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CONSOLIDATED GOLD FIELDS AUSTRALIA LIMITED

GROVERS BLUFF SILICA.

MONTHLY REPORT

~~S.P.L. 122~~ MINERAL LEASES

JULY, 1974

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CONTENTS

1. INTRODUCTION

Following regional investigations designed to locate occurences of metallurgical grade SiO_2 an option to purchase was taken over S.P.L. 122 held by B.R. Forster (see Locality map). After field investigation the option to purchase was exercised and transfer of the licence was approved by the Minister on 24th July, 1974.

This report covers exploration activities by Consolidated Gold Fields Australia Limited in regard to the area of S.P.L. 122 for the period ending 31st July, 1974.

2. GEOLOGY

The quartzite deposit outcrops as a series of ridges in the Weld River area of south-eastern Tasmania about 45 km W.S.W. of Hobart. These form part of a south-easterly pointing finger of unmetamorphosed pre-Cambrian sediments of the Jubilee Block. The beds strike about 20° W of north and dip at very steep angles. Cross faulting has broken the quartzites up into a series of separate hills.

3. ACCESS

Access from Geeveston (about 38 km) is by mainly forestry road via the Tahune Bridge over the Huon River. The road is well constructed and metalled making for relatively good access. This reaches to within about 1 km of the main quartzite deposit at Glover's Bluff.

4. PREVIOUS INVESTIGATIONS

The quartzite deposits of the Weld River area were reviewed by Forster (*) and analysis of a near surface sample of saccharoidal quartzite showed a SiO_2 content of 99.3% and minor amounts of impurities.

(*) Proposed Silicon-Ferrosilicon-Magnesium Industry in Southern Tasmania. Unpublished report by Mac Campbell Forster, 1973.

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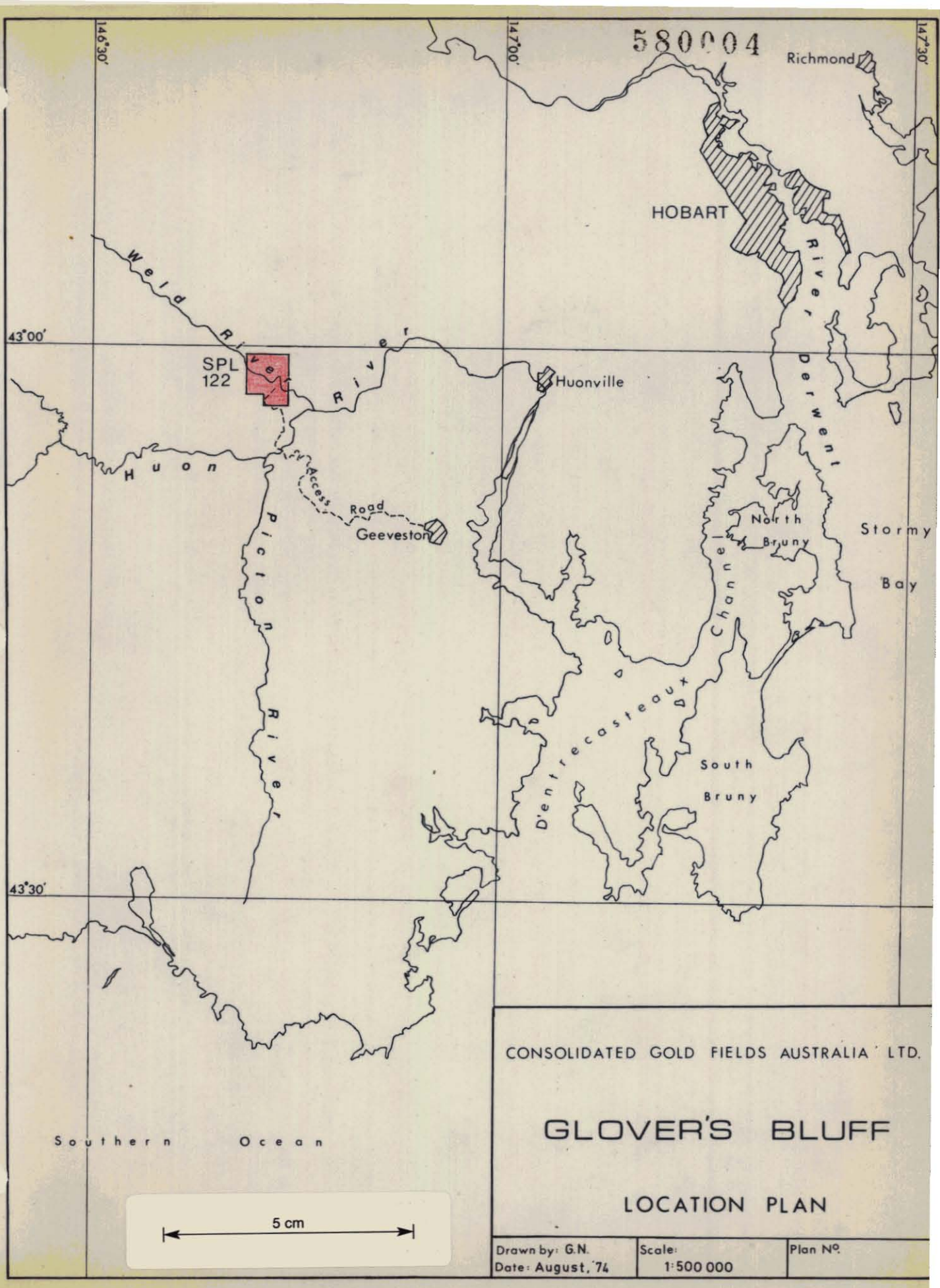

