



exploration ltd.

GEOLOGY • GEOPHYSICS
MINING ENGINEERING

93E/09
822984

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GEOLOGICAL AND GEOCHEMICAL REPORT

on the

UDUK LAKE PROPERTY

DUK 1 - 3 CLAIMS

Omineca Mining Division - British Columbia

Lat. $53^{\circ} 38' N$ Long. $126^{\circ} 00' W$

N.T.S. 93E/9, 93F/12

by

Donald G. Allen, P. Eng. (B.C.)

June 29, 1984

Vancouver, B.C.

SUMMARY

The Uduk Lake area is situated seventy kilometres south-southwest of Burns Lake in the Interior Plateau of central British Columbia. Claims were staked to cover argillized and weakly quartz-veined rhyolite volcanics over an area of about four square kilometres. Preliminary work has revealed anomalous amounts of Mo, Ag, Au, As, Pb and Zn in soil and rock.

CONCLUSION

The occurrence of argillized and quartz veined rhyolite at Uduk Lake containing above background amounts of Mo, Au, Ag, As, Pb and Zn indicates an environment that may host precious metal mineralization. Zones of argillic alteration occur in many gold-silver deposits associated with continental type volcanic terranes. Such zones have been interpreted as resulting from near surface boiling and oxidation of hydrothermal fluids (hot spring environment).

RECOMMENDATION

Detailed geological mapping and soil and rock chip sampling are recommended as a preliminary step in evaluating the property. If results are favorable, follow-up induced polarization surveys would aid in defining any pyritic zone.

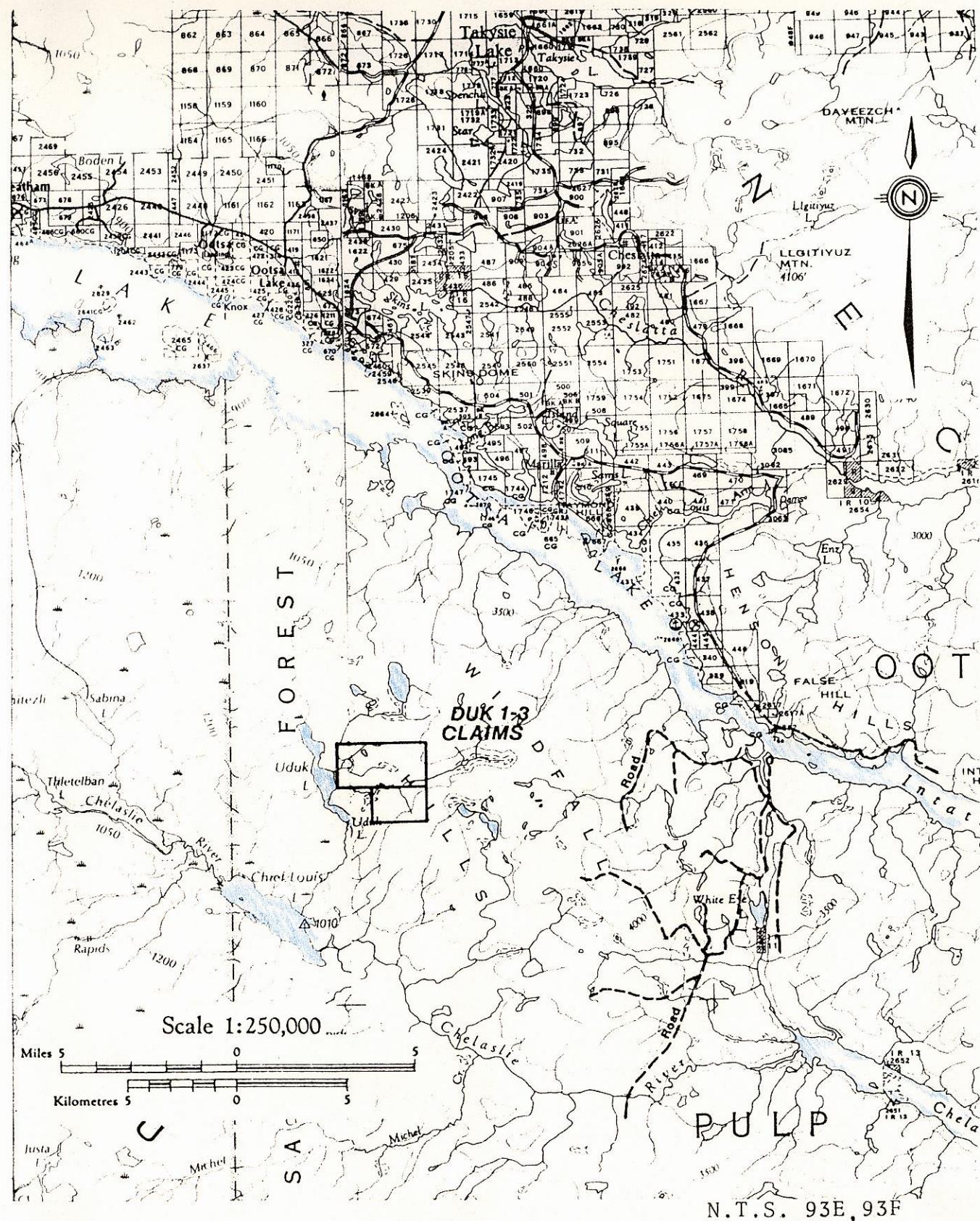
Further mapping beyond the claim boundaries is warranted, especially towards the fault contact with Hazelton volcanic to the east and to the area underlain by intrusive rock to the south.

INTRODUCTION

The Uduk Lake property is situated seventy kilometres south-southwest of Burns Lake in the Interior Plateau area of central British Columbia (Figure 1). The claims were staked in the Uduk Lake area in 1980 by Amax Exploration, as a result of the gold reconnaissance program undertaken in areas underlain by Late Cretaceous - Early Tertiary Ootsa Lake volcanic rocks. Amax carried out limited follow-up sampling on the claims in 1981 and subsequently allowed them to lapse.

