GEOCHEMISTRY REPORT

HOPEFUL #1 GROUP

Skeena Mining Division
Latitude: 55° 41' N
Longitude: 129° 44'W
NTS: 103 P/12

By: D.A. Visagie, P. Geo.
December 15, 1997

Owner/Operator: International Northair Mines Ltd.
860-625 Howe Street
Vancouver, B.C.
V6C-2T6

25,328

TABLE OF CONTENTS

LIST OF FIGURES

APPENDICES

1.0 INTRODUCTION

International Northair Mines Ltd.'s Hopeful #1 property is located 32 kilometers southwest of Stewart, B.C. The property was staked in 1995 to cover an area of prospective Lower Jurassic Hazelton Group volcanics. Geochemical sampling, completed in 1996, showed the Hope 3 & 4 claims to host anomalous precious and base metal stream sediment values. In 1997, a 2 man crew spent 6 man-days attempting to locate the source of these values. The work, completed between July 4 and August 15, 1997, resulted in the taking of 16 rock chip samples. The program was hampered by inclement weather and steep topographic conditions The work did not outline any economic zones of precious or base metals. The cost of the program is calculated to be $3689.

2.0 LOCATION AND ACCESS (Figure 1)

The property is located 32 km southeast of Stewart, B.C. It is centred at 55° 41'N, 129° 43 W, occurring on NTS sheet 103 P/12. Access to the property is by helicopter from Stewart.

3.0 CLIMATE, TOPOGRAPHY AND VEGETATION

Climate in the area is typical of the northern Coast Range with summers being mild and wet while winters are cool and wet. Temperatures vary from a minimum to -25°C in the winter to +25°C in the summer.

Topography on the property is rugged and steep. Elevations on the property range from 800 to 1800 metres. U-shaped glaciated valleys are common throughout.

At higher elevation, >1000 metres, sub-alpine vegetation consisting of alpine heather and stunted spruce and fir is common. Below 1000 metres, the vegetation is thick consisting of slide alder, devil's club blueberry bushes, spruce, fir, hemlock and cedar forests.

4.0 PROPERTY STATUS (Figure 2)

The Hopeful #1 Group, upon acceptance of this report, will consists of the following:

Claim Name	Record No.	Expiry Date	Units
Hope 3	341438	Oct 15, 1998	18
Hope 4	341439	Oct 15, 1998	18

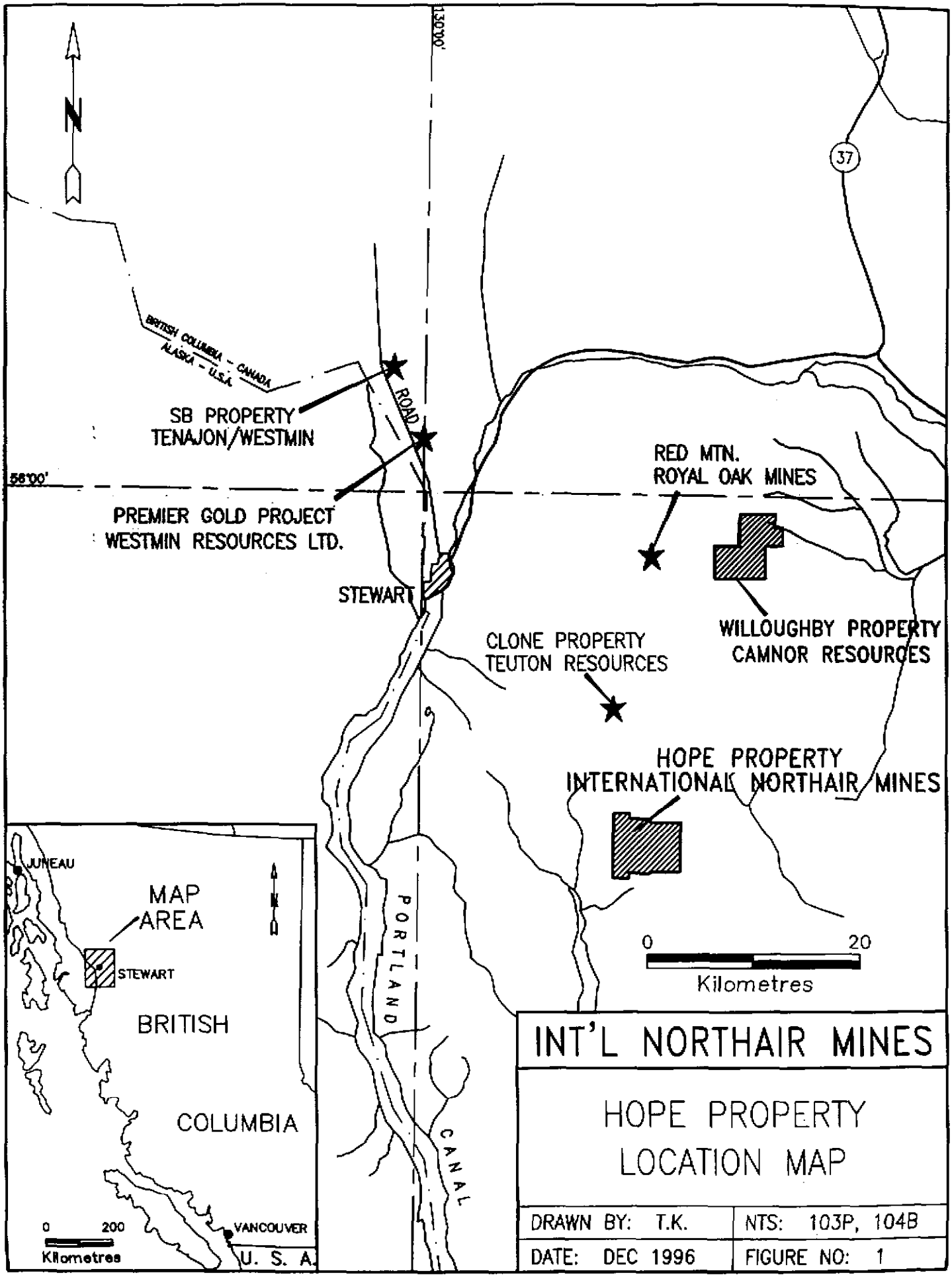
All claims occur within the Skeena Mining Division and are 100% held by International Northair Mines.