CONSOLIDATED GOLD FIELDS AUSTRALIA LTD.

GLOVER'S BLUFF

LOCATION PLAN

Drawn by: G.N. Date: August, '74	Scale: 1:500 000	Plan No.

5. DIAMOND DRILLING

Attention was directed mainly to a prominent ridge on the southern side of the steep gorge through which the Weld River traverses the quartzite ridges. In this area soil cover appears to be minimal and suitable conditions for quarry operations exist. A contour plan of the area showing location of the drilling is presented herewith.

A diamond drill hole G.B.1, was drilled to test the material forming the slopes of the ridge. G.B.1 was collared at the foot of the slope and drilled on an azimuth of 213° Magnetic at an angle of 20° from the horizontal. Early assays showed unacceptable levels of aluminium and as interstial clays, probably from alteration of felspar, were visible on the deeper core, the hole was abandoned at 555 feet.

Assay results for the hole are presented in Appendix 1.

A second hole G.B.2, was collared on top of the Bluff, oriented 33° Magnetic and depressed 45°. The core was first assayed solely for Al_2O_3 and when this showed acceptable values in the order of 1%, bulk assays for SiO_2 were obtained. SiO_2 grades of +97.4% were indicated and those results are detailed on Profile 10,000 X herewith. Visual inspection of deeper core suggests similar values extend to the bottom of the hole. Full assay figures are not yet to hand and will be included in subsequent reports.

6. CONCLUSIONS AND RECOMMENDATIONS

The results of G.B.2 are most encouraging and suggest the possibility of extensive deposits of metallurgical grade SiO_2 on the higher parts of Glover's Bluff and perhaps other ridges in the Weld River area. To properly valuate the extent of the material available a third hole (G.B.3) should be drilled immediately from the same location as G.B.2 but oriented towards 33° Magnetic and dipping 45°.

213 o?

7. EXPENDITURE

During the period an expenditure of $22,649 was incurred in the exploration activities. Details are shown in Appendix II attached hereto.

APPENDIX I

ASSAY RESULTS - GLOVER'S BLUFF, G.B.1

The analyses were conducted as follows:-

1. SiO_2 - Fusion with Na_2CO_3. Extraction with water and HCl. Dehydration. Bake for one hour. Taken up with water and HCl. Filter. Weight.

2. Filtrate split into two.

   (1) Atomic absorption for Mg, Ca, Fe. Remains to colorimetric analysis for OP.

   (2) Treat with NH_4OH. Collect R_2O_3. All hydroxides of Al and Fe. Calculate Al_2O_3 by difference with Fe.

Completed analyses for drill holes are presented below:-

From	To	SiO_2	Al_2O_3	MgO	CaO	P_2O_5	Fe	Total
0	95		Quartzite Scree					
95	100	81.6	11.3	0.35	0.09	0.07	0.74	94.15
100	110	78.8	15.9	0.42	0.10	0.08	0.72	96.02
110	115	81.4	11.0	0.34	0.09	0.06	0.72	93.61
115	120	83.7	10.5	0.30	0.09	0.06	0.57	95.22
120	125	81.0	13.8	0.41	0.09	0.07	0.86	96.23
125	130	80.9	13.7	0.43	0.08	0.07	0.92	96.10
130	135	80.9	14.5	0.36	0.08	0.05	0.72	96.61
135	140	80.5	14.3	0.36	0.08	0.07	0.68	96.00
140	145	82.0	14.4	0.38	0.08	0.05	0.53	97.44
145	150	89.7	8.4	0.28	0.09	0.04	0.30	98.81
150	155	86.9	4.3	0.27	0.08	0.03	0.35	91.93
155	160	91.6	3.6	0.28	0.08	0.03	0.28	95.87
160	165	90.6	7.5	0.34	0.10	0.03	0.28	98.85
165	170	89.9	7.1	0.34	0.08	0.03	0.33	97.83
170	175	90.4	6.6	0.28	0.08	0.03	0.32	97.71
175	180	90.8	6.5	0.31	0.10	0.03	0.32	98.06
180	185	91.2	7.9	0.25	0.08	0.03	0.34	99.80
185	190	94.6	4.4	0.17	0.10	0.03	0.26	99.56

From	To	SiO_2	Al_2O_3	MgO	CaO	P_2O_5	Fe	Total
190	195	94.3	4.5	0.17	0.09	0.03	0.34	99,43
195	200	93.8	5.2	0.18	0.08	0.03	0.28	99.57
200	205	91.2	4.8	0.23	0.08	0.03	0.50	96.84
205	210	94.2	4.9	0.17	0.20	0.03	0.30	99.80
210	215	96.0	3.2	0.13	0.10	0.03	0.31	99.77
215	220	94.8	4.2	0.12	0.09	0.03	0.30	99.54
220	225	95.2	3.3	0.12	0.08	0.03	0.34	99.07
225	230	93.5	5.3	0.16	0.06	0.02	0.30	99.34
230	235	94.0	5.2	0.15	0.06	0.04	0.36	99.81
235	240	94.2	4.7	0.18	0.06	0.03	0.28	99.45
240	245	91.4	7.5	0.21	0.18	0.05	0.37	99.71
245	250	92.2	6.8	0.17	0.09	0.05	0.31	99.62
250	255	94.6	4.3	0.12	0.20	0.04	0.33	99.59
255	260	95.2	3.8	0.14	0.10	0.05	0.33	99.62
260	265	83.1	10.7	0.47	0.12	0.12	1.26	95.77
265	270	71.3	21.0	0.48	0.18	0.14	1.33	94.43
270	275	92.9	4.6	0.13	0.11	0.04	0.40	98.18
275	280	95.4	3.3	0.11	0.11	0.04	0.35	99.31
280	285	95.4	3.2	0.13	0.14	0.05	0.35	99.27
285	290	90.2	6.9	0.18	0.10	0.04	0.33	97.75
290	295	94.5	4.4	0.12	0.15	0.04	0.30	99.51
295	300	96.8	2.8	0.08	0.10	0.05	0.29	100.12
300	305	98.3	1.5	0.08	0.13	0.04	0.31	100.36
305	310	92.7	5.7	0.16	0.09	0.04	0.32	99.01
310	315	95.1	4.1	0.10	0.07	0.03	0.40	99.80
315	320	91.1	6.9	0.15	0.07	0.03	0.32	98.57
320	325	93.0	6.1	0.13	0.07	0.03	0.34	99.67
325	330	94.6	4.6	0.12	0.08	0.04	0.27	99.71
330	335	87.3	7.5	0.19	4.0	0.04	0.38	99.41
335	340	86.7	8.9	0.23	0.13	0.01	0.39	96.36
340	345	95.2	2.4	0.07	0.09	0.03	0.29	98.08
345	350	88.2	7.0	0.23	0.11	0.01	0.45	96.00

From	To	SiO_2	Al_2O_3	MgO	CaO	P_2O_5	Fe	Total
350	355	94.7	2.8	0.10	0.11	0.03	0.51	98.25
355	360	86.3	8.3	0.28	0.09	0.03	0.65	95.65
360	365	93.9	2.3	0.22	0.10	0.05	0.38	96.95
365	370	91.7	4.1	0.19	0.08	0.03	0.39	96.49
370	375	92.9	3.3	0.13	0.08	0.00	0.36	96.77
375	380	88.5	6.0	0.27	0.08	0.04	0.43	95.32
380	385	88.9	5.0	0.33	0.09	0.01	0.55	94.88
385	390	90.7	5.8	0.26	0.08	0.02	0.70	97.56
390	395	83.5	9.1	0.49	0.09	0.03	0.71	93.92
395	400	84.5	9.6	0.36	0.09	0.05	0.42	95.02
400	405	86.1	8.8	0.31	0.08	0.04	0.40	95.73
405	410	88.5	6.3	0.22	0.10	0.03	0.65	95.80
410	415	89.5	6.5	0.23	0.08	0.05	0.43	96.79
415	420	87.3	7.8	0.31	0.30	0.05	0.43	96.19
420	425	93.0	3.9	0.29	0.21	0.12	0.74	98.26
425	430	94.6	3.7	0.17	0.11	0.10	0.44	99.12
430	435	89.1	5.4	0.21	0.24	0.09	0.86	95.90
435	440	96.0	3.4	0.14	0.12	0.12	0.37	100.15
440	445	94.7	4.1	0.20	0.12	0.12	0.39	99.63
445	450	94.7	4.2	0.18	0.15	0.08	0.32	99.63
450	455	90.8	6.2	0.32	0.14	0.25	0.34	98.05
455	460	92.7	4.6	0.19	0.41	0.09	0.36	98.35
460	465	98.0	1.0	0.09	0.11	0.09	0.32	99.61
465	470	93.4	4.5	0.17	0.14	0.09	0.29	98.59
470	475	94.4	4.0	0.18	0.16	0.12	0.42	99.28
475	480	91.6	5.6	0.20	0.16	0.14	0.36	98.06
480	485	88.5	7.8	0.25	0.17	0.15	0.51	97.38
485	490	86.0	9.3	0.29	0.13	0.15	0.67	96.54
490	495	93.6	4.0	0.19	0.20	0.14	0.79	98.92
495	500	93.4	4.9	0.20	0.15	0.15	0.42	99.22
500	505	93.6	4.7	0.14	0.10	0.13	0.33	99.00
505	510	79.7	13.8	0.44	0.11	0.12	0.79	94.96

From	To	SiO_2	Al_2O_3	MgO	CaO	P_2O_5	Fe	Total
510	515	90.1	6.7	0.34	0.11	0.18	0.46	97.89
515	520	69.7	20.5	0.63	0.14	0.09	1.38	92.44
520	525	93.0	5.2	0.19	0.10	0.14	0.48	99.11
525	530	90.2	6.2	0.22	0.16	0.14	0.48	97.40
530	535	94.6	2.6	0.17	0.14	0.10	0.46	98.07
535	540	90.2	6.9	0.31	0.12	0.12	0.57	98.22
540	545	87.3	8.9	0.30	0.07	0.09	0.52	97.18
545	550	93.3	5.0	0.24	0.15	0.12	0.51	99.32
550	555	87.6	8.2	0.25	0.11	0.12	0.43	96.71

Clay appears to be illite - Sample 505 - 510 contains about 3.00% K.

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APPENDIX II

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STATUTORY DECLARATION

I, DONALD GEOFFREY REYNOLDS, of 11a Kissing Point Road, Turramurra in the state of New South Wales do hereby solemnly and sincerely declare as follows:-

1. THAT I am the Manager, Exploration Australia of Consolidated Gold Fields Australia Limited.

2. THAT the following is an accurate statement of the Exploration Expenditure incurred on the Special Prospectors Licence No. 122:-

	$
Salaries and Overheads - Geologists	5,497
Travelling Expenses and Accommodation	2,739
Motor Vehicle Expenses	1,260
Hire Equipment	1,103
Hire Helicopter	3,640
Drilling	2,946
Assays	2,302
Sundry Expenses	162
C.G.F.A. Technical Services	3,000
	$22,649

AND I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act, 1900.

.....

Subscribed and declared at Sydney, N.S.W. this Nineteenth day of August, 1974 before me

.....

Justice of the Peace.

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WELD RIVER

GB 1

GB 2/3

Baseline

9700Y
10086
10066
10000Y
10100Y
10200Y
10300Y
10400Y
10500X
10086
10066
10000Y
10100Y
10200Y
10300Y

60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210

50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

Contours from a Survey by E.B. Valentine and C.L. Andrews.

Contour interval 10m Arbitrary Datum

Form Lines only

CONSOLIDATED GOLD FIELDS AUSTRALIA LIMITED

GLOVER'S BLUFF PROJECT

Drilling Plan

5 cm

74-1030
580012

Drawn by:	Date:	Scale: 1:1000	Plan No:
J.W./G.N.	16.8.74		011

Stake 10100Y 10199·3X

Adapted Datum Magnetic 33°00' — Drill rod 10000Y 10000X — Stake 10100Y 10000X

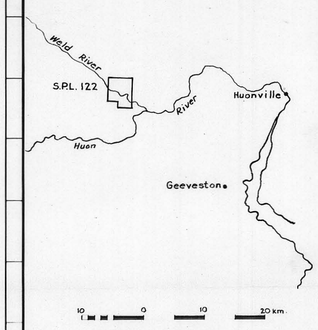
GB 2

GB3 (proposed)

GB1

9700 9900 10000 10100 Datum 0·00

KEY MAP



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CONSOLIDATED GOLD FIELDS AUSTRALIA LTD

GLOVERS BLUFF PROJECT

Profile 10,000X

5 cm

20 0 20 40 60 m.

SCALE : 1:1000 DRAWN BY : J.W.

DATE : 15.8.74 PLAN NO : 012