Preliminary Mapping Report on the B&H I-III Claims", 5 January 1991, in a prospectus, statement of facts or other public documents.

Respectfull mitted, P.Eng. Grea b 5 January

### BIBLIOGRAPHY

"Geology and Mineral Deposits of the Unuk River-Salmon River-Anyox Area", BCMEMPR Bulletin 63, Edward W. Grove, December 1986

Map NTS 104B/10 "Snippaker Creek", Department of Energy, Mines and Resources Ottawa, published in 1975

Map M104B/10E, BC Department of Mines and Petroleum Resources, 14 June 1990

Open File Map 1989-10, "Geology and Mineral Deposits of the Unuk Area", BCMEMPR, D.J. Alldrick, J.M. Britton, I.C.L. Webster and C.W.P. Russell, 1989

Aerial Photo, BC 5158-227

BC Minfile 104B-6, 7, 80, 85, 119, 152, 209, 352

APPENDIX

,

ANALYSES

							۷	'en	Hui	zen	M	ini	.ng	E	крl		.ti	on	F	ILE	#	90	-41	57								a	ge :
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag	Ni ppm	Co ppm	Mn ppm	Fe 、)	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P X	La ppm	Cr ppm	Mg X	Ba ppm	Ti X	B ppm	Al X	Na %	K X	N M	Au** ppb	Pt** ppb	Pd** ppb
																																	:
																																	; ;
																																	;
																																	2
																																	:
R 126	1	1	2	21	.3	1	6	2759	6.77	' 6	5	ND	1	453	1.9	2	2	9	17.33	.016	9	2	3.26	1452	.01	2	.33	.01	.05	1	1	2	6
R 151	1	5	4	22	.2	3	8	1935	6.07	' 9	5	ND	1	271	1 <b>.3</b>	2	5	26	11.98	.D40	8	3	2.63	192	.01	2	.77	.01	.08	2	4	3	4
R 336 R 825 R 1153	1 3 4	13 7 10	5 2 2	19 12 9	.1 .2 .1	17 6 12	3 3 1	232 948 203	92. 2.63 69.	16 3 3	5 5 5	ND ND ND	1 1 1	8 14 18	.6 .4 .4	2 2 2	2 6 6	9 4 1	.32. 1.61 23,	.009 .004 .002	2 2 2	31 8 9	.25 .08 .05	26 30 74	.02 .01 .01	2 2 2	.28 .08 .03	.01 .01 .01	.02 .01 .01	3 1 2	5 5 6	4 1 3	2 2 2
STANDARD C/FA-R	19	60	40	131	6.9	73	32	1051	3.95	39	20	7	37	53	18.9	15	20	_56	.52	.093	38	60	.89	181	.07	36	1.89	.06	. 14	12	528	494	531

age 2

ASSAY RECOMMENDED for la 230 ppm

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND ALS AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: ROCK AU\*\* PT\*\* PD\*\* BY FIRE ASSAY & ANALYSIS BY ICP FROM 10 CM SAMPLE.

DATE RECEIVED: SEP 6 1990 DATE REPORT MAILED:

