ACRE ADALITICAL LAB	URATORIES LID. 852 B. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(601)253-3158 FAX() dited Co.)	04) 253-1716
44	ASSAI CERTIFICATE B.C. Ministry of Energy & Mines (Van) File # A204115	A A
SAMPLE#	No Cu Pb Zn Ag ^{ir} Ni Co Mn Fe As Sr Cd Sb Bi Ca P Cr Mg Al Na K W Hg	Au** gm/mt
SI TS-02-FOR-01 TS-02-FOR-02 TS-02-FOR-03 TS-02-FOR-04	<pre><</pre>	<.01 .06 .15 .004 .03 .47 .014
TS-02-FOR-05 TS-02-FOR-06 TS-02-FOR-07 STANDAR0_R-1/AU-	2.001 .188 13.59 5.39 ¹³ 61.9 .001 .001 .26 3.41 .01 .051 .032 .005 <.01 11.84 .023 .002 .87 1.31 .01 .17<.001 .001 .001 .179 3.82 11.07 ²³ 80.4<.001 .003 .06 9.86 .09 .004 .062 .003 .01 1.32 .043 .001 .45 .93 .01 .21<.001 .001 .001 .310 27.93 12.05 ¹¹ 49.2 .001 .001 .12 3.31 .01 .018 .073 .010 <.01 4.59 .015<.001 .61 .86 .01 .11<.001 .002 .1 .091 .842 1.30 2.36 101.6 .026 .026 .08 6.59 .93 .029 .047 .160 .03 1.36 .109 .025 .98 .85 .16 .41 .003 .001	.18.004 .70.02 .52.015 3.44
	5=0 GROUP 7AR - 1.000 GM SANPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES. AG** & AU** BY FIRE ASSAY FROM 1 A.L. SAMPLE.	
	- SAMPLE TYPE: ROCK R150	
DATE RECEIVED: SEP	27 2002 DATE REPORT MAILED: (UK 11/02 SIGNED BY	D B.C. ASSAYERS
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VBS -> FOREMULE Tom Schwetz Nov. '02

Galena Lead Isotope Analysis from Foremore.

Janet E. Gabites, Geochronology Laboratory, U.B.C. November 2002

A sample from the the Foremore deposit was analysed for lead isotopic composition. The data have been plotted on a ²⁰⁷Pb/²⁰⁴Pb v. ²⁰⁶Pb/²⁰⁴Pb diagram in Figure 1. Alldrick et al., (1987) defined clusters of lead isotope data in the Stewart mining camp that represent Jurassic and Tertiary mineralization. These clusters have been added to Figure 1 for reference.

The Foremore sample does not fall into either of the Stewart clusters, but is less radiogenic than the Jurassic cluster. This indicates that the mineralization is likely to be older than Jurassic.

Analytical Techniques

A hand-picked galena crystal was washed, then dissolved in 2N hydrochloric acid. Approximately 10-25ng of the lead in chloride form was loaded on a rhenium filament and isotopic compositions were determined using a modified VG54R thermal ionization mass spectrometer. The measured ratios were corrected for instrumental mass fractionation of 0.15% per mass unit (Faraday collector) based on repeated measurements of the N.B.S. SRM 981 Standard Isotopic Reference Material. Errors reported in Table 1 were obtained by propagating all mass fractionation and analytical errors through the calculation..

Figure Captions

Figure 1a: ²⁰⁷Pb/²⁰⁴Pb v. ²⁰⁶Pb/²⁰⁴Pb diagram of analysis from Foremore. For reference, clusters defined by Alldrick et al., (1987) have been added.

References

- Alldrick, D.J., Gabites, J.E., and Godwin, C.I., 1987. Lead isotope data from the Stewart Mining Camp (104B/1). B.C. Geological Survey Branch Geological Fieldwork 1986, 93-102.
- Godwin, C.J., Gabites, J.E., and Andrew, A. 1988. LEADTABLE: A galena lead isotope database for the Canadian Cordillera. *B.C. Geological Survey Branch* Paper 1988-4. 188p.
- Godwin, C.J. and Sinclair, A.J., 1982. Average lead isotope growth curves for shalehosted zinc-lead deposits, Canadian Cordillera. *Economic Geology*, Volume 7, pp. 675-690.

		Lead 19000	pe Anal	ysis of Sam	ole from	Foremore			
206Рь/] 204Рь ⁽	Pb64 % err	207РЬ/ 204РЬ	РЬ74 % erт	208Pb/ 204Pb	Pb84 % err	207Рь/ 206Рь	РЬ76 % егт	208РЬ/ 206РЬ	Pb86 % err
18.4142	0.04	415.587	5 0.0	6 38.087	9 0.09	0.8465	0.022	2.0684	0.043

Notes: Analysis by Janet E. Gabites, Geochronology Laboratory, Department of Earth, Ocean, and Atmospheric Sciences, University of British Columbia, Vancouver, B.C.

All ratios corrected for isotopic fractionation (0.15% for Faraday collector), based on repeated analyses of NBS981 lead standard.