Maximum relief in the Uduk Lake area is about 150 metres, and lakes and muskeg are abundant. Outcrop occurs mainly on the top of rock drumlins where bedrock "crag" forms the highest part of the feature, along the edges of some of the lake and creek depressions. Preliminary mapping has roughly defined an area of interest of approximately four square kilometres underlain by argillized and weakly quartz-veined rhyolite.

This report is based on one days fieldwork carried out by D.G. Allen in 1980 and on information supplied by Canamax Resources Ltd.



ACCESS MAP

DUK 1 - 3 CLAIMS

Omenica Mining Division - British Columbia

CLAIM OWNERSHIP

The property consists of two claims totalling 47 units (Figure 2) as follows:

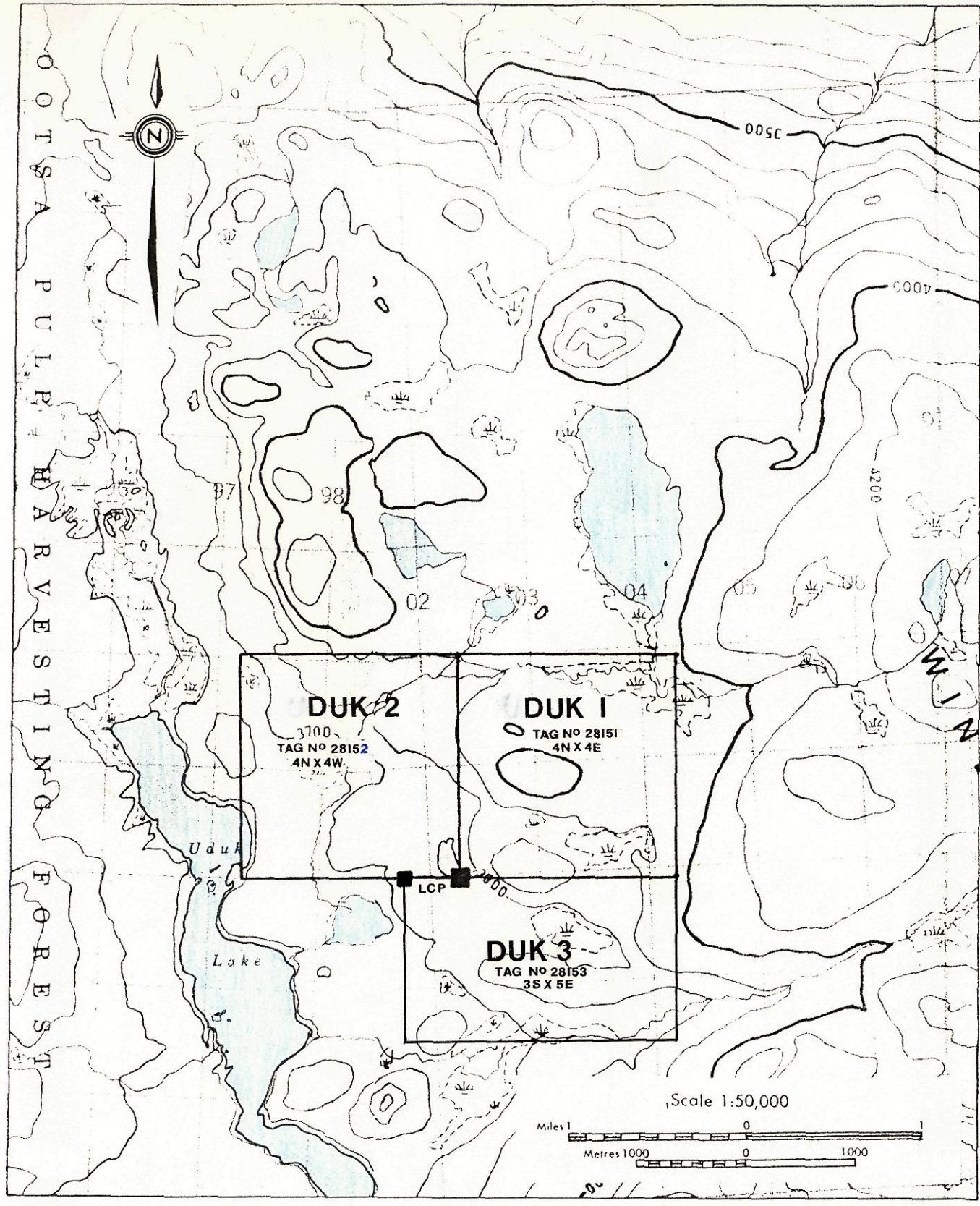
<u>Claim Name</u>	<u>Tag No.</u>	<u>Record No.</u>	<u>Expiry Date</u>
DUK 1	28151	Not yet received	June 20, 1985
DUK 2	28152	" " "	June 20, 1985
DUK 3	28153	" " "	June 20, 1985

The claims are recorded in the name of Stuart Travis.

GEOLOGY

Results of preliminary mapping are plotted on Figure 3. Porphyritic rhyolite (unit 3) is the most abundant unit in the claim area. It is white to cream coloured with 0.5-1.4 mm light grey quartz phenocrysts (10 to 20%) and 0.5-3 mm white feldspar phenocrysts (0 to 20%). Rhyolite and rhyodacite tuff and breccias of varied texture are included in unit 1. Grey to purplish grey rhyolite (unit 2) is commonly flow banded but locally is massive or contains orbicular structures. Andesite of the Jurassic Hazelton group and Tertiary? granitic rocks are shown by Tipper (1963) to occur in the northwestern and southwestern corner, respectively, of the map area.