5.0 PROPERTY HISTORY

The Hopeful Claim Group occurs within an area host to many past and present producers and promising exploration prospects.

Exploration, completed at the turn of the century in the Kitsault River area, 12 kilometers to the east, resulted in the discovery of several sliver-lead-zinc stratabound volcanogenic deposits including the past producing Dolly Varden and Torbit Mines. Production at the Dolly Varden Mine was 33,434 tonnes containing 1,300,000 ounces of silver, 3,200 tonnes of copper and 15,400 tonnes of lead. At the Torbit 1,251,339 tonnes were mined producing 18,600,000 ounces of silver and 5,000 tonnes of lead.

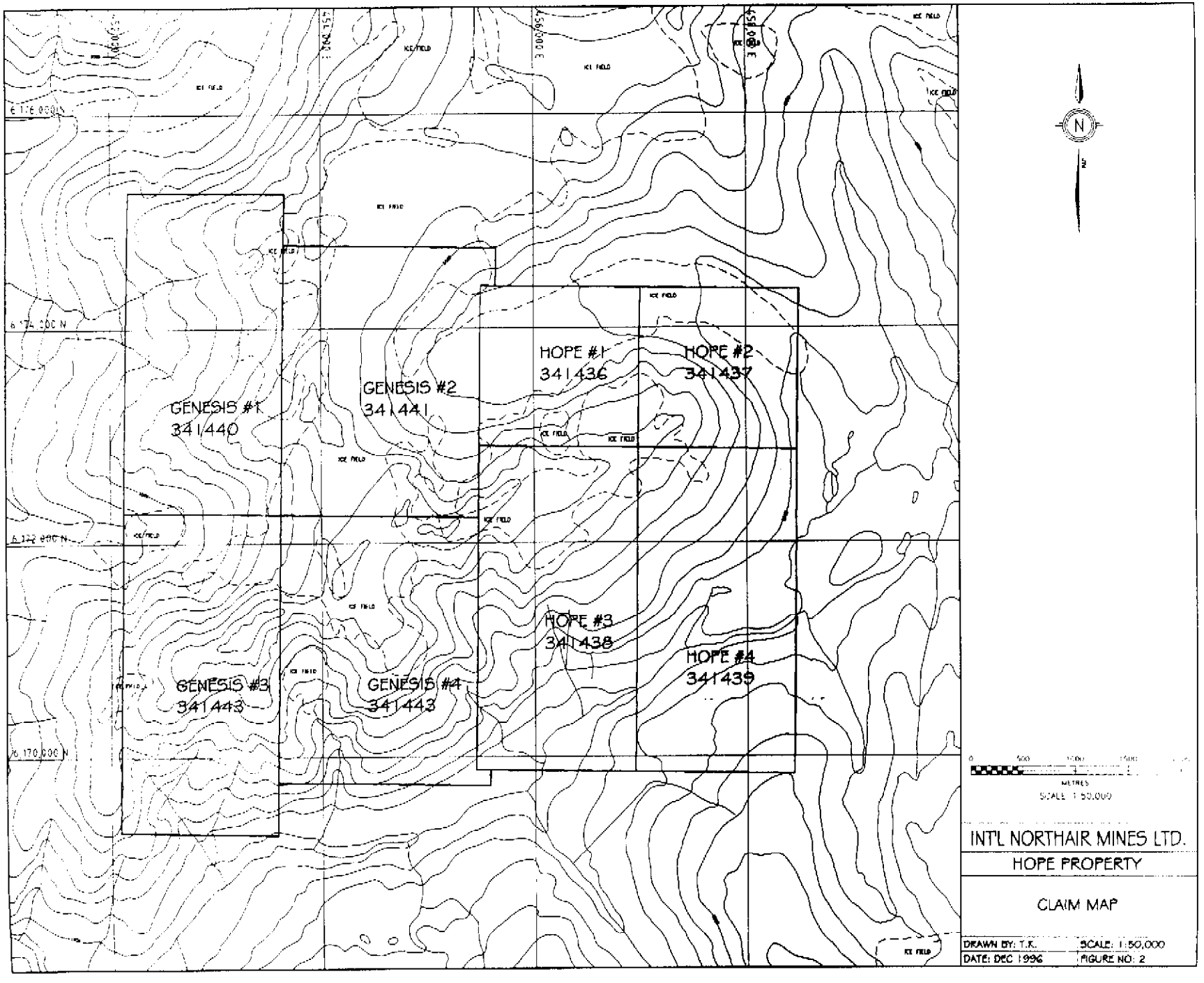
At the Georgie River Property, located 22 kilometers to the northwest visible gold and electrum occur in association with galena within narrow quartz veins. In 1937 limited production was achieved resulting in the recovery of 10,233 grams of gold, 12,752 grams of silver and 3,312 kilograms of silver from 454 tonnes of ore.

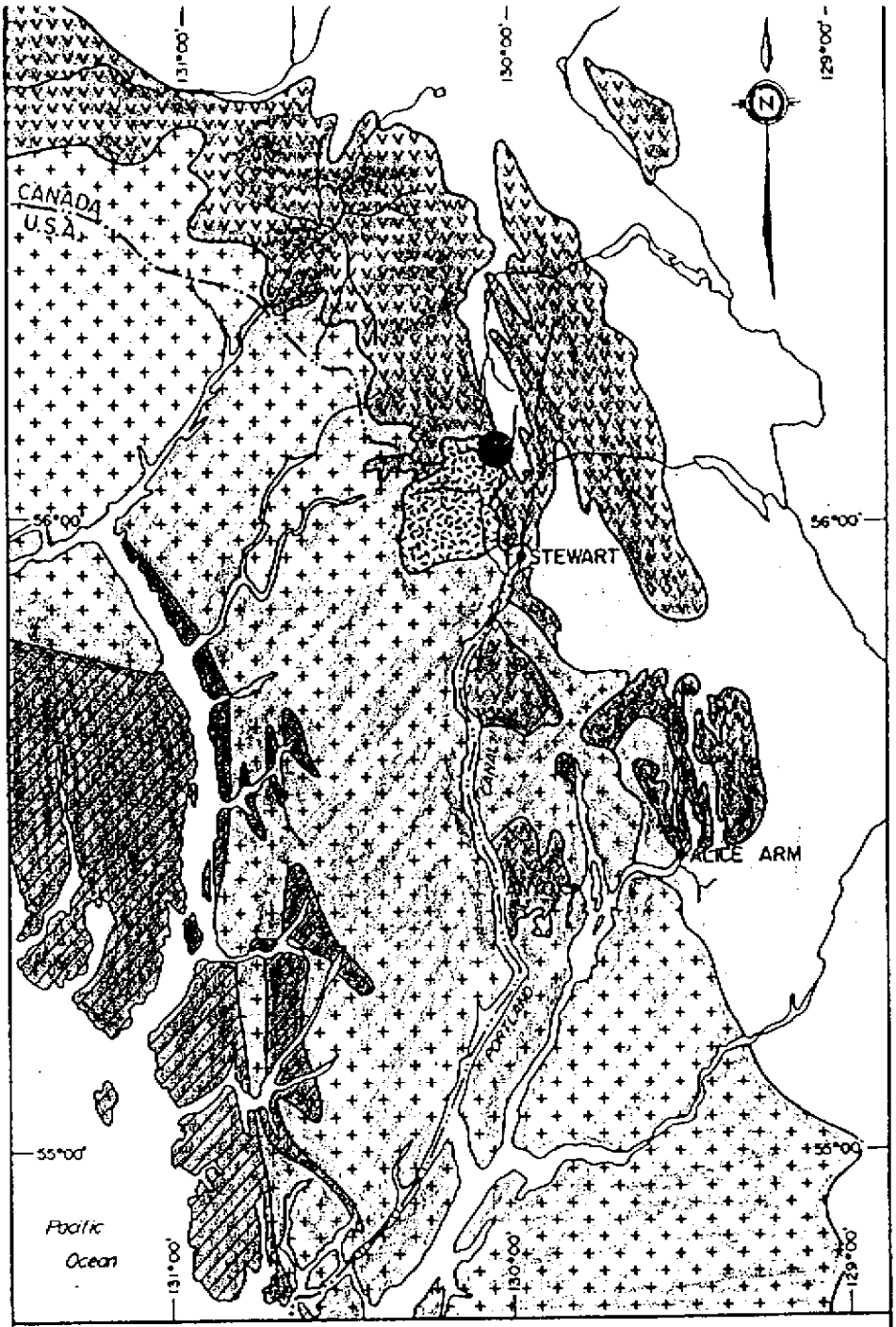


INT'L NORTHAIR MINES

HOPE PROPERTY
LOCATION MAP

DRAWN BY: T.K.	NTS: 103P, 104B
DATE: DEC 1996	FIGURE NO: 1


GENESIS #1
341440
GENESIS #2
341441
GENESIS #3
341443
GENESIS #4
341443
HOPE #1
341436
HOPE #2
341437
HOPE #3
341438
HOPE #4
341439
N
METRES
SCALE 1:50,000
INT'L NORTHAIR MINES LTD.
HOPE PROPERTY
CLAIM MAP
DRAWN BY: T.K.
SCALE: 1:50,000
DATE: DEC 1996
FIGURE NO: 2



LEGEND

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

REGIONAL GEOLOGY OF THE STEWART - ANYOX AREA

20 10 0 20 40 60 kilometres

Figure 4 (after Dykes et al, 1988)

Twelve kilometres to the north-northwest is Teuton Resources Corporation/Minvita Enterprises Clone gold-cobalt prospect. Mineralization, consisting of shear controlled, hematitic breccia, has been traced for 1.5 km with widths variable to 8 metres.

Royal Oak Mining Corporation's Red Mountain gold deposit is located 30 km to the north. Exploration at the property has outlined a Geological Reserve of approximately 800,000 ounces of gold at an average grade of 0.30 opt.