Mineral analysed is galena

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	TS-02-FOR-02	4.001	.415	6.99	18.47	119.4<	.001<	.001	.27	3.51	.01	.021	.100	.006	.01	7.41	.026<	.001	.42	.71	.02	.10<	.001	.004	.15		
	TS-02-FOR-03	4.001<	.001	2.71	.02	5.9<	.001<	.001	.67	.72	<.01	.042	.001	.001	<.01	18.52	.056	.001	.10	.24	.01	.25<	.001	<.001	.03		
	TS-02-FOR-04	4.001	.188	32.21	10.56	130.3	.001	.001	.16	4.12	.01	.022	.066	.012	<.01	5.43	.016<	.001	.91	1.00	.01	.07<	.001	.001	.47		
	TS-02-FOR-05	001	100	17 50	E 70	61 O	001	001	26	7 / 1	01	051	072	005	- 01	11 9/	027	002	87	1 21	01	17	001	001	19		
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	STANDARD R-1/AU-1	.091	.842	1.30	2.36	101.6	.026	.026	.08	6.59	.93	.029	.047	.160	.03	1.36	.109	.025	.98	.85	.16	.41	.003	.001	3.44		

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES. AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.

DATE RECEIVED:

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SANPLE#	No Cu P % %	b Zn Ag** % % gm/mt	• Ni (Co Mn X X	n Fe 6 %	As S %	ir Cd X X	Sb X	Bi Ca % 2	ар К. %	Cr %	Mg Al % %	Na %	K %	W Hg % %	Au** gm/mt	
SI <.0 TS-02-FOR-01 .0 TS-02-FOR-02 <.0 TS-02-FOR-03 <.0 TS-02-FOR-03 <.0	001<.001 <.0 001 .127 .0 001 .415 6.9 001<.001 2.7 001 .188 32.2	1 <.01, 1 <.3 3 .06 23.9 9 18.473,19.4 1 .02 5.9 1 10.56 130.3	3<.001<.00 9 .003 .00 4<.001<.00 9<.001<.00 3 .001 .00	01 <.01 04 .19 01 .27 01 .67 01 .16	 <.01 23.62 3.51 7.72 6.4.12 	<.01<.00 .01 .02 .01 .02 <.01 .02 <.01 .04 .01 .02	24<.001 24<.001 21 .100 52 .001 22 .066	.001 < .001 < .006 .001 < .012 <	.01 .1 .01 9.50 .01 7.4 .01 18.55 .01 5.4	5<.001 0.079 1.026< 2.056 3.016<	.002 <. .001 1. .001 . .001 .	01 .02 78 2.75 42 .71 10 .24 91 1.00	.65 .01 .02 .01 .01	.01<.0 <.01<.0 .10<.0 .25<.0 .07<.0	01<.001 01<.001 01 .004 01<.001 01<.001	<.01 .06 .15 , .03 #	014 014
TS-02-FOR-05 TS-02-FOR-06 TS-02-FOR-07 STANDARO R-1/AU-1	001 .188 13.5 001 .179 3.6 001 .310 27.5 091 .842 1.3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9 .001 .0 4<.001 .0 2 .001 .0 6 .026 .0	01 .26 03 .06 01 .12 026 .08	6 3.41 6 9.86 2 3.31 8 6.59	.01 .05 .09 .00 .01 .01 .93 .02	51 .032 04 .062 18 .073 29 .047	.005 < .003 .010 < .160	.01 11.8 .01 1.3 .01 4.5 .03 1.3	4 .023 2 .043 9 .015< 6 .109	.002 .001 .001 .025	87 1.31 45 .93 61 .86 98 .85	.01 .01 .01 .16	.17<.0 .21<.0 .11<.0 .41 .0	01 .001 01 .001 01 .002 03 .001	, 18 ,0 .70 ,0 .52 , 3.44	004 02 015
	GROUP 7AR Ag** & AU* ~ SAMPLE 7	- 1.000 GM SA BY FIRE AS TYPE: ROCK R1	AMPLE, AQ SAY FROM 50	IUA - RE 1 A.T.	EGIA (HC SAMPLE.	L - HNO3 - H	120) DIC	GESTION	to 100	NL, ANA	LYSED 8	ICP-E	s.				
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	SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag** gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Au** gm/mt	
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• • • • •	TS-02-FOR-05 TS-02-FOR-06 TS-02-FOR-07 STANDARD R-1/AU-1	<.001 <.001 <.001 .091	.188 .179 .310 .842	13.59 3.82 27.93 1.30	5.39 11.07 12.05 2.36	61.9 80.4< 149.2 101.6	.001 . .001 . .001 . .026 .	001 003 001 026	.26 .06 .12 .08	3.41 9.86 3.31 6.59	.01 .09 .01 .93	.051 .004 .018 .029	.032 .062 .073 .047	.005 .003 .010 .160	<.01 .01 <.01 .03	11.84 1.32 4.59 1.36	.023 .043 .015< .109	.002 .001 .001 .025	.87 .45 .61 .98	1.31 .93 .86 .85	.01 .01 .01 .16	.17< .21< .11< .41	001 001 001 003	.001 .001 .002 .001	.18 .70 .52 3.44	

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES. AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. - SAMPLE TYPE: ROCK R150

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

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	B.C. MINISTRY OF ENERGY & MINES (VA Geological Survey Branch 300 - 865 Hornby St. Vancouver, BC V6Z 2G3	N)	Inv.#: A Date: O	204115 ct 15 2002
QTY	ASSAY		PRICE	AMOUNT
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