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No. 1186

SML 233

SALTIA CREEK

**PROGRESS REPORT TO LICENCE
EXPIRY/SURRENDER FOR THE PERIOD
30/9/1968 TO 29/9/1969**

Submitted by
Australian Blue Metal Ltd
1969

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THE READYMIX GROUP (S.A.) CHEMICAL TESTING LABORATORY

Mr. A.W. Hardwicke,
General Manager,
Australian Blue Metal Ltd.
ADELAIDE.



REPORT A279/69 (EXTRACTS)

Preliminary Investigations of Clay Specimens from S.M.L. 233
Hundred of DAVENPORT, PORT AUGUSTA AREA

YOUR REFERENCE: Application dated 15-12-68

MATERIAL: Clay Specimens

LOCALITY: Section No. 797, 796, A,B,C, 794, 738
795, 793, 739, 1070, 790, 791
792, 961, 740, 741, 971.

HUNDRED OF: Devonport

COUNTY OF: Frome

AREA: Port Augusta

WORK REQUIRED: Chemical Analysis; Quantitative Determination
of Calcium, Magnesium, Sodium, Potassium.

Firing Test; Visual Colour Inspection of
fired samples.

INVESTIGATION BY: S. LUDVIG

IDENTIFICATION AND DESCRIPTION OF SAMPLES

ANALYTICAL REFERENCE NUMBER	SAMPLE CODE NUMBER	DESCRIPTION OF SAMPLES
0790	1B/6	White small quantity of grit.
0791	1B/7	White small quantity of grit.
0792	1B/8	Off white (light Grey), small quantity of gr it
0793	2A/1	Off white (light Brown), small quantity of grit.
0794	2A/2	Off white (light Brown), small quantity of grit.
0795	2A/3	White, very small quantity of grit
0796	3A/1	White, very small quantity of grit
0797	3A/2	White, very small quantity of grit
0798	3A/3	White, very small quantity of grit.
0799	3A/4	Off white (Yellow), fair quantity of grit.

CHEMICAL ANALYSIS (By AA4 Atomic Absorption Spectrometer,
and Classical Wet Process)

RESULTS

ANALYTICAL REFERENCE NUMBER	CALCIUM (CaO) (per cent)	MAGNESIUM (MgO) (per cent)	SODIUM (N O) (per cent)	POTASSIUM (K O) (per cent)
0790	2.22	0.97	2.97	0.09
0791	2.27	1.16	3.01	0.17
0792	3.63	1.74	4.00	0.23
0793	3.71	1.76	2.96	0.37
0794	4.50	2.20	2.70	0.29
0795	2.61	1.31	2.21	0.22
0796	2.50	1.50	2.60	0.26
0797	2.29	1.22	2.21	0.25
0798	2.30	1.29	2.00	0.30
0799	3.37	2.63	2.00	0.36

FIRING TEST

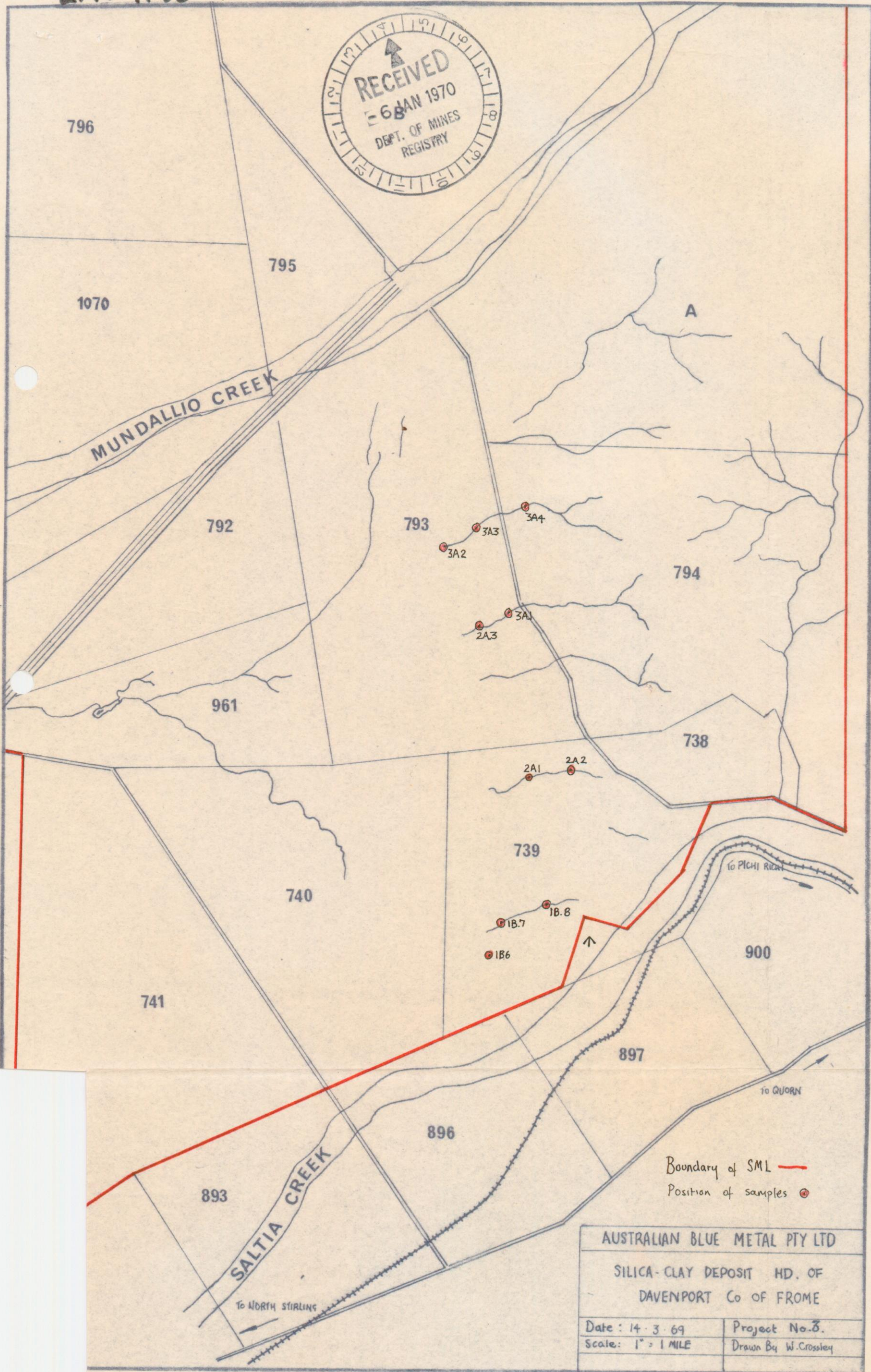
Samples were dried at 105°C for 8hrs. to 0.00% moisture. The dried specimens were fired in 100°C steps over the range of 700 - 1100°C. Sets of fired specimens of each sample were visually examined for texture and colour.

0790	Off white to white, glazing appeared at 1100°C Texture rather coarse.
0791	Off white to Light Brown, glazing marked at 1100°C Texture coarse.
0792	Off white to Light Red. Colour indicative of iron salts. Sample glazed at 1100°C.
0793	Same as above.
0794	Same as above.
0795	Brown discolouration, permanent at the temperature range of examination.
0796	Same as above.
0797	Same as above.
0798	Same as above.
0799	Same as above.

CONCLUSIONS AND RECOMMENDATIONS

- a) Fired samples indicate poor colour and renders the clay material unsuitable for refractory purposes.
- b) Washing out of the salts was not made, and no further laboratory work on the clay material is recommended.

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Boundary of SML —
Position of samples ●

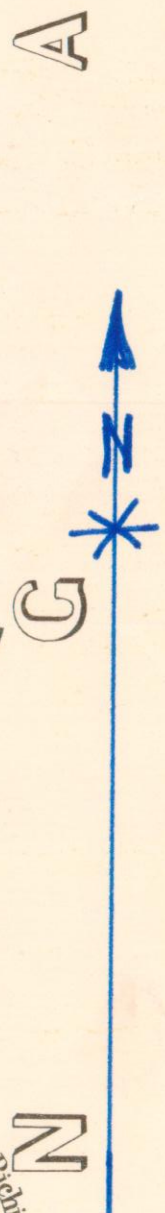
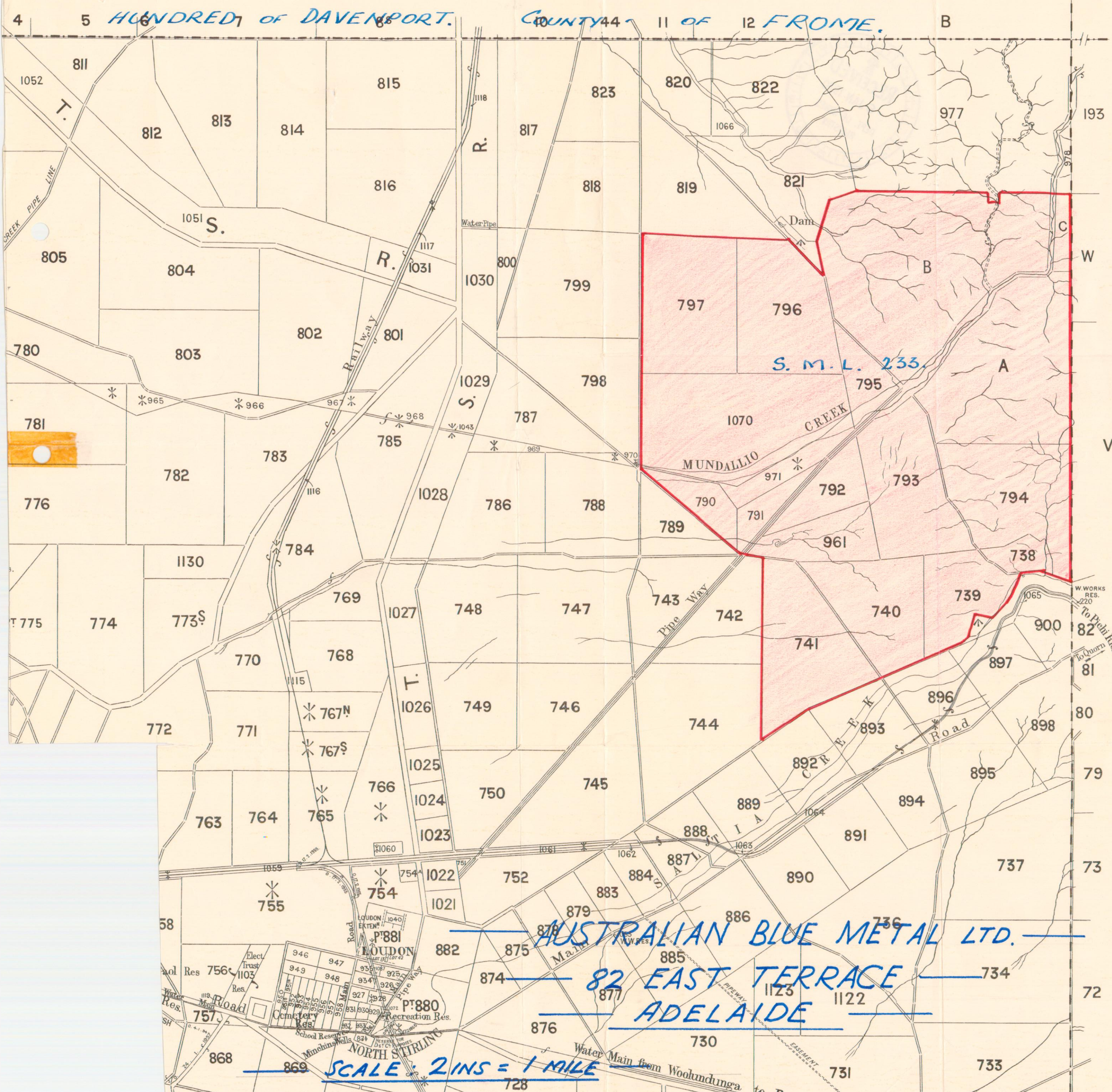
AUSTRALIAN BLUE METAL PTY LTD	
SILICA-CLAY DEPOSIT HD. OF DAVENPORT Co OF FROME	
Date: 14.3.69	Project No. 3.
Scale: 1" = 1 MILE	Drawn By W. Crossley

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Z I E R

4 5 HUNDRED OF DAVENPORT. 10 11 OF 12 FROME. B



1186-2