The porphyritic rhyolite has been moderately to strongly argillized over an area of about four square kilometres as outlined on Figure 3. In some outcrops the rhyolite has been completely argillized and in others only the feldspar phenocrysts



N.T.S. 93E/9, 93F/12

CLAIM MAP

DUK 1 - 3 CLAIMS

Omenica Mining Division - British Columbia

have been argillized. Feldspar phenocrysts locally have been converted to vugs containing boxworks and linings of tiny quartz crystals with scattered minute sphalerite? crystals and light blue fluorite? crystals. Erratic vuggy quartz veins occur throughout the altered area. Quartz veins range in width from 0.2 to 2.5 mm and in intensity from 1 to 5 per metre (locally up to 20 per metre). Limonite is common as fracture and vug coatings. A sub-outcrop (unit 3b) near the 4,000 foot contour on the DUK 1 claim contains 0.1 - 3 cm rock fragments in a siliceous matrix with finely disseminated pyrite.

GEOCHEMISTRY

Preliminary sampling of soil and outcrop (Figure 3) indicates erratic anomalous values of gold (up to 700 ppb), silver (up to 3.6 ppm), molybdenum (up to 44 ppm), arsenic (up to 100 ppm), lead (up to 68 ppm) and zinc (up to 464 ppm). Soil material sampled is mainly glacial till which appears to poorly reflect the anomalous geochemical values obtained in rock. Analysis of panned soil samples might help in better defining the anomalous area.

REFERENCE

Tipper, H.W. (1963). Nechako River Map Area, Geological Survey of Canada, Memoir 324.

Appendix 1
GEOCHEMICAL RESULTS

Kossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

1205 15TH AVENUE

BURNABY, B.C.

CANADA

TELEPHONE: 299-6910

AREA CODE: 604

CERTIFICATE NO.

INVOICE NO.

DATE ANALYSED

80335-2
NOV 1980

PROJECT 1060

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	Au ^{PPB}				No.
01	80QFL719	1		18	0.2	58	2	10				01
02	720	1		38	0.2	66	2	10				02
03	80QFL721	1		24	0.2	58	2	10				03
04	80QFT717	1		2	0.2	54	4	10				04
05	722	1		2	0.2	96	10	10				05
06	723	1		2	0.2	54	2	10				06
07	724	1		2	0.2	56	4	10				07
08	725	1		2	0.2	74	6	10				08
09	726	1		4	0.2	64	4	10				09
10	80QFT728	1		2	0.2	62	4	10				10
11	729	1		2	0.2	56	2	10				11
12	730	1		2	0.2	54	2	10				12
13	80QFT731	1		2	0.2	66	2	10				13
14	80QFL732	1		12	0.2	90	2	10				14
15	80QFS733	1		10	0.2	64	4	10				15
16	734	1		8	0.2	52	2	10				16
17	735	1		14	0.2	58	2	10				17
18	736	1		8	0.2	72	2	10				18
19	80QFS737	1		10	0.2	72	2	10				19
20		12	190	1.0	118	80	-					20
21	738	1		8	0.2	82	2	10				21
22	80QFS739	1		8	0.2	44	2	50				22
23	80QFT740	1		2	0.2	12	2	10				23
24	80QFS741	1		10	0.2	94	2	10				24
25	80QFT742	1		2	0.2	20	2	10				25
26	80QFT743	2	12	0.2	60	72	10					26
27	80QFT744	4	2	0.2	26	2	10					27
28	745	1	2	0.2	62	2	10					28
29	746	1	2	0.2	60	4	10					29
30	80QFT747	2	198	0.2	188	2	10					30
31												31
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Certified by

P. Rossbacher

Kossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

BURNABY, B.C.

CANADA

TELEPHONE: 299-6910

AREA CODE: 604

CERTIFICATE NO.

80635-3

INVOICE NO.

DATE ANALYSED NOV. 1980

PROJECT 1060

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	PPB	Au				No.
01	80QJL 596	1		24	0.2	84	4		10				01
02	80QJS 597	1		8	0.2	102	6		10				02
03	588	1		10	0.2	102	2		10				03
04	589	1		8	0.2	106	4		10				04
05	590	1		30	0.2	154	2		10				05
06	591	1		8	0.2	116	4		10				06
07	80QJS 593	1		8	0.2	126	2		10				07
08	80QJL 593	1		12	0.4	98	2		10				08
09	80QJS 594	1		6	0.2	68	8		10				09
10	595	1		4	0.2	48	10		10				10
11	596	1	6	6	0.2	56	8		10				11
12	597	2	16	16	0.2	104	6		40				12
13	598	1	14	0.2	134	4			10				13
14	599	1	12	0.2	56	26			10				14
15	600	1	18	0.2	104	6			10				15
16	601	1	8	0.2	54	2			10				16
17	602	1	6	0.2	58	2			10				17
18	603	1	6	0.2	68	2			10				18
19	604	1	6	0.2	52	2			10				19
20	80QJS 605	1	4	0.2	58	2			10				20
21		-	-	-	-	-	-						21
22	80QJS 606	1	6	0.2	56	2			10				22
23	607	1	4	0.2	96	2			10				23
24	80QJS 608	1	6	0.2	54	2			10				24
25	80QJL 609	2	12	0.2	78	2			10				25
26	STD C	14	176	0.8	112	78			-				26
27													27
28													28
29													29
30													30
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Certified by *J. Kossbacher*

Kossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

CERTIFICATE OF ANALYSIS

1111-1111-1111-1111

BURNABY, B.C.

CANADA

TELEPHONE: 299-6910

AREA CODE: 604

CERTIFICATE NO.

INVOICE NO.