6.0 REGIONAL GEOLOGY (Figure 3)

The Hopeful property occurs along the western edge of a broad, north-northwest trending volcano-plutonic belt composed of Upper Stuhini and Lower Jurassic Hazelton Group rocks. This belt, termed "Stewart Complex" by Grove (1986) forms part of Stikinia terrane. The belt has been traced for 150 km from near Anyox in the south to the Iskut River in the north. It hosts several past and presently producing gold-silver mines including the Snip, Eskay Creek and Premier. To the west, the Complex is bordered by Cretaceous Coast Plutonic Complex rocks while to the east it is overlain by Middle to Upper Jurassic Bowser Lake Group sedimentary rocks.

7.0 PROPERTY GEOLOGY (Figure 4)

Reconnaissance mapping was completed in 1996. The mapping showed the property to be primarily underlain by Coast Mountain Plutonic Complex granodiorite to diorite. Minor feldspar porphyry is present. Epidote-chlorite veining is common. In the southwest corner of the Hope #2 claim hornfelsed siltsones and argillites occur in which minor gossan is developed.

At the Hill Showing an up to 3 metre wide, 100 metre long north east trending, steeply north dipping, quartz vein was located. Vein mineralogy consists o a quartz with minor carbonate gangue in which trace to 1%, disseminated pyrite and chalcopyrite occur. Malachite staining randomly occurs. Along strike the vein is overburden covered.

8 1997 WORK PROGRAM

The 1997 work program consisted of the prospecting and sampling of prospective source areas. The work was completed by a two man crew consisting of:

Dave Visagie	Senior Geologist
Jareb Sims	Labourer

The evaluation was completed on July 21 and 26, 1997.

9.0 GEOCHEMISTRY (Figure 5)

All 16 rock chip samples were sent to Chemex Labs, 212 Brooksbank Avenue, North Vancouver for gold and I.C.P analysis. The sample locations and gold values are plotted on Figure 5. Appendix 1 is a listing of the sample descriptions while Appendix 2 lists the assay results.

9.1 Field Procedure

Grab and measured width rock chip samples were collected using a hammer and moil, identified, stored in plastic sample bags then dried. The samples were then freighted to Vancouver for analysis.

9.2 Assay Procedure

The following is the procedure used in the analysis of the samples.

Samples dried (if necessary), crushed or sieved to pulp size and pulverized to approximately -150 mesh.

For the 32 element I.C.P. analysis a 10 gram sample is digested with 3 ml of 3:1:3 nitric acid to hydrochloric acid to water at 90°C for 1.5 hours. The sample is then diluted to 20 mls with demineralized water and analyzed. The leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, Sb, Ti, U and W.

For gold analysis by atomic absorption a 10 gram sample that has been ignited overnight at 600°C is digested with hot aqua regia and the clear solution obtained is extracted with Methyl Isobutyl Ketone (MIBK). Gold is determined in the MIBK extract by atomic absorption using a background detection (limit 5 ppb).

10.0 ASSAY RESULTS

Of the 16 samples taken and submitted for assessment only 1 returned a value of >30 ppb Au. The sample, 33017, is a grab sample of locally derived float. The sample contains 15% disseminated pyrite within a granodiorite host. Base metal values are generally low with the best sample, returning 968 ppm Cu over 0.5 metre, being taken from a portion of the Hill Showing Vein.

11.0 SUMMARY AND CONCLUSIONS

Two days of labour were spent evaluating an area of anomalous stream sediment and rock chip geochemistry. The work resulted in the evaluation of two areas. The prospecting and sampling led to the discovery of the Hill Showing. The Hill Showing is a 100 metre long and open, up to 3 metre wide quartz vein in which minor, disseminated, chalcopyrite and pyrite occur. Assay results of chip samples taken from the Hill Showing and of other quartz vein systems located in the area did not outline any significant zones of precious or base metal mineralization. Elsewhere on the property precious and base metal values are non-economic.

12. RECOMMENDATIONS

It is recommended that no further work be completed on the Hopeful #1 Property.

13.0 COST STATEMENT

1.	Labour (July 21, 26)		$780
	D.Visagie 1.5 days @ $370/day J. Sims 1.5 days @ $150/day		
2.	Room & Board 1.5 man-days @ $100/day		$150
3.	Transportation 1.5 days truck rental @ $100/day Helicopter: July 21-1.7 hours July 26-0.4 hours Total 2.1 hours @ $750/hour		$1725
4.	Assaying 16 Samples @ $18.70/sample Geochem ring to approx -150 mesh 0-3 kg crush and split I.C.P-32 Au ppb FA + AA		$299
5.	Report includes Xeroxing, writing and drafting		$400
		Sub-total	$3354
6.	Management Fee @ 10%		$ 335
		TOTAL	**$3689**

14.0 STATEMENT OF QUALIFICATIONS

I, David A. Visagie do hereby certify that:

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

2. Since graduating I have continuously been employed in the mining industry

3. I am a registered member of the Association of Professional Engineers and Geoscientise of British Columbia.

4. For the last eight years I have been employed by The Northair Group as a Senior Geologist.

5. I supervised the exploration program completed on the Hopeful #1 Group.

Dated December 17, 1997 at Vancouver, B.C.

