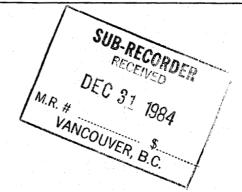
MQ Report #76 Ref: RM1103



GEOLOGICAL AND GEOCHEMICAL EXPLORATION ON THE AARON CLAIMS

Kamloops Mining Division

N.T.S. 82 M/5

Latitude 51°20'N Longitude 120°00'W

Ву

G.J. Dickie, Ph.D. F.G.A.C. and G.D. Hodgson, M.Sc.

of

MineQuest Exploration Associates Limited

for

Mammoth Resources Limited

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,297

November, 1984



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

(over)

TYPE OF REPORT/SURVEY(S) Geological and Geochemical	ş	TOTAL COST 12,025
AUTHOR(S) G.J. Dickie G.D. Hodgson	NATURE(S)	ekir
PROPERTY NAME(S)AARON	D	YEAR OF WORK
COMMODITIES PRESENT		•••••
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OWNER(S) OPERATORS		
(1) Mammoth Resources Ltd. (2)		
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MAILING ADDRESS		
1250-701 West Georgia St	•••••	
Vancouver, B.C.	•••••	
OPERATOR(S) (that is, Company paying for the work)		
(1) Mammoth Resources Ltd. (2)	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •
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SUMMARY AND RECOMMENDATIONS

The AARON claims were acquired to explore for massive sulphide deposits in a volcanic-sedimentary package of the Eagle Bay Formation. A program of geological mapping and geochemical sampling was conducted on the property in October, 1984.

The claims are underlain predominantly by phyllitic shale with interbedded siltstone, sandstone, and grit of the upper Eagle Bay Formation of Mississippian age. The strata are strongly folded and cut by thrust faults which may bring prospective volcanic rocks close to the surface but none were found outcropping on the property.

Sixty-one stream silts, 350 soil samples and 8 rock samples were taken from the property to test for base and precious metal concentrates.

The only area of elevated geochemistry lies at the western edge of the claims over the fault contact between Eagle Bay phyllites and lower Fennell basalts and cherts.

The immediate potential of the property seems limited and no further work is recommended.

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- I RESULTS OF GEOCHEMICAL SAMPLING
- II COST STATEMENT
- III STATEMENTS OF QUALIFICATIONS

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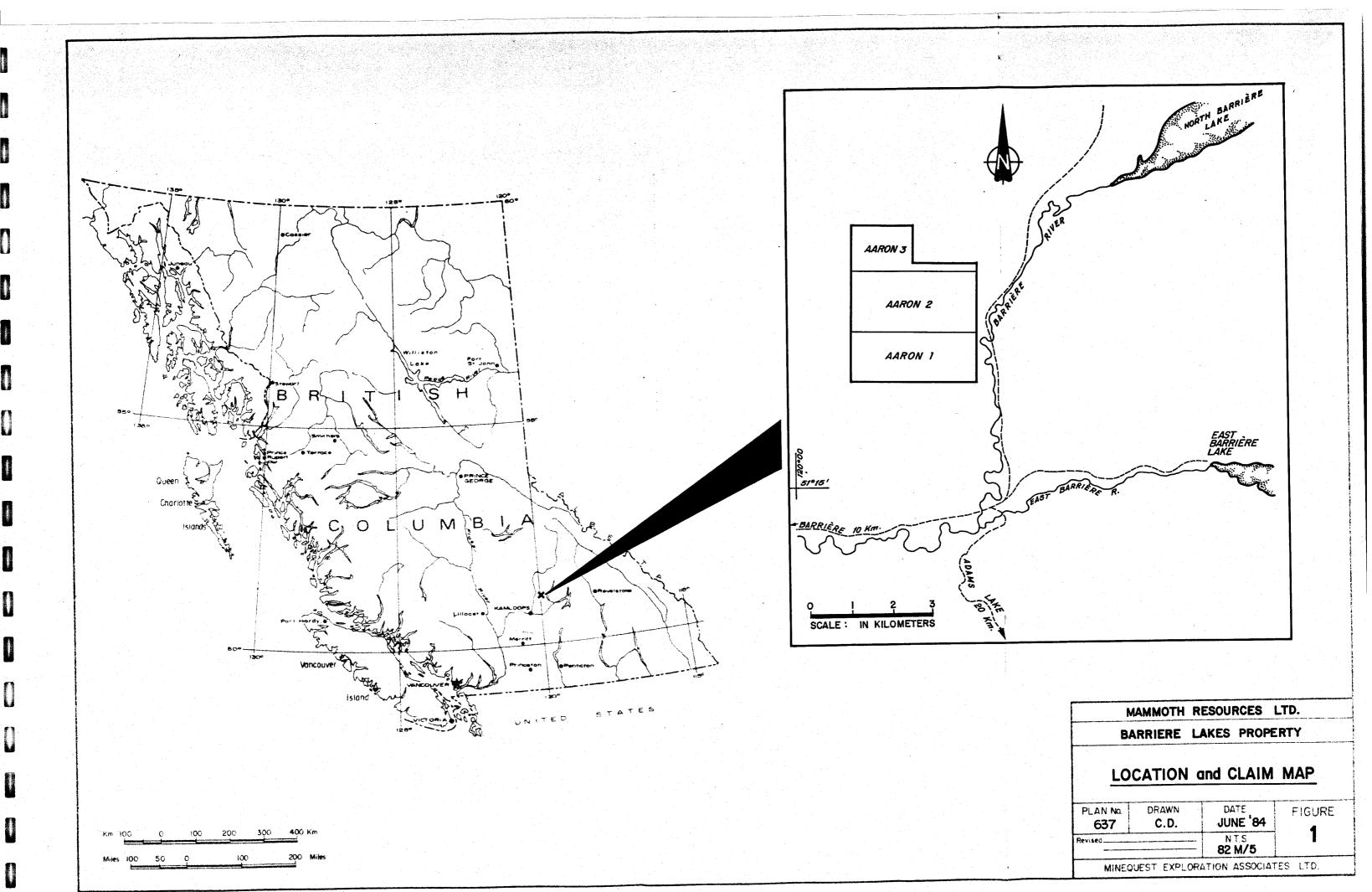
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1	Location Map (Plan #637)	after page 2
2	Regional Tectonics	after page 7
3	Property Geology (Plan #676)	in pocket
4	Geochemical Sampling (Plan #677)	in pocket