80835-4

DATE ANALYSED NOV. 19, '70

PROJECT 1060

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	PPE PPM	No.
01	80QAS 282	1	10	0.2	56	2	—	10	01
02	80QAT 283	1	4	0.4	10	2	—	10	02
03	80QAT 284	12	2	0.6	10	6	—	10	03
04	80QAS 285	1	10	0.2	76	4	—	10	04
05	80QAL 286	1	14	0.8	384	2	—	10	05
06	80QAS 287	2	8	0.2	70	2	—	10	06
07	80QAS 288	1	10	0.4	118	4	—	20	07
08	80QAS 289	1	14	0.2	50	2	—	10	08
09	80QAT 290	2	6	1.8	12	4	—	80	09
10	80QAS 291	1	6	0.4	36	6	—	120	10
11	80QAS 292	1	10	0.2	58	4	—	20	11
12	80QAS 293	1	8	0.1	42	4	—	10	12
13	80QAT 294	21	4	1.0	16	2	—	130	13
14	80QAS 295	1	6	0.2	92	2	—	10	14
15	80QAT 296	9	4	3.6	18	2	—	40	15
16	80QAL 297	2	12	0.2	88	2	—	10	16
17	80QAT 298	3	2	0.1	18	2	—	10	17
18	80QAL 299	4	12	0.2	96	2	—	10	18
19	80QAL 300	2	10	0.2	148	2	—	10	19
20	STD. 41FC	15	170	0.4	116	76	—	—	20
21	80QAL 301	1	12	0.2	74	2	—	10	21
22	80QAS 302	1	16	0.2	98	2	—	10	22
23	80QAS 303	1	8	0.2	60	2	—	10	23
24	80QAT 304	1	2	0.2	66	2	—	10	24
25	80QAS 305	1	16	0.2	74	2	—	10	25
26	80QAL 306	1	8	0.2	58	2	—	10	26
27	80QAT 307	1	4	0.2	42	2	—	10	27
28	80QAS 308	1	12	0.2	50	2	—	10	28
29	309	1	4	0.2	464	2	—	10	29
30	310	1	10	3.6	100	2	—	20	30
31	311	1	8	0.2	58	2	—	10	31
32	312	1	10	0.2	50	2	—	40	32
33	313	1	18	0.2	72	2	—	10	33
34	314	1	14	0.2	52	2	—	10	34
35	315	1	6	0.2	78	2	—	10	35
36	80QAS 316	1	8	0.2	78	2	—	10	36
37	80QAT 317	1	8	0.2	30	2	—	50	37
38	—	—	—	—	—	—	—	—	38
39	80QAT 319	1	88	0.4	72	2	—	20	39
40	STD. 41FC	15	172	0.1	110	72	—	—	40

Certified by

1/17/70 Kossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,

BURNABY, B.C.

CANADA

TELEPHONE: 299-6910

AREA CODE: 604

CERTIFICATE NO.

INVOICE NO.

DATE ANALYSED

SCPT 1980

PROJECT

1060

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

CERTIFICATE OF ANALYSIS

No.	Sample	pH	Mo	Cu	Co	Ag	Zn	Pb	Ni	Mn	T,	As	As	No.	Ch as
01	80QNT 278		2	24	18	0.8	64	8	30	440	2.6	2	100	01	0.2
02	80QNT 279		1	24	14	0.2	44	6	18	950	3.2	2	10	02	0.2
03	80QNT 280		1	12	16	0.6	124	10	16	900	3.4	2	10	03	0.2
04	80QNT 281		1	2	6	0.2	32	12	8	150	1.0	2	10	04	0.2
05	80QNT 282		1	14	10	0.4	64	10	16	720	1.8	2	10	05	0.2
06	80QNT 283		1	14	10	0.2	52	4	14	380	1.8	2	10	06	0.2
07	80QNT 284		2	14	12	0.2	48	6	18	390	2.0	12	10	07	0.2
08	80QNT 285		3	12	12	0.4	54	4	20	380	2.2	8	10	08	0.2
09	80QN 286		2	10	10	0.8	60	6	16	190	2.4	16	10	09	0.2
10	80QN 287		1	8	4	0.2	36	2	6	280	1.2	2	10	10	0.2
11	80QNT 288		3	16	14	0.4	58	6	16	560	2.2	2	10	11	0.2
12	80QN 289		3	18	25	0.6	96	8	22	640	3.0	2	10	12	0.2
13	80QN 290		2	4	10	0.4	40	4	10	130	1.4	2	10	13	0.4
14	80QN 291		2	12	16	0.8	54	8	18	560	2.6	14	10	14	0.4
15	80QNT 292		2	10	34	0.0	128	14	28	1020	5.8	2	10	15	0.4
16	80QN 293		2	8	8	0.4	36	4	12	320	1.6	2	10	16	0.2
17	80QN 294		2	10	10	0.6	58	8	16	240	2.2	6	10	17	0.2
18	80QN 295		13	14	28	1.0	102	2	27	2820	6.6	22	10	18	0.6
19	80QN 296		2	6	6	0.4	40	6	12	170	1.6	2	10	19	0.4
20	80QNT 297		3	8	14	0.4	56	8	14	720	1.8	2	10	20	0.2
21														21	
22	80QN 298		7	12	14	0.4	70	10	18	700	2.2	9	10	22	0.2
23	80QNT 299		7	6	8	0.4	24	30	12	120	1.0	10	10	23	0.2
24	80QNT 300		6	78	26	0.6	104	16	34	480	4.8	6	10	24	0.2
25	80QN 301		4	10	14	0.4	60	2	22	330	3.2	10	10	25	0.2
26	80QN 302		4	10	12	0.6	104	6	20	210	2.6	12	10	26	0.2
27	80QN 303		3	8	8	0.2	48	6	10	200	1.6	12	10	27	0.2
28	80QNT 304		14	4	10	1.4	28	68	16	120	1.4	100	140	28	1.2
29	80QN 305		6	10	16	0.8	66	4	16	2530	3.0	8	210	29	0.2
30	80QN 306		5	10	12	0.8	86	6	18	190	3.0	6	20	30	0.2
31														31	
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Certified by

F. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

111111 AVENUE

BURNABY, B.C.

