

824338

Oct. 26th 1987

Report for: Ian Pirie / Alex Davidson  
Minnova Inc.

Dear Ian,

Enclosed please find the provisional data sheets for the 7 analyses of galena from Samatosum deposit. I have also enclosed rough plots of the data plotted on the conventional  $^{207}\text{Pb}/^{204}\text{Pb}$  versus  $^{206}\text{Pb}/^{204}\text{Pb}$  and  $^{208}\text{Pb}/^{204}\text{Pb}$  versus  $^{206}\text{Pb}/^{204}\text{Pb}$  diagrams.

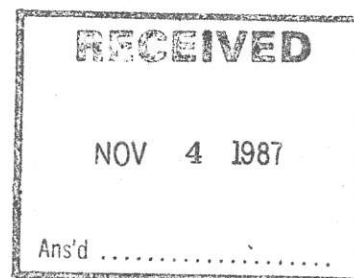
The seven analyses plot with the 'cluster one' of Francois Goutier; the same as Rea Gold, within analytical error. This indicates a similar origin for the Samatosum deposit, and a Devonian age.

There is considerable scatter within the data, mostly attributable to fractionation error. This is due to the fact that we are currently using a new batch of silica gel, which seems to be giving somewhat more variable fractionation patterns than before. Fortunately, however, the three best runs (sample 3, 5 and 6) were from the three different mineralization types. These analyses indicate that there is no observable difference between the massive sulphide and vein-like occurrences of the ore. They are not statistically distinct.

The lead isotope plots show clusters one, two and three defined by Francois Goutier in her thesis; the fractionation and  $^{204}\text{Pb}$  error directions are also shown. The analyses were of variable quality, but generally better than  $\pm 0.1\%$ . This analytical error is also indicated on the diagrams.

I hope you find these analyses useful.

Anne Andrew



## SUMMARY TABLE

SAMPLE NO.	ORE TYPE	$^{206}\text{Pb}/^{204}\text{Pb}$	$^{207}\text{Pb}/^{204}\text{Pb}$	$^{208}\text{Pb}/^{204}\text{Pb}$
30977-001	Massive sulphide	18.933 (.16)	15.707 (.08)	38.928 (.21)
30977-002	Massive sulphide	18.965 (.08)	15.700 (.03)	38.826 (.08)
30977-003	Massive sulphide	18.897 (.04)	15.682 (.04)	38.733 (.04)
30977-004	silica flooding	18.862 (.12)	15.655 (.12)	38.649 (.12)
30977-005	silica flooding	18.884 (.02)	15.692 (.02)	38.756 (.02)
30977-006	Late qtz veining	18.888 (.01)	15.669 (.01)	38.696 (.01)
30977-007	Late qtz veining	18.922 (.02)	15.712 (.02)	38.812 (.03)

LABORATORY ENTRY ONLY

Form Revised: 07/21/87 CIG

DATA ON THIS FORM HAS BEEN ENTERED  
IN DBASE FOR BELT: I[ ],C[ ],N[ ],  
O[ ],S[ ],F[ ],OTHER[ ]

LABORATORY NUMBER (1 sampleno): 30977-001  
MAP SYMBOL (8 mapsymbol): --- HOST CODE (11 hostcode): ---  
TYPE CODE (13 typcode): --- TECTONIC CODE (15 tectcode): ---

COLLECTOR ENTRY

DEPOSIT NAME (2 depname): SAMATOSUM  
SUBMITTOR, SAMPLE NAME & NUMBER (3 samsource): MANOVA IX IAN PIRIE  
Rt-93 130-2m  
SAMPLE ACQUIRED (4 acqdate): m 07/d 06/y 87  
NTS & GOVT NO (5 nts:bcml): ---  
LATITUDE DECIMAL DEGREES NORTH (6 latnorth): (+) DEG. N  
LONG. DECIMAL DEGREES WEST (7 longwest): (+) DEG. W  
HOST FORMATION LITHOLOGY (9 hostlith): ---  
HOST AGE (10 hostage): ---  
TYPE OF DEPOSIT: SYNGENETIC MASSIVE SULPHIDE  
TECTONIC ELEMENT (14 tectelem): ADAMS PLATEAU  
COMMENTS, GEOLOGIC DETAILS, REFERENCES, ETC. (32 comments):  
Adams plateau project - Andrew  
3 types - not identified within deposit - different isotopic?  
(see Grouse MSc 1986)

LABORATORY ENTRY

RUN NO (20 runno): 1 OR ---  
ANALYST (16 analyst): ADAM ADRIAN ANALYSTS CODE (17 analystcode): ---  
MATERIAL ANALYSED (18 materanal): g +  
RUNDATE:NORM DATE (19 rundate): m 09/d 07/y 87:m ---/d ---/y 8 ---  
RUN QUALITY:TEMPERATURE:BLOCKS (21 runqual): 1  
PB206/204 NORMALIZED (22 pb206:4): 18.933  
PRECISION (23 pb206:4pcerr): 0.030 ABSOLUTE 0.016 %  
PB207/204 NORMALIZED (24 pb207:4): 15.707  
PRECISION (25 pb207:4pcerr): 0.013 ABSOLUTE 0.08 %  
PB208/204 NORMALIZED (26 pb208:4): 38.928  
PRECISION (27 ob208:4pcerr): 0.080 ABSOLUTE 0.01 %  
PB207/206 NORMALIZED (28 pb207:6): 2.82931  
PRECISION (29 pb206:7pcerr): 0.00112 ABSOLUTE 0.03 %  
PB208/206 NORMALIZED (30 pb208:6): 2.0554  
PRECISION (31 pb208:6pcerr): 0.0027 ABSOLUTE 0.03 %  
COMMENT (32 comments): Filament beads poor quality - see notes