Dave Visagie, P. Geo.
Senior Geologist,
International Northair Mines

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

NORTHAIR MINES LIMITED

860 - 625 HOWE ST.
VANCOUVER, B.C.
V6C 2T6

Project : STEWART
Comments: ATTN: MARK PREFONTAINE CC: DAVID VISAGIE

Certificate Date: 10-AUG-97
Invoice No. : I9735125
P.O. Number :
Account :K

CERTIFICATE OF ANALYSIS A9735125

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M330001	205	226	545	1	0.06	5	1180	4	< 2	1	38	0.08	< 10	< 10	58	< 10	58
M330002	205	226	235	2	0.07	2	1270	4	< 2	1	42	0.05	< 10	< 10	36	< 10	24
M330003	205	226	450	< 1	0.11	6	1160	2	< 2	1	54	0.08	< 10	< 10	53	< 10	48
M330004	205	226	170	3	0.03	5	1440	4	< 2	1	52	0.10	< 10	< 10	35	< 10	24
M330005	205	226	975	9	0.13	2	490	10	< 2	8	53	0.17	< 10	< 10	93	< 10	242
M330006	205	226	890	< 1	0.09	5	1080	18	< 2	3	53	0.14	< 10	< 10	111	< 10	98
M330007	205	226	395	1	0.10	3	1060	6	< 2	1	53	0.08	< 10	< 10	40	< 10	28
M330008	205	226	495	< 1	< 0.01	4	770	4	< 2	2	98	0.17	< 10	< 10	50	< 10	52
M330009	205	226	1005	< 1	0.02	6	1030	2	< 2	4	52	0.15	< 10	< 10	92	< 10	74
M330010	205	226	510	2	0.05	1	1280	8	< 2	2	24	0.10	< 10	< 10	56	< 10	34
M330011	205	226	620	2	0.05	4	1220	8	< 2	1	32	0.08	< 10	< 10	54	< 10	64
M330012	205	226	410	1	0.06	5	1230	8	< 2	1	36	0.09	< 10	< 10	47	< 10	36
M330013	205	226	340	< 1	< 0.01	2	320	2	< 2	< 1	52	0.05	< 10	< 10	16	< 10	28
M330014	205	226	1090	< 1	< 0.01	1	690	< 2	< 2	< 1	70	0.05	< 10	< 10	15	< 10	34
M330015	205	226	1180	1	< 0.01	5	630	6	< 2	1	22	0.03	< 10	< 10	18	< 10	62
M330016	205	226	865	10	< 0.01	7	1040	90	< 2	< 1	7	0.03	< 10	< 10	14	< 10	144
M330017	205	226	870	53	0.01	2	900	10	< 2	2	7	< 0.01	< 10	10	55	< 10	54
M330018	205	226	680	< 1	< 0.01	1	170	2	< 2	< 1	176	< 0.01	< 10	< 10	14	< 10	18
M330019	205	226	340	1	< 0.01	7	280	348	48	4	72	< 0.01	< 10	< 10	27	< 10	104
M330020	205	226	475	4	0.01	14	600	4	< 2	3	15	0.09	< 10	< 10	62	< 10	60
M330021	205	226	415	1	< 0.01	21	380	2	< 2	1	12	0.05	< 10	< 10	28	< 10	204
M330022	205	226	805	19	0.03	115	960	8	< 2	4	23	0.11	< 10	< 10	149	< 10	264
M330023	205	226	300	4	0.02	44	500	2	< 2	3	13	0.10	< 10	< 10	66	< 10	102
M330036	205	226	310	4	0.01	1	230	136	< 2	1	4	< 0.01	< 10	< 10	7	< 10	14
M330037	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
M330038	205	226	400	18	0.01	2	470	10	< 2	2	20	0.09	< 10	< 10	32	< 10	34
M330039	205	226	1230	8	< 0.01	1	30	294	< 2	< 1	4	< 0.01	< 10	< 10	12	< 10	9050
M330040	205	226	775	< 1	0.01	13	620	2	< 2	3	40	0.08	< 10	< 10	27	< 10	64
M330041	205	226	425	< 1	< 0.01	9	110	2	< 2	< 1	29	0.01	< 10	< 10	7	< 10	54
M330042	205	226	360	< 1	< 0.01	< 1	110	< 2	< 2	< 1	183	< 0.01	< 10	< 10	2	< 10	14
M330043	205	226	1135	1	< 0.01	4	380	6	< 2	< 1	64	0.03	< 10	< 10	9	< 10	42
M330044	205	226	955	1	< 0.01	6	650	10	< 2	< 1	75	0.03	< 10	< 10	9	< 10	50
M330045	205	226	1720	1	< 0.01	5	590	14	< 2	1	43	0.04	< 10	< 10	19	< 10	72
M330046	205	226	730	< 1	< 0.01	5	780	14	< 2	< 1	8	0.03	< 10	< 10	6	< 10	14
M330047	205	226	535	< 1	0.01	2	380	< 2	< 2	2	19	0.08	< 10	< 10	32	< 10	38
M330048	205	226	705	< 1	0.01	2	590	< 2	< 2	2	31	0.11	< 10	< 10	42	< 10	56
M330049	205	226	325	< 1	< 0.01	2	110	< 2	< 2	1	6	0.03	< 10	< 10	17	< 10	20
M330050	205	226	360	< 1	0.01	1	210	2	< 2	< 1	11	0.05	< 10	< 10	13	< 10	24
M330051	205	226	920	< 1	< 0.01	2	< 10	< 2	< 2	< 1	3	< 0.01	< 10	< 10	26	< 10	80
M330052	205	226	225	< 1	0.05	< 1	560	< 2	< 2	< 1	27	0.04	< 10	< 10	13	< 10	36