CANADA

TELEPHONE: 299-6910

AREA CODE: 604

CERTIFICATE NO.

INVOICE NO.

DATE ANALYSED SEPT. 1980

PROJECT 1060

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

No.	Sample	pH	Mo	Cu	Ni	C	Mn	Fe	Ag	Zn	Pb	A	As	No.
01	800QR 274	1	24	44	30	1900	6.1	0.2	82	2	NSS	20	01	
02	275	2	18	28	18	3600	4.0	0.2	72	8	10	14	02	
03	276	1	8	18	16	3500	2.2	0.2	60	6	10	16	03	
04	277	1	10	16	19	3800	2.4	0.2	58	10	NSS	14	04	
05	800QR 278	2	16	22	20	1480	3.0	0.2	68	8	10	14	05	
06	800QR 280	1	8	16	19	2000	2.1	0.2	38	12	20	18	06	
07	281	1	8	16	16	1800	1.7	0.2	82	10	10	10	07	
08	282	1	10	16	10	200	1.9	0.2	44	10	10	18	08	
09	284	2	22	44	26	400	4.5	0.2	134	8	10	17	09	
10	285	1	14	16	10	220	2.2	0.2	52	6	10	7	10	
11	286	3	24	30	18	300	3.4	0.2	82	10	10	2	11	
12	287	1	16	34	18	1600	3.2	0.2	82	6	10	8	12	
13	288	1	14	26	16	300	3.0	0.2	72	4	20	10	13	
14	289	1	8	14	8	200	1.7	0.2	40	10	10	12	14	
15	800QR 290	2	10	16	10	1400	2.2	0.2	56	8	20	12	15	
16	800QRT 291	3	2	10	8	800	0.8	0.4	10	10	10	26	16	
17	800QR 292	1	10	14	8	2000	1.8	0	52	12	10	10	17	
18	293	2	10	20	11	800	3.1	0	84	6	10	10	18	
19	294	2	12	22	12	2600	2.4	0.2	60	8	10	12	19	
20	800QR 295	2	14	16	12	2600	2.5	0.2	48	8	10	12	20	
21	800A	4	16	14	8	4400	2.5	0.4	30	22			21	
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Certified by

C. Rossbacher

Kossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

2225 S. 5TH AVENUE
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604
CERTIFICATE NO.

INVOICE NO.

80557-14

DATE ANALYSED OCT 1980

PROJECT 1060

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	Au	As	No.
01	80QFT 385	5	26	22	20	660	3.7	0.2	78	2	10	8	01	
02	80QFT 386	5	2	4	4	120	0.6	0.2	16	2	1	28	02	
03	80QFT 387	4	6	8	3	500	1.9	0.2	99	2	1	4	03	
04	80QFS 388	14	8	56	10	160	2.2	0.2	40	2	10	16	04	
05	80QFS 390	4	10	24	18	320	3.5	0.2	58	2	11	20	05	
06	391	1	12	14	14	560	2.6	0.2	56	2	10	10	06	
07	392	2	6	8	8	180	2.2	0.2	42	2	10	4	07	
08	393	4	12	22	20	520	3.0	0.2	68	2	10	16	08	
09	394	3	16	38	26	480	4.1	0.2	70	4	10	8	09	
10	20QFT 395	2	6	10	8	260	2.0	0.2	42	2	10	4	10	
11	80QFS 399	3	8	12	8	180	2.2	0.2	52	4	1	15	11	
12	20QFS 401	3	4	6	6	140	1.8	0.2	34	2	10	2	12	
13	402	2	6	6	6	160	1.4	0.2	30	2	10	8	13	
14	403	3	12	22	18	320	2.9	0.2	78	2	10	16	14	
15	404	2	8	12	10	740	2.1	0.2	46	2	10	16	15	
16	80QFS 405	3	10	18	16	480	2.8	0.2	70	4	1	14	16	
17	80QF 406	3	10	18	12	280	2.5	0.2	70	4	1	14	17	
18	407	2	8	14	8	240	2.0	0.2	54	4	10	16	18	
19	80QF 408	2	8	18	10	260	2.2	0.2	44	4	10	12	19	
20	STD G9	18	232	12	6	140	1.1	0.6	426	344	-	-	20	
21	409	3	16	26	20	560	2.9	0.2	130	8	10	10	21	
22	410	3	8	18	14	220	2.4	0.2	56	2	1	16	22	
23	411	2	8	24	14	240	2.6	0.2	70	2	10	16	23	
24	412	2	6	16	12	260	2.6	0.2	58	4	10	16	24	
25	413	2	10	18	16	340	3.0	0.2	80	2	10	14	25	
26	414	2	8	16	12	340	2.6	0.2	50	2	10	8	26	
27	415	3	8	16	14	320	2.5	0.2	56	4	10	6	27	
28	416	2	12	18	12	360	2.4	0.2	54	4	10	10	28	
29	417	2	12	40	18	300	2.7	0.2	76	4	10	10	29	
30	80QF 418	2	14	20	16	360	2.7	0.2	60	2	10	12	30	
31	STD G9	17	212	14	6	120	1.1	0.6	402	334	-	-	31	
32													32	
33													33	
34													34	
35													35	
36													36	
37													37	
38													38	
39													39	
40													40	

Certified by

P. Kossbacher

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B.C.
CANADA
TELEPHONE: 299-6910