INTRODUCTION

Mammoth Resources Limited holds mineral title to the AARON property consisting of three located claims (AARON 1, AARON 2, and AARON 3) in the Barriere area of the Kamloops Mining Division in south central British Columbia (Figure 1). The property is 25km along strike from the newly discovered Hilton massive sulphide Au-Ag-Cu-Pb-Zn-Ba deposit and was staked to explore for similar deposits. Numerous smaller showings of base and precious metals are known in the vicinity of the properties.

Recent geological mapping (Preto, 1981, Schiarizza and Preto, 1984) has clarified the complex stratigraphy and structure in the area and enabled better correlation of mineralization with stratigraphy. The Hilton deposit occurs at the top of a mafic volcanic sequence near the contact with black clastic sediments and felsic volcanics, the "Rea Contact". This contact extends to the northwest from the Hilton discovery to within 500 metres of the AARON claims. The AARON claims cover only the overlying black clastic sediments and their main potential lies in finding the "Rea Contact" at depth on the property.



2.0 ACCESS AND TOOGRAPHY

Paved highways and gravel logging roads provide access to the claims from Barriere (25km). Forestry roads and trails cross the claims and most of the property area can be reached on foot from these trails. Elevations range from 650 metres to 1500 metres on an east-facing hill slope of moderate relief. The upper elevations of the property are accessible only from late May to mid-November. Forest cover is thick being locally secondary growth. In areas of moderate relief, exposure is poor, most outcrops being found on logging roads and trails and in creek beds. Rare outcrops occur on steeper slopes.

CLAIM STATUS

Title to AARON 1, AARON 2, and AARON 3 claims has been purchased by Mammoth Resources Limited. As it appears on the most recent mineral titles maps, title to approximately 25% of the area claimed had been previously granted to other claimants. The uncontested area of the claims is shown in Figure 1.

CLAIM DETAILS

Claim Name		Record Number	No. of Units Staked	Due date after this report	Remarks
AARON	1	5395	18	December 1985	3 units over- staking valid claim
AARON	2	5396	18	December 1985	
AARON	3	5397	18	December 1985	10 units over-
					staking valid claim

Same

PREVIOUS WORK

There is no publicly available report of exploration on ground covered by the AARON claims, but there are numerous assessment claims covering showings to the north. Some work was done on the ENARGITE showing (A.R. 5039, 5363) a mineralized quartz - carbonate vein in the dark grey clastic unit. The AARON property has been covered by numerous regional surveys including the B.C. Government regional geochemical sampling program but no significant anomalies have been reported.

The most active properties in the area have been those in the felsic volcanic unit, notably the Rainbow to the north and the Homestake to the southeast. These properties have been intermittently explored since 1930. Most recently, exploration of the Hilton deposit in 1983 defined two massive sulphide lenses containing 150,000 tons of 14 gm/ton Au, 120 gm/ton Ag, 0.7% Cu, 3.6% Zn and 3.1% Pb and 3% As. Regional rock chip geochemical sampling of the host rusty felsic volcanic unit trending in the direction of the AARON claims is reported to have outlined numerous anomalies suggestive of mineralization.

1984 PROGRAM

In October 1984 the following work was undertaken on the AARON claims:

- Geological mapping of the property and rock chip sampling of lithologies.
 4 days by G.D. Hodgson, B.Sc., M.Sc.
- Stream silt and soil sampling.
 8 days by M. Holmes and S. Syroishko.

The work described in this report was performed under the supervision of G.J. Dickie, Ph.D., F.G.A.C.

REGIONAL GEOLOGY

Preto (1981) and Schiarizza & Preto (1984) have mapped the region at 1:100,000, and Dickie (1984a) has reported on the parameters for exploration in the area. The AARON property is underlain by strata of the Eagle Bay Formation of probable Devonian-Mississippian age (Dickie, 1984b). In the area of the claims, dark grey phyllitic clastic rocks overlie a felsic volcanic unit. Basic volcanics and cherts of the Devonian to Permian Fennell Formation outcrop to the west.

The structural geology of the area is complex, with three phases of folding recognized on both regional and property scales (Dickie, 1984 a & b). The first phase of folding is now isoclinal, which makes stratigraphic correlation difficult. Regional mapping (Schiarizza & Preto, 1984) has defined a large scale anticline trending north-south through the property. Major faults have been mapped marking the boundaries of the dark grey clastic unit.

A number of Cu-Pb-Zn showings are known from phyllitic felsic volcanics northeast of the AARON property. These rocks are stratigraphically equivalent to the host unit of the Homestake Ba-Ag deposit, 22km to the southeast. Eighteen kilometres southeast of the AARON claims, the Hilton (Rea) massive sulphide Au-Ag-Cu-Pb-Zn-Ba deposit occurs at the top of a mafic volcanic sequence in the Eagle Bay Formation at a contact with overlying dark grey clastics and felsic volcanics. This contact, the so-called "Rea Contact" can be traced northwest to within a few kilometres of the AARON claims.

The Enargite showings of Pb-Ag in a quartz vein in dark grey limestone is 4km to the north of the AARON property along the stratigraphic trend. The Chu Chua Cu-Co deposit is hosted by basalts of the upper Fennell Formation, 10km northwest of the AARON claims.

Aspects of the regional tectonics as interpreted by Schiarizza & Preto (1984) warrant discussion. Their major tectonic elements are shown in Figure First, they have mapped a large dextral strike-slip fault running from Barriere northeastwards through North Barriere Lake. addition, they regarded the Fennell/Eagle Bay contact as a near vertical thrust fault with upwards movement on the west side. Mapping on the AARON property suggests the Fennell/Eagle Bay contact is in fact a westerly verging, steeply east-dipping thrust fault that causes the Eagle Bay rocks to ride over the Fennell Formation (Figure 3). Other thrusts repeat units within the Eagle Bay Formation. Large scale folding was contemporaneous with thrust movement, one result of which is the overturned anticline that trends north-south through the AARON claims.

The Fennell/Eagle Bay thrust on the west side is a major structure that affected units to the south of the Barriere River, that is south of the Barriere River Fault. It is suggested that the dominant movement on this Barriere River Fault fault was not strike-slip, as proposed by Schiarizza & Preto (1984), but vertical. The north side was downfaulted and the south side upfaulted, and subsequent erosion has exposed the core of the overturned anticline south of the Barriere River (Figure 2.2). The core is occupied by the felsic volcanic unit.

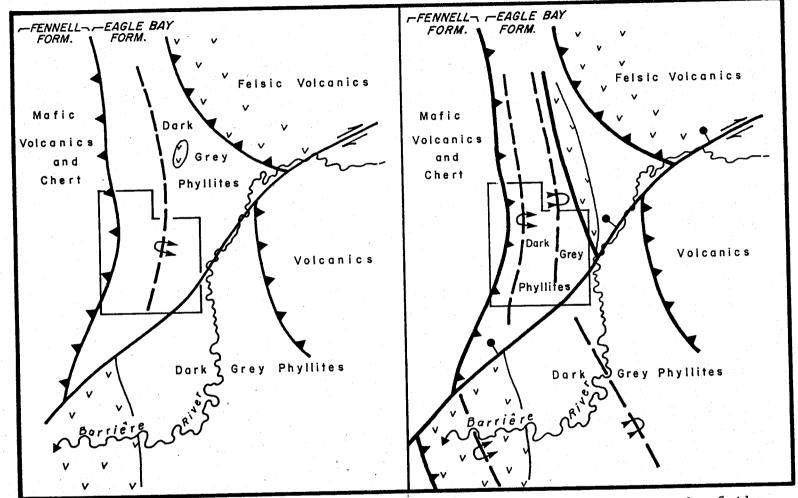


Fig. 2.1 Tectonic framework of the AARON claims area after Schiarizza & Preto (1984)

Fig. 2.2 Tectonic framework of the AARON claims area as described in this report

PROPERTY GEOLOGY

7.1 General

The AARON claims are mostly underlain by dark grey phyllitic rocks of the Eagle Bay Formation. The rocks have undergone three phases of folding, a period of thrusting, and at least one episode of normal faulting. Outcrop is poor, and distinctive marker units within the sequence have not been recognized. The lack of detailed correlations on the geological map of the property reflects this structural complexity (Figure 3).

7.2 Lithology

The predominant lithology is a dark grey phyllite with orange weathering blebs 1-2mm across. The original rock was probably an ankeritic shale deposited in relatively aerobic conditions. Carbonaceous and/or pyritic shales or phyllites were not observed on the property. The only pyritic rocks are coarser clastic units - sandstones and grits. The grits appear to be immature in that they are poorly sorted and contain angular clastics. Owing to the nature of the sedimentary succession and the paucity of outcrop, a marker bed was not recognized. The property map (Figure 3) shows the Eagle Bay phyllites, EBP, as one unit.

