

88-2883

MINES	
File Ref.	EL 55/83
23 NOV 1988	
Doc. Ref.	
Action Officer	Initials
LETTER	
23. 11. 88	
REFERS	
Resubmit to	Date

ALCASTON MINING N.L.

E.L. 55/83 (MANGANA)

ANNUAL REPORT - YEAR 5
24/11/1987 - 23/11/1988

MICROFILMED

OPEN FILE

88-2883

K. Morrison
November 1988

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TENEMENT INFORMATION

E.L. 55/83 is an 180 km² block located in the Mangana-Mathinna area of northeastern Tasmania (Fig. 1). The E.L. was granted on 24/11/1983 to Mr. K.A. White, and transferred to Alcaston Mining N.L. in 1987. At the current renewal, 50% of the E.L. is to be relinquished. The area submitted for relinquishment is shown on the map (Fig. 2) in Appendix 1.

SUMMARY OF PREVIOUS EXPLORATION

1. Hard Rock Targets

In March 1984 an assessment of the hard rock gold potential of E.L. 55/83 was completed by Summons Geoservices Pty Ltd. Known mineralisation occurrences were classified according to quartz vein, stringer system and disseminated styles. The report recognised that major blind mineralised quartz vein deposits probably remain to be discovered, but that the difficulty of locating such bodies combined with their small-to-moderate likely tonnages render such targets only moderately attractive. In contrast, the potential for discovering larger, lower grade ore bodies of the stringer systems and/or disseminated in country rock styles, suitable for open cut mining, was higher and such deposits are more attractive targets.

The 1987 Alcaston Prospectus includes a summary of the size, attitude and grade of all known reef deposits. Fig. 3 shows the approximate location of known reefs in the E.L.

2. Placer Targets

Gully deposits at Mangana and Mathinna have been trenched and bulk sampled. Average recovered grades of approximately 0.3 g Au per bank m³ were obtained at Majors Gully, Mangana and at Black Horse Gully, Mathinna, the average recovered grade was approximately 0.2 g/bank m³. The Majors Gully deposit is now held under Mineral Lease by Alcaston and a treatment plant has been built on site.

Preliminary bulk sampling of an extensive potential dredging target at Midsons Flat, on the South Esk River flats, has been carried out. These sediments are gold mineralised at lower grade than the gully alluvial deposits. Insufficient work has been done on the South Esk prospect to estimate an average grade and tonnage.

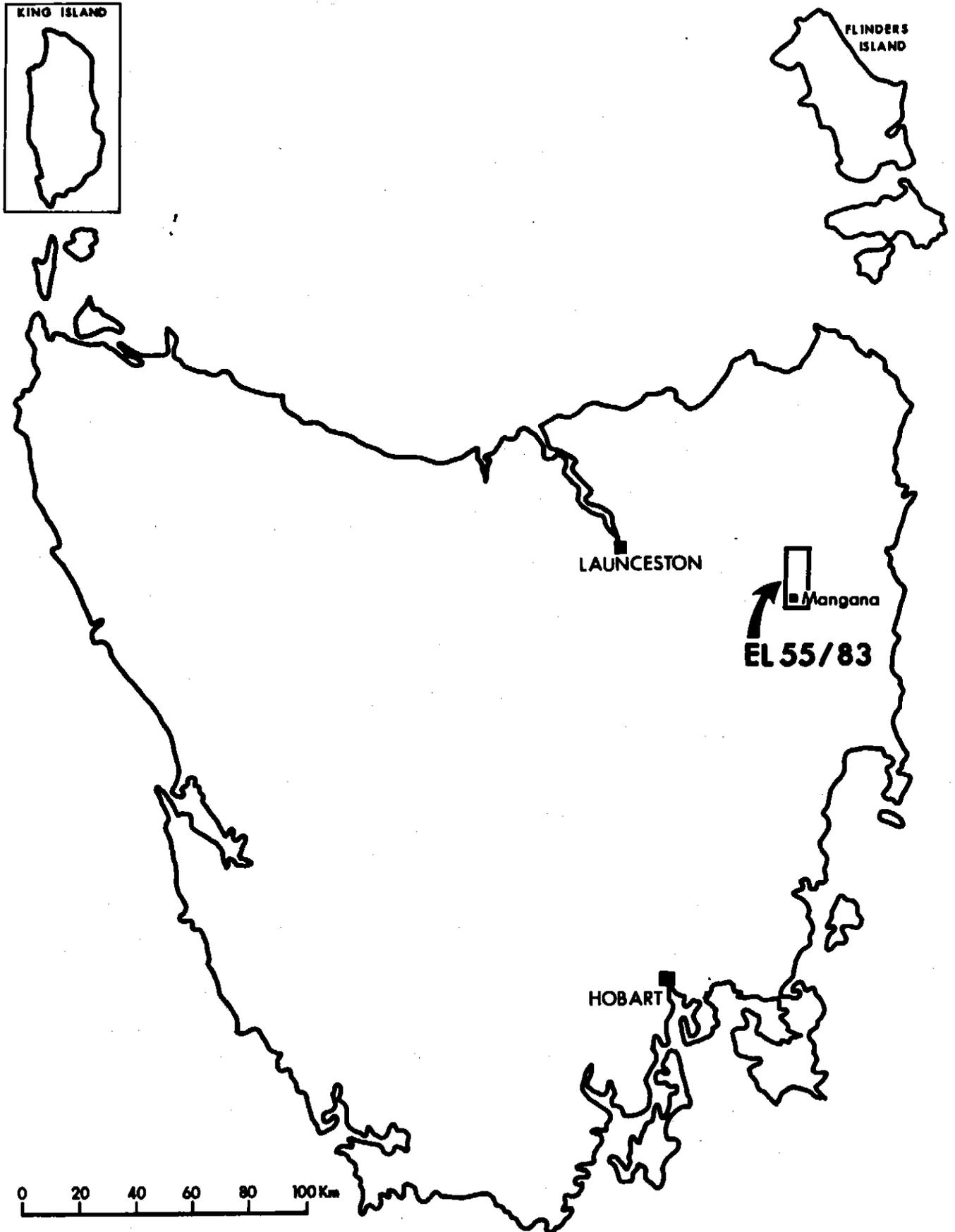


fig. 1 E.L. 55/83 Location Map

5 cm

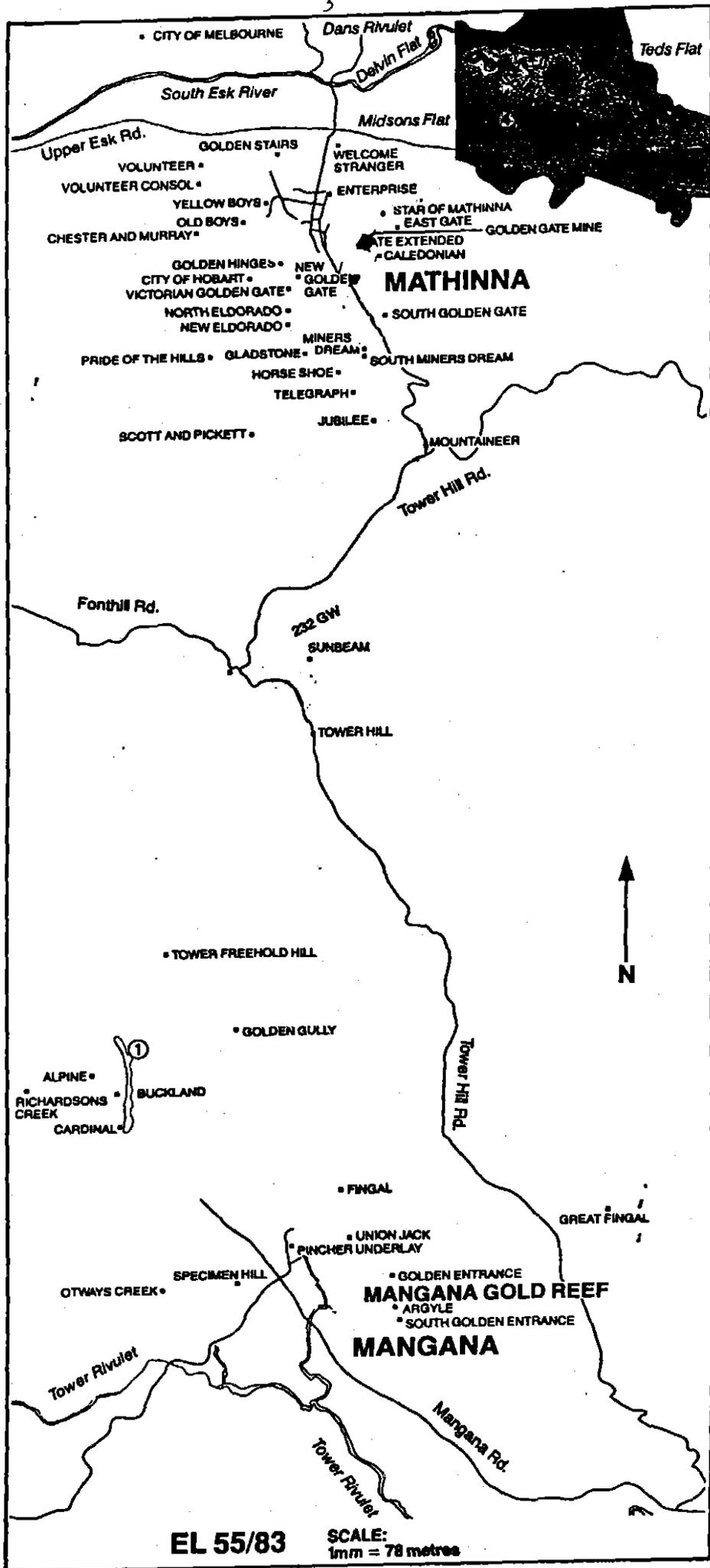


Fig. 3

SUMMARY OF WORK COMPLETED IN YEAR 5 AND CONCLUSIONS

1. Regional Exploration

A study of the structural geology of the E.L. has commenced using Landsat photography and data from the Ben Lomond 1:50 000 sheet, combined with records of the trends of mineralised quartz reefs. The initial work has been used to delineate 50% of the E.L. for the end Year 5 relinquishment.

2. Prospect Scale Exploration

Work to date on the various prospects within the licence area has resulted in two targets being defined for prospect scale exploration during the 1988-89 Spring and Summer. The two targets are -

- (a) Tower Hill, in the central part of the E.L. A N.W.-trending belt of quartzite/quartz veinlet stockwork with a minimum outcrop extent of the order of 10 000 m². Numerous prospect trenches and several shallow shafts were dug by the early workers on this belt of rock. A programme of excavator trenching, mapping and sampling will be conducted by Alcaston.
- (b) Argyle, in the south of the E.L. is a N.W.-trending, steeply dipping quartz vein, a small portion of which was worked in the early 1900s. Old reports and field evidence suggest that significant reserves of ore remain. The Argyle reef was tested in September. Eight down hold hammer percussion drill holes, totalling 245 metres, were drilled through the target and 38 composite rock chip samples were taken from the target rocks exposed in old exploration drives and small underground stopes.

In summary, the results of the programme were as follows:

- 1) Occasional, erratic ore grade gold mineralisation was encountered in the reef rocks, but overall the grades were very low and the Company considers the target to be proven uneconomic.
- 2) No evidence of a halo of low grade mineralisation around a relatively rich quartz vein zone was encountered.

REGIONAL SURVEY

The results to date of the regional structural geology interpretation of the E.L. are submitted under separate cover in the Partial Relinquishment Report. Structures interpreted from Thematic Mapper 1:50 000 imagery suggest that fold structures along the margin of a major linear (the Main Slide) encompass most of the known gold reefs in the Mathinna and Mangana regions.

No ik
wasnt.

The Ben Lomond 1:50 000 sheet shows primary cleavage with a consistent NNW-NW trend across most of the E.L. but locally around the Mangana reefs some cleavage directions suggest folding. The range of reef trends (Fig. 4) suggests that veins parallel to the Main Slide trend and veins oblique to this trend are mineralised. The latter group may be filling tension gashes.

PROSPECT SURVEY

Argyle Reef

The Argyle Reef is located $1\frac{1}{2}$ km S.E. of Mangana (Figs. 2, 3). It was discovered in 1927 as the southeastern extension of the N.W.-S.E. striking Golden Entrance reef which was worked between 1900 and 1924. Alcaston considers the Argyle prospect to extend from Sailors Gully in the N.W. to Irvines Gully in the S.E. (Fig. 2).

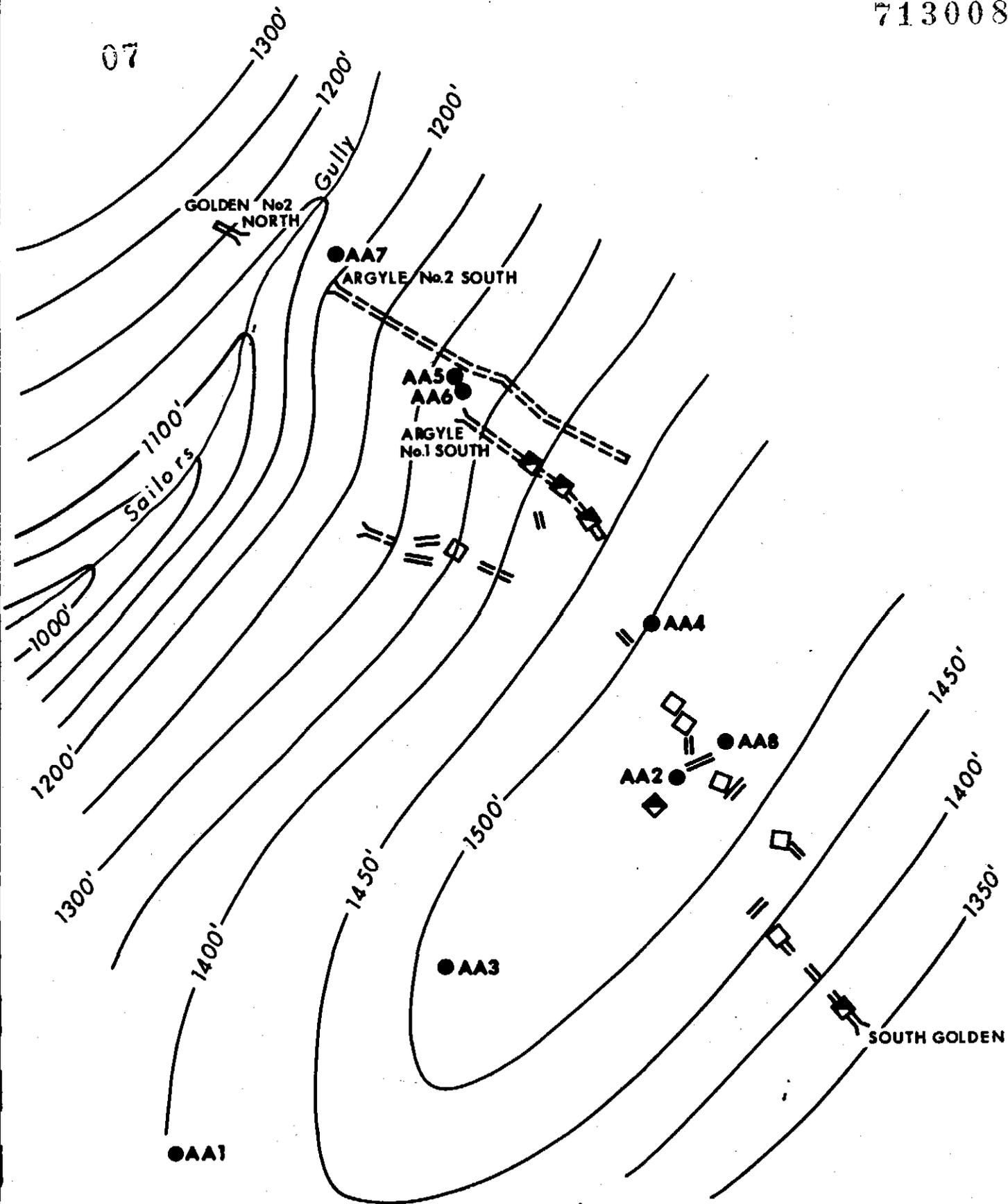
Access to the reef is available through three drives - two from the northwestern end and one from the southeastern end. Although these workings are partly collapsed it appears that limited stoping of the reef had been carried out in only one of the drives (Argyle No. 1 South) and that the total ore mined would have been less than 500 tonnes.