UDUC

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

CERTIFICATE NO. 81155-1
INVOICE NO. 1338

DATE ANALYSED JUNE 29/81
PROJECT 1158

No.	Sample	pH	Mo	Cu	PPB Fla							No.
01	81K65129				10							01
02	130				10							02
03	131				10							03
04	132				10							04
05	133				40							05
06	134				60							06
07	135				60							07
08	136				10							08
09	137				10							09
10	81K65138				10							10
11	139				10							11
12	140				10							12
13	141				30							13
14	142				10							14
15	143				10							15
16	144				10							16
17	145				10							17
18	81K65146				10							18
19					—							19
20	81K65147				10							20
21	148				10							21
22	149				10							22
23	150				10							23
24	S151				10							24
25	T152				10							25
26	S153				10							26
27	T154				10							27
28	S155				10							28
29	81K6T156				10							29
30												30
31												31
32												32
33												33
34												34
35												35
36												36
37												37
38												38
39												39
40												40

VALUES IN PPM, UNLESS NOTED OTHERWISE

Certified by

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B.C.

CANADA

TELEPHONE: 299-6910

UDUK C.

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

CERTIFICATE NO. 81155-2
INVOICE NO. 1338

DATE ANALYSED JULY 4/81

PROJECT 1158

No.	Sample	pH	Mo	Cu	PDB Au							No.
01	81K05125				10							01
02	126				10							02
03	127				10							03
04	128				10							04
05	129				110							05
06	S130				10							06
07	T131				10							07
08	S132				10							08
09	133				10							09
10	81K05134				10							10
11	T135				40							11
12	T136				10							12
13	S137				10							13
14	T138				10							14
15	S139				10							15
16	140				10							16
17	141				10							17
18	142				10							18
19	81K05143				10							19
20					-							20
21	81K05144				10							21
22	145				10							22
23	146				60							23
24	147				10							24
25	148				700							25
26	149				10							26
27	150				10							27
28	151				10							28
29	152				10							29
30	81K05153				10							30
31												31
32												32
33												33
34												34
35												35
36												36
37												37
38												38
39												39
40												40

VALUES IN PPM, UNLESS NOTED OTHERWISE

Certified by

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B.C.
CANADA
TELEPHONE: 299-6910

УДК · С.

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

CERTIFICATE NO. 81155-3
INVOICE NO. 1338
DATE ANALYSED JULY 4/81
PROJECT 1158

VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

2225 S. GRANGER AVENUE,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910

UDUK L

CERTIFICATE NO. 81155-4
INVOICE NO. 1339

DATE ANALYSED JULY 4/81

PROJECT 1158

No.	Sample	pH	MS	g/t	PPB Au	PPB Hg						No.
01	81KET 1				10	-						01
02	S 2				10	-						02
03	3				10	-						03
04	4				10	-						04
05	5-				10	-						05
06	S 6				10	-						06
07	T 7				10	-						07
08	S 8			40	40	-						08
09	T 9				10	-						09
10	81KET 10				10	-						10
11	T 11				10	-						11
12	S 12				10	-						12
13	13				10	300						13
14	S 14				10	-						14
15	T 15			40	40	-						15
16	T 16			60	60	-						16
17	S 17				10	400						17
18	T 18				20	-						18
19	81KET 19			40	40	-						19
20					-	-						20
21	81KET 20			70	70	-						21
22	T 21				20	-						22
23	S 22				20	-						23
24	T 23				10	200						24
25	24				10	-						25
26	25				10	-						26
27	26				-							27
28	27			50	50	-						28
29	28				N.55	400						29
30	81KET 29				10	-						30
31	S 30				10	-						31
32	T 31				10	-						32
33	32				10	-						33
34	33				20	-						34
35	34				10	-						35
36	T 35				10	-						36
37	81KET 36			100	100	-						37
38												38
39												39
40												40

VALUES IN PPM, UNLESS NOTED OTHERWISE

Certified by

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604
CERTIFICATE NO. 80865-1
INVOICE NO.

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601-535 THURLOW ST.
VANCOUVER, B.C.

DATE ANALYSED

NOV 28

NOV PROJECT 1060

No.	Sample	pH	Mo	Cu	As → As	Hg	Sb			No.
01	80QAT 293				.70 - 14	30	0			01
02	294				.190 38	10	0			02
03	290				.440 88	60	2			03
04	294				.410 82	20	0			04
05	80QAT 298				.020 4	20	0			05
06	70QAL 299				.090 18	40	0			06
07	80QAL 300				NSS	70	0			07
08	80QAT 304				.020 4	60	0			08
09	80QAL 306				.045 9	50	0			09
10	80QAT 307				.025 5	290	0			10
11	80QAT 317				.095 19	30	0			11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
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38										38
39										39
40										40

Certified by _____

Kossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

1000 10TH AVENUE

BURNABY, B.C.

CANADA

TELEPHONE: 299-6910

AREA CODE: 604

CERTIFICATE NO. 20865-2

INVOICE NO.

DATE ANALYSED

TO: AMAX MINERALS EXPLORATION
601 - 635 THURLOW ST.
VANCOUVER, B.C.

CERTIFICATE OF ANALYSIS

No. 21 Nov 24 PROJECT 1060

No.	Sample	pH	Mo	Cu		<i>113</i>	96	AS → 150		No.
01	800FT 740					10	0	10.5	15	01
02	742					20	0	10.0	14	02
03	800FT 744					60	2	0.55	11	03
04						310 C	330	5	69.48	04
05										05
06										06
07										07
08										08
09										09
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
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29										29
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32										32
33										33
34										34
35										35
36										36
37										37
38										38
39										39
40										40

Certified by _____

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

CERTIFICATE OF ANALYSIS

TO: ADM EXPLORATION LTD.

BURNABY, B.C.

CANADA

TELEPHONE: 299-6910

CERTIFICATE NO. 84130

INVOICE NO.