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

NORTHAIR MINES LIMITED

860 - 625 HOWE ST.
VANCOUVER, B.C.
V6C 2T6

Project : STEWART
Comments: ATTN: MARK PREFONTAINE CC: DAVID VISAGIE

Page Numb : 2-A
Total Pages : 2
Certificate Date: 10-AUG-97
Invoice No. : I9735125
P.O. Number :
Account : K

CERTIFICATE OF ANALYSIS A9735125

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
M330053	205	226	< 5	-----	0.2	0.51	< 2	210	< 0.5	< 2	0.07	< 0.5	1	105	53	1.07	< 10	< 1	0.07	< 10	0.12
M330054	205	226	15	-----	0.2	0.28	< 2	260	< 0.5	< 2	0.03	< 0.5	3	66	34	0.98	< 10	< 1	0.07	< 10	0.03
M330055	205	226	5	-----	0.6	0.45	8	1920	< 0.5	< 2	0.22	< 0.5	7	44	156	0.74	< 10	< 1	0.06	< 10	0.24

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

NORTHAIR MINES LIMITED

860 - 625 HOWE ST.
VANCOUVER, B.C.
V6C 2T6

Project : STEWART
Comments: ATTN: MARK PREFONTAINE CC: DAVID VISAGIE

Page Num. :2-B
Total Pages :2
Certificate Date: 10-AUG-97
Invoice No. :19735125
P.O. Number :
Account :K

CERTIFICATE OF ANALYSIS A9735125

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M330053	205	226	110	< 1	0.03	1	90	2	< 2	< 1	19	0.03	< 10	< 10	4	< 10	6
M330054	205	226	45	< 1	0.03	1	30	2	< 2	< 1	11	< 0.01	< 10	< 10	1	< 10	4
M330055	205	226	315	< 1	< 0.01	2	460	142	2	< 1	106	0.01	< 10	< 10	5	< 10	16

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

NORTHAIR MINES LIMITED

860 - 625 HOWE ST.
VANCOUVER, B.C.
V6C 2T6

Project : STEWART
Comments: ATTN: MARK PREFONTAINE CC: DAVID VISAGIE

Page Num. :1-A
Total Pages :2
Certificate Date: 10-AUG-97
Invoice No. :I9735125
P.O. Number :
Account :K