In the northeast corner of the property, older pale coloured quartz-sericite phyllites have been thrust over the dark grey clastics. The rocks are interpreted as being foliated acid volcanics and are correlated with similar rocks east of Birk Creek that host a number of small base metal occurrences.

Along the western margins of the property is an outcrop of green fine-grained mafic rock with several interbanded pale chert layers. These rocks belong to the lower Fennell Formation. The Eagle Bay clastics have been thrust westwards over the Fennell rocks.

7.3 Structure

Structure is complex. There have been at least two, and possibly three, phases of folding, with an additional late faulting episode. One of the folding phases occured at the time of westerly thrusting.

 F_1 is now represented by rare, small isoclinal folds. The F_2 folding phase, probably concomitant with thrusting, produced a series of medium to large scale overturned recumbent folds. The dominant cleavage (S_2) was formed at this time. The last phase of folding, F_3 , resulted in large open folds that folded the F_2 cleavage.

Two thrusts have been mapped on the property. That on the west side appears to be a relatively high angle thrust which has faulted Eagle Bay phyllites up over Fennell Formation rocks. The thrust fault in the northeast corner has brought older felsic volcanics within the Eagle Bay over the dark grey phyllites.

Major regional NE trending faults have cut the stratigraphy and structure. Although there appears to have been some dextral strike-slip movement, the faults are interpreted as being largely normal in character, with the northwest side being downdropped.

Fractures and joints in the rocks mostly trend NE and are steeply dipping. Some are quartz filled, but rarely are the quartz veins more than 1cm wide. They commonly have a brown weathering limonitic or ankeritic selvage. Locally, the dark grey shales are bleached adjacent to the quartz veinlets.

GEOCHEMISTRY

8.1 Introduction

Sixty-one silt samples were collected from Sprague Creek which drains the southern part of the property, and from other small drainages. The samples were dried and sieved to -80 mesh then a 0.5gm fraction was digested in hot HNO3-HCL and analysed by I.C.P. for Mo, Cu, Pb, Zn, Ag, Mn, Fe, As, Sb, Ba, at Acme Analytical Services. Eight rock samples were collected from assorted outcrops. These were crushed and processed as for the silt samples.

Soil samples were collected on two lines crossing the property as shown in Figure 4. The lines were located to cross lithologic and structural trends and provide a limited test of mineral potential. Samples were taken at 25 metre intervals from the B horizon (light brown to dark red brown soil) at depths averaging 25cm. Composites of 6 consecutive samples were produced by Bondar-Clegg Ltd. and a hot HNO₃-HCL extract was analysed for Cu, Pb, Zn, Fe, Ag and As by D.C. Plasma.

8.2 Results

Scattered sequences of slightly elevated Cu, Zn and As occur on the soil lines. The only area that may deserve some subsequent attention is at the western margin of AARON 3 where the silt and a number of soils recorded elevated Cu, Zn, As and Ba. This coincides with the fault contact between Eagle Bay phyllites on the east and lower Fennell basalts and cherts on the west. However, the probable bedrock source for this geochemistry lies uphill to the west off the claims.

9.0 DISCUSSION AND CONCLUSIONS

The geologic targets once considered worth pursuing on the AARON claims have provided little indication of mineralization in this brief examination.

The "Rea Contact" was confirmed to persist to within 500 metres of the southern boundary of the AARON claims but a major fault south of the property has dropped this prospective horizon a considerable (?500 metres) distance, well below a feasible depth for exploration. A thrust slice of felsic volcanics with potential for massive sulphide mineralization occurs beyond the north-east corner of the property where staking was over earlier, valid claims.

The dark grey phyllites and clastics of the Eagle Bay Formation that underlie the majority of the property did not produce any encouraging signs nor did the (minimal) geochemical coverage produce any significant indications of mineralization. The only geochemical encouragement was at the western edge of the AARON 3 claim where some mineralization in the lower Fennell Formation may be indicated.

No further work can be recommended.

challene

REFERENCES

Dickie, G.J., 1984a;

Exploration for Ag-Pb-Zn sulphide deposits in a multiply-deformed terrain in southern British Columbia,

Paper presented to Geological Society of Australia, February, 1984

Dickie, G.J., 1984b;

Proposal for a two stage exploration program on the AARON claims,

Unpublished MineQuest Report #66

Preto, V.A., 1981;

Barriere Lakes-Adams Plateau Area in Geological Fieldwork 1980,

Paper 1981-1 Geological Division, Mineral Resources Branch, Ministry of Energy, Mines and Petroleum Resources, Victoria, B.C.

Schiarizza, Paul and Preto, V.A., 1984; Geology of the Adams Plateau - Clearwater Area

Preliminary Map No. 56, Ministry of Energy Mines and Petroleum Resources, Victoria, B.C.