DATE ANALYSED 84/06/13

PROJECT 220

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	As	¹¹³ Au				No.
01	CT 004	13		6	8.0	72	68	50	3600				01
02													02
03													03
04													04
05													05
06													06
07													07
08													08
09													09
10													10
11													11
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32													32
33													33
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35													35
36													36
37													37
38													38
39													39
40													40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE 251-1011

BOOK

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 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,Ca,P,Cr,Mg,Ba,Ti,B,Al,Na,K,W,Si,Zr,CE,Sn,Y,Nb AND Ta. Au DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS Au# ANALYSIS BY FA-AA FROM 10 GRAM SAMPLE. Hg ANALYSIS BY FLAMELESS AA.

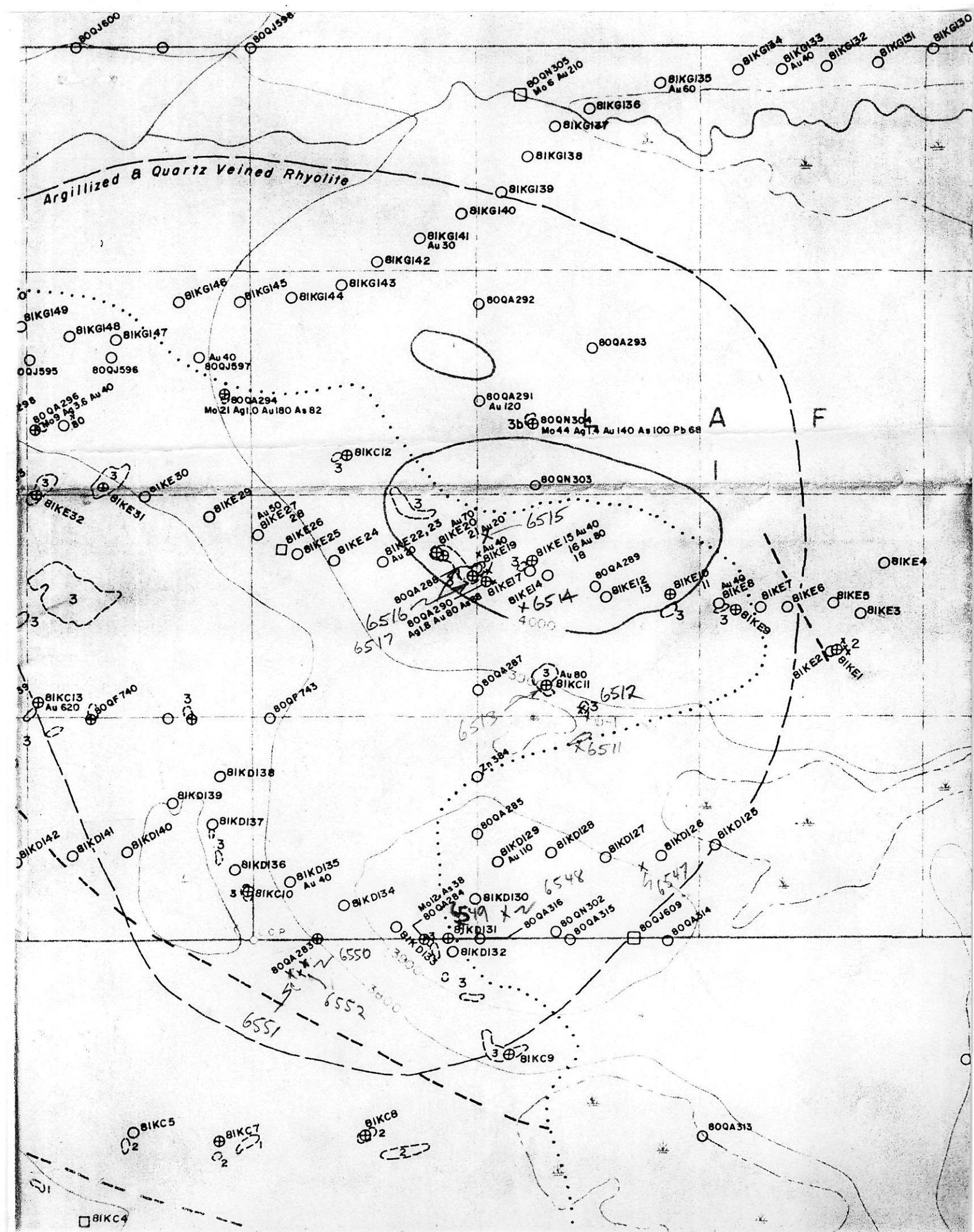
DATE RECEIVED: JUNE 4 1984 DATE REPORT MAILED: June 7/84 ASSAYER... *D. Kelly* DEAN TOYE. CERTIFIED B.C. ASSAYER