CERTIFICATE OF ANALYSIS A9735125

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
M330001	205	226	10	-----	< 0.2	1.63	172	40	< 0.5	< 2	0.80	< 0.5	16	19	52	4.06	< 10	< 1	0.06	< 10	0.67
M330002	205	226	45	-----	< 0.2	1.06	16	60	< 0.5	< 2	0.95	< 0.5	6	24	18	1.08	< 10	< 1	0.07	< 10	0.25
M330003	205	226	10	-----	< 0.2	1.63	< 2	40	< 0.5	< 2	0.98	< 0.5	15	22	46	3.12	< 10	< 1	0.07	< 10	0.51
M330004	205	226	< 5	-----	0.2	1.03	< 2	30	< 0.5	< 2	1.25	< 0.5	25	19	126	3.58	< 10	< 1	0.09	< 10	0.20
M330005	205	226	1760	1.75	13.2	3.59	< 2	180	< 0.5	16	0.63	4.5	13	56	4520	5.79	10	< 1	1.36	< 10	0.92
M330006	205	226	< 5	-----	0.6	2.88	6	60	< 0.5	< 2	0.77	< 0.5	12	23	25	4.67	10	< 1	0.11	< 10	1.62
M330007	205	226	< 5	-----	0.2	1.57	4	110	< 0.5	< 2	0.85	< 0.5	8	23	32	3.02	< 10	< 1	0.11	< 10	0.59
M330008	205	226	< 5	-----	< 0.2	1.91	< 2	10	< 0.5	< 2	0.83	< 0.5	11	45	1	2.48	< 10	< 1	0.05	< 10	1.23
M330009	205	226	< 5	-----	< 0.2	2.72	< 2	70	< 0.5	< 2	0.75	< 0.5	13	24	34	4.03	10	< 1	0.06	< 10	1.54
M330010	205	226	< 5	-----	0.4	1.47	< 2	30	< 0.5	< 2	0.92	< 0.5	6	26	232	4.02	< 10	1	0.05	< 10	0.71
M330011	205	226	< 5	-----	0.6	1.62	156	20	< 0.5	< 2	0.88	0.5	18	17	268	5.02	< 10	< 1	0.05	< 10	0.81
M330012	205	226	< 5	-----	0.2	1.45	12	40	< 0.5	< 2	1.03	< 0.5	13	22	139	4.28	< 10	< 1	0.06	< 10	0.56
M330013	205	226	< 5	-----	< 0.2	0.79	2	< 10	< 0.5	< 2	0.61	< 0.5	6	104	10	1.00	< 10	< 1	0.01	< 10	0.30
M330014	205	226	< 5	-----	< 0.2	1.03	2	< 10	< 0.5	< 2	1.15	< 0.5	8	79	5	1.03	< 10	< 1	< 0.01	< 10	0.17
M330015	205	226	< 5	-----	< 0.2	1.16	18	60	< 0.5	< 2	1.19	0.5	17	73	5	2.60	< 10	< 1	0.12	< 10	0.57
M330016	205	226	10	-----	1.0	1.38	138	40	< 0.5	< 2	0.50	3.0	25	20	33	5.28	< 10	< 1	0.14	< 10	0.71
M330017	205	226	355	-----	1.8	2.06	6	10	< 0.5	< 2	0.18	< 0.5	10	27	22	9.47	10	< 1	0.08	< 10	1.12
M330018	205	226	< 5	-----	< 0.2	0.79	< 2	40	< 0.5	< 2	1.90	< 0.5	3	90	1	1.09	< 10	< 1	0.10	< 10	0.27
M330019	205	226	20	-----	49.0	0.80	18	10	< 0.5	< 2	1.55	4.5	8	123	626	1.14	< 10	< 1	0.06	< 10	0.77
M330020	205	226	< 5	-----	0.4	1.78	< 2	60	< 0.5	< 2	0.27	< 0.5	6	45	44	2.45	< 10	< 1	0.11	< 10	1.78
M330021	205	226	30	-----	0.6	1.23	8	50	< 0.5	< 2	0.66	1.0	7	68	47	1.87	< 10	< 1	0.11	< 10	1.09
M330022	205	226	25	-----	2.2	1.63	14	20	< 0.5	< 2	0.54	3.0	16	123	142	3.62	< 10	< 1	0.04	< 10	1.82
M330023	205	226	10	-----	0.8	1.35	6	30	< 0.5	< 2	0.30	0.5	9	90	87	3.08	< 10	< 1	0.04	< 10	1.28
M330036	205	226	< 5	-----	8.2	0.35	< 2	50	< 0.5	24	0.13	< 0.5	4	99	183	0.89	< 10	< 1	0.12	< 10	0.12
M330037	--	--	NotRcd	-----	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
M330038	205	226	< 5	-----	0.6	1.11	8	60	< 0.5	< 2	0.34	< 0.5	17	45	17	4.11	< 10	< 1	0.65	< 10	0.76
M330039	205	226	100	-----	24.4	1.17	8	30	< 0.5	8	0.03	>100.0	15	100	6440	5.21	< 10	< 1	0.02	< 10	0.65
M330040	205	226	< 5	-----	< 0.2	1.24	< 2	50	< 0.5	< 2	0.34	< 0.5	10	86	14	1.96	< 10	< 1	0.04	< 10	0.99
M330041	205	226	< 5	-----	< 0.2	0.32	< 2	40	< 0.5	< 2	0.25	0.5	2	144	29	0.61	< 10	< 1	0.01	< 10	0.21
M330042	205	226	< 5	-----	1.0	0.18	20	1650	< 0.5	< 2	0.61	< 0.5	4	16	241	0.39	< 10	< 1	0.01	< 10	0.14
M330043	205	226	20	-----	2.4	0.73	16	950	< 0.5	< 2	1.84	< 0.5	10	71	221	1.59	< 10	< 1	0.07	< 10	0.38
M330044	205	226	30	-----	3.2	0.82	24	970	< 0.5	2	0.80	< 0.5	18	53	303	1.72	< 10	< 1	0.09	< 10	0.46
M330045	205	226	20	-----	2.4	1.36	26	1010	< 0.5	2	1.81	< 0.5	19	54	159	2.68	< 10	< 1	0.10	< 10	0.78
M330046	205	226	10	-----	1.2	0.42	8	750	< 0.5	< 2	0.32	< 0.5	23	60	342	0.98	< 10	< 1	0.14	< 10	0.14
M330047	205	226	< 5	-----	< 0.2	0.91	< 2	400	< 0.5	< 2	0.23	< 0.5	5	120	8	1.76	< 10	< 1	0.04	< 10	0.65
M330048	205	226	< 5	-----	< 0.2	1.25	< 2	120	< 0.5	< 2	0.33	< 0.5	7	78	15	2.28	< 10	< 1	0.04	< 10	0.86
M330049	205	226	< 5	-----	< 0.2	0.48	< 2	130	< 0.5	< 2	0.07	< 0.5	3	125	5	0.98	< 10	< 1	0.01	< 10	0.32
M330050	205	226	< 5	-----	4.4	0.47	< 2	80	< 0.5	< 2	0.49	< 0.5	3	108	968	0.96	< 10	< 1	0.01	< 10	0.32
M330051	205	226	< 5	-----	1.4	1.66	< 2	80	< 0.5	< 2	< 0.01	< 0.5	9	98	322	3.26	< 10	< 1	< 0.01	< 10	1.18
M330052	205	226	785	-----	1.6	1.28	< 2	110	< 0.5	< 2	0.47	< 0.5	3	64	50	2.07	< 10	< 1	0.39	< 10	0.39

CERTIFICATION: Stewart Bucklen

ICE FIELD

GENESIS #1

GENESIS #2

GENESIS #3

GENESIS #4

HOPE #1

HOPE #2

HOPE #3

HOPE #4

1a

1b

1c

1a & 1b

2

1

3b

Pervasive CL alt'n and EP+QZ. Minor MA.

Pervasive CL alt'n and EP+QZ

EP alt'n common

EP+QZ veining & alt'n

Minor QZ vn

QZ veining & PY staining and disseminated PY

1m wide zone of brecciated QZ vn

1m wide zone of QZ stringers PY and minor CP+GA

10cm QZ vn with CL alt'n and minor CP PY

Sheeted QZ veins up to 10cm with chloritic alt'n, EP and minor CP+MA

100 x upto 2cm qv

3000

4000

4500

5000

2500

1000

6,176,000 N

6,174,000 N

6,172,000 N

6,170,000 N

454,000 E

456,000 E

458,000 E

N

MN

LEGEND

LITHOLOGY

STRATIFIED ROCKS

HAZELTON GROUP

Lower to Middle Jurassic

SEDIMENTS

[3] SALMON RIVER FORMATION siltstone, argillite, pyritic
- a hornfels alteration, fine grained disseminated pyrrhotite and/or pyrite, chlorite
- b rusty weathering bedded siltstone and fine grained sandstone, siliceous and pyritic

PLUTONIC ROCKS*

COAST PLUTONIC COMPLEX

Eocene?