Relevant Assessment Reports

A.R.	5039	Linecutting	and	grid,	ENARGITE
		property, Ka	am Ci	ceek M	ines

- A.R. 5363 Linecutting and grid, B&T and ENARGITE properties R.A. Rabbitt
- A.R. 6202 Geological Geochemical and Trenching Report on BET claims, by P.J. Wodjak, Cominco

APP ENDICES

- I. Results of Geochemical Sampling
 - I.1 Silts
 - I.2 Soils
 - I.3 Rocks
- II. Cost Statement
- III. Statement of Qualifications

APPENDIX I Results of Geochemical Sampling Silts -MineQuest Exploration Associates Ltd. -

OCT 22 1984

CME ANALYTICAL LABORATORIES LTD. 952 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011 DATE RECEIVED:

OCT 17 1984

DATE REPORT MAILED:

Oct 19/84

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.Nt and Ta. Au DETECTION LIMIT BY ICP IS 3 ppm.
- SAMPLE TYPE: P1-2 SILTS P3-RQCKS ____

ASSAYER: AMADEAN TOYE. CERTIFIED B.C. ASSAYER

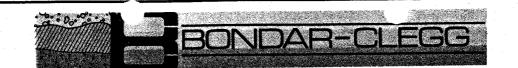
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	AAR-0006 AAR-0007 AAR-0008 AAR-0009 AAR-0010	1 1 1 3 3	44 34 50 41 72	20 15 14 19 16	78 89 75 107 125	.7	501 843 405 3008 674	3.04 3.13 3.26 4.58 3.32	17 25 17 37 23	2224	118 99 483 420 611	
	AAR-0011 AAR-0012 AAR-0013 AAR-0014 AAR-0015	1 2 1 2 2	400595 5595	18 19 16 17 15	79 81 75 77 75	2 (m²) 4 (m²) 5 (m²) 6 (m²) 7 (m²) 7 (m²) 8	497 531 487 540 486	3.17 3.21 3.08 3.07 3.17	19 20 18 20	NNNN	193 191 180 202 169	
	AAR-0015 AAR-0017 AAR-0018 AAR-0019 AAR-0020	1 1 1 2 2	35 41 42 38 28	17 15 16 16	74 79 87 78 63		466 522 569 526 582	3.10 3.32 3.59 3.27 2.53	22 23 25 20 19	anan	152 175 172 176 149	
	AAR-0021 AAR-0022 AAR-0023 AAR-0024 AAR-0025	2 2 1 2 1	42 43 38 38 34	22 22 16 18 21	97 92 78 81 76	.1	597 615 485 570 517	3.94 3.77 3.16 3.22 3.17	26 26 19 20 19		178 186 197 212 186	
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AAR-0043 AAR-0044 AAR-0045 AAR-0046 AAR-0047	1 2 2 2 2	35 49 47 46 47	14 22 22 21 21	63 76 87 90 97	. 4	452 559 617 623 613	2.77 2.87 3.49 3.54 3.55	18 17 19 22 19	00000	173 217 274 295 291	
AAR-0048 AAR-0049 AAR-0050 AAR-0051 AAR-0052	2 1 2 1 2	46 50 48 50 51	20 24 21 22 23	89 94 92 93 94	.2	600 681 660 641 676	3.57 3.48 3.41 3.45 3.87	21 22 24 22 22 22	2 2 2 2	296 315 312 298 313	
AAR-0053 AAR-0054 AAR-0055 AAR-0056 AAR-0057	2 2 2 1 2	52 49 60 52 55	22 25 27 24 25	96 92 102 96	.1	711 644 802 718 689	3.85 3.75 3.92 3.74 3.90	23 20 24 20 22		344 323 408 348 367	
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APPENDIX I Results of Geochemical Sampling Soils -MineQuest Exploration Associates Ltd.-

Bondar-Clegg & Company Ltd.

130 Pemberton Ave. North Vancouver, B.C. Canada V7P 2R5 Phone: (604) 985-0681 Telex: 04-352667



Geochemical Lab Report

REPORT	: 124-358	8							
FROM: DATE:	MINEQUEST 31-OCT-	EXPLORATION ASSO 84 PROJECT: AAR	CTATES LTD.	SUBMITTED BY:	A. DAVIDSON	IDSON .			
ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATIONS		
01 1 02	Cu Pb	1 PPM 5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma D.C. Plasma D.C. Plasma		SOILS	DRY, SEIVE -80 CDMPDSITE CHARGE PULVERIZING		
04 04 05 06	<u>Zn</u> Fe Aa As	1 PPM .01 PCT .5 PPM 5 PPM	HNO3-HCL HOT EXTR HNO3-HCL HOT EXTR HNO3-HCL HOT EXTR HNO3-HCL HOT EXTR	D.C. Plasma D.C. Plasma D.C. Plasma D.C. Plasma					
REPORT	r copies	TO: MINEQUEST EXP	LORATIONS	INVOICE TO: M	. G. DIEKIE				
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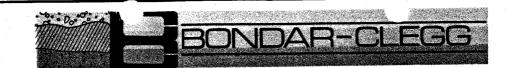