RUN NO (20 runno): 2 OR ---  
ANALYST (16 analyst): --- ANALYSTS CODE (17 analystcode): ---  
MATERIAL ANALYSED (18 materanal): ---  
RUNDATE:NORM DATE (19 rundate): m ---/d ---/y 8 ---:m ---/d ---/y 8 ---  
RUN QUALITY:TEMPERATURE:BLOCKS (21 runqual): ---:---  
PB206/204 NORMALIZED (22 pb206:4): ---  
PRECISION (23 pb206:4pcerr): 0.0 ABSOLUTE 0.0 %  
PB207/204 NORMALIZED (24 pb207:4): ---  
PRECISION (25 pb207:4pcerr): 0.0 ABSOLUTE 0.0 %  
PB208/204 NORMALIZED (26 pb208:4): ---  
PRECISION (27 ob208:4pcerr): 0.0 ABSOLUTE 0.0 %  
PB207/206 NORMALIZED (28 pb207:6): ---  
PRECISION (29 pb206:7pcerr): 0.00 ABSOLUTE 0.0 %  
PB208/206 NORMALIZED (30 pb208:6): ---  
PRECISION (31 pb208:6pcerr): 0.00 ABSOLUTE 0.0 %  
COMMENT (32 comments): ---

LABORATORY ENTRY ONLY  
 Form Revised: 07/21/87 CIG

DATA ON THIS FORM HAS BEEN ENTERED  
 IN DBASE FOR BELT: I( ), C( ), N( ),  
 O( ), S( ), F( ), OTHER( )

LABORATORY NUMBER (1 sampleno): 30977-002  
 MAP SYMBOL (8 mapsymbol): \_\_\_\_\_ HOST CODE (11 hostcode): \_\_\_\_\_  
 TYPE CODE (13 typcode): \_\_\_\_\_ TECTONIC CODE (15 tectcode): \_\_\_\_\_

COLLECTOR ENTRY

DEPOSIT NAME (2 depname): SAMATOSUM  
 SUBMITTOR, SAMPLE NAME & NUMBER (3 samsource): MINNOVA INC IAN PIRIE  
RC-US 156.0m  
 SAMPLE ACQUIRED (4 acqdate): m 07/d 06/y 87  
 NTS & GOVT NO (5 nts:bcml): \_\_\_\_\_  
 LATITUDE DECIMAL DEGREES NORTH (6 latnorth): (+) \_\_\_\_\_ DEG. N  
 LONG. DECIMAL DEGREES WEST (7 longwest): (+) \_\_\_\_\_ DEG. W  
 HOST FORMATION LITHOLOGY (9 hostlith): \_\_\_\_\_  
 HOST AGE (10 hostage): \_\_\_\_\_  
 TYPE OF DEPOSIT: SYNGENETIC MASSIVE SULPHIDE  
 TECTONIC ELEMENT (14 tectelem): ADAMS PLATEAU  
 COMMENTS, GEOLOGIC DETAILS, REFERENCES, ETC. (32 comments):  
Adams Plateau Project - Andrew  
see location map  
3 types of min. to be compared

LABORATORY ENTRY

RUN NO (20 runno): 1 OR  
 ANALYST (16 analyst): A Andrew ANALYSTS CODE (17 analystcode): \_\_\_\_\_  
 MATERIAL ANALYSED (18 materanal): GA  
 RUNDATE: NORM DATE (19 rundate): m 09/d 07/y 87: m \_\_\_/d \_\_\_/y 8\_\_  
 RUN QUALITY: TEMPERATURE: BLOCKS (21 runqual): 1 2 2 2: 1 1 5 0: 0 5  
 PB206/204 NORMALIZED (22 pb206:4): 1.8.9.0.5  
 PRECISION (23 pb206:4pcerr): 0.0\_\_\_ ABSOLUTE 0.02 %  
 PB207/204 NORMALIZED (24 pb207:4): 1.5.7.0.2  
 PRECISION (25 pb207:4pcerr): 0.0\_\_\_ ABSOLUTE 0.03 %  
 PB208/204 NORMALIZED (26 pb208:4): 2.2.8.2.6  
 PRECISION (27 ob208:4pcerr): 0.03 ABSOLUTE 0.08 %  
 PB207/206 NORMALIZED (28 pb207:6): 0.8.2.7.8.3  
 PRECISION (29 pb206:7pcerr): 0.02 ABSOLUTE 0.08 %  
 PB208/206 NORMALIZED (30 pb208:6): 2.0.4.2.2  
 PRECISION (31 pb208:6pcerr): 0.02 ABSOLUTE 0.01 %  
 COMMENT (32 comments): upper member of Adams Plateau