SAMPLE#	HOMESTAKE MINERAL PROJECT # BR-02-5710 FILE # B4-0960																		PAGE	1												
	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	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 PPM	La PPM	Cr PPM	Mg PPM	Ba PPM	Ti PPM	B %	Al %	Na %	K %	W PPM	Au# PPB	Hg PPB
BR-02-4-6511	6	7	20	8	.4	1	1	.93	110	2	ND	7	7	1	2	2	2	.01	.01	30	1	.01	83	.01	5	.25	.01	.20	2	40	\$	
BR-02-4-6512	7	3	13	4	.1	1	1	.35	.26	11	2	ND	7	4	1	2	2	.01	.01	36	1	.01	25	.01	4	.23	.01	.17	2	13	5	
BR-02-4-6513	6	3	13	3	.4	1	1	.26	.70	73	2	ND	6	5	1	2	2	.01	.01	18	1	.01	36	.01	3	.19	.01	.19	2	105	10	
BR-02-4-6514	5	6	5	4	4.7	1	1	.35	.78	49	2	ND	3	7	1	2	2	.01	.01	4	1	.01	81	.01	5	.25	.01	.04	2	65	50	
BR-02-4-6515	11	3	13	4	.5	1	1	.32	.53	178	4	ND	8	5	1	2	4	.01	.01	34	1	.01	47	.01	2	.23	.01	.18	2	15	5	
BR-02-4-6516	2	4	3	2	1.4	2	1	24	1.18	186	2	ND	2	6	1	2	2	.01	.01	2	1	.01	23	.01	4	.30	.01	.02	2	125	80	
BR-02-4-6517	1	3	6	1	.6	2	1	41	.89	64	2	ND	2	3	1	2	2	.01	.01	2	1	.01	23	.01	2	.18	.01	.01	2	23	70	
BR-02-4-6547	5	3	11	11	2.1	1	1	.38	.85	210	2	ND	10	7	1	2	4	.01	.01	26	1	.01	92	.01	3	.27	.01	.14	2	25	50	
BR-02-4-6548	12	2	4	3	.5	1	1	.45	.42	39	2	ND	9	2	1	2	4	.01	.01	26	1	.01	15	.01	2	.16	.01	.13	2	10	20	
BR-02-4-6549	4	3	14	9	1.1	1	1	.43	.52	137	2	ND	12	3	1	2	2	.01	.01	32	1	.01	43	.01	5	.28	.01	.18	2	28	80	
BR-02-4-6550	10	2	11	7	.5	1	1	.57	.52	93	3	ND	10	2	1	2	4	.01	.01	30	1	.01	36	.01	5	.24	.01	.17	2	23	30	
BR-02-4-6551	24	3	10	7	6.3	1	1	.80	1.13	188	2	ND	8	4	1	12	3	.01	.01	24	1	.01	64	.01	2	.19	.01	.19	2	70	100	
BR-02-4-6552	2	2	5	10	.4	1	1	.47	.40	52	2	ND	13	4	1	2	5	.02	.01	36	1	.01	50	.01	2	.41	.01	.19	2	12	40	
STD A-1/FA-AU	1	31	38	185	.4	38	11	1048	2.79	9	2	ND	2	36	2	2	2	.56	.61	.10	7	.63	.62	252	.09	8	1.98	.02	.19	2	510	55

RECEIVED

JUN 11 1984

J. T. ABBOTT



UDUK LAKE SAMPLING

- Site #1
- Outcrop sampled between 300 to 400 m at a bearing of 308° from small lake.
1. 400 m
27080 Outcrop area about 5 m².
Slightly rusty, fresh broken rock is bleached tuff - probable acid composition small quartz eyes and shards. Later quartz as stringers (1 mm) drusy quartz and chalcedonic quartz. Specks of pyrite and a dark metallic mineral (hematite in some cases but not always). Strike 045°, dip 50°NW
2. 330 m
27081 Similar to above - altered rhyolitic tuff. Quartz eyes and shards. Specks of pyrite and probable hematite. Some samples with pink (pale) hematite stain. Some later drusy quartz and chalcedony.
3. 300 m (A,B,C)
27082 Samples collected over an area 50 m x 50 m.

A More drusy or small vugs with quartz lining than previous samples, also some apparently shattered original rock with healing by silica. Similar to previous samples ie. altered argillic rhyolite tuff.

B 27083 Similar to above - later drusy quartz - pyrite associated but not the last ie. a quartz pulse was last.

C 27084 Rhyolite breccia healed with quartz, possible fine tuff breccia. Small vugs with drusy quartz also minor sulphides (fine pyrite specks and a grey mineral that is so fine it's just a colouration in the quartz).
- Site #2
- Bearing 339° from swamp for approximately 300 m.
- A. 350 m
27085 Breccia with clasts up to 1/2", clasts vary from glassy quartz to felsic/clay alteration, jasper looking material, dark basic looking clasts. Occasional speck of grey metallic mineral (hematite), matrix silica.
- B. 350 m
27086 Similar to above. Some laminae in outcrop not noticeable in samples. Definite hematite. Vug with smooth lining. Outcrop under fallen tree root.
- C. 350 m
27087 Breccia similar to above but a darker coloured matrix - some clasts are clay with quartz eyes.
- C. 350 m
27088 Basaltic rock suspect it is a dyke, honey coloured, soft mineral maybe pyroxene.
- D. 350 m
27089 Breccia as before, specks of hematite.
- 230 m
27090 Quartz-eye rhyolite, occasional speck of hematite.
- Site #3
- 150 to 200 m
27091 Altered rhyolite, banded or laminated possibly flow banding, some (1 mm) very thin quartz bands parallel to larger scale bands but discontinuous. Some grey chert-looking eyes shot through with specks of hematite. Some vugs with drusy quartz.

SAMPLE SITE #2

SAMPLE	PPB	PPM
27085	46	5.4
27086	40	3
27087	42	3.7
27088	<10	<.4
27089	<10	2.1
27090	<10	<.4

3

A hand-drawn sketch of a winding path or river. The path starts at the bottom left, goes up and to the right, then turns back towards the left, then right again, and finally ends at a small circle labeled "Pond". There are three small circles along the path, one above the start, one near the middle, and one above the end.

SAMPLE	C:3	SAMPLE	AU PPB	Ag PPM
1	SITE #1	27080	1904	B.1
2	27081	126	3.3	
3	27082	850	3.4	
4	27083	142		2
5	27084	230	2	3

SAMPLE AU AG
SITE #3 SAMPLE PPM PPM
27091 <10 <.4

LAKE

Claim boundary

UDUK

LAKE



from a map by D.G. Allen
A&M Expl. Ltd.

Drawn by: Traced by: wew

UDUK LAKE PROPERTY

COMINCO SAMPLE LOCATIONS

Scale: 1:10 000

Date AUG 1984

Plate