In 1932 Finucane estimated that the reef width varied from 9 inches to 3 feet and that the grade averaged around 22 g/tonne. His sampling of the reef produced similar grades, although systematic sampling of the ore dump produced an average grade of only 1.2 g/tonne.

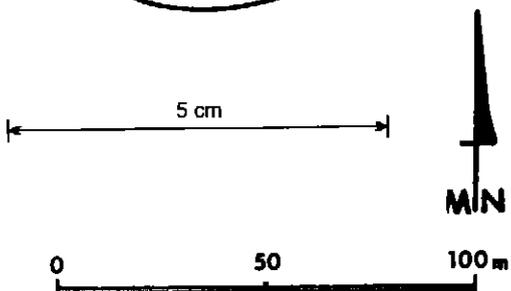
In 1981 Tasminex N.L. sampled the Argyle No. 1 South adit and stopes. Seventeen rock chip samples produced grades ranging from 4-133 g/tonne (mean = 31.2 g/tonne). Vein width over the interval sampled ranged from 10 to 90 cm (average 44 cm).

In September 1988 Alcaston Mining N.L. tested the Argyle Reef and adjacent wall rocks and two minor quartz reefs parallel to Argyle with eight inclined, open hole percussion drill holes plus 38 composite rock chip samples taken from inside the old drives. Drill hole and sample sites are shown on Figs. 5 and 6. Log sheets of all samples and the analytical data are in Appendix 2. Figs. 7 to 14 show sections with gold grade profiles for the eight holes.

07



- KEY**
- Adit
 - Trench
 - Prospect hole
 - Shaft/winze
 - Drillhole

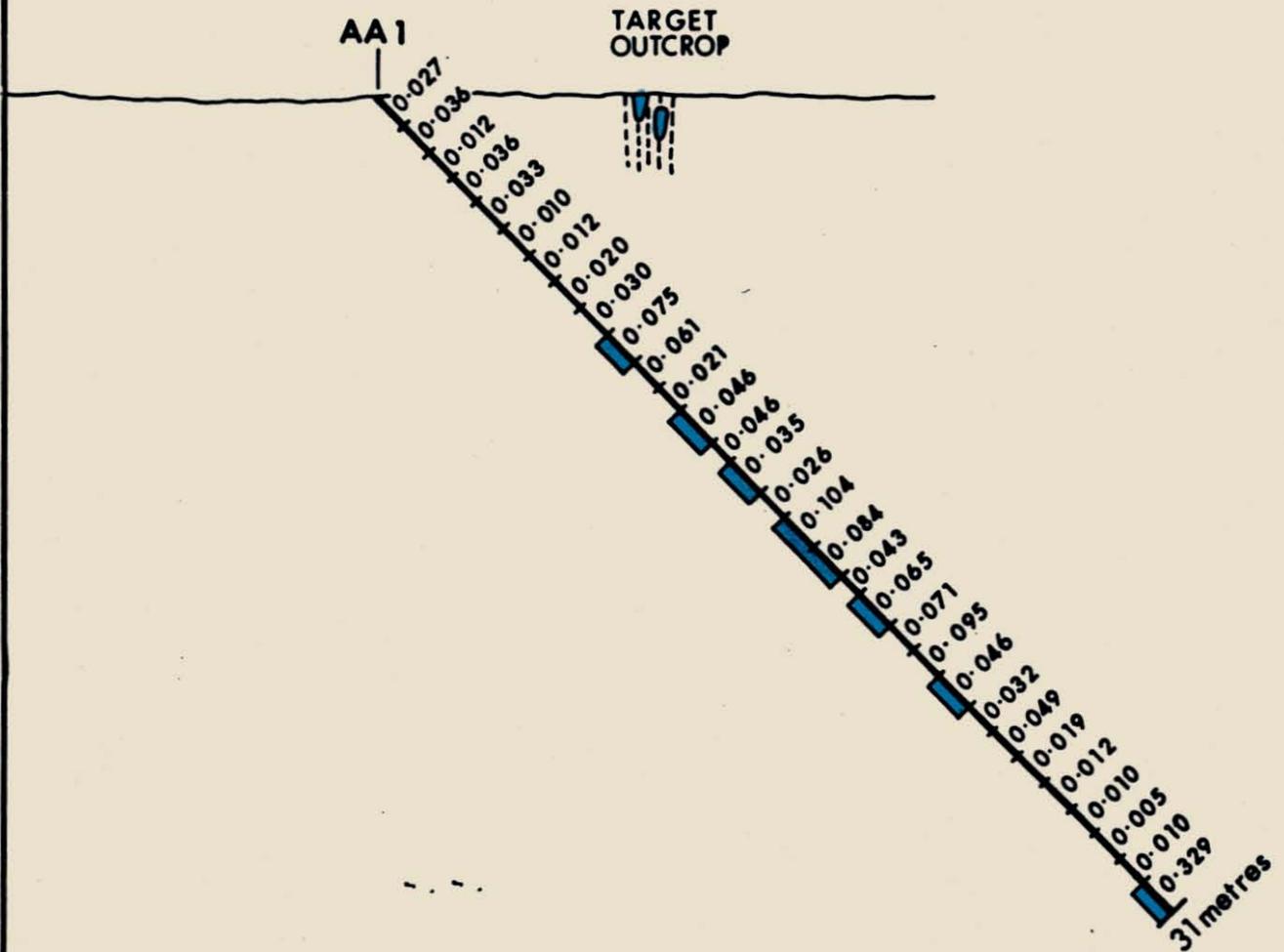


ALCASTON MINING N.L.

ARGYLE REEF AND WORKINGS
(Adapted from Blake, 1936)

1988 ALCASTON DRILL HOLE
LOCATIONS

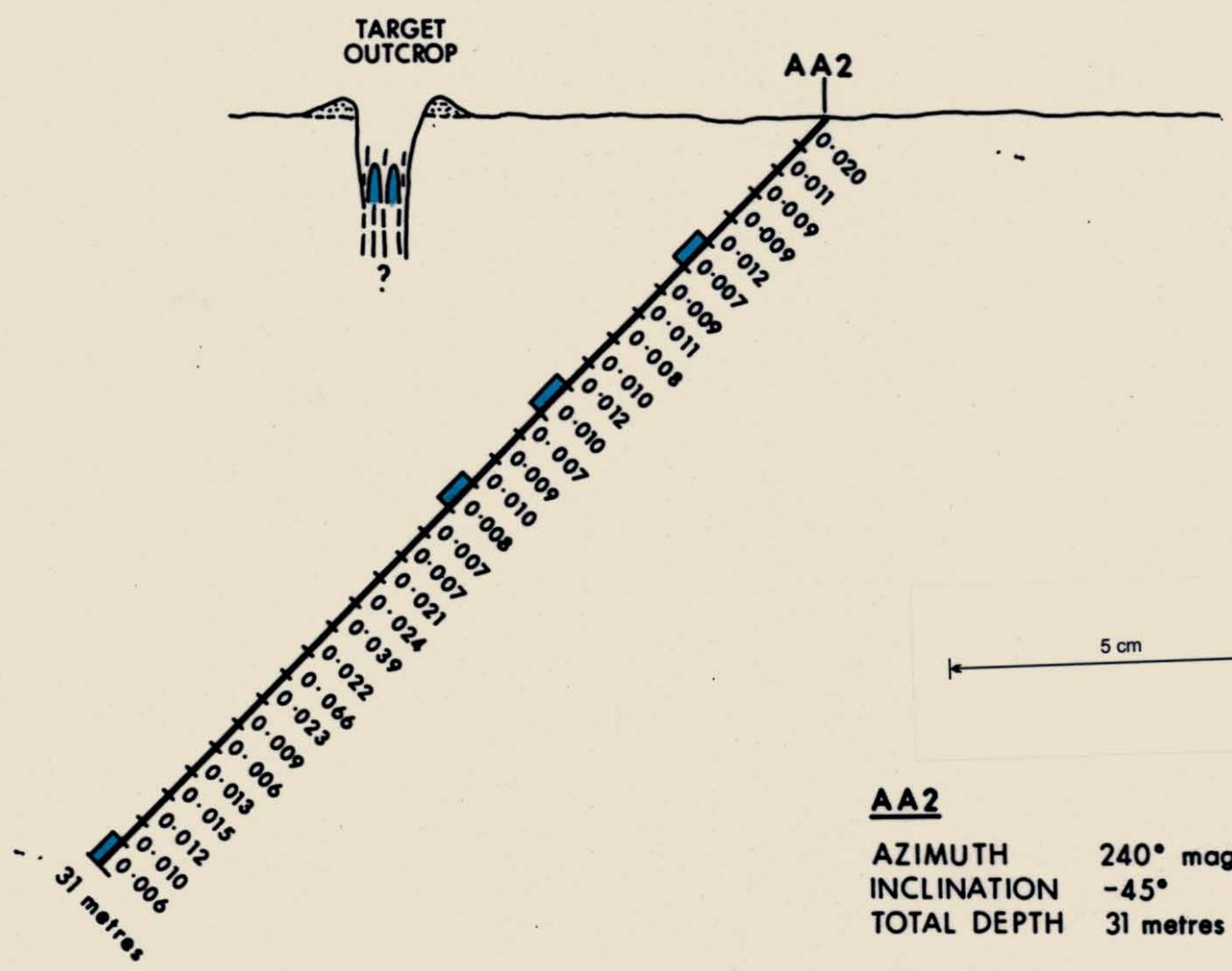
SEPT, 1988 KM/JT



AA1
 AZIMUTH 360° magnetic
 INCLINATION -45°
 TOTAL DEPTH 31 metres

KEY
 0.021 Au ppm (1m. composite)
 ■ Vein quartz ≥ 10%

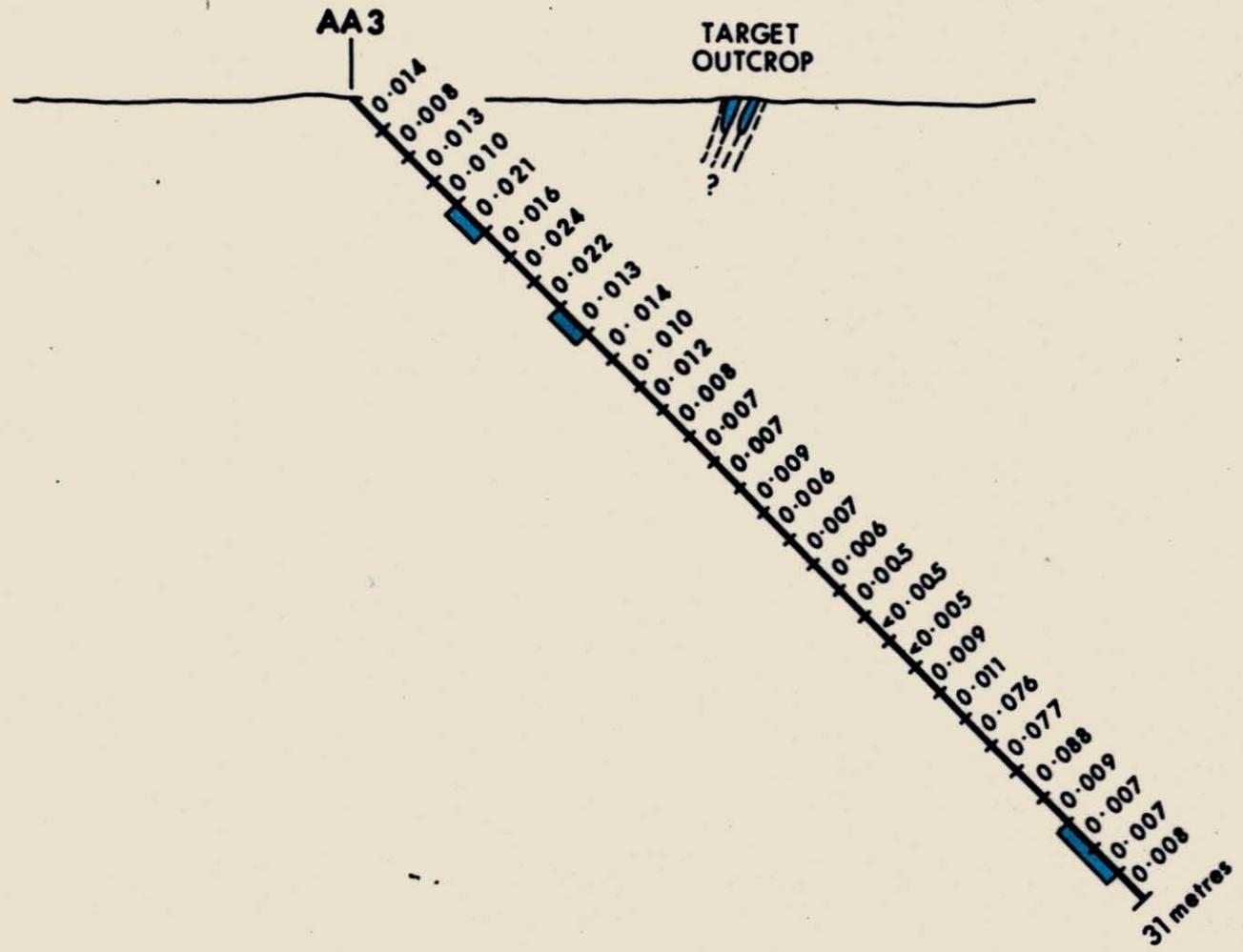
SCALE 1:200



AA2
 AZIMUTH 240° magnetic
 INCLINATION -45°
 TOTAL DEPTH 31 metres

KEY
 0.021 Au ppm (1m. composite)
 — Vein quartz ≥ 10%

SCALE 1:200

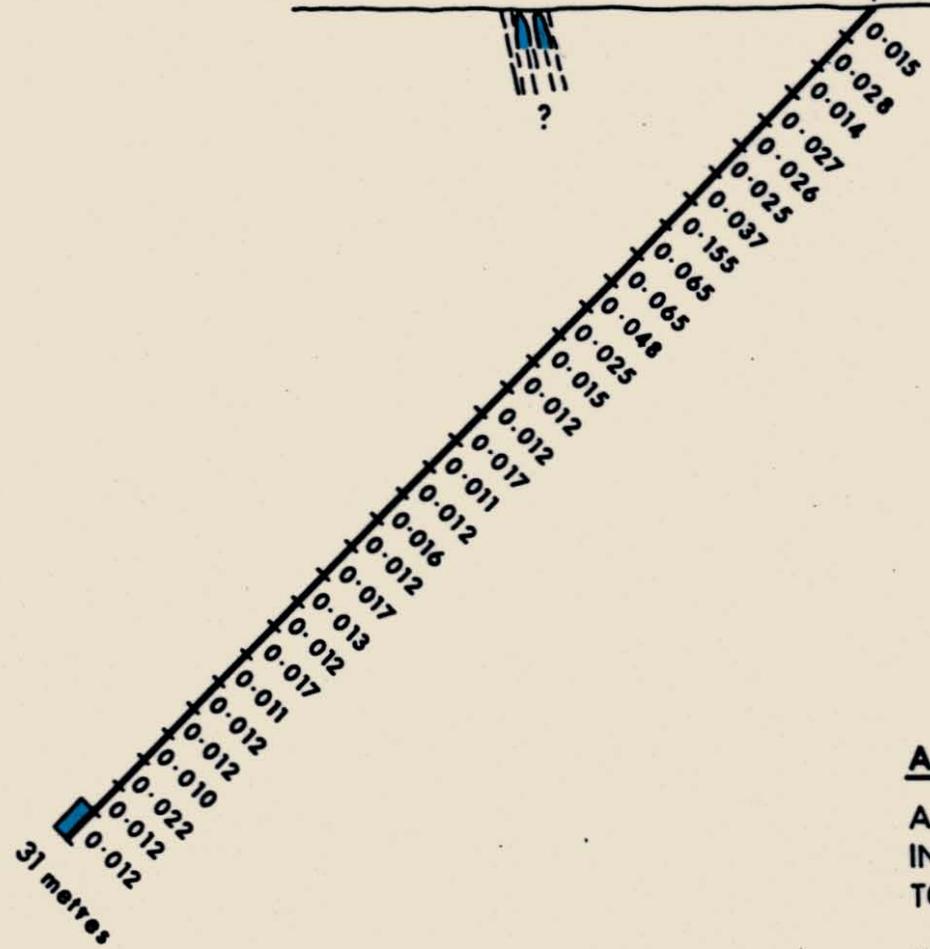


AA3
 AZIMUTH 30° magnetic
 INCLINATION -45°
 TOTAL DEPTH 31 metres

KEY
 0.021 Au ppm (1m. composite)
 — Vein quartz ≥ 10%

SCALE 1:200

TARGET OUTCROP AA4



AA4

AZIMUTH 185° magnetic
 INCLINATION -45°
 TOTAL DEPTH 31 metres

KEY

0.021 Au ppm (1m. composite)
 [Blue bar] Vein quartz ≥10%

SCALE 1:200

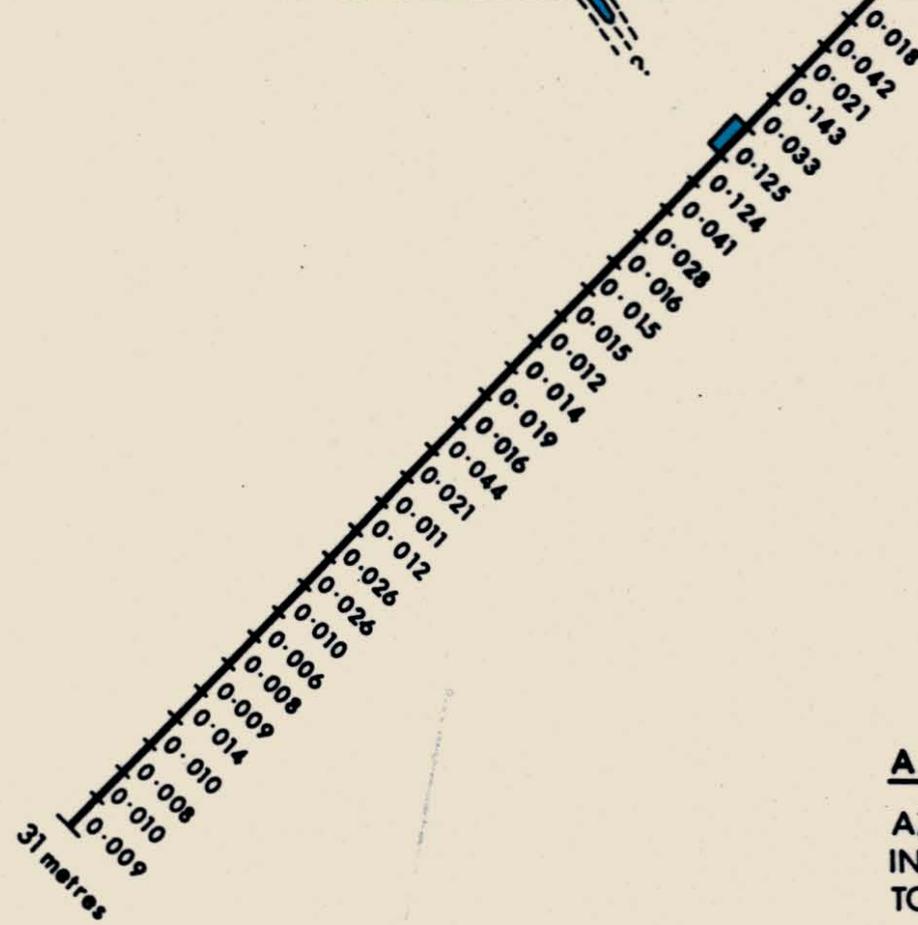
12

11

713013

ARGYLE No.1
SOUTH ADIT

AA5

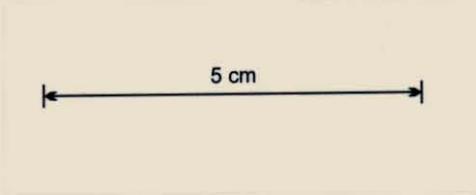
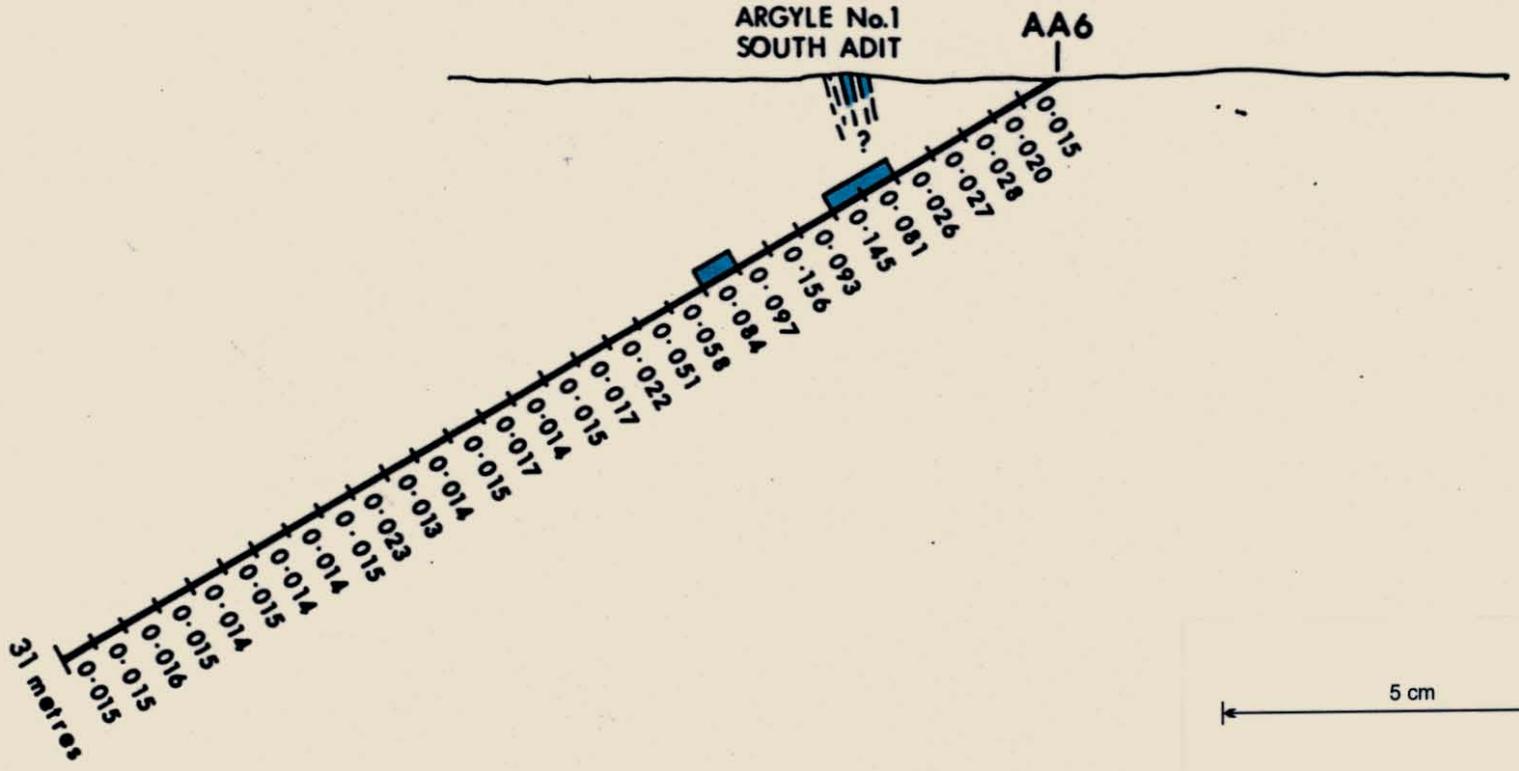


5 cm

AA5
 AZIMUTH 215° magnetic
 INCLINATION -45°
 TOTAL DEPTH 31 metres

KEY
 0.021 Au ppm (1m. composite)
 ■ Vein quartz ≥ 10%

SCALE 1:200



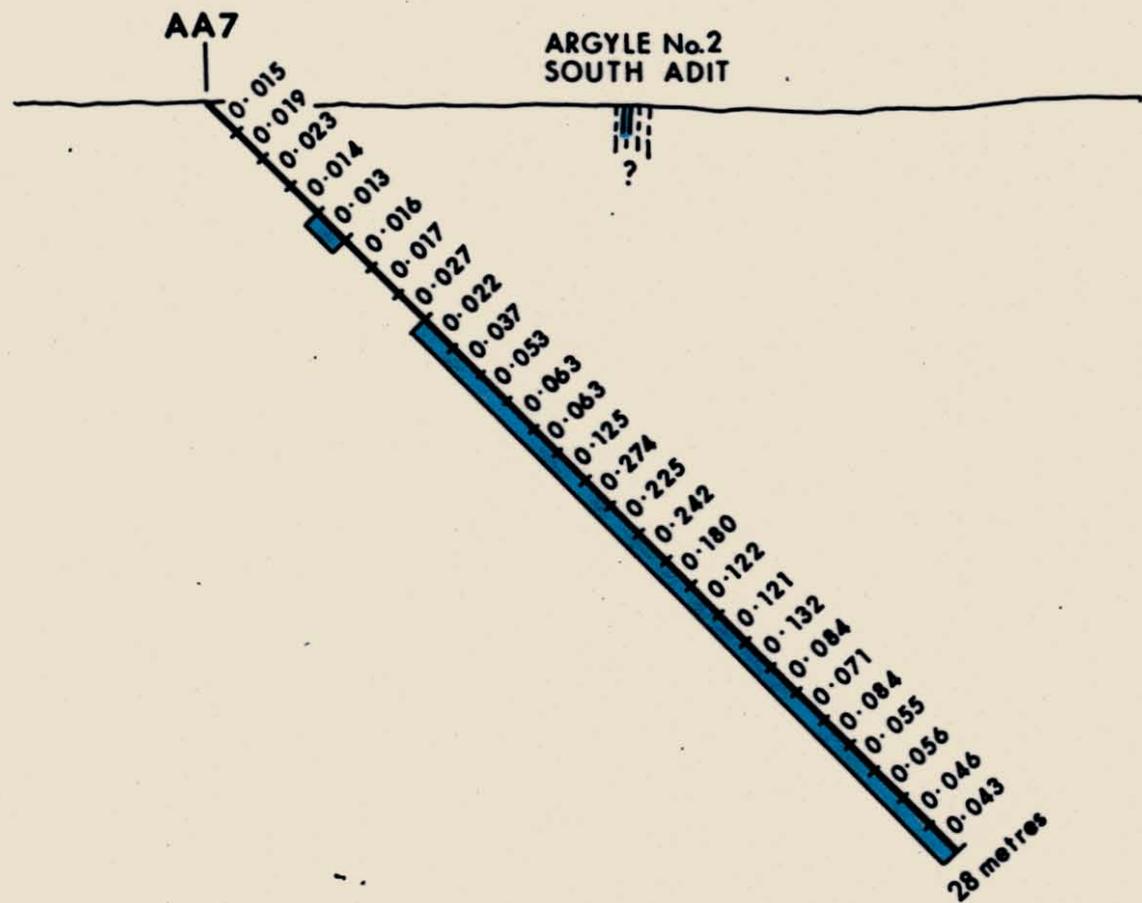
AA6

AZIMUTH 160° magnetic
 INCLINATION -30°
 TOTAL DEPTH 31 metres

KEY

0.021 Au ppm (1m. composite)
 [Shaded Area] Vein quartz ≥10%

SCALE 1 : 200



AA7

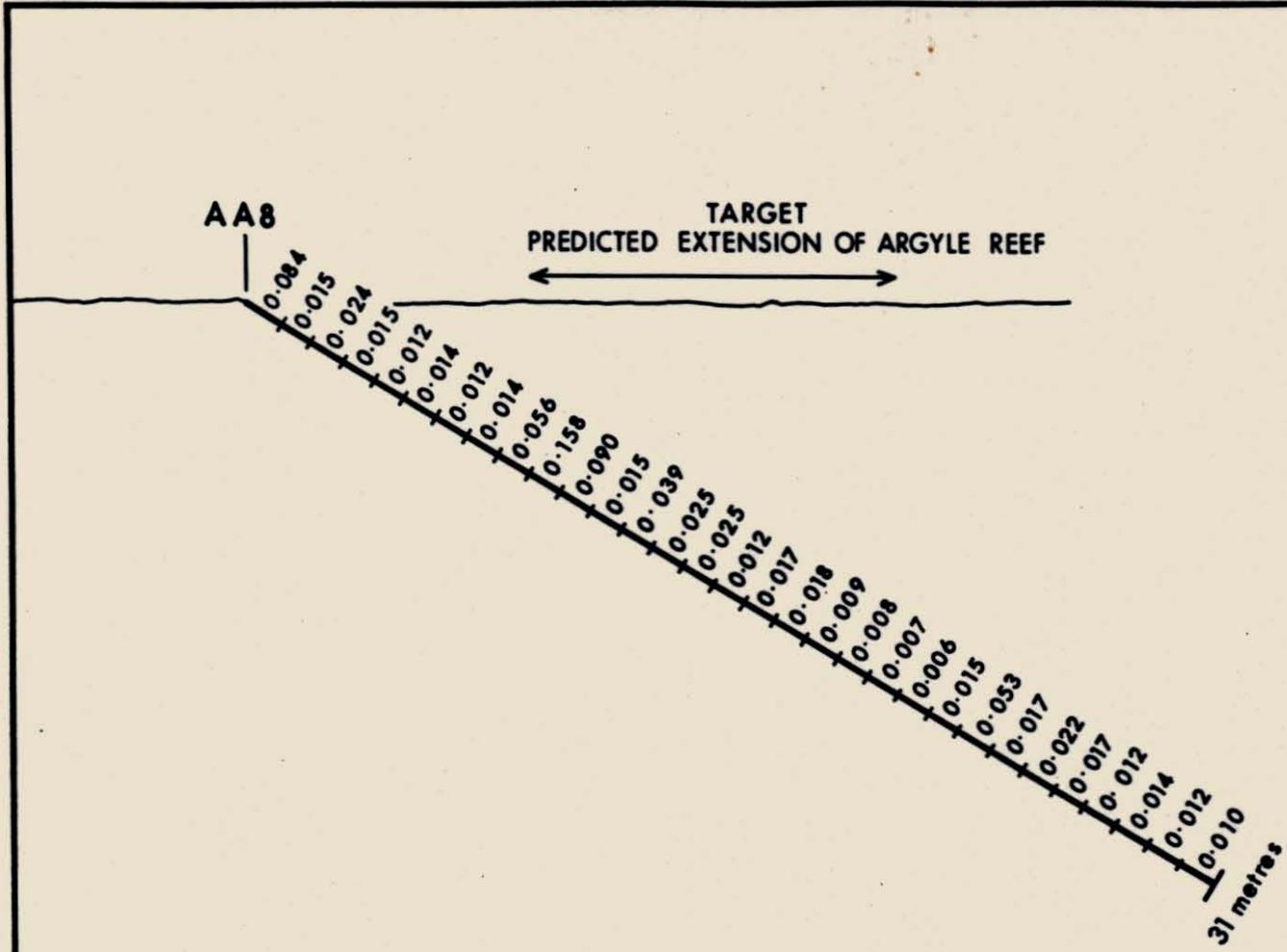
AZIMUTH 205° magnetic
 INCLINATION -45°
 TOTAL DEPTH 28 metres

KEY

0.021 Au ppm (1m. composite)
 — Vein quartz ≥10%

SCALE 1 : 200

01 15



AA8

AZIMUTH 240° magnetic
 INCLINATION -30°
 TOTAL DEPTH 31 metres

KEY

0.021 Au ppm (1m. composite)
 Vein quartz ≥10%

SCALE 1:200

713016

The drilling was done by Ark No. 2 Pty Ltd of Wynyard, using an Atlas ROC 606 with an Ingersall Rand 250 psi, 750 cu ft/min. compressor, drilling 4½ inch diameter holes. Complete (unsplit) one metre samples were collected through a cyclone and one metre composite sub samples were taken with a spear, producing sub samples of approximately 2 kg per metre. The 2 kg samples were sent to Analabs, Burnie, and assayed for gold (Fire Assay Fusion/AAS - 50 g charge) and arsenic (Vapour Generation/AAS).

The results were disappointing. Although significant vein quartz was encountered in all holes except AA8, the rocks are not showing ore grades where the reefs were intersected. The richest intersections in each hole are tabled below.

Hole No.	Grade (ppm)	Interval (metres)
AA1	0.104	16-17
	0.329	30-31
AA2	0.066	22-23
AA3	0.076 - 0.088	24-27
AA4	0.155	7- 8
AA5	0.143	3- 4
	0.124 - 0.125	5- 7
AA6	0.093 - 0.156	6-10
AA7	0.125 - 0.132	13-21
AA8	0.158	9-10

Grades 100 times richer than those encountered are required for a reef target such as Argyle.

Background arsenic values varied from 10 to 200 ppm with the highest value of 660 ppm in AA1 at 17 - 18 metres. In some cases there is correlation between high gold and high arsenic (e.g. AA4, 7 - 8 metres), but typically there is no correlation.

Four anomalous values were encountered with the rock chip sampling. Two samples from the Argyle No. 1 South adit (53 metres in) recorded 10.02 and 9.03 g/tonne and two samples from the Argyle No. 2 South adit (21 metres in) scored 4.93 and 3.15 g/tonne. The remaining 34 samples ranged from 0.026 - 0.759, with 21 samples giving values of less than 0.1 g/tonne. There

is no correlation between arsenic and gold in these samples.

In summary, the results of the programme were as follows :

- 1) Occasional, erratic ore grade gold mineralisation was encountered in the reef rocks but overall the grades were very low and the Company considers the target to be proven uneconomic.
- 2) No evidence of a halo of low grade mineralisation around a relatively rich quartz vein zone was encountered.

PROPOSED FUTURE WORK

In Year 6 the emphasis will be on continuing the regional structural study and on mapping and sampling targets large enough to interest a joint venture partner. The prospect level component of the Year 6 budget will be spread over several targets, with the aim being to upgrade one or more prospects to the point where appraisal drilling programmes are justified.

Targets already defined from gridding, mapping and surface and underground chip sampling are Tower Hill, Tower Hill Freehold and the Cardinal-Buckland-Alpine Trend.

K.C. MORRISON PTY. LTD.

Geological Exploration — Minerals and Fossil Fuels

10th October, 1989

The Director,
Department of Mines,
P.O. Box 56,
ROSNY PARK 7018

ATTENTION: Mr. P. Wrigley

Dear Sir,

Re: EL 55/83 - Outstanding Sample and Drill Hole Locations

I am aware that AMG co-ordinates for drillholes and rock chip samples at the Argyle prospect have not been submitted and that they are required by the Department.

Accurate co-ordinates require a surveyor and in my view it is unlikely that the licence holder would be prepared to employ a surveyor on a commercial basis.

In the interest of keeping the E.L. in good standing for the current operator, Pegasus Gold Australia Ltd., I have tried to estimate on the Tasmap 1:25,000 Mangana sheet, the locations of collar sites and mine entrances, by scaling down from the adapted Finucane 1935 maps of the prospect, as used in the Year 5 Annual Report.

The resultant locations are as follows:-

Drill Hole Collar

AA1	574975E	5392620 N
AA2	575082E	5392728 N
AA3	575030E	5392677 N
AA4	575076E	5392778 N
AA5	575028E	5392867 N
AA6	575030E	5392860 N
AA7	574985E	5392917 N
AA8	575094E	5392737 N

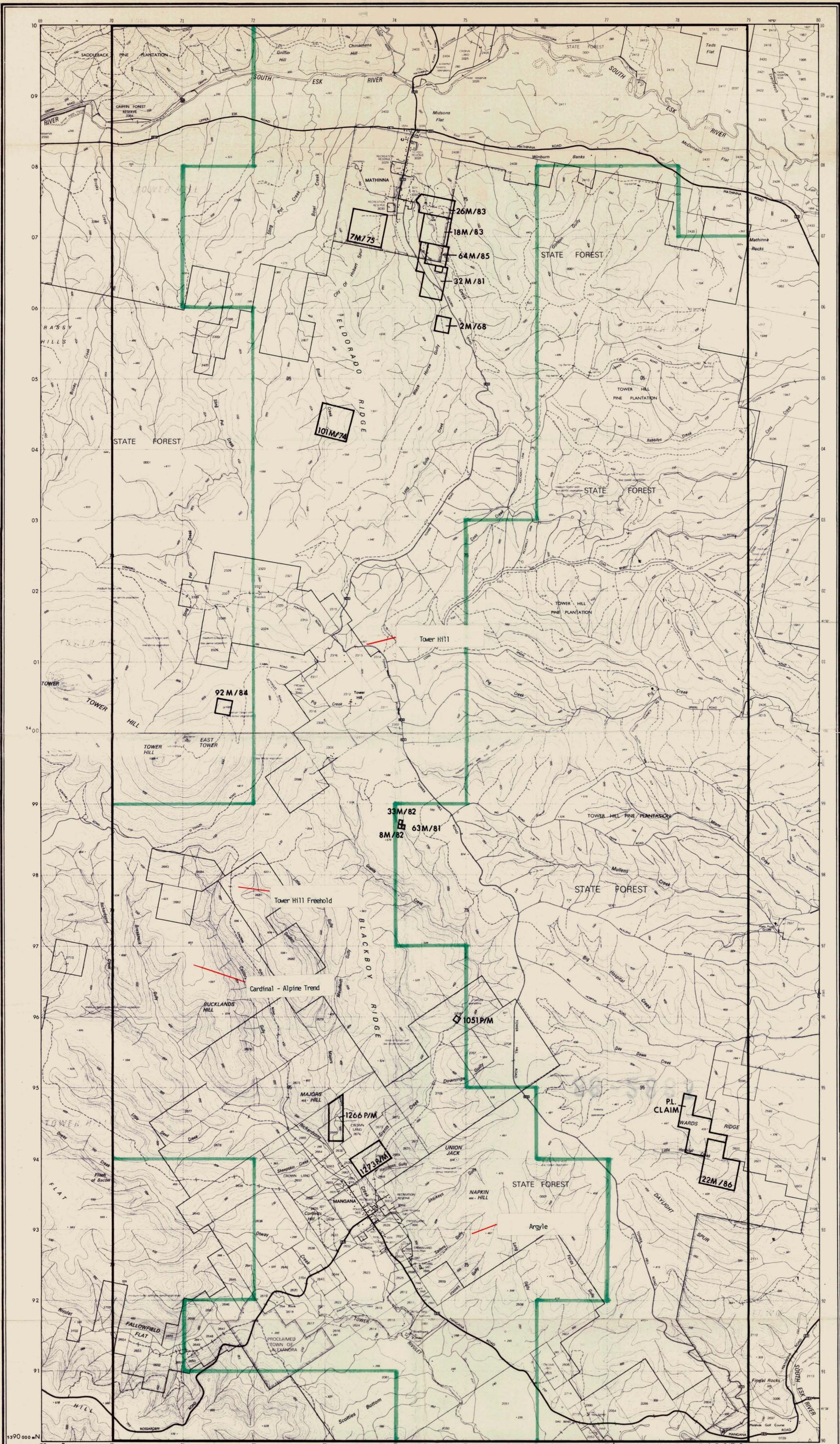
Mine Adit Entrance

Golden No. 2 North	574746E	5392925N
Argyle No. 2 South	574978E	5392905N
Argyle No. 1 South	575025E	5392855N
South Golden	575168E	5392658N

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Date	

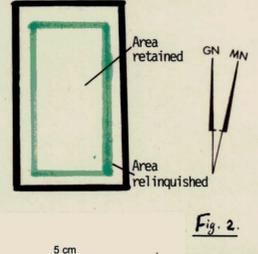
190 Macquarie Street
Hobart 7000 Tasmania
Phone: (002) 31 0492
Fax: (002) 23 5126

Append
to
88-2883



LEASE No.	OWNER	AREA
2M/68	C. & D. BESWICK	5 Ha
20M/74	EPOCH MINERALS EXPLORATION N.L.	1 Ha
101M/74	C. & D. BESWICK	21 Ha
1051P/M	G. H. PHELAN	1 Ha
32M/81	EPOCH MINERALS EXPLORATION N.L.	18 Ha
63M/81	R. PHELAN	1 Ha
8M/82	T. P. PHELAN	1 Ha
33M/82	J. WALKER	1 Ha
18M/83	M. F. GRAHAM, A. J. GRIFFIN & P. REICHER	16 Ha

LEASE No.	OWNER	AREA
26M/83	M. F. GRAHAM, A. J. GRIFFIN & P. REICHER	14 Ha
92M/84	J. G. D. CHILCOTT & S. PHELAN	2 Ha
64M/85	EPOCH MINERALS EXPLORATION N.L.	8 Ha
22M/86	C. T. WALLIS	25 Ha
1266P/M	F. WHITE (Appl.)	12 Ha
1273P/M	M. J. ROET (")	15 Ha
TENEMENT		
PL	C. T. WALLIS	25 Ha



ALCASTON MINING N.L.

E.L. 55/83 - Mangana

BASE MAP

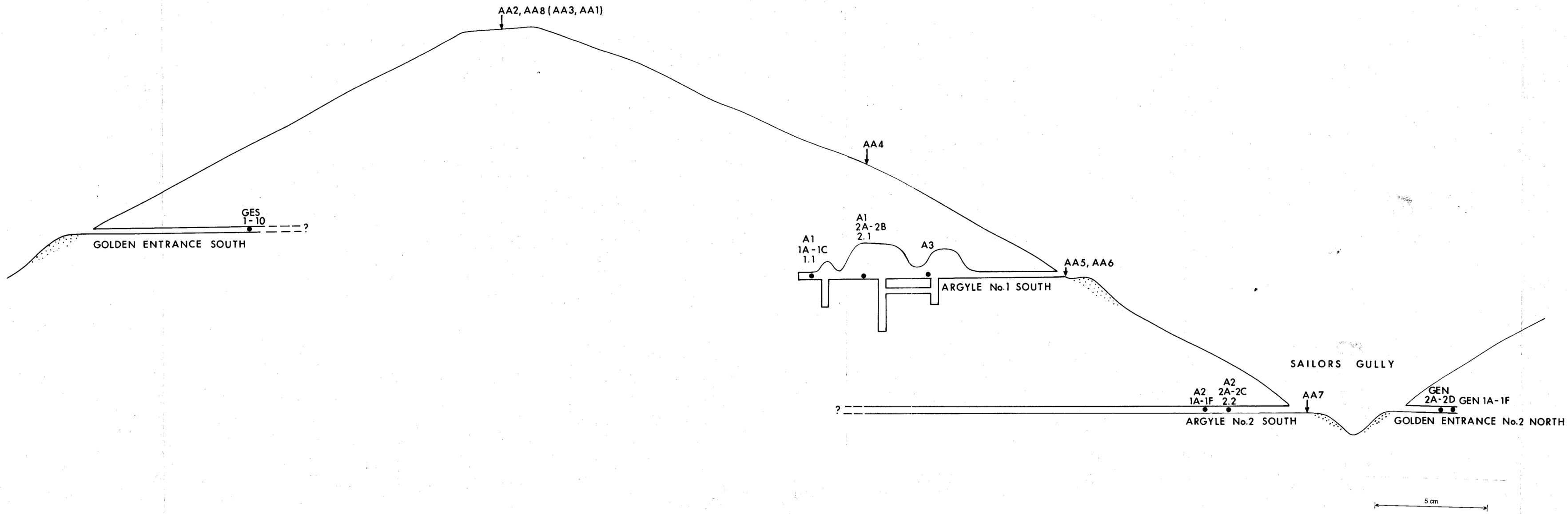
8219

SCALE 1:25,000

KM/JMT

5 cm

8221



ARGYLE REEF COMPOSITE ROCK CHIP SAMPLES		
Sample No.		Au (ppm)
A1	1A	0.061
	1B	0.105
	1C	0.051
A1	1.1	0.151
	2A	10.020
A2	2B	9.030
	2.1	0.759
	3	0.203
	1A	0.070
	1B	0.050
	1C	0.079
A2	1D	0.066
	1E	0.050
	1F	0.107
	2A	4.930
	2B	0.072
	2C	3.149
A2	2.2	0.235
GES	1	0.042
	2	0.029
	3	0.031
	4	0.031
	5	0.055
	6	0.043
	7	0.036
	8	0.028
	9	0.026
	10	0.029
GEN	1A	0.328
	1B	0.309
	1C	0.161
	1D	0.168
	1E	0.151
	1F	0.144
	2A	0.111
	2B	0.085
2C	0.043	
2D	0.045	

A3 • Sample location and number
 AA7 ↓ Drill hole collar site, (AA3) outside plane of section

713021

ALCASTON MINING N.L.
 SCHEMATIC SECTION THROUGH ARGYLE REEF AND ALCASTON 1988 SAMPLE AND DRILL SITES - Adapted from Finucane, 1932.

Fig. 6.

ALCASTON MINING N.L.

SAMPLE LOG SHEET

TENEMENT: EL 55/83	LOCATION / SITE	SAMPLE TYPE	SAMPLED BY: KM (DATE) 12.9.88	ASSAY SPECIFICATIONS Au - Fire Assay Fusion/AAS (50g) ppm As - Vapour Generation/AAS ppm
PROJECT: ARGYLE	AA 8 NOT SURVEYED	PERCUSSION DRILL CUTTINGS	LOGGED BY: KM (DATE) 12.9.88	

27

SAMPLE No.	DESCRIPTION	Au	As						
0-1 mts	SLATE-pink grey, grey gm, yell, brn, speckled, weathered, no heavies, no v. qtz	7	.084						
1-2	SLATE-as above	4	.015						
2-3	SLATE/SANDSTONE-70/30 slate as above with lustrous surfaces. SST. lt gm brn, f.gmd, no v. qtz	6	.024						
3-4	SANDSTONE-brn, fe oxide, pink brn mottled, f.gmd, 10% slt. as above, no heavies, no mags, no v. qtz	4	.015						
4-5	SLATE/SANDSTONE-70/30 slt brn pink, lt gm, speckled, 30% SST as above	2	.012						
5-6	SANDSTONE-1t gm grey-brn, speckled, mottled (pits due to oxid pyrite?) 10% slt. as above	8	.014						
6-7	SLATE-pink brn, lt grey, lustrous, no v. qtz, no heavies	16	.012						
7-8	SLATE/SANDSTONE-70/30 poor cleavage, multi coloured as above	20	.014						
8-9	SLATE-as above, heavily pitted, no v. qtz, no heavies	32	.056						
9-10	SLATE-as above	42	.158						
10-11	SANDSTONE-grey brn, yell brn, f.gmd, well sorted qtz SST grading to qtz, 10% slt tr. v. qtz	54	.090						
11-12	SANDSTONE-as above 1-5% v. qtz, minor poor cleavage, no heavies	21	.015						
12-13	SANDSTONE-as above, more gm grey SST, no v. qtz, 5% slt. no heavies	13	.039						
13-14	SANDSTONE/SLATE-50/50 as above	22	.023						
14-15	SLATE/SANDSTONE-70/30 SST as above, slt grey, pink brn, less pitting, speckling, no v. qtz	20	.025						
15-16	SANDSTONE-as above, 10% speckled slate, tr. v. qtz, no heavies	23	.012						
16-17	SANDSTONE-as above, more ol. gm brn, no v. qtz	13	.017						
17-18	SANDSTONE-ol. gm brn, uniform f.gmd, qtz SST, 5% v. qtz, tr. slate, no heavies	22	.018						
18-19	SANDSTONE-pink brn-ol. gm brn, minor poor cleavage, lumps frags, 1-2% v. qtz	14	.009						
19-20	SANDSTONE-as above	13	.008						
20-21	SANDSTONE-as above + 10% weathered, corroded, embossed lt grey brn slt. tr. v. qtz	76	.007						
21-22	SANDSTONE-as above, no heavies, no mags	10	.006						
22-23	SLATE/SANDSTONE-60/40 slt. gm grey, grey yell brn, speckled, pitted, SST as above, no v. qtz	18	.015						
23-24	SLATE/SANDSTONE-70/30 as above	10	.053						
24-25	SLATE/SANDSTONE-60/40 as above	9	.017						
25-26	SLATE/SANDSTONE-70/30 as above, SST v.f.-f. gmd. shows more cleavage, no v. qtz	9	.022						
26-27	SANDSTONE-yell brn grey-gm brn, lumpy to platy. v.f.-m. (mostly f.) qtz SST, 10% slt. no v. qtz	39	.017						
27-28	SANDSTONE-as above	18	.012						
28-29	SANDSTONE-as above	18	.014						
29-30	SANDSTONE-as above, tr. brn qtz, tr. slate, no v. qtz, no heavies	3	.012						

713022

30-31 SLATE/SANDSTONE-50/50 slt. lt brn-grey brn, speckled in part, SST as above grading to grey speckled qtz 6 .010 EOH

ALCASTON MINING N.L.

SAMPLE LOG SHEET

713023

13

TENEMENT: EL 55/83	LOCATION/ SITE	SAMPLE TYPE	SAMPLED BY: KM (DATE) 5/9/1988	ASSAY SPECIFICATIONS			
	AA1, not surveyed	PERCUSSION DRILL CUTTINGS	LOGGED BY: KM (DATE) 5/9/1988	Au- Fire Assay Fusion/AAs (50g) ppm As-Vapour Generation/AAs ppm			

SAMPLE No.	DESCRIPTION	As	Au						
0-1 MTS	SLATE-lt grey-yell brn, red speckled, kinks in cleavage, rare v. qtz, no heavies, no magnets	120	.027						
1-2	SLATE-as above, impart silicified, no v. qtz	100	.036						
2-3	SLATE-red brown speckled texture, minor v. qtz	82	.012						
3-4	SLATE-as above, part silicified (quartzite) tr. v. qtz	210	.036						
4-5	SLATE-as above, less ferrug staining	190	.033						
5-6	QUARTZITE-lt grey, minor red brn, speckled, abund f-m sand, tr. f. v. t. mica, no heavies	100	.010						
6-7	QUARTZITE-as above, minor slate with poor cleavage, tr. v. qtz, no magnet, no heavies	70	.012						
7-8	QUARTZITE-as above, hard with minor narrow qtz veins, minor slate	120	.020						
8-9	QUARTZITE-lt grey, sst-derived, minor slate with poor cleavage	140	.030						
9-10	QUARTZITE/VEIN QUARTZ-grey brn, ferrug, oxid. tr. v. f. black magnet, debris	560	.075						
10-11	SLATE-lt grey-grn grey, ?silty, poor cleavage, common quartzite frags, minor v. qtz	360	.061						
11-12	QUARTZITE-f. sst derived, 50% lt grey, 50% oxide brn, poor cleav, minor v. qtz no heavies	170	.021						
12-13	QUARTZITE/VEIN QUARTZ-quartzite, lt grey, angular lumpy frags, massive, 30% v. qtz	240	.046						
13-14	SLATE-lt grey, minor dk grey, ferrug staining, minor quartzite, lt grey, tr. v. qtz	140	.046						
14-15	SLATE-green grey, ferrug staining, abund. v. qtz, broken, no heavies, non magnet	240	.035						
15-16	SLATE-grey brn, poor cleav, minor quartzite, f/sand, silic slate, tr. graphitic slate, minor v. qtz	180	.026						
16-17	SLATE-brn, yellow grey, mottled, heavily weathered, common v. qtz, no heavies	400	.104						
17-18	SLATE-as above, common fe OH ppt, non magnet, common v. qtz	660	.084						
18-19	SLATE-lt grey-brn, green grey, minor quartzite (f. sst) with 1mm qtz veinlets, minor v. qtz	130	.043						
19-20	SLATE-brn grey, abund, fe OH ppt, common quartzite, grey green (f. sst) common v. qtz, no heavies	460	.065						
20-21	SLATE-brn grey-green grey less ferrug, minor v. qtz	420	.071						
21-22	QUARTZITE-(f. sst) brn grey, grey green, minor v. qtz	430	.095						
22-23	SLATE-minor quartzite, common v. qtz, no heavies	130	.046						
23-24	SLATE-grey green, brn grey, mottled, minor v. qtz	130	.032						
24-25	SLATE-as above, minor v. qtz (contamination?)	500	.049						
25-26	SLATE-red grey, tr. v. qtz no heavies	140	.019						
26-27	SLATE-as above, minor red stained quartzite t. f. sand	75	.012						
27-28	SLATE- as above (?base oxidation is 28m)	62	.010						
28-29	SLATE-grey silicif. no sand	52	.005						
29-30	SLATE-green grey, siliceous, minor red stained slate, minor quartzite, tr. v. qtz	52	.010						
30-31	SLATE/VEIN QUARTZ-slate as above, abund v. qtz (30%)	78	.329						

EOH

ALCASTON MINING N.L.

SAMPLE LOG SHEET

713024

TENEMENT: EL55/83	LOCATION/ SITE	SAMPLE TYPE	SAMPLED BY: KM (DATE) 6/9/1988	ASSAY SPECIFICATIONS
	AA2 NOT SURVEYED	PERCUSSION DRILL CUTTINGS	LOGGED BY: KM (DATE) 6/9/1988	Au-Fire Assay Fusion/AAS (50g) ppm As-Vapour Generation/AAS ppm
PROJECT: ARGYLE				

SAMPLE No.	DESCRIPTION	As	Au						
0-1 mts	SLATE-grey gm,brn grey,f grained,common platy qtzite, tr.v.qtz,no heavies	34	.020						
1-2	QUARTZITE-grey gm,pink brn,part ferrug,grading to f.sst.,tr.v.qtz,minor slate,no magnets	21	.011						
2-3	QUARTZITE-as above, less ferrug staining, no v.qtz	11	.009						
3-4	QUARTZITE-as above,minor cleavage in qtzite. tr.slate, tr. v. qtz	22	.009						
4-5	SLATE-ol.gm,no silt, tr. v. qtz, no heavies	11	.012						
5-6	QUARTZITE-grey gm, brn, poorly developed cleavage, 10% v. qtz	4	.007						
6-7	QUARTZITE-brn grey, minor pink, tr.v.qtz, no heavies, no slate, no magnets	120	.009						
7-8	QUARTZITE-grey gm,50% brn (ferrug)small cuttings, tr.v.qtz	12	.011						
8-9	QUARTZITE-med gm brown,some sand boundaries visible	7	.008						
9-10	SLATE-grey gm grey, grey brn, mottled,minor f.gmd.qtzite-silic. sst, tr.v.qtz	7	.010						
10-11	SLATE-lt.grey,grey brn,dk grey, minor pink,no silt, tr.v.qtz	14	.012						
11-12	VEIN QUARTZ-wht,massive,minor fe staining (no vugs) 60%,QUARTZITE (sst)QUARTZITE(sst)+fissile slate 40%	9	.010						
12-13	SLATE-grey,brn grey,minor f.qtzite,vein qtz as above	7	.007						
13-14	SLATE-as above. (down hole contamination?)	11	.009						
14-15	SLATE-as above,mainly dk grey, minor brn, minor v.qtz, f. sst	14	.010						
15-16	QUARTZITE-grey gm,grey f. gmd. tr. slate, 10% v.qtz,abund qtz sand, no heavies	13	.008						
16-17	QUARTZITE-as above,<5% vein qtz, abund fe staining	9	.007						
17-18	SLATE-dk grey, fine flakes,pitted,50% oxide,minor qtzite, tr.v.qtz, no heavies	28	.007						
18-19	SLATE-mainly lt green-grey,abund fe staining, minor dk grey(redox banding?) tr.v.qtz	38	.021						
19-20	SLATE-as above, minor pink,commonly lustrous flakes, tr.v.qtz	50	.024						
20-21	SLATE-as above, sl. increase v. qtz	52	.039						
21-22	SLATE-as above, sl. increase v. qtz	56	.022						
22-23	SLATE-mainly brn-lt grey, no v. qtz	35	.066						
23-24	SLATE-lt green grey-brn grey, minor v.qtz, minor f. qtzite	18	.023						
24-25	QUARTZITE-grey,brn grey,lightly mottled, poorly developed cleavage, tr.v.qtz	4	.009						
25-26	QUARTZITE-as above mainly brn (ferrug)	4	.006						
26-27	QUARTZITE/SLATE-50/50-lt gm grey, slate grading to platy qtzite	9	.013						
27-28	QUARTZITE-SLATE-as above tr. v.qtz	1	.015						
28-29	SLATE-70% brn grey, 30% brn grey, f. gm qtzite, no v. qtz	7	.012						
29-30	QUARTZITE/SLATE-brn grey, slate mottled, tr. v. qtz, qtzite grades to sst	8	.010						

ALCASTON MINING N.L.

SAMPLE LOG SHEET

713025

TENEMENT : EL 55/83	LOCATION / SITE	SAMPLE TYPE	SAMPLED BY: K.M. (DATE) 7/9/1988	ASSAY SPECIFICATIONS Au- Fire Assay Fusion/AAS (50g) ppm As- Vapour Generation/AAS ppm
PROJECT : ARGYLE	AA 3 NOT SURVEYED	PERCUSSION DRILL CUTTINGS	LOGGED BY: K.M. (DATE) 7/9/1988	

SAMPLE No.	DESCRIPTION	Ag	Au						
0-1 mts	QUARTZITE-grey, brn grey, minor red brn, cleaved, 5-10% v. qtz, ferrug. stained, no heavies	14	.014						
1-2	QUARTZITE/SLATE-60% qtz as above, 30% grey-brnz slate, 5% + v. qtz, no heavies, no magnets	12	.008						
2-3	QUARTZITE-lt grey, brn grey, cleaved, grading to f. qtz sst, tr. v. qtz, no heavies, no magnets	9	.013						
3-4	SLATE-lt grey, brn grey, minor gm grey, shiny surfaces, pitted with ferrug pits, no v. qtz	31	.010						
4-5	SLATE/VEIN QUARTZ-50% slate as above, 50% v. qtz, massive, partly fe. stained	46	.021						
5-6	SLATE-silver grey, gm grey, brn grey, speckled, pitted, minor platy qtz, 5% v. qtz	18	.016						
6-7	SLATE-as above, 1-2% v. qtz	31	.024						
7-8	SLATE/QUARTZITE-60/40 slate as above, quartzite grey, f. sst derived, no v. qtz	35	.022						
8-9	SLATE/QUARTZITE/VEIN QUARTZ- as above with 20% v. qtz, heavy fe. oxide	19	.013						
9-10	QUARTZITE-lt grey-brn grey, f. grnd. minor slate (contai. ?) no v. qtz, no heavies	25	.014						
10-11	SLATE-grey, brn grey, speckled, pitted, lustrous surfaces (sub phyllitic)	35	.010						
11-12	SLATE-as above, 3-5% v. qtz	18	.012						
12-13	SLATE-gm grey, minor brn, fe stained, tr. v. qtz, no heavies, slate lustrous, pitted	11	.008						
13-14	SLATE-as above	5	.007						
14-15	SLATE-as above, abund red brn mottling	1	.007						
15-16	QUARTZITE/SLATE-50/50 mottled red brn, brn grey, crenulated cleavage, kinks, no v. qtz	1	.009						
16-17	SLATE-brn, grey brn, lt grey + red mottling, pitted, 10% quartz as above, tr. v. qtz	15	.006						
17-18	SLATE-gm grey, abund red mottling, minor fe staining, no heavies, no silt	14	.007						
18-19	SLATE-as above, red brn clay, no fines, tr. v. qtz	9	.006						
19-20	SLATE-as above no v. qtz	2	.005						
20-21	SLATE/QUARTZITE-70/30 slate as above, quartzite lt grey, f. grnd (sst) no v. qtz, no heavies	<1	<.005						
21-22	QUARTZITE-brn, lt grey, yell. brn-grey, red mottling, speckling, no v. qtz	<1	<.005						
22-23	QUARTZITE- as above	<1	.009						
23-24	QUARTZITE/SLATE-70/30 qtz as above, slate grey brn-lt grey+red spotting, tr. v. qtz, no heavies	19	.011						
24-25	QUARTZITE/SLATE-60/40 + minor v. qtz, some slate, heavily corroded with fe weathering, minor 1mm veinlets in quartzite.	65	.076						
25-26	QUARTZITE/SLATE-70/30 as above with tr. v. qtz, qtz grading to f. sst	12	.077						
26-27	SLATE/SANDSTONE-70/30 slate gm grey, minor mica (no mottling) no v. qtz, no heavies, no mags	7	.088						
27-28	SANDSTONE-lt grey, grey brn, massive f. grained, uniform, minor poor cleavage, minor red speckling	<1	.009						
28-29	SANDSTONE (80%) as above + minor 1-2mm qtz veinlets, 10% massive wht-grey gm v. qtz, 10% slate	2	.007						

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SAMPLE LOG SHEET

713027

TENEMENT: EL 55/83		LOCATION / SITE	SAMPLE TYPE	SAMPLED BY: K.M. (DATE) 8.9.88	ASSAY SPECIFICATIONS							
PROJECT ARGYLE		AA5 NOT SURVEYED	PERCUSSION DRILL CUTTINGS	LOGGED BY: K.M. (DATE) 8.9.88	Au - Fire Assay Fusion/AAS (50g) ppm As - Vapour Generation/AAS ppm							
SAMPLE No.	DESCRIPTION				As	Au						
0-1 mts	SLATE-dk grey,yell brn,minor sst.frgs,abund. surface contam.				40	.018						
1-2	SLATE/QUARTZITE-70/30 slate as above,lt med qu zt. massive, weathered, no v. qtz				17	.042						
2-3	SLATE/SANDSTONE/QUARTZITE-60/20/20,ferrug, weathered, no v. qtz, no heavies				15	.021						
3-4	SLATE/QUARTZITE-heavily weathered,mottled,wht grey clay,bleached rock frags,no v.qtz, no heavies				15	.143						
4-5	SLATE/QUARTZITE-as above, some slate pitted, embayed				20	.033						
5-6	SLATE-dk grey,brn,part silicit,heavily weathered,,pitted, 10-20% v.qtz, no heavies				72	.125						
6-7	SLATE-as above plus weathered clay balls				130	.124						
7-8	SLATE/SANDSTONE-50?50 slate as above,sst dk grey-grey brn,weathered,grading to qtztr. v. qtz				80	.041						
8-9	SANDSTONE=grey brn,mottled,speckled,f.gr ,some cleavage developed,no v.qtz				41	.028						
9-10	SANDSTONE-as above				18	.016						
10-11	SANDSTONE-as above				19	.015						
11-12	SANDSTONE/QUARTZITE/SLATE 45/45/10 sst as above grading to blue grey qtztr.slate grey brn pitted				30	.015						
12-13	SANDSTONE/QUARTZITE-as above tr. v.f. sulphide				32	.012						
13-14	SANDSTONE/SLATE 50/50 sst as above, slate dk grey-grey brn, mottled, speckled				28	.014						
14-15	SANDSTONE-grn brn, mottled, f.grnd, tr.v.qtz,no heavies				23	.019						
15-16	SANDSTONE-as above, slightly finer grained, no v. qtz				16.	.016						
16-17	SANDSTONE=dk grey, grey brn mottled,pitted, f.grnd,minor cleavage,tr.v.f.pyrite				26	.044						
17-18	SANDSTONE-as above,grading to blue grey qtztr				9	.021						
18-19	SANDSTONE/SLATE-70/30 sst as above.slate black,soft. tr.v.f.sulphide				10	.011						
19-20	SANDSTONE-dk grey (50%) mottled grn brn (50%) uniform f. grnd,minor cleavage. tr.v.qtz. tr. v.f. pyrite				12	.012						
20-21	SANDSTONE/QUARTZITE-70/30 sst as above,grading to lt-med grey, qtztr. tr.v.f. sulphide				11	.026						
21-22	SANDSTONE-as above, mostly mottled brn grn, 10% grey qtztr				8	.026						
22-23	SANDSTONE/QUARTZITE/SLATE-80/10/10, sst, qtztr. as above slate dk grey, pitted,part pyrite				13	.010						
23-24	SANDSTONE/QUARTZITE grn brn,mottled,minor blue grey (Redox banking?) grading in part to qtztr.tr.v.f.sulph				11	.006						
24-25	SANDSTONE-blue grey, f.grnd, qtztr sst, tr.v.f. pyrite, no porosity,minor poor cleavage				8	.008						
25-26	SANDSTONE-as above + tr.v.qtz				7	.009						
26-27	SANDSTONE-as above,mainly lt grey,minor grading to qtztr,no v.qtz, tr.v.f.pyrite				12	.014						
27-28	SANDSTONE-mainly mottled grn brn,minor blue grey,sst as above,5% grey slate,1-3%v.qtz, tr.v.f.pyrite				23	.010						
28-29	QUARTZITE/SANDSTONE=lt grey-yellow brn,uniform f. grnd, silic, no sulphides				10	.008						
29-30	QUARTZITE/SANDSTONE-as above, no sulphide				10	.010						
30-31	SANDSTONE/QUARTZITE-60/40 blue grey-brn ferrug,uniform qtztr sst as above. no sulphide				9	.009						ECH

TENEMENT: EL55/83	LOCATION / SITE	SAMPLE TYPE	SAMPLED BY: K.M. (DATE) 7.9.88	ASSAY SPECIFICATIONS			
PROJECT: ARGYLE	AA4 NOT SURVEYED	PERCUSSION DRILL CUTTINGS	LOGGED BY: K.M. (DATE) 7.9.88	Au - Fire Assay Fusion/AAS (50g) ppm As - Vapour Generation/AAS ppm			

SAMPLE No.	DESCRIPTION	As	Au						
0-1 mts	SLATE-grey brn grey, partly oxide, minor pitting, minor quartzite frags, tr.v.quartz, no heavies	53	.015						
1-2	SANDSTONE-grey, grey brn, f.grnd, massive, partly silicified, minor slate, no v.quartz, no heavies	83	.028						
2-3	SANDSTONE/SLATE-50/50 weathered, poor cleavage in slate, sst as above, tr.v.quartz	120	.014						
3-4	SANDSTONE/SLATE-as above	84	.027						
4-5	SLATE-dk grey, lt. grey + red brn speckling, fe oxide staining, no mags, no heavies	51	.026						
5-6	SLATE-as above	76	.025						
6-7	SLATE-90% as above, 10% sst, grey, f.grnd, no v. quartz	120	.037						
7-8	SLATE-dk grey, brn grey, minor slate, 5% v.quartz, some quartz in slate. no heavies	140	.155						
8-9	SLATE-blk-dk grey, soft, abund blk shales, 5% v.quartz, no heavies	53	.065						
9-10	SLATE-as above, minor fe staining	45	.065						
10-11	SLATE-as above, no v. quartz	54	.048						
11-12	SLATE-as above, minor v. quartz	120	.025						
12-13	SANDSTONE-brn, gm grey, massive, angular frags, minor blk slate, tr. silv. ?sulphide. no mags	16	.015						
13-14	SANDSTONE-grey, grey brn, as above, no v. quartz, no heavies, no mags	14	.012						
14-15	SANDSTONE/SLATE-50/50 gm grey, minor fe staining, no v. quartz	15	.012						
15-16	SANDSTONE-ol. gm-brn, lumpy, ungl frags. no v. quartz, no heavies	11	.017						
16-17	SANDSTONE-as above	12	.011						
17-18	SANDSTONE-ol. gm-brn gm, as above (80%), minor slate, brn grey-dk grey, tr.v.quartz	17	.012						
18-19	SANDSTONE-med. grey, uniform, f-v.f. massive-poorly cleaved, no v. quartz	13	.016						
19-20	SLATE-dk grey, braggell-grey, med blue grey (30%), 5% v.quartz, minor slate, pitted, no heavies	24	.012						
20-21	SANDSTONE-blue grey-grey brn, mottled, massive, grading to quartz, f.v.f., no v.quartz, no heavies	12	.017						
21-22	SANDSTONE-as above	13	.013						
22-23	SANDSTONE/SLATE-50/50 sst massive, grading to quartz as above slate grey-brn, pitted, 5% quartz	40	.012						
23-24	SANDSTONE-as above, minor slate as above, 5% v. quartz, no heavies	16	.017						
24-25	SANDSTONE=50% pl, brn, speckled, 50% grey blue grey, v.poor cleavage in part, no v. quartz	12	.011						
25-26	SANDSTONE- ol brn, mottled, as above, tr.v.quartz	14	.012						
26-27	SANDSTONE-as above, no v. quartz	12	.012						
27-28	SANDSTONE- as above	17	.010						
28-29	SANDSTONE-(90%) grey-ol brn, f-v.f., part pitted, embayed, 10% slate, lt grey-brn, pitted, tr.v.quartz	29	.022						
29-30	SANDSTONE-as above, minor slate, 5% v.quartz, tr. ol-brn quartz	21	.012						
30-31	VEIN QUARTZ/SANDSTONE/SLATE-massive white, uniform v.quartz/(50%), sst as above (30%), slate as above (20%)	15	.012						ECH

ALCASTON MINING N.L.

SAMPLE LOG SHEET

713029

TENEMENT: EL 55/83	LOCATION/ SITE	SAMPLE TYPE	SAMPLED BY: KM (DATE) 10/9/88	ASSAY SPECIFICATIONS
PROJECT: ARGYLE	AA 7 NOT SURVEYED	PERCUSSION DRILL CUTTINGS	LOGGED BY: KM (DATE) 10/9/88	

SAMPLE No.	DESCRIPTION	Au	As						
0-1 mts	Heavily weathered,contaminated mixed lithologies-SST, qtz, slt. v. qtz ironstone	26	.015						
1-2	as above	23	.019						
2-3	QUARTZITE-1t blue grey,brn grey,derived from f.qtz SST,no v.qtz,no heavies,no mags	59	.023						
3-4	SLATE-dk grey,blue grey,brn grey,abund pits speckling,5% v.qtz no heavies	65	.014						
4-5	SLATE-dk grey,greasy feel (graphite?) abund blk slimes,10% v.qtz,abund f.v.f.sulphide	74	.013						
5-6	SLATE-as above plus heave contamination from surface, (water table 4 metres)	180	.016						
6-7	QUARTZITE-dk grey,pyrite,hard angular frags. tr.poor cleavage, tr.v.qtz	90	.017						
7-8	QUARTZITE- as above plus 10% dk grey slate, 5-10% v.qtz minor veinlets in qtz	88	.027						
8-9	SANDSTONE-med dk grey,pyrite, 20% vein quartz,SST mostly f minor v.f. down hole contam.	89	.022						
9-10	SANDSTONE/SLATE/VEIN QUARTZ-40/40/20 SST with slt pyrite,abund qtz v in slt less dk slimes	190	.037						
10-11	SANDSTONE/SLATE/VEIN QUARTZ-as above,minor cleavage in v.f. SST, common v.f. sulphide	170	.053						
11-12	SANDSTONE/SLATE/VEIN QUARTZ-as above abund down hole contam (includ v.qtz)	110	.063						
12-13	SANDSTONE/SLATE/VEIN QUARTZ-as above, common v.f.sulphide	93	.063						
13-14	SLATE/VEINQUARTZ/SANDSTONE-60/30/10 all lithol as above with abund contam	210	.125						
14-15	VEIN QUARTZ/SLATE/SANDSTONE-40/30/30 qtz whit, massive veins plus mixed with wall rock abund pyrite blk (graphite?) slimes	400	.274						
15-16	SLATE/VEIN QUARTZ/SANDSTONE - 50/40/10 as above, v.high pyrite tr. mag debris (contam?)	450	.225						
16-17	SANDSTONE/SLATE/VEIN QUARTZ- 50/30/20 as above abund pyrite								
17-18	SLATE-blck,graphitic? abund slimes, pyrite 5-10% SST 10-20% v. qtz	350	.180						
18-19	SLATE- as above	240	.122						
19-20	SLATE/VEIN QUARTZ/SANDSTONE-70/20/10 as above	250	.121						
20-21	SLATE/VEIN QUARTZ-qtz as veins plus mixed with slate,abund dk slimes,abund pyrite	260	.132						
21-22	SLATE-blck, dk grey,pyritic graphitic? 10-20 v. qtz in part cleavage concordant abund slimes	180	.084						
22-23	SLATE-as above, abund pyrite, minor grey qtz	160	.071						
23-24	SLATE-as above plus 10-20% vein qtz abund pyrite	150	.084						
24-25	SLATE/VEIN QUARTZ/SANDSTONE-65/25/10 slt as above plus slickensides, SST med grey,grading to qtz common pyrite	120	.055						
25-26	SLATE/SANDSTONE/VEIN QUARTZ- 60/20/20 as above v. high pyrite	110	.056						
26-27	SANDSTONE/SLATE/VEIN QUARTZ-as above	110	.046						
27-28	SANDSTONE/SLATE/VEIN QUARTZ-70/20/10 as above (contam bias of slt v. qtz)	88	.043						

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SAMPLE LOG SHEET

713030

TENEMENT: EL 55/83	LOCATION/SITE	SAMPLE TYPE	SAMPLED BY: K.M. (DATE) 9.9.88	ASSAY SPECIFICATIONS
PROJECT: ARGYLE	AA6 NOT SURVEYED	PERCUSSION DRILL CUTTINGS	LOGGED BY: K.M. (DATE) 9.9.88	Au - Fire Assay Fusion/AAS (50g) ppm As - Vapour Generation/AAS ppm

SAMPLE No.	DESCRIPTION	As	Au						
0-1 mts	SLATE-grey brn-yell, pink grey, mottled, weathered, no v. qtz, no heavies	74	.015						
1-2	SLATE-as above + abund. mottled clay, tr. v. qtz	24	.020						
2-3	QUARTZITE/SLATE-50/50, ferrug, heavily weathered, slate pitted, no heavies	73	.028						
3-4	SLATE-dk grey, lt grey, brn yell, pitted, weathered, no v. qtz, no heavies	77	.027						
4-5	SANDSTONE/SLATE-70/30 sst f. grnd, pitted angular, no porosity, slate as above	58	.026						
5-6	SLATE-med dk grey + 50% brn ferrug, 20% massive whit v. qtz, no heavies	50	.081						
6-7	VEIN QUARTZ/SLATE/SANDSTONE-50/40/10 slate as above, sst. grey brn, v. f.-f. semi qtz no heavies	78	.145						
7-8	SLATE-dk grey, lt grey, brn grey, mottled, no v. qtz	96	.093						
8-9	SLATE-as above, minor pitting	73	.156						
9-10	SLATE-as above, abund pitting on larger frags	102	.097						
10-11	SLATE/SANDSTONE-slate as above, sst, ferrug, weathered, minor cleavage, 20% v. qtz	110	.084						
11-12	SLATE-black, dk grey, brn ferrug, 3-5% v. qtz	83	.058						
12-13	SLATE-as above, no v. qtz	63	.051						
13-14	SANDSTONE/SLATE-60/40 sst dk grey, v. f.-f. hard, speckled, slate as above, no v. qtz	81	.022						
14-15	SANDSTONE-dk grey, blue grey, grn brn, mottled, f. grnd. minor poor cleavage, tr. v. qtz, tr. sulph(arsenophyrite)	44	.017						
15-16	SANDSTONE-as above, no sulphide	43	.015						
16-17	SANDSTONE/SLATE-60/40 sst, med dk grey, mottled, slate, dk grey-brn, no v. qtz, tr. v. f. arsenop. yrite	20	.014						
17-18	SANDSTONE-as above, tr. v. f. sulphide/?arsenopyrite no v. qtz	32	.017						
18-19	SANDSTONE/QUARTZITE-50/50 sst dk grey, as above, qtz med grey blocky frags, tr. v. f. sulphide	19	.015						
19-20	SANDSTONE/QUARTZITE/SLATE-60/20/20 sst mottled grey brn, f. grnd, qtz lt med grey (sst) slate grey blk speck	19	.014						
20-21	QUARTZITE=lt grey, blue grey, brn fe oxide, grading to f. sst tr. cleavage, no v. qtz, no sulphide	22	.013						
21-22	QUARTZITE/SANDSTONE-50/50 as above (more weathered rocks appear as sst)	15	.023						
22-23	SANDSTONE-grey blue grey, mottled brn grey, f. v. f. minor poor cleavage, grading to qtz, tr. sulphide	52	.015						
23-24	SANDSTONE-as above	21	.014						
24-25	SANDSTONE-as above, uniform f. grnd	40	.014						
25-26	SANDSTONE/SLATE-80/20 sst as above, slate blk-dk grey, small flakes, no v. qtz, no sulphide	36	.015						
26-27	SANDSTONE-blue grey-mottled brn grey, uniform f. grnd, hard, no porosity, tr. v. f. sulphide	20	.014						
27-28	SANDSTONE-as above + tr. v. qtz	22	.015						
28-29	SANDSTONE-as above,	31	.016						
29-30	SANDSTONE-as above, no v. qtz	41	.015						
30-31	SANDSTONE-as above, tr. v. qtz, tr. v. f. pyrite	38	.015						ECH

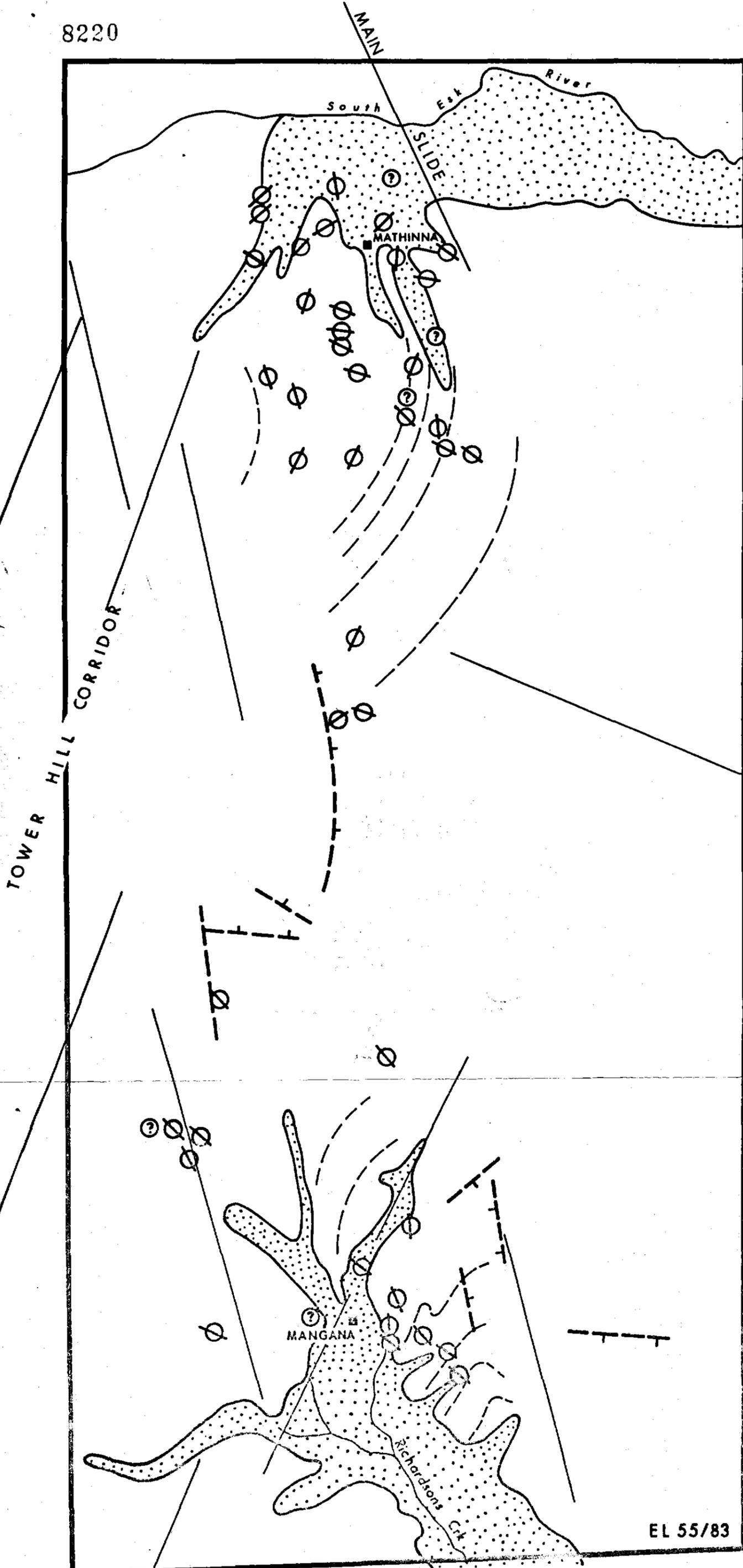
ALCASTON MINING N.L.

SAMPLE LOG SHEET

713033

TENEMENT: EL 55/83	LOCATION/ SITE	SAMPLE TYPE	SAMPLED BY: K.M. (DATE) 10/9/88	ASSAY SPECIFICATIONS	
	ARGYLE NO. 2 SOUTH ADIT	ROCK CHIP	LOGGED BY: K.M. (DATE) 10/9/88	Au- Fire Assay Fusion/AAS (50g) ppm As - Vapour Generation/AAS ppm	

SAMPLE No.	DESCRIPTION	As	Au						
A2 1A	27 metres from adit entrance	120	.070						
1B	Composite chip samples of quartz reef and wall rocks	76	.050						
1C	Composed of cleaved black/grey slates, quartzites	160	.079						
1D		110	.066						
1E		67	.050						
1F		220	.107						
A2 2A	21 metres from adit entrance	82	4.930						
2B		120	0.072						
2C	Lithologies as above	110	3.149						
A2 2.2	21 metres from adit entrance	130	.235						
	Footwall black slates, partly oxidised, ferruginous, with abundant quartz stringers								



LEGEND

-  Potentially prospective Cainozoic alluvials
-  Gold reef location and strike, from Threader, 1967.
? indicates orientation of reef unknown
-  Fault from Ben Lomand 1:50,000 sheet
-  Linear structure from satellite photo.
-  Fold structure from satellite photo. ●

5 cm

88 - 2883



ALCASTON MINING N. L.	
EL55/83 - STRUCTURAL GEOLOGY, GOLD REEFS AND PROSPECTIVE ALLUVIALS	
1: 50,000	
OCTOBER 1988	KM/JT

EL 55/83

Fig. 4

713035

ANALABS

713036

Phone (09) 458 7999

A Division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No. 999.53.08.05725

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

Alcoston Mining N.L.
P.O. Box 20
Fingal
Tasmania 7214

ORDER No.	PROJECT
DATE RECEIVED	RESULTS REQUIRED
15/09/88	ASAF

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
12	10/10/88	1	283

STATE OF SAMPLES	SAMPLE NUMBERS	PRE-TREATMENT							ANALYSIS		
		DRY	CRUSH	SPLIT	PUL-VERSE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
Various		PC	Prep: 006,010,011,012,013,015						As/114		
Various		PC							Au, AuChk/313		
Various		PC	Prep: 006,010,011,012,013,015						As/114		
Various		PC							Au, AuChk/313		

RESULTS TO

K.C. Morrison
Alcoston Mining N.L.
190 Macquarie St.
Hobart
Tasmania 7000

RESULTS TO

Alcoston Mining N.L.
P.O. Box 20
Fingal
Tasmania 7214

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	agua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemical means CHEM
flotation FI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP

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ANALYTICAL DATA

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TUBE No.	SAMP No.	As	Al	AlCh						
1	AA1 00-01	120	0.027	-						
2	AA1 01-02	100	0.036	-						
3	AA1 02-03	82	0.012	-						
4	AA1 03-04	210	0.036	-						
5	AA1 04-05	190	0.033	-						
6	AA1 05-06	100	0.010	-						
7	AA1 06-07	70	0.012	-						
8	AA1 07-08	120	0.020	-						
9	AA1 08-09	140	0.030	-						
10	AA1 09-10	560	0.075	-						
11	AA1 10-11	360	0.061	-						
12	AA1 11-12	170	0.021	-						
13	AA1 12-13	240	0.046	-						
14	AA1 13-14	140	0.046	-						
15	AA1 14-15	240	0.035	-						
16	AA1 15-16	180	0.026	-						
17	AA1 16-17	400	0.104	-						
18	AA1 17-18	660	0.084	0.084						
19	AA1 18-19	130	0.043	-						
20	AA1 19-20	460	0.065	-						
21	AA1 20-21	420	0.071	-						
22	AA1 21-22	430	0.095	-						
23	AA1 22-23	130	0.046	-						
24	AA1 23-24	130	0.032	-						
25	AA1 24-25	500	0.049	-						

Results in ppm unless otherwise specified
 * Element present, but concentration too low to identify
 * Element concentration is below detection limit
 * Element not determined

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ANALYTICAL DATA

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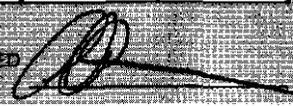
10/10/88

2 OF 12

TUBE No.	SAMPLE No.	As	Au	AuCHK					
1	AA1 25-26	140	0.019	-					
2	AA1 26-27	75	0.012	-					
3	AA1 27-28	62	0.010	-					
4	AA1 28-29	52	0.005	-					
5	AA1 29-30	52	0.010	0.009					
6	AA1 30-31	78	0.329	-					
7	AA2 00-01	34	0.020	-					
8	AA2 01-02	21	0.011	-					
9	AA2 02-03	11	0.009	-					
10	AA2 03-04	22	0.009	-					
11	AA2 04-05	11	0.012	-					
12	AA2 05-06	4	0.007	-					
13	AA2 06-07	120	0.009	-					
14	AA2 07-08	12	0.011	-					
15	AA2 08-09	7	0.008	-					
16	AA2 09-10	7	0.010	-					
17	AA2 10-11	14	0.012	-					
18	AA2 11-12	9	0.010	-					
19	AA2 12-13	7	0.007	-					
20	AA2 13-14	11	0.009	-					
21	AA2 14-15	14	0.010	0.011					
22	AA2 15-16	13	0.008	-					
23	AA2 16-17	9	0.007	-					
24	AA2 17-18	28	0.007	-					
25	AA2 18-19	38	0.021	-					

Results in ppm unless otherwise specified
 Y - element present, but concentration too low to measure
 X - element concentration is below detection limit
 - - - element not determined

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ANALYTICAL DATA

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10/10/88

3 OF 12

TUBE No.	SAMPLE No.	As	Al	AuChk						
1	AA2 19-20	50	0.024	-						
2	AA2 20-21	52	0.039	-						
3	AA2 21-22	56	0.022	-						
4	AA2 22-23	35	0.066	-						
5	AA2 23-24	18	0.023	-						
6	AA2 24-25	4	0.009	-						
7	AA2 25-26	4	0.006	-						
8	AA2 26-27	9	0.013	-						
9	AA2 27-28	61	0.015	-						
10	AA2 28-29	7	0.012	-						
11	AA2 29-30	8	0.010	-						
12	AA2 30-31	61	0.006	-						
13	AA3 00-01	14	0.014	-						
14	AA3 01-02	12	0.008	-						
15	AA3 02-03	9	0.013	-						
16	AA3 03-04	31	0.010	-						
17	AA3 04-05	46	0.021	-						
18	AA3 05-06	18	0.016	-						
19	AA3 06-07	31	0.024	-						
20	AA3 07-08	35	0.022	-						
21	AA3 08-09	19	0.013	-						
22	AA3 09-10	25	0.014	-						
23	AA3 10-11	35	0.010	0.011						
24	AA3 11-12	18	0.012	-						
25	AA3 12-13	11	0.008	-						

Results in ppm unless otherwise specified
 T = element present, but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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713040

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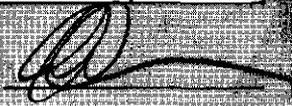
10/10/88

4 OF 12

TUBE No.	SAMPLE No.	As	Au	AuChk						
1	AA3 13-14	5	0.007	-						
2	AA3 14-15	1	0.007	-						
3	AA3 15-16	1	0.009	-						
4	AA3 16-17	15	0.006	-						
5	AA3 17-18	14	0.007	-						
6	AA3 18-19	9	0.006	-						
7	AA3 19-20	2	0.005	-						
8	AA3 20-21	<1	<0.005	-						
9	AA3 21-22	<1	<0.005	-						
10	AA3 22-23	<1	0.009	-						
11	AA3 23-24	19	0.011	-						
12	AA3 24-25	65	0.076	-						
13	AA3 25-26	12	0.077	-						
14	AA3 26-27	7	0.088	-						
15	AA3 27-28	<1	0.009	-						
16	AA3 28-29	2	0.007	-						
17	AA3 29-30	2	0.007	-						
18	AA3 30-31	15	0.008	-						
19	AA4 00-01	53	0.015	-						
20	AA4 01-02	83	0.028	-						
21	AA4 02-03	120	0.014	-						
22	AA4 03-04	84	0.027	-						
23	AA4 04-05	51	0.026	-						
24	AA4 05-06	76	0.025	-						
25	AA4 06-07	120	0.037	-						

Results in ppm unless otherwise specified
 T = element present, but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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TUBE No.	SAMPLE No.	As	Au	AuChk					
1	AA4 07-08	140	0.158	-					
2	AA4 08-09	53	0.065	-					
3	AA4 09-10	45	0.065	-					
4	AA4 10-11	54	0.048	-					
5	AA4 11-12	120	0.025	-					
6	AA4 12-13	16	0.015	-					
7	AA4 13-14	14	0.012	-					
8	AA4 14-15	15	0.012	-					
9	AA4 15-16	11	0.017	-					
10	AA4 16-17	12	0.011	-					
11	AA4 17-18	17	0.012	-					
12	AA4 18-19	13	0.016	-					
13	AA4 19-20	24	0.012	-					
14	AA4 20-21	12	0.017	-					
15	AA4 21-22	13	0.013	-					
16	AA4 22-23	40	0.012	-					
17	AA4 23-24	16	0.017	-					
18	AA4 24-25	12	0.011	-					
19	AA4 25-26	14	0.012	-					
20	AA4 26-27	12	0.012	-					
21	AA4 27-28	17	0.010	-					
22	AA4 28-29	29	0.022	-					
23	AA4 29-30	21	0.012	-					
24	AA4 30-31	15	0.012	-					
25	AA5 00-01	40	0.018	-					

Results in ppm unless otherwise specified
 T = element present, but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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713042

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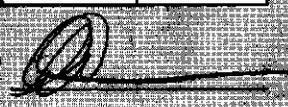
CLIENT ORDER No.

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		999.53.08.05725			10/10/88				6 OF 12	
TUBE No.	SAMPLE No.	As	Au	AuChk						
1	AA5 01-02	17	0.042	--						
2	AA5 02-03	15	0.021	--						
3	AA5 03-04	15	0.143	--						
4	AA5 04-05	20	0.033	--						
5	AA5 05-06	72	0.125	--						
6	AA5 06-07	130	0.124	--						
7	AA5 07-08	80	0.041	--						
8	AA5 08-09	41	0.028	--						
9	AA5 09-10	18	0.016	--						
10	AA5 10-11	17	0.015	--						
11	AA5 11-12	30	0.015	--						
12	AA5 12-13	32	0.012	--						
13	AA5 13-14	28	0.014	--						
14	AA5 14-15	23	0.017	--						
15	AA5 15-16	16	0.016	--						
16	AA5 16-17	26	0.044	--						
17	AA5 17-18	9	0.021	--						
18	AA5 18-19	10	0.011	--						
19	AA5 19-20	12	0.012	--						
20	AA5 20-21	11	0.026	--						
21	AA5 21-22	8	0.026	--						
22	AA5 22-23	13	0.010	--						
23	AA5 23-24	11	0.006	--						
24	AA5 24-25	8	0.008	--						
25	AA5 25-26	7	0.009	--						

Results in ppm unless otherwise specified
 F = element present, but concentration too low to measure
 X = element concentration is below detection limit
 -- = element not determined

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		999.53.08.05725			10/10/88				7 OF 12	
TUBE No.	SAMPLE No.	As	Au	AuChk						
1	AA5 26-27	12	0.014	0.011						
2	AA5 27-28	23	0.010	-						
3	AA5 28-29	10	0.008	-						
4	AA5 29-30	10	0.010	-						
5	AA5 30-31	9	0.009	-						
6	AA6 00-01	74	0.015	-						
7	AA6 01-02	24	0.020	-						
8	AA6 02-03	73	0.028	-						
9	AA6 03-04	77	0.027	-						
10	AA6 04-05	58	0.026	-						
11	AA6 05-06	50	0.081	-						
12	AA6 06-07	78	0.145	-						
13	AA6 07-08	96	0.093	-						
14	AA6 08-09	73	0.156	-						
15	AA6 09-10	102	0.097	-						
16	AA6 10-11	110	0.084	-						
17	AA6 11-12	83	0.058	-						
18	AA6 12-13	63	0.051	-						
19	AA6 13-14	81	0.022	-						
20	AA6 14-15	44	0.017	-						
21	AA6 15-16	43	0.015	-						
22	AA6 16-17	20	0.014	-						
23	AA6 17-18	32	0.017	-						
24	AA6 18-19	19	0.015	-						
25	AA6 19-20	19	0.014	-						

Results in ppm unless otherwise specified
 T = element present, but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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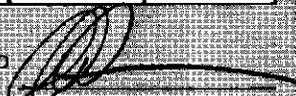
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		999.53.08.05725			10/10/88				8 OF 12	
TUBE No.	SAMPLE No.	As	Au	AuChk						
1	AA6 20-21	22	0.013	--						
2	AA6 21-22	15	0.023	--						
3	AA6 22-23	52	0.015	--						
4	AA6 23-24	21	0.014	--						
5	AA6 24-25	40	0.014	0.045						
6	AA6 25-26	36	0.015	--						
7	AA6 26-27	20	0.014	--						
8	AA6 27-28	22	0.015	--						
9	AA6 28-29	31	0.016	--						
10	AA6 29-30	41	0.015	--						
11	AA6 30-31	38	0.015	--						
12	AA7 00-01	26	0.015	--						
13	AA7 01-02	23	0.019	--						
14	AA7 02-03	59	0.023	--						
15	AA7 03-04	65	0.014	--						
16	AA7 04-05	74	0.013	--						
17	AA7 05-06	180	0.016	--						
18	AA7 06-07	90	0.017	0.016						
19	AA7 07-08	88	0.027	--						
20	AA7 08-09	89	0.022	--						
21	AA7 09-10	190	0.037	--						
22	AA7 10-11	170	0.053	--						
23	AA7 11-12	110	0.063	--						
24	AA7 12-13	93	0.053	--						
25	AA7 13-14	210	0.125	--						

Results in ppm unless otherwise specified
 T = element present, but concentration too low to measure
 X = element concentration is below detection limit
 -- = element not determined

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713045

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TUBE No.	SAMPLE No.	As	Al	AuChk					
1	AA7 14-15	400	0.274	-					
2	AA7 15-16	450	0.225	-					
3	AA7 16-17	500	0.242	-					
4	AA7 17-18	350	0.180	-					
5	AA7 18-19	240	0.122	-					
6	AA7 19-20	250	0.121	-					
7	AA7 20-21	260	0.132	-					
8	AA7 21-22	180	0.084	-					
9	AA7 22-23	160	0.071	-					
10	AA7 23-24	150	0.084	-					
11	AA7 24-25	120	0.055	-					
12	AA7 25-26	110	0.056	-					
13	AA7 26-27	110	0.046	-					
14	AA7 27-28	88	0.043	-					
15	AA8 00-01	7	0.084	-					
16	AA8 01-02	4	0.015	-					
17	AA8 02-03	6	0.024	-					
18	AA8 03-04	4	0.015	0.015					
19	AA8 04-05	2	0.012	-					
20	AA8 05-06	8	0.014	-					
21	AA8 06-07	16	0.012	-					
22	AA8 07-08	20	0.014	-					
23	AA8 08-09	32	0.056	-					
24	AA8 09-10	42	0.158	-					
25	AA8 10-11	54	0.090	-					

Results in ppm unless otherwise specified
 † = element present, but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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713046

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TUBE No.	SAMPLE No.	As	Al	AuChk					
1	AAB 11-12	21	0.015	-					
2	AAB 12-13	13	0.039	-					
3	AAB 13-14	22	0.023	-					
4	AAB 14-15	20	0.025	-					
5	AAB 15-16	23	0.012	-					
6	AAB 16-17	13	0.017	-					
7	AAB 17-18	22	0.018	-					
8	AAB 18-19	14	0.009	-					
9	AAB 19-20	13	0.008	0.008					
10	AAB 20-21	76	0.007	-					
11	AAB 21-22	10	0.006	-					
12	AAB 22-23	18	0.015	-					
13	AAB 23-24	10	0.053	-					
14	AAB 24-25	9	0.017	-					
15	AAB 25-26	9	0.022	-					
16	AAB 26-27	39	0.017	-					
17	AAB 27-28	18	0.012	-					
18	AAB 28-29	18	0.014	-					7
19	AAB 29-30	3	0.012	-					
20	AAB 30-31	6	0.010	-					
21	GES 1	100	0.042	-					
22	GES 2	46	0.029	-					
23	GES 3	47	0.031	-					
24	GES 4	39	0.031	-					
25	GES 5	33	0.055	-					

Results in ppm unless otherwise specified
 I = element present, but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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713047

ANALYTICAL DATA

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TUBE No.	SAMPLE No.	As	Au	AlChk							
		999.53.08.05725			10/10/88			11 OF 12			
1	GES 6	48	0.043	-							
2	GES 7	72	0.036	-							
3	GES 8	86	0.028	-							
4	GES 9	75	0.026	-							
5	GES 10	52	0.029	-							
6	A2 1A	120	0.070	-							
7	A2 1B	76	0.050	-							
8	A2 1C	160	0.079	-							
9	A2 1D	110	0.066	-							
10	A2 1E	67	0.050	-							
11	A2 1F	220	0.107	-							
12	A2 2A	82	4.930	-							
13	A2 2B	120	0.072	-							
14	A2 2C	110	3.149	-							
15	A2 2.2	130	0.235	-							
16	GEN 1A	470	0.328	-							
17	GEN 1B	530	0.309	-							
18	GEN 1C	190	0.161	-							
19	GEN 1D	210	0.168	-							
20	GEN 1E	150	0.151	0.171							
21	GEN 1F	170	0.144	-							
22	GEN 2A	120	0.111	-							
23	GEN 2B	440	0.065	-							
24	GEN 2C	100	0.043	-							
25	GEN 2D	120	0.045	-							

Results in ppm unless otherwise specified
 T = element present, but concentration too low to measure
 X = element concentration is above detection limit
 - = element not determined

AUTHORISED OFFICER

ANALABS

A Division of Macdonald, Hamilton & Co., Inc. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER NO.

PAGE

999.53.08.05725

10/10/88

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NO.	SAMPLE NO.	CONC.	UNIT	AUTH.					
1	A1 1A	51	0.061	-					
2	A1 1B	96	0.105	-					
3	A1 1C	33	0.051	-					
4	A1 1.1	84	0.151	-					
5	A1 2A	59	10.020	2.239					
6	A1 2B	95	9.030	2.453					
7	A1 2.1	140	0.759	0.727					
8	A1 3	98	0.203	-					
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	1	0.005	0.005					
24	UNITS	PPM	PPM	PPM					
25	METHOD	114	313	313					

Results in ppm unless otherwise noted.
 1 - Blank control
 2 - Blank control
 3 - Blank control
 4 - Blank control