RUN NO (20 runno): 2 OR  
 ANALYST (16 analyst): \_\_\_\_\_ ANALYSTS CODE (17 analystcode): \_\_\_\_\_  
 MATERIAL ANALYSED (18 materanal): \_\_\_\_\_  
 RUNDATE: NORM DATE (19 rundate): m \_\_\_/d \_\_\_/y 8\_\_ : m \_\_\_/d \_\_\_/y 8\_\_  
 RUN QUALITY: TEMPERATURE: BLOCKS (21 runqual): \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_  
 PB206/204 NORMALIZED (22 pb206:4): \_\_\_\_\_  
 PRECISION (23 pb206:4pcerr): 0.0\_\_\_ ABSOLUTE 0.0\_\_\_ %  
 PB207/204 NORMALIZED (24 pb207:4): \_\_\_\_\_  
 PRECISION (25 pb207:4pcerr): 0.0\_\_\_ ABSOLUTE 0.0\_\_\_ %  
 PB208/204 NORMALIZED (26 pb208:4): \_\_\_\_\_  
 PRECISION (27 ob208:4pcerr): 0.0\_\_\_ ABSOLUTE 0.0\_\_\_ %  
 PB207/206 NORMALIZED (28 pb207:6): \_\_\_\_\_  
 PRECISION (29 pb206:7pcerr): 0.0\_\_\_ ABSOLUTE 0.0\_\_\_ %  
 PB208/206 NORMALIZED (30 pb208:6): \_\_\_\_\_  
 PRECISION (31 pb208:6pcerr): 0.0\_\_\_ ABSOLUTE 0.0\_\_\_ %  
 COMMENT (32 comments): \_\_\_\_\_

LABORATORY ENTRY ONLY  
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DATA ON THIS FORM HAS BEEN ENTERED  
IN DBASE FOR BELT: I[ ], C[ ], N[ ]  
O[ ], S[ ], F[ ], OTHER[ ]

LABORATORY NUMBER (1 sampleno): 30977-003 .. ..  
MAP SYMBOL (8 mapsymbol): \_\_\_\_\_ HOST CODE (11 hostcode): \_\_\_\_\_  
TYPE CODE (13 typcode): \_\_\_\_\_ TECTONIC CODE (15 tectcode): \_\_\_\_\_

COLLECTOR ENTRY

DEPOSIT NAME (2 depname): SAMATOSUM  
SUBMITTOR, SAMPLE NAME & NUMBER (3 samsource): MINNOVA INC / AN.P1  
PG-118-136.8m  
SAMPLE ACQUIRED (4 acqdate): m 07/d 06/y 87  
NTS & GOVT NO (5 nts:bcml): \_\_\_\_\_  
LATITUDE DECIMAL DEGREES NORTH (6 latnorth): (+) \_\_\_\_\_ DEG. N  
LONG. DECIMAL DEGREES WEST (7 longwest): (+) \_\_\_\_\_ DEG. W  
HOST FORMATION LITHOLOGY (9 hostlith): \_\_\_\_\_  
HOST AGE (10 hostage): \_\_\_\_\_  
TYPE OF DEPOSIT: SYNGENEIC MASSIVE SULPHIDE  
TECTONIC ELEMENT (14 tectelem): ADAMS PLATINUM  
COMMENTS, GEOLOGIC DETAILS, REFERENCES, ETC. (32 comments):  
Adams Plateau Project - Andrew  
24. Gustafson, 1986  
3 types of mica within deposit to compare.

LABORATORY ENTRY

RUN NO (20 runno): 1 OR  
ANALYST (16 analyst): A - Andrea ANALYSTS CODE (17 anlystcode): \_\_\_\_\_  
MATERIAL ANALYSED (18 materanal): G A  
RUNDATE:NORM DATE (19 rundate): m 09/d 07/y 87:m \_\_\_\_\_/d \_\_\_\_\_/y 8  
RUN QUALITY:TEMPERATURE:BLOCKS (21 runqual): G O O D: 11 50: 14  
PB206/204 NORMALIZED (22 pb206:4): 18.877  
PRECISION (23 pb206:4pcerr): 0.002 ABSOLUTE 0.04 %  
PB207/204 NORMALIZED (24 pb207:4): 15.682  
PRECISION (25 pb207:4pcerr): 0.007 ABSOLUTE 0.04 %  
PB208/204 NORMALIZED (26 pb208:4): 38.733  
PRECISION (27 ob208:4pcerr): 0.017 ABSOLUTE 0.04 %  
PB207/206 NORMALIZED (28 pb207:6): 0.82987  
PRECISION (29 pb206:7pcerr): 0.00209 ABSOLUTE 0.01 %  
PB208/206 NORMALIZED (30 pb208:6): 2.24977  
PRECISION (31 pb208:6pcerr): 0.0021 ABSOLUTE 0.009 %  
COMMENT (32 comments): Poor lead isotope x12.5x