Geochemica Lab Repor

REPORT: 124	3588			PROJECT: AAR PAGE 1				
SAMPLE NUMBER	ELEMENT UNITS	Cu PPA	Pb PPN	Zn PPM	Fe PCI	Aq PPN	As PPM	NOTES
S AAC-QQ1		25 25	20	110	2.80	1.0	10 15	
S AAC-002 S AAC-003		25 45	20 25	150 170	2.50 3.00	<0.5 1.0	10	
S AAC-004		95	30	160	3.30	1.0	25	
5 AAC-005		70	25	130	2.50	1.0	20	
S AAC-006		35 20	20 25	120 110	2.40 2.50	(0.5 (0.5	15 10	
S AAC-007 S AAC-008		40 65	25 25	120	2.90	1.0	15	
S AAC-009		75	25	110	3.20	1.0	15	
S AAC-010		45	25	100	2.70	(0.5	20	
S AAC-011		25 15	20 25	85 95	2.30 2.40	⟨0.5 ⟨0.5	5 10	
S AAC-012 S AAC-013		25 35	25 25	95 95	2.90	<0.5	15	
S AAC-014		35	20	85	2.60	<0.5	15	
S AAC-015		35	25	100	2.90	(0.5	10	
S AAC-016		30 70	30 70	100	2.80	(0.5	20 25	
S AAC-017 S AAC-018		30 20	30 - 25	120 130	2.70 2.50	1.0 1.0	25 15	
S AAC-019		20	20	120	2.30	<0.5	10	
S AAC-020	-	15	20	110	2.10	(0.5	5	
S AAC-021		20	20 ne	110	2.10	(0.5 (0.5	20 20	
S AAC-022		25 20	25 20	140 140	2.40 2.00	(0.5 (0.5	20 15	
S AAC-023 S AAC-024		25	20	170	2.20	(0.5	10	
S AAC-025		25	20	150	2.20	(0.5	20	*
S AAC-026		20 nc	20	140	2.00 2.00	<0.5 <0.5	5 (5	
S AAC-027 S AAC-028		25 25	20 20	160 140	2.00 2.20	<0.5 <0.5	10	
S AAC-029		25	20	110	2.10	⟨0.5	10	
S AAC-030		25	20	90	2.00	⟨0.5	⟨5	
S AAC-031	-	20	20 20	95 05	2.00	(0.5 /0.5	10	
S AAC-032		25 25	20 20	95 85	2.20 2.10	(0.5 (0.5	(5 5	
S AAC-033 S AAC-034		20	20	95	1.90	<0.5	₹5	
S AAC-035		20	15	95	1.70	(0.5	⟨5	
S AAC-036		20	20	85	1.70	(0.5	ζ <u>ξ</u> -/-	
S AAC-037		20	20	120	2.00 2.00	(0.5 (0.5	(5 (5	
S AAC-038 S AAC-039		20 20	25 20	160 190	1.90	(0.5	5	
S AAC-040		2v 25	30	250	2.00	(0.5	(5	

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REPORT: 124-	3588							PROJECT: AAR	PAGE 2
SAMPLE NUMBER	ELEMENT UNITS	Cu PPN	Pb PPA	Zn PPN	Fe PCT	Ag PPM	As PPM		NOTE
S AAC-041		30	30	160	1.90	(0.5	Į.		
S AAC-042		25 25	30 25	170 160	1.90 1.80	(0.5 (0.5	5 5		
S AAC-043 S AAC-044		50	35	150	2.80	(0.5	10		
S AAC-045		65	40	170	3.30	(0.5	15		
S AAC-046		40	30	170	2.60	(0.5	5		
3 AAC-047		20	20 20	120	1.80	(0.5 (0.5	5 10		
S AAC-048 S AAC-049		15 25	20 20	100 100	2.00	(0.5	5		
S AAC-050		40	30	120	2.50	⟨0.5	10		8.
S AAC-051		25	25	140	1.90	<0.5	5		
S AAC-052		15	15	150	1.40	(0.5	10		
S AAC-053		15	15	150 160	1.50 1.80	<0.5 <0.5	<5 5		
S AAC-054 S AAC-055		25 35	20 25	150 150	2.20	(0.5	10		
S AAC-056		40	30	140	2.50	⟨0.5	15		
S AAC-057		40	30	140	2.50	<0.5	10		
S AAC-058		40	45 75	130	2.40	(0.5	5 5		
S AAC-059 S AAC-060		45 45	45 30	130 130	2.50 2.60	(0.5 (0.5	10		
				130	2.60	(0.5	10		
S AAC-061 S AAC-062		45 35	25 25	120	2.30	(0.5	5		
S AAC-063		30	25	130	2.10	(0.5	10		
S AAC-064		35	25	110	2.20	(0.5	(5		
S AAC-065		30	20	100	2.10	(0.5	10		
S AAC-122		30 74	20 20	110	2.10 2.10	<0.5 <0.5	(5 5		
S AAC-066 S AAC-067		30 20	20 15	110 110	1.60	(0.5	(5		
S AAC-068		35	25	120	2.10	(0.5	10		
S AAC-069		35	20	130	2.30	(0.5	10		
S AAC-070		30	20 20	120	2.10	(0.5	5		
S AAC-071 S AAC-072		30 30	20 20	95 110	2.10 2.30	<0.5 <0.5	5 10		
5 AAC-073		3v 25	20	120	2.10	(0.5	(5		
S AAC-074		20	20	80	1.80	⟨0.5	15		
S AAC-075		25	25	100	1.80	(0.5	15		
S AAC-076		35 70	25 70	120	2.10 2.20	(0.5 (0.5	15 10		
S AAC-077 S AAC-078		30 25	30 25	95 90	2.20	(0.5	20		
S AAC-079		20	25	110	1.80	(0.5	15		

