

HELLYER MINING.

(MACGREGOR - BELTZ AREA.)

(C.M.L. 42 M 76)

~~RESTRICTED~~
81-1635

OPEN FILE

867002

090

of M	A.O.	C.G.	E.O.	D.S.M.E.
Received forwarded			9 NOV 1981	
DEPT. OF MINES				E & I
REF. No.				

UNCLASSIFIED

CONSOLIDATED LEASE 42M/76

EXPLORATION PROGRESS REPORT

OPEN FILE

HELLYER MINING & EXPLORATION PTY. LTD.

September, 1981

1.0 TITLE

Transfer of C.M.L. 42M/76 from Mineral Holding Australia Pty, Ltd. to Hellyer Mining and Exploration Pty. Ltd. has been approved and recorded.

2.0 WORK COMPLETED

This report is intended to provide additional details on exploration carried out within C.M.L. 42M/76 than has been contained in previous reports concerned with exploration on both E.L. 19/77 and C.M.L. 42M/76.

2.1 BACK-HOE SAMPLING

Thirty six back-hoe pits were excavated around the periphery of the old alluvial workings within the lease area to provide confirmation of previous drilling in the area and additional geological information. The approximate locations of the pits are shown on the attached plan. The pits were approximately 4 metres deep and spaced between 40 and 100 metres apart, averaging approximately 75 metres apart.

Descriptions of the sample obtained for assay from each pit are given in Appendix I. Assay results are listed in Appendix III and the calculated grades are shown in the following table. The grade calculations are approximate only because the volume of the samples is only known to an accuracy of approximately $\frac{1}{4}$ cubic foot.

<u>Back-hoe Number</u>	<u>Approximate Grade</u> <u>(lb. Sn/cu.yd.)</u>
BMG 1	0.02
BMG 2	0.04
BMG 3	0.36
BMG 4	0.03
BMG 5	0.01
BMG 6	0.02
BMG 7	0.06
BMG 8	-
BMG 9	0.13
BMG 10	0.01
BMG 11	0.03
BMG 12	-
BMG 13	-
BMG 14	-
BMG 15	0.01
BMG 16	-
BMG 17	0.01
BMG 18	0.24
BMG 19	-
BMG 20	-
BMG 21	0.01
BMG 22	0.43
BMG 23	0.03
BMG 24	0.09
BMG 25	0.03
BMG 26	0.15
BMG 27	0.44

2.1 BACK-HOE SAMPLING (cont.)

<u>Back-hoe Number</u> (cont.)	<u>Approximate Grade</u> (lb. Sn/cu.yd.) (cont.)
BMG 28	0.03
BMG 29	0.44
BMG 30	0.09
BMG 31	0.10
BMG 32	0.01
BMG 33	-
BMG 34	0.01
BMG 35	0.05
BMG 36	0.05

2.2 AUGER DRILLING

Two auger drill holes were completed and sampled at one metre intervals. Hole locations are shown on the attached plan and logs are contained in Appendix II.

Assay results are listed in Appendix III and calculated grades (using measured volumes) are shown below:

<u>AMG 1</u>	<u>INTERVAL</u>	<u>GRADE</u> (lb. Sn/cu.yd.)
	0 - 1	0.01
	1 - 2	0.01
	2 - 3	0.01
	3 - 4	0.01
	4 - 5	0.03
	5 - 6	0.33
	6 - 7	0.26
	7 - 8	0.27

Average 5-8m = 0.29 lb. Sn/cu.yd.

Average whole hole = 0.12 lb. Sn/cu.yd.

<u>AMG 2</u>	<u>INTERVAL</u>	<u>GRADE</u> (lb. Sn/cu.yd.)
	0 - 1	0.10
	1 - 2	0.04
	2 - 3	0.76
	3 - 4	0.14
	4 - 5	0.06
	5 - 6	0.04
	6 - 7	0.02
	7 - 8	0.05
	8 - 9	0.03

Average 0-4m = 0.26 lb. Sn/cu.yd.

2.3 RELATIONSHIP TO PREVIOUS DRILLING

The lithological and grade data obtained from the back-hoe sampling and auger drilling correlate well with the results of previous drilling.

Back-hoe pits BMG 18-21 suggest that the main wash zone is deeper here than in adjacent areas, as expected. Samples which returned the highest tin grades (BMG 3, 9, 18, 22, 26, 27 and 29) are generally close to previously delineated higher-grade areas. The results suggest that the tin tends to be spread throughout the alluvium rather than being concentrated in one particular horizon.

The fact that gold was recovered from several samples, in particular BMG 9, 11, 14, 27, 34 and 36 (see Appendix III), suggests that gold could be recovered as a by-product from a tin mining operation.

3.0 PROPOSED WORK

None of the previous drill holes in the area have reached the base of the deepest section of the MacGregor lead and it is proposed to test the deepest part of the lead. Three churn drill holes located close to the interpreted channel will attempt to intersect the bottom of the lead. Locations are shown on the attached plan.

BACK-HOE SAMPLE DESCRIPTIONS

<u>Hole Number</u>	<u>Description</u> (Relative abundance of wash encountered)
BMG 1	Minor gravel-wash at bottom of clay-rich section.
BMG 2	Minor gravel-wash in clayey section (sand at bottom).
BMG 3	Minor gravel-wash in clayey section (clay at bottom).
BMG 4	Good gravel-wash at bottom of hole.
BMG 5	Thin gravel-wash band in clay-rich section.
BMG 6	Little/no wash in clay-rich section.
BMG 7	Good gravel-wash, clay at bottom.
BMG 8	Minor gravel-wash in lower 2 m of hole.
BMG 9	Good gravel-wash to bottom.
BMG 10	Moderate gravel-wash to bottom.
BMG 11	Good gravel-wash to bottom.
BMG 12	Moderate gravel to bottom of clayey section.
BMG 13	Moderate wash with fine sand at bottom.
BMG 14	Moderate wash to bottom.
BMG 15	Moderate gravel-wash with fine sand at bottom.
BMG 16	Minor gravel-wash with fine sand at bottom.
BMG 17	Good gravel-wash to bottom.
BMG 18	Minor gravel-wash to bottom.
BMG 19	Minor gravel-wash with fine sand at bottom.
BMG 20	Minor gravel-wash to bottom of sandy section.
BMG 21	Minor gravel-wash to bottom of sandy section.
BMG 22	Good wash to bottom.
BMG 23	Good wash to bottom.
BMG 24	Good wash to bottom.
BMG 25	Good wash to bottom with some clay.
BMG 26	Good wash to bottom with some clay.
BMG 27	Moderate gravel-wash with fine sand at bottom.
BMG 28	Good wash to bottom.
BMG 29	Good wash to bottom.
BMG 30	Moderate wash to bottom.
BMG 31	Moderate wash to bottom.
BMG 32	Minor gravel-wash in sandy section. Close to granite?
BMG 33	Minor gravel-wash in sandy section. Close to granite?
BMG 34	Minor gravel-wash in sandy section. Close to granite?
BMG 35	Minor gravel in sandy section.
BMG 36	Moderate gravel-wash to bottom of clay/sand section.

AUGER HOLE LOGS

<u>AMG 1</u>	<u>INTERVAL</u>	<u>DESCRIPTION</u>
	0 - 1m	Brown clayey sand containing wood fragments.
	1 - 2m	Brown-yellow loamy sand with minor wash.
	2 - 3m	Silty to clayey sand with minor wash.
	3 - 4m	Silty to clayey sand with minor wash.
	4 - 5m	White fine to course clayey sand.
	5 - 6m	White fine to course clayey sand with wash.
	6 - 7m	White fine to course clayey sand and wash.
	7 - 8m	White fine to course clayey sand and wash.

<u>AMG 2</u>	<u>INTERVAL</u>	<u>DESCRIPTION</u>
	0 - 1m	Brown-yellow loamy sand with wood fragments.
	1 - 2m	Brown-yellow loamy sand with wood fragments.
	2 - 3m	Pale grey medium to course sand with minor wash.
	3 - 4m	Pale grey medium to course sand and wash.
	4 - 5m	Pale grey medium to course sand and wash.
	5 - 6m	Pale grey medium to course sand and wash.
	6 - 7m	Pale grey medium to course sand and wash.
	7 - 8m	Pale grey medium to course sand and wash.
	8 - 9m	Pale medium to course sand with minor wash.

APPENDIX III

BACK-HOE SAMPLE AND AUGER HOLE SAMPLE

ASSAY DATA

<u>Reg. No</u>	<u>Description</u>	<u>Mass</u> <u>g.</u>	<u>% Sn</u>	<u>Au. Mass</u> <u>mg.</u>	
812503	<u>B.M.G.</u>	1	56.8	0.31	0.04
504		2	36.6	0.98	Nil
505		3	39.2	8.1	0.19
506		4	57.8	0.44	0.17
507		5	43.2	0.12	0.12
812508		6	46.9	0.33	0.14
509		7	55.6	0.97	Nil
510		8	16.3	0.18	0.07
511		9	47.6	2.5	0.37
512		10	54.3	0.12	0.15
812513		11	22.0	1.8	0.26
514		12	19.9	0.21	0.07
515		13	34.5	0.04	0.07
516		14	38.0	0.11	0.53
517		15	40.6	0.19	0.17
812518		16	39.2	0.13	0.07
519		17	26.6	0.38	0.15
520		18	47.6	8.9	0.11
521		19	43.8	0.13	0.04
522		20	36.1	0.15	0.03
812523		21	34.6	0.45	0.07
524		22	125.6	6.0	Nil
525		23	41.6	1.1	Nil
526		24	46.0	3.4	0.13
527		25	37.3	1.6	Nil
812528		26	92.0	2.9	0.08
529		27	171.1	4.5	0.36
530		28	54.1	1.1	0.08
531		29	105.0	7.4	0.03
532		30	88.3	1.8	0.17
812533		31	47.8	3.8	0.15
534		32	42.2	0.54	Nil
535		33	39.9	0.19	0.11
536		34	45.5	0.53	0.34
537		35	55.1	1.6	0.18
812538		36	53.0	1.6	0.65
539	<u>AmG2</u>	0-1 6401	112.0	0.52	Nil
540		1-2 02	132.2	0.18	Nil
541		2-3 03	126.0	3.5	0.25
542		3-4 04	112.8	0.57	Nil
812543		4-5 6405	87.3	0.37	Nil
544		5-6 06	90.1	0.32	Nil
545		6-7 07	89.8	0.18	Nil
546		7-8 08	96.2	0.16	Nil
547		8-9 09	128.1	0.05	Nil
812548	<u>Amal</u>	0-1 6410	108.8	0.03	Nil
549		1-2 11	113.9	0.02	Nil
550		2-3 12	131.8	0.01	Nil
551		3-4 13	117.6	0.03	Nil
552		4-5 14	117.0	0.09	Nil

<u>Reg. No</u>	<u>Description</u>	<u>Mass</u> <u>g.</u>	<u>% Sn</u>	<u>Au. Mass</u> <u>mg.</u>
812553	<u>Amal</u> 5-6 6415	173.8	0.16	Nil
554	6-7 16	161.2	0.40	Nil
555	7-8 17	110.1	0.60	Nil

analyzed by
J. R. Telling
J. R. Telling

(H. K. Wellington)
Chief Chemist & Metallurgist

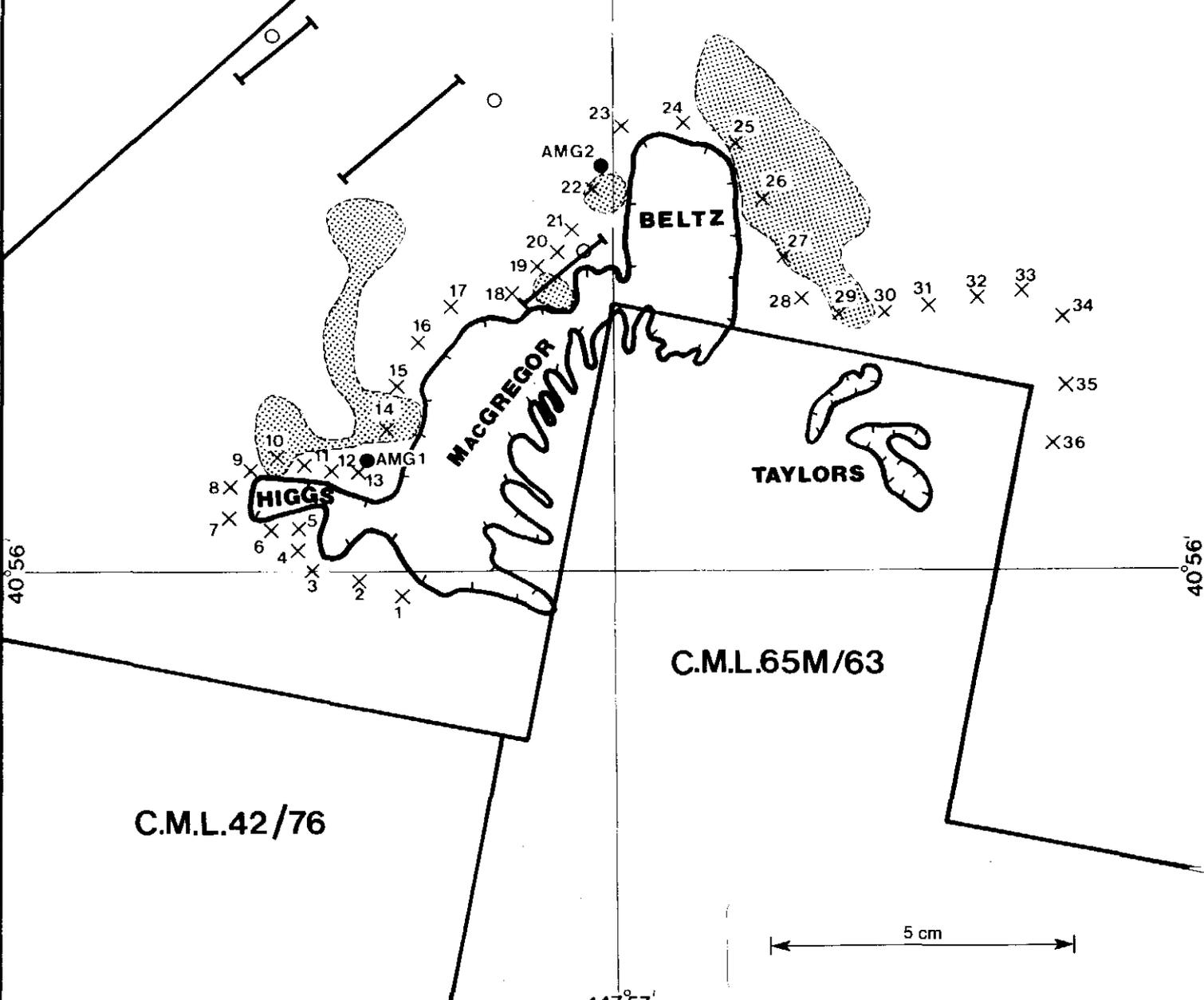
009

147°57'

867011

S.R.32/70

C.M.L.42M/76



C.M.L.42/76

C.M.L.65M/63

5 cm

LOCALITY



- OF WORKINGS.
- HIGHEST GRADE AREA (Previous Drilling)
- DEEPEST WASH SECTION (Previous Drilling)
- AUGER HOLE & NUMBER.
- BACK-HOE PIT AND NUMBER.(PREFIX BMG)
- PROPOSED CHURN

HELLYER MINING & EXPLORATION PTY. LTD.

NORTH EAST TASMANIA

C.M.L.42M/76

MAP SHOWING WORK COMPLETED TO DATE.

SCALE 1:7920