RUN NO (20 runno): 2 OR  
ANALYST (16 analyst): \_\_\_\_\_ ANALYSTS CODE (17 anlystcode): \_\_\_\_\_  
MATERIAL ANALYSED (18 materanal): \_\_\_\_\_  
RUNDATE:NORM DATE (19 rundate): m \_\_\_\_\_/d \_\_\_\_\_/y 8 :m \_\_\_\_\_/d \_\_\_\_\_/y 8  
RUN QUALITY:TEMPERATURE:BLOCKS (21 runqual): \_\_\_\_\_: \_\_\_\_\_: \_\_\_\_\_  
PB206/204 NORMALIZED (22 pb206:4): \_\_\_\_\_  
PRECISION (23 pb206:4pcerr): 0.0 \_\_\_\_\_ ABSOLUTE 0.0 \_\_\_\_\_ %  
PB207/204 NORMALIZED (24 pb207:4): \_\_\_\_\_  
PRECISION (25 pb207:4pcerr): 0.0 \_\_\_\_\_ ABSOLUTE 0.0 \_\_\_\_\_ %  
PB208/204 NORMALIZED (26 pb208:4): \_\_\_\_\_  
PRECISION (27 ob208:4pcerr): 0.0 \_\_\_\_\_ ABSOLUTE 0.0 \_\_\_\_\_ %  
PB207/206 NORMALIZED (28 pb207:6): \_\_\_\_\_  
PRECISION (29 pb206:7pcerr): 0.00 \_\_\_\_\_ ABSOLUTE 0.0 \_\_\_\_\_ %  
PB208/206 NORMALIZED (30 pb208:6): \_\_\_\_\_  
PRECISION (31 pb208:6pcerr): 0.00 \_\_\_\_\_ ABSOLUTE 0.0 \_\_\_\_\_ %  
COMMENT (32 comments): \_\_\_\_\_

LABORATORY ENTRY ONLY

Form Revised: 07/21/87 CIG

DATA ON THIS FORM HAS BEEN ENTERED  
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 O[ ], S[ ], F[ ], OTHER[ ]

LABORATORY NUMBER (1 sampleno): 30977-004 .. ..  
 MAP SYMBOL (8 mapsymbol): \_\_\_\_\_ HOST CODE (11 hostcode): \_\_\_\_\_  
 TYPE CODE (13 typcode): \_\_\_\_\_ TECTONIC CODE (15 tectcode): \_\_\_\_\_

COLLECTOR ENTRY

DEPOSIT NAME (2 depname): SAMATORUM  
 SUBMITTOR, SAMPLE NAME & NUMBER (3 samsource): \_\_\_\_\_  
Rgt-106 135.2m  
 SAMPLE ACQUIRED (4 acqdate): m 07/d 06/y 87  
 NTS & GOVT NO (5 nts:bcmi): \_\_\_\_\_  
 LATITUDE DECIMAL DEGREES NORTH (6 latnorth): (+) \_\_\_\_\_ DEG. N  
 LONG. DECIMAL DEGREES WEST (7 longwest): (+) \_\_\_\_\_ DEG. W  
 HOST FORMATION LITHOLOGY (9 hostlith): \_\_\_\_\_  
 HOST AGE (10 hostage): \_\_\_\_\_  
 TYPE OF DEPOSIT: SILICA FLOODING  
 TECTONIC ELEMENT (14 tectelem): ADAMS PLATEAU  
 COMMENTS, GEOLOGIC DETAILS, REFERENCES, ETC. (32 comments):  
Adams plateau deposit - Thoreau  
3 types main to compare - same cos?

LABORATORY ENTRY

RUN NO (20 runno): 1 OR \_\_\_\_  
 ANALYST (16 analyst): A ANDRE ANALYSTS CODE (17 anlystcode): \_\_\_\_\_  
 MATERIAL ANALALYSED (18 materanal): RA  
 RUNDATE: NORM DATE (19 rundate): m 09/d 07/y 87: m \_\_\_\_/d \_\_\_\_/y 8\_\_  
 RUN QUALITY: TEMPERATURE: BLOCKS (21 runqual): P 0 0 2: 1 1 30: 0 9  
 PB206/204 NORMALIZED (22 pb206:4): 1 2.8 2 5  
 PRECISION (23 pb206:4pcerr): 0.0 2 2 ABSOLUTE 0.0 12 %  
 PB207/204 NORMALIZED (24 pb207:4): 1 3.6 5 5  
 PRECISION (25 pb207:4pcerr): 0.0 1 8 ABSOLUTE 0.0 2 %  
 PB208/204 NORMALIZED (26 pb208:4): 2 8.6 4 9  
 PRECISION (27 ob208:4pcerr): 0.0 4 3 ABSOLUTE 0.0 12 %  
 PB207/206 NORMALIZED (28 pb207:6): 0.8 2 9 9 4  
 PRECISION (29 pb206:7pcerr): 0.00 0 0 9 ABSOLUTE 0.0 1 %  
 PB208/206 NORMALIZED (30 pb208:6): 2.0 4 9 0  
 PRECISION (31 pb208:6pcerr): 0.00 0 2 ABSOLUTE 0.0 1 %  
 COMMENT (32 comments): poor looking a few - High background - poor run

RUN NO (20 runno): 2 OR \_\_\_\_  
 ANALYST (16 analyst): \_\_\_\_\_ ANALYSTS CODE (17 anlystcode): \_\_\_\_\_  
 MATERIAL ANALALYSED (18 materanal): \_\_\_\_\_  
 RUNDATE: NORM DATE (19 rundate): m \_\_\_\_/d \_\_\_\_/y 8\_\_ : m \_\_\_\_/d \_\_\_\_/y 8\_\_  
 RUN QUALITY: TEMPERATURE: BLOCKS (21 runqual): \_\_\_\_\_  
 PB206/204 NORMALIZED (22 pb206:4): \_\_\_\_\_  
 PRECISION (23 pb206:4pcerr): 0.0 ABSOLUTE 0.0 %  
 PB207/204 NORMALIZED (24 pb207:4): \_\_\_\_\_  
 PRECISION (25 pb207:4pcerr): 0.0 ABSOLUTE 0.0 %  
 PB208/204 NORMALIZED (26 pb208:4): \_\_\_\_\_  
 PRECISION (27 ob208:4pcerr): 0.0 ABSOLUTE 0.0 %  
 PB207/206 NORMALIZED (28 pb207:6): \_\_\_\_\_  
 PRECISION (29 pb206:7pcerr): 0.00 ABSOLUTE 0.0 %  
 PB208/206 NORMALIZED (30 pb208:6): \_\_\_\_\_  
 PRECISION (31 pb208:6pcerr): 0.00 ABSOLUTE 0.0 %  
 COMMENT (32 comments): \_\_\_\_\_

LABORATORY ENTRY ONLY  
 Form Revised: 07/21/87 CIG

DATA ON THIS FORM HAS BEEN ENTERED  
 IN DBASE FOR BELT: I[ ], C[ ], N[ ],  
 O[ ], S[ ], F[ ], OTHER[ ]

LABORATORY NUMBER (1 sampleno): 30917-005  
 MAP SYMBOL (8 mapsymbol): \_\_\_\_\_ HOST CODE (11 hostcode): \_\_\_\_\_  
 TYPE CODE (13 typcode): \_\_\_\_\_ TECTONIC CODE (15 tectcode): \_\_\_\_\_

COLLECTOR ENTRY

DEPOSIT NAME (2 depname): SAMATOSUM  
 SUBMITTOR, SAMPLE NAME & NUMBER (3 samsource): MINNOVA INC. IAN Price  
Rgr-115 170.6m  
 SAMPLE ACQUIRED (4 acqdate): m 07/d 06/y 87  
 NTS & GOVT NO (5 nts:bcml): \_\_\_\_\_  
 LATITUDE DECIMAL DEGREES NORTH (6 latnorth): (+) \_\_\_\_\_ DEG. N  
 LONG. DECIMAL DEGREES WEST (7 longwest): (+) \_\_\_\_\_ DEG. W  
 HOST FORMATION LITHOLOGY (9 hostlith): \_\_\_\_\_  
 HOST AGE (10 hostage): \_\_\_\_\_  
 TYPE OF DEPOSIT: SILICA FLOODING  
 TECTONIC ELEMENT (14 tectelem): \_\_\_\_\_  
 COMMENTS, GEOLOGIC DETAILS, REFERENCES, ETC. (32 comments):  
Airans plateau suspect - Andrew  
3 types - assemblage to samples same as 004?

LABORATORY ENTRY

RUN NO (20 runno): 1 OR  
 ANALYST (16 analyst): A. ANDREW ANALYSTS CODE (17 anlystcode): \_\_\_\_\_  
 MATERIAL ANALYSED (18 materanal): \_\_\_\_\_  
 RUNDATE:NORM DATE (19 rundate): m 07/d 07/y 87:m \_\_\_\_\_/d \_\_\_\_\_/y 8  
 RUN QUALITY:TEMPERATURE:BLOCKS (21 runqual): 0000:1150:08  
 PB206/204 NORMALIZED (22 pb206:4): 18.684  
 PRECISION (23 pb206:4pcerr): 0.003 ABSOLUTE 0.02 %  
 PB207/204 NORMALIZED (24 pb207:4): 15.672  
 PRECISION (25 pb207:4pcerr): 0.002 ABSOLUTE 0.02 %  
 PB208/204 NORMALIZED (26 pb208:4): 38.756  
 PRECISION (27 ob208:4pcerr): 0.005 ABSOLUTE 0.02 %  
 PB207/206 NORMALIZED (28 pb207:6): 0.83294  
 PRECISION (29 pb206:7pcerr): 0.00004 ABSOLUTE 0.005 %  
 PB208/206 NORMALIZED (30 pb208:6): 2.0523  
 PRECISION (31 pb208:6pcerr): 0.0002 ABSOLUTE 0.01 %  
 COMMENT (32 comments): leaching at 200°C for 24 hrs x1 vol

RUN NO (20 runno): 2 OR  
 ANALYST (16 analyst): \_\_\_\_\_ ANALYSTS CODE (17 anlystcode): \_\_\_\_\_  
 MATERIAL ANALYSED (18 materanal): \_\_\_\_\_  
 RUNDATE:NORM DATE (19 rundate): m \_\_\_\_\_/d \_\_\_\_\_/y 8:m \_\_\_\_\_/d \_\_\_\_\_/y 8  
 RUN QUALITY:TEMPERATURE:BLOCKS (21 runqual): \_\_\_\_\_:\_\_\_\_\_:\_\_\_\_\_  
 PB206/204 NORMALIZED (22 pb206:4): \_\_\_\_\_  
 PRECISION (23 pb206:4pcerr): 0.0 ABSOLUTE 0.0 %  
 PB207/204 NORMALIZED (24 pb207:4): \_\_\_\_\_  
 PRECISION (25 pb207:4pcerr): 0.0 ABSOLUTE 0.0 %  
 PB208/204 NORMALIZED (26 pb208:4): \_\_\_\_\_  
 PRECISION (27 ob208:4pcerr): 0.0 ABSOLUTE 0.0 %  
 PB207/206 NORMALIZED (28 pb207:6): \_\_\_\_\_  
 PRECISION (29 pb206:7pcerr): 0.00 ABSOLUTE 0.0 %  
 PB208/206 NORMALIZED (30 pb208:6): \_\_\_\_\_  
 PRECISION (31 pb208:6pcerr): 0.00 ABSOLUTE 0.0 %  
 COMMENT (32 comments): \_\_\_\_\_

LABORATORY ENTRY ONLY

Form Revised: 07/21/87 CIG

DATA ON THIS FORM HAS BEEN ENTERED  
 IN DBASE FOR BELT: I[\_], CI[\_], NI[\_],  
 OC[\_], SC[\_], FC[\_], OTHER[\_\_\_\_\_]

LABORATORY NUMBER (1 sampleno): 30977-006 ..  
 MAP SYMBOL (8 mapsymbol): \_\_\_\_\_ HOST CODE (11 hostcode): \_\_\_\_\_  
 TYPE CODE (13 typcode): \_\_\_\_\_ TECTONIC CODE (15 tectcode): \_\_\_\_\_

COLLECTOR ENTRY

DEPOSIT NAME (2 depname): SAMATOSUM  
 SUBMITTOR, SAMPLE NAME & NUMBER (3 samsource): MINNOVA INC. VAN PIZIE  
RG-109 141.0m  
 SAMPLE ACQUIRED (4 acqdate): m 07 / d 10 / y 87  
 NTS & GOVT NO (5 nts:bcml): \_\_\_\_\_  
 LATITUDE DECIMAL DEGREES NORTH (6 latnorth): (+) \_\_\_\_\_ DEG. N  
 LONG. DECIMAL DEGREES WEST (7 longwest): (+) \_\_\_\_\_ DEG. W  
 HOST FORMATION LITHOLOGY (9 hostlith): \_\_\_\_\_  
 HOST AGE (10 hostage): \_\_\_\_\_  
 TYPE OF DEPOSIT: LATE QUARTZ VEINING  
 TECTONIC ELEMENT (14 tectelem): ADAMS PLATEAU  
 COMMENTS, GEOLOGIC DETAILS, REFERENCES, ETC. (32 comments):  
Adams Plateau prospect - Andrew  
3 types min. to 100m post.

LABORATORY ENTRY

RUN NO (20 runno): 1 OR  
 ANALYST (16 analyst): J. Andrew ANALYSTS CODE (17 analystcode): \_\_\_\_\_  
 MATERIAL ANALYSED (18 materanal): \_\_\_\_\_  
 RUNDATE: NORM DATE (19 rundate): m 07 / d 07 / y 87 : m \_\_\_ / d \_\_\_ / y 8  
 RUN QUALITY: TEMPERATURE: BLOCKS (21 runqual): 9000 : L 1 S 0 : 07  
 PB206/204 NORMALIZED (22 pb206:4): 18.888  
 PRECISION (23 pb206:4pcerr): 0.002 ABSOLUTE 0.01 %  
 PB207/204 NORMALIZED (24 pb207:4): 15.669  
 PRECISION (25 pb207:4pcerr): 0.001 ABSOLUTE 0.01 %  
 PB208/204 NORMALIZED (26 pb208:4): 38.696  
 PRECISION (27 pb208:4pcerr): 0.004 ABSOLUTE 0.01 %  
 PB207/206 NORMALIZED (28 pb207:6): 2.52955  
 PRECISION (29 pb207:6pcerr): 0.00005 ABSOLUTE 0.01 %  
 PB208/206 NORMALIZED (30 pb208:6): 2.0487  
 PRECISION (31 pb208:6pcerr): 0.0001 ABSOLUTE 0.01 %  
 COMMENT (32 comments): Good result - good run - stable

RUN NO (20 runno): 2 OR  
 ANALYST (16 analyst): \_\_\_\_\_ ANALYSTS CODE (17 analystcode): \_\_\_\_\_  
 MATERIAL ANALYSED (18 materanal): \_\_\_\_\_  
 RUNDATE: NORM DATE (19 rundate): m \_\_\_ / d \_\_\_ / y 8 : m \_\_\_ / d \_\_\_ / y 8  
 RUN QUALITY: TEMPERATURE: BLOCKS (21 runqual): \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_  
 PB206/204 NORMALIZED (22 pb206:4): \_\_\_\_\_  
 PRECISION (23 pb206:4pcerr): 0.0 \_\_\_ ABSOLUTE 0.0 \_\_\_ %  
 PB207/204 NORMALIZED (24 pb207:4): \_\_\_\_\_  
 PRECISION (25 pb207:4pcerr): 0.0 \_\_\_ ABSOLUTE 0.0 \_\_\_ %  
 PB208/204 NORMALIZED (26 pb208:4): \_\_\_\_\_  
 PRECISION (27 pb208:4pcerr): 0.0 \_\_\_ ABSOLUTE 0.0 \_\_\_ %  
 PB207/206 NORMALIZED (28 pb207:6): \_\_\_\_\_  
 PRECISION (29 pb207:6pcerr): 0.00 \_\_\_ ABSOLUTE 0.0 \_\_\_ %  
 PB208/206 NORMALIZED (30 pb208:6): \_\_\_\_\_  
 PRECISION (31 pb208:6pcerr): 0.00 \_\_\_ ABSOLUTE 0.0 \_\_\_ %  
 COMMENT (32 comments): \_\_\_\_\_



LABORATORY ENTRY ONLY

Form Revised: 07/21/87 CIG

DATA ON THIS FORM HAS BEEN ENTERED  
 IN DBASE FOR BELT: I[ ], C[ ], N[ ],  
 O[ ], S[ ], F[ ], OTHER[ ]

LABORATORY NUMBER (1 sampleno): 30977-007 .. ..  
 MAP SYMBOL (8 mapsymbol): \_\_\_\_\_ HOST CODE (11 hostcode): \_\_\_\_\_  
 TYPE CODE (13 typcode): \_\_\_\_\_ TECTONIC CODE (15 tectcode): \_\_\_\_\_

COLLECTOR ENTRY

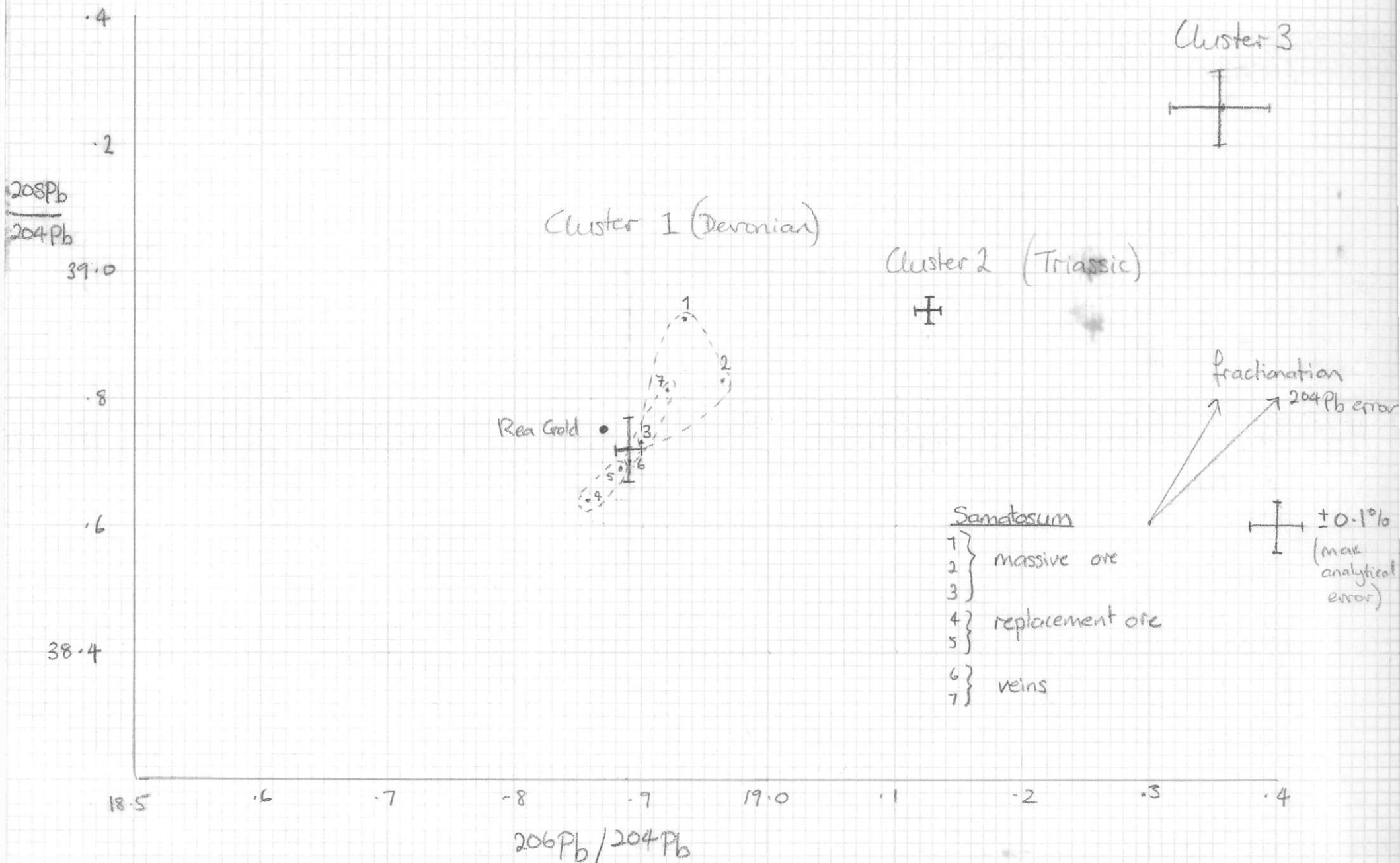
DEPOSIT NAME (2 depname): SAMATOSUM  
 SUBMITTOR, SAMPLE NAME & NUMBER (3 samsource): MININOVA INC. HAN PIPE  
Rt-115 134.4m  
 SAMPLE ACQUIRED (4 acqdate): m \_\_\_ /d \_\_\_ /y 8\_\_  
 NTS & GOVT NO (5 nts:bcml): \_\_\_ / \_\_\_ / \_\_\_ : \_\_\_ : \_\_\_ : \_\_\_  
 LATITUDE DECIMAL DEGREES NORTH (6 latnorth): (+) \_\_\_\_\_ DEG. N  
 LONG. DECIMAL DEGREES WEST (7 longwest): (+) \_\_\_\_\_ DEG. W  
 HOST FORMATION LITHOLOGY (9 hostlith): \_\_\_\_\_  
 HOST AGE (10 hostage): \_\_\_\_\_  
 TYPE OF DEPOSIT: LATE ORZ VEINING  
 TECTONIC ELEMENT (14 tectelem): ADAMS PLATEAU  
 COMMENTS, GEOLOGIC DETAILS, REFERENCES, ETC. (32 comments):  
Adams plateau project - Andrew  
Stages mineralization within deposit.

LABORATORY ENTRY

RUN NO (20 runno): 1 OR \_\_\_  
 ANALYST (16 analyst): ADAMS ANALYSTS CODE (17 analystcode): \_\_\_\_\_  
 MATERIAL ANALYSED (18 materanal): 22  
 RUNDATA: NORM DATE (19 rundate): m 20 /d 01 /y 87 : m \_\_\_ /d \_\_\_ /y 8\_\_  
 RUN QUALITY: TEMPERATURE: BLOCKS (21 runqual): \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_  
 PB206/204 NORMALIZED (22 pb206:4): 13.922  
 PRECISION (23 pb206:4pcerr): 0.003 ABSOLUTE 0.02 %  
 PB207/204 NORMALIZED (24 pb207:4): 15.712  
 PRECISION (25 pb207:4pcerr): 0.001 ABSOLUTE 0.01 %  
 PB208/204 NORMALIZED (26 pb208:4): 38.812  
 PRECISION (27 ob208:4pcerr): 0.011 ABSOLUTE 0.03 %  
 PB207/206 NORMALIZED (28 pb207:6): 0.83033  
 PRECISION (29 pb206:7pcerr): 0.00012 ABSOLUTE 0.01 %  
 PB208/206 NORMALIZED (30 pb208:6): 2.0512  
 PRECISION (31 pb208:6pcerr): 0.0005 ABSOLUTE 0.02 %  
 COMMENT (32 comments): \_\_\_\_\_

RUN NO (20 runno): 2 OR \_\_\_  
 ANALYST (16 analyst): \_\_\_\_\_ ANALYSTS CODE (17 analystcode): \_\_\_\_\_  
 MATERIAL ANALYSED (18 materanal): \_\_\_\_\_  
 RUNDATA: NORM DATE (19 rundate): m \_\_\_ /d \_\_\_ /y 8\_\_ : m \_\_\_ /d \_\_\_ /y 8\_\_  
 RUN QUALITY: TEMPERATURE: BLOCKS (21 runqual): \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_  
 PB206/204 NORMALIZED (22 pb206:4): \_\_\_\_\_  
 PRECISION (23 pb206:4pcerr): 0.0 ABSOLUTE 0.0 %  
 PB207/204 NORMALIZED (24 pb207:4): \_\_\_\_\_  
 PRECISION (25 pb207:4pcerr): 0.0 ABSOLUTE 0.0 %  
 PB208/204 NORMALIZED (26 pb208:4): \_\_\_\_\_  
 PRECISION (27 ob208:4pcerr): 0.0 ABSOLUTE 0.0 %  
 PB207/206 NORMALIZED (28 pb207:6): \_\_\_\_\_  
 PRECISION (29 pb206:7pcerr): 0.00 ABSOLUTE 0.0 %  
 PB208/206 NORMALIZED (30 pb208:6): \_\_\_\_\_  
 PRECISION (31 pb208:6pcerr): 0.00 ABSOLUTE 0.0 %  
 COMMENT (32 comments): \_\_\_\_\_

# LEAD ISOTOPE PLOT OF DATA FROM SAMATOSUM.



LEAD ISOTOPE PLOT OF DATA FROM SAMATOSUM - ADAMS PLATEAU.