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EPORT: 124-	3588				Control Control			PROJECT: AAR	PAGE 3
SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPN	Zn PPN	 Fe PCT	Aq PPM	As PP#		NOTES
S AAC-080		20	25	95	1.80	⟨0.5	15		
S AAC-081		25	25	85	2.10	<0.5	15		
S AAC-082		35	35	90	2.70	<0.5	15		
S AAC-083		45	35	95	2.50	<0.5 <0.5	15 15		
S AAC-084		25	25	90	2.40	/4.4	14		
S AAC-085		30	30	100	2.30	(0.5	15		
S AAC-086		30	30	95	2.30	(0.5	15		
S AAC-087		25	25 25	95	2.20	(0.5	15 15		
S AAC-088		20	25	100	2.10 1.90	<0.5 <0.5	10		
S AAC-089	Marie Con	20	25	100	1.70				
S AAC-090		15	20	100	1.50	(0.5	10	and the same	新疆 ,维拉
S AAC-091		15	20	90	1.50	(0.5	10		
S AAC-092		15	20	90	1.60 1.50	(0.5 (0.5	10 5		
S AAC-093		15	20 20	85 75	1.70	(0.5	10		
S AAC-094		15	49	()	1://				
S AAC-095		20	20	75	1.80	(0.5	10		
S AAC-096		20	25	80	1.80	<0.5	(5 /*		
S AAC-097		25	25	80	1.80	(0.5	<5 20		
S AAC-098		30	30	90	2.30	(0.5 (0.5	2v 15		
S AAC-099		35	30	80	2.30	\V.d	10		
S AAC-100		35	35	90	2.40	(0.5	25 05		
S AAC-101		35	30	85	2.30	(0.5	25 15		
S AAC-102		35	30	75 80	2.30 2.60	<0.5 <0.5	25		
S AAC-103		35 30	30 30	75	2.10	(0.5	20		
S AAC-104		JV	30	/ 4					
S AAC-105		35	30	130	2.20	(0.5 (0.5	25 10		
S AAC-106		15	20	60 70	1.80	(0.5	5		
S AAC-107		10	15 15	80	1.20	(0.5	5		
S AAC-108 S AAC-109		10 10	15	90	1.30	⟨0.5	10		
					- 7.76	78 E	(ē		
S AAC-110		10	20	80	1.40 1.40	₹0.5 ₹0.5	15 5		368 -752
S AAC-111		15	20 15	80 100	1.40	(0.5	5		100
S AAC-112		15 15	20	90	1.50	(0.5	(5		
S AAC-113 S AAC-114		15	20	80	1.60	⟨0.5	10		
J NAC 117									
S AAC-115		15	20	90	1.80	(0.5	10		
S AAC-116		15	20	100	1.90 1.90	(0.5 (0.5	10 10		
5 AAC-117		15 20	20 20	120 100	1.70		10		
S AAC-118 - S AAC-119		2V 55	30 30	75	2.30		10		

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REPORT: 124-	REPORT: 124-3588						PROJECT: AAR	PAGE 4		
SAMPLE NUMBER	ELEMENT UNITS	Cu PPA	Ph PPM	Zn PPM	Fe PCT	Ag PPN	As PPN		TON.	ES
S AAC-120 S AAC-121		50 15	30 20	70 60	2.40 [.80	0.5 <0.5	5 5			
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APPENDIX I Results of Geochemical Sampling Rocks -MineQuest Exploration Associates Ltd -

	MINEQUEST EXP	LORATION	PROJEC	T # AAR	FILE	# 84-	-3048	PAGE	•
SAMPLE#	Mo Cu	ppm ppm	-	ppm Mn	Fe %	₽₽m	ppm	Ba ppm	
AAR-1001 AAR-1003 AAR-1004 AAR-1005 AAR-1006	1 12 3 16 1 33 2 53 1 21	14 48 88 110 7 32 22 127 10 58	.5	1200 1 400 1 387 3	1.76 2.79 1.82 5.54 2.66	16 5 3 24 15	NONN	82 117 15 41 37	
AAR-1007 AAR-1008 STD C	1 13 1 2 18 57	12 17 28 3 38 120	. 4	12	2.92 .21 3.82	17 2 38] 15	57 76 184	

APPENDIX II Cost Statement -MineQuest Exploration Associates Ltd. -

COST STATEMENT

AARON 1-3 CLAIMS

TO NOVEMBER 30, 1984

Professional Fees:

A Marie Const.