[2] Kshwan Glacier pluton: granodiorite; coarse grained, equigranular, hornblende-biotite granodiorite

Early Jurassic?

[1] Bulldog Creek pluton: granodiorite, diorite and feldspar porphyry diorite; commonly epidotized and chloritized
- a: granodiorite: coarse grained, equigranular, hornblende-biotite granodiorite
- b: diorite: fine to medium grained, equigranular, dark to medium greenish grey
- c: feldspar porphyry diorite: fine grained, equigranular, dark grey diorite with 1mm-2 cm feldspar phenocrysts

*Note: Nomenclature based on comparing descriptions in most recent regional mapping north of the property by Greig et al, 1993. No definative age dating of intrusives has been carried out

ABBREVIATIONS

AK - ankerite		GL - galena	
AS - arsenopyrite		HE - hematite	
CA - calcite		MA - malachite	
CB - carbonate		MG - magnetite	
CL - chlorite		PY - pyrite	
CP - chalcopyrite		QZ - quartz	
CY - clay		MS - sericite	
EP - epidote		SL - sphalerite	
FX - feldspar		VG - visible gold	
alt'n - alteration		vn - vein	
brxx - breccia		vning - veining	
po - porphyritic			

SYMBOLS

bedding

foliation

veins

faults

contacts

0 250 500 750 1000 1250

METRES

SCALE 1:15,000

25,328

INT'L NORTHAIR MINES LTD.

HOPE PROPERTY

GEOLOGY

DRAWN BY: AW,KN,TK	SCALE: 1:15,000
DATE: JULY 1996	FIGURE NO: 3

452,000 E
454,000 E
456,000 E
458,000 E
6,176,000 N
6,174,000 N
6,172,000 N
6,170,000 N
3000
4000
5000
2500
1000
ICE FIELD
GENESIS #1
GENESIS #2
GENESIS #3
GENESIS #4
HOPE #1
HOPE #2
HOPE #3
HOPE #4
331039
331040
331047
331048
331049
331050
331102
331521
331522
331601
331602
331603
331604 (float)
331605
331606
331607
331008
331009
331010
331011
331022
331027
331028
331029
331030
331031
331032
331033
331034
331051
331052
331053 (float)
331054
331055
330007
330008
330009
330010
330011
330012
330013
330014
331516
331517
331513
331502
331503
331504
331505
330042-45
330041
330040
331511
331520
330046
330047-49
330050
331506
331507
331508
331510
331509
331029
330018
330017
330015
330016
330001
330002
330003
330004
330005
331515
331514

LEGEND

△ ROCK SAMPLE

○ STREAM SILT SAMPLE

—·— TRAVERSE

Rock samples – 1996
Samples Au opt Ag ppm

331053	0.001	18.4
331512	0.001	68.0
331513	0.009	4.4
331514	0.004	9.6
331516	0.015	0.8
331517	0.002	0.6
331518	0.001	0.2
331519	0.003	0.4
331520	0.017	6.30 opt
331522	0.005	1.4
331604	0.002	1.4
331606	0.002	1.8
331607	0.004	0.4

Stream silt samples – 1996
Samples Au ppb Ag ppm

331008	<10	<0.2
331009	20	0.2
331010	<10	<0.2
331011	40	0.2
331022	<10	0.2
331027	na	<0.2
331028	520	0.8
331029	40	0.6
331030	<10	0.4
331031	<10	0.2
331032	<10	0.4
331033	<10	0.2
331034	<10	<0.2
331039	40	<0.2
331040	150	0.4
331047	60	<0.2
331048	40	<0.2
331049	60	0.4
331050	50	<0.2
331051	30	0.4
331052	30	0.8
331054	<10	3.6
331055	<10	0.2
331102	<5	0.8
331502	<5	0.8
331503	40	27.2
331504	<5	0.6
331505	<5	0.6
331506	5	0.4
331507	<5	0.2
331508	<5	0.8
331509	<5	0.6
331510	<5	<0.2
331511	<5	1.6
331515	235	5.2
331521	<5	<0.2
331601	<5	<0.2
331602	<5	<0.2
331603	<5	0.2
331605	<5	<0.2

Rock samples – 1997
Samples Au ppb Ag ppm

330001	10	<0.2
330002	45	<0.2
330003	10	<0.2
330004	<5	0.2
330005	1760	13.2
330006	<5	0.6
330007	<5	0.2
330008	<5	<0.2
330009	<5	<0.2
330010	<5	0.4
330011	<5	0.6
330012	<5	0.2
330013	<5	<0.2
330014	<5	<0.2
330015	<5	<0.2
330016	10	1.0
330017	355	1.8
330018	<5	<0.2
330040	<5	<0.2
330041	<5	<0.2
330042	<5	1.0
330043	20	2.4
330044	30	3.2
330045	20	2.4
330046	10	1.2
330047	<5	<0.2
330048	<5	<0.2
330049	<5	<0.2
330050	<5	4.4
330051	<5	1.4

0 250 500 750 1000 1250
METRES

SCALE 1:15,000

25,328

INT'L NORTHAIR MINES LTD.

HOPE PROPERTY

SAMPLE RESULTS

DRAWN BY: TK	SCALE: 1:15,000
DATE: DEC 1997	FIGURE NO: