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REPORT ON EL 23/88

TASMANIA

SILICA FLOUR

D. SKENE

Hooker Mining Pty Ltd

89-2952

MICROFILMED

LOCATION

Exploration Licence 23/88 is approximately 60km west southwest of Burnie (Figure 1), in State Forest east of the Arthur River (Figure 2). Access to the area is via logging roads. The terrain is dissected by many small creeks draining into the Arthur River, and is densely vegetated by temperate rain forest. The combination of these two factors and the limited road access make exploration activities very difficult.

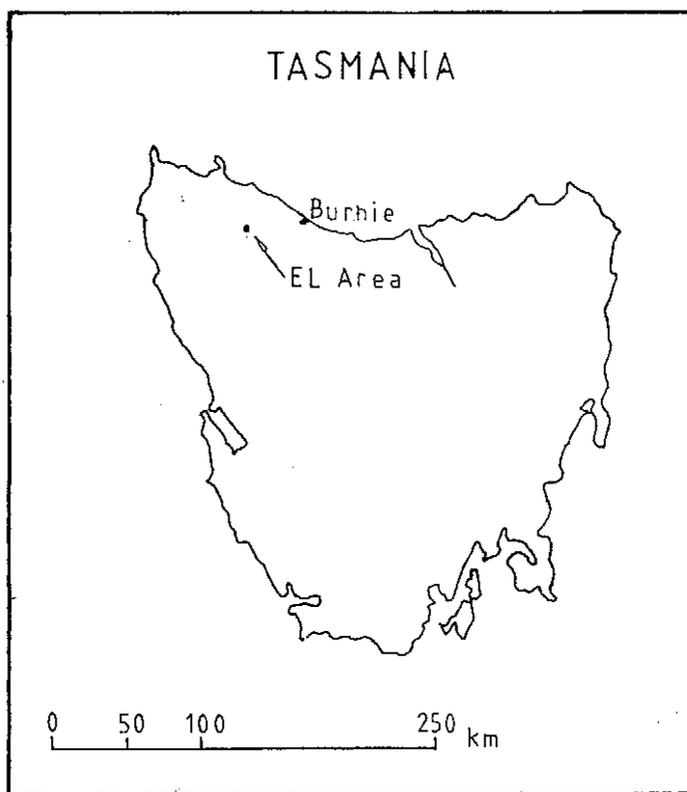


FIGURE 1: Location Map

5 cm

- 2 -

THE DEPOSIT

The known deposits in and outside the exploration licence are plotted on Figure 2. They occur on high ground at elevations of between 160 and 250m above sea level and are situated in the Arthur lineament. They were found adjacent to roads or in cuttings.

Only one deposit was found in the licence area (Figure 2). Its dimensions cannot be determined accurately without drilling, but it occurs as an irregular block 250m by 50m and approximately 3m thick. The deposit is underlain by Precambrian, slight to moderately metamorphosed phyllites and schists.

The silica flour is generally white to very pale grey in colour with some yellow discolouration. It ranges from a compact, friable, structureless mass to a lumpy conglomerate; the lumps break down to flour in the sieve-shaking process. At depth the silica flour occurs as a matrix surrounding blocky quartzite cobbles and gravel. This fact indicates that the silica flour could possibly originate from the long-term weathering of the Precambrian quartzite. Three samples were collected, two (SF3 and SF8) of which were sent to ACI for full XRF and screen analysis. The analyses are shown in Appendix 1.

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5 cm

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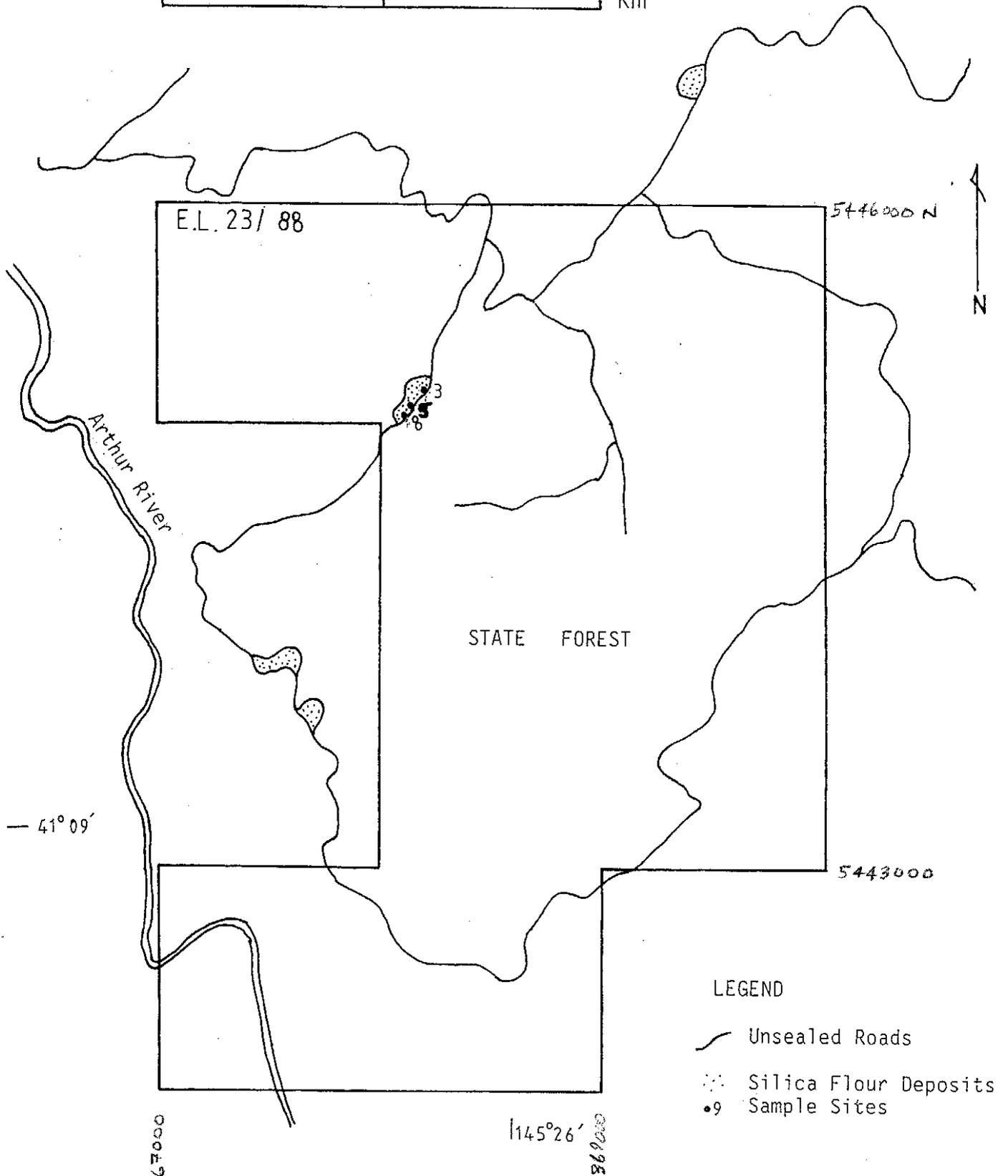


FIGURE 2: E.L. Area showing Silica Flour Deposits

CONCLUSION

It is believed that the silica flour deposits in this area have been derived from the same lithologic units. The strike of these units is 035 - 040° and therefore exploration activity has been concentrated within a broad band across the E.L. at 040°. It is unlikely that any other deposits exist outside this preferred area.

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APPENDIX 1

SILICA FLOUR ANALYSIS



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TEST REPORT

CLIENT: Hooker Resources,
GPO Box 2724,
SYDNEY, N.S.W. 2001

REPORT NO.: 240

ATTENTION: MR. D. SKENE

DATE: 15 December 1988

CLIENT O/NO.:

Analysis of Three Silica Flours

Introduction

Three samples, SF3, SF5 and SF8 received for full XRF and screen analysis.

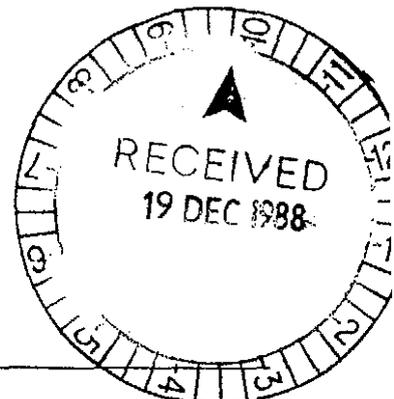
Because of the wide range of particle sizes (1 1/2" down to minus 300 mesh) XRF analysis was carried out on 3 separate fractions of each, viz. -300#, -30# and +30#. (The intermediate -30# samples includes the -300# component).

As discussed, charge will be calculated on the basis 6 XRF's only.

XRF Analysis

SF3

	<u>-300#</u>	<u>-30#</u>	<u>+30#</u>
%Fe ₂ O ₃	0.11	0.082	0.028
Al ₂ O ₃	0.34	0.27	0.097
TiO ₂	0.59	0.45	0.28
Cr ₂ O ₃	0.001	0.001	<0.001
CaO	0.012	0.011	<0.01
MgO	0.062	0.049	0.017
Na ₂ O	0.022	0.012	<0.01
K ₂ O	0.13	0.097	0.030
LOI	0.22	0.19	0.08
SiO ₂ (bal.)	98.5	98.8	99.4



AUTHOR:

D. MacKENZIE
GPD Engineering Services

SF5

	<u>-300#</u>	<u>-30#</u>	<u>+30#</u>
%Fe ₂ O ₃	<0.002	0.002	<0.002
Al ₂ O ₃	0.053	0.049	0.028
TiO ₂	0.034	0.023	0.032
Cr ₂ O ₃	<0.001	<0.001	<0.001
CaO	0.015	0.066	0.012
MgO	0.022	0.048	0.011
Na ₂ O	<0.01	0.011	<0.01
K ₂ O	<0.01	<0.01	<0.01
LOI	0.11	0.21	0.09
SiO ₂ (bal.)	99.7	99.6	99.8

SF8

	<u>-300#</u>	<u>-30#</u>	<u>+30#</u>
%Fe ₂ O ₃	0.088	0.062	0.023
Al ₂ O ₃	0.11	0.096	0.052
TiO ₂	0.81	0.58	0.42
Cr ₂ O ₃	<0.001	<0.001	<0.001
CaO	<0.01	0.010	<0.01
MgO	0.034	0.027	0.013
Na ₂ O	0.011	0.015	<0.01
K ₂ O	<0.01	<0.01	<0.01
LOI	0.15	0.14	0.09
SiO ₂ (bal.)	98.8	99.0	99.4

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Screen Analysis

	<u>SF3</u>	<u>SF5</u>	<u>SF8</u>
% +5#	62.2	34.0	21.3
+30#	11.8	8.8	17.5
+60#	4.7	3.2	10.4
+100#	2.6	4.0	6.4
+150#	1.4	5.3	3.5
+200#	1.1	6.8	2.9
+300#	1.2	8.7	3.7
-300#	15.0	29.2	34.3

Comments

In relation to the screen analyses, some of the lumps were partly conglomerates and hence were broken down in the sieve shaking process. However most of the larger lumps were moderately solid and could not be classed as conglomerates. In particular, SF5 larger lumps of quartzite were quite hard.

L. M. King

REFERENCE TO EXPENDITURE

SALARIES	\$1,000.00
TRAVEL - 2 FIELD TRIPS	\$1,800.00
LABORATORY	\$ 690.00