G.J. Dickie	2.7 days at \$485	\$ 1,310.00

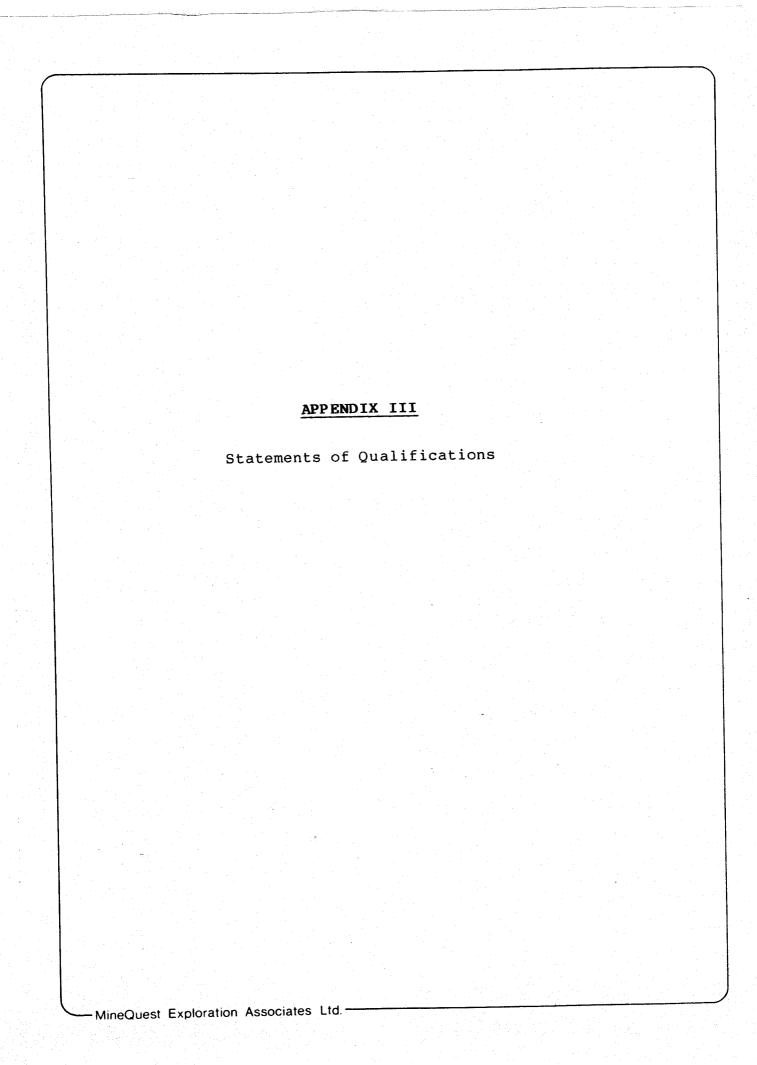
Temporary Staff:

G.D. Hodgson	5	days a	аt	\$385	1,925.00	
M. Holmes		days a			1,573.00	
S. Syroishko					1,296.00	
A. Davidson	0.6	days a	at	\$120	72.00	4,866.00

Disbursements:

Airfares Truck Rental 9 days at \$35/per	281.00 day 315.00 135.00	
Freight Assemmedation	1,061.00	
Food and Accommodation Supplies and Fuel	450.00	
Field Equipment Rental	140.00	
Geochemical Analyses	1,805.00	
Communications	80.00	
Drafting, Reprographics	1,000.00	
Report Preparation Services	100.00	
Keboic Licharacion 2017	5,367.00	
Disbursements Over-Ride	482.00	5,849.00

TOTAL \$12,025.00



STATEMENT OF QUALIFICATIONS

I Geoffrey J. Dickie, of MineQuest Exploration Associates Ltd. of 311 Water Street, Vancouver, B.C. certify that:

- I graduated with a B.Sc. degree in geology from the University of Queensland, Australia in 1965 and with a Ph.D. in geology from the University of Alberta, Edmonton in 1972.
- I am a Fellow of the Geological Association of Canada.
- 3. I have practised geology for the past 17 years.

4. I supervised the field work and was responsible for the preparation of this report.

Signed

Dated at Vancouver, B.C. this 1st day of December, 1984

STATEMENT OF QUALIFICATIONS

- I, Geoffrey David Hodgson, certify that:
- I am a geologist with MineQuest Exploration Associates Ltd., of 311 Water Street, Vancouver, B.C., now resident in Kalgoorlie, Western Australia.
- I graduated with B.Sc. degree in geology from Exeter University, U.K., in 1972, and an M.Sc. degree in geology from the University of Alberta, Edmonton, in 1976.
- I have practised geology in Canada and Australia for the past 12 years.
- I am a Member of the Australasian Institute of Mining and Metallurgy, and the Geological Society of Australia. am a past Member of the Canadian Institute of Mining and Metallurgy and the Geological Association of Canada.
- The opinions expressed in this report are based on my observations made whilst mapping the AARON claims of Mammoth Resources Limited.
- I have no interest, direct or indirect, nor do I expect to receive any, in the claims or securities of Mammoth Resources Limited.

Signed G.D. Hodgson

Dated at Vancouver, B.C. this 15th day of October, 1984

