

TR3-30-31

Boring Pulbeena Limestone for Sampling

by H. G. W. Keid

The following is a summary of the analyses of the lime samples taken in December, 1957, from three bores put down on Lease No. 432P/M, situated at Pulbeena, near Smithton, and held in the name of A. Pearson.

The bores were intended to give some idea of the general grade of material to be produced.

All the material won from the bores was included in the samples.

The analyses were made at the Mines Department Laboratories at Launceston and sizing analyses were also done.

As there were no discards it was to be expected that a proportion of the product would be coarse and would not pass through the finer sieves. This material would be mostly vegetable matter.

The following is a copy of the analyses and sizings as submitted by the Chief Chemist, Mr. Manson:—

Sizings.

Percent. Weight.

Reg. No.	18-1	19	20	21	22	23	24	25	26	27	28	29-12
+ 6 mesh B.S.												
reject wood ..	0.7	0.4	0.8	0.6	3.0	3.1	1.2	1.2	1.2	Tr.	2.5	8.8
- 6 + 10 mesh	5.8	5.2	3.2	5.8	2.6	5.9	1.8	5.8	14.9	20.6	3.1	4.9
+ 30 mesh	8.5	8.4	11.3	6.4	22.9	17.1	11.7	17.7	36.0	38.2	17.1	12.8
- 30 mesh	85.0	86.0	84.7	87.2	71.5	73.9	85.3	75.3	47.9	41.2	77.3	73.5
CaO	39.7	44.8	45.6	20.1	24.4	25.7	45.6	42.9	43.0	38.8	41.9	38.9

The following table shows the log of the bores, the depth and positions of the various samples, their grade both in lime and the calculated figure for calcium carbonate.

Sample No.	Depth Sampled.	Description.	Total Depth.	CaO %	CaCO ₃ %
1	1' 0"	Dark peaty soil	1' 0"	39.7	71
2	3' 6"	Soil, white lime, peat, lime	4' 6"	44.8	80+
3	5' 0"	Lime yellow in colour	9' 6"	45.6	81.5
4	4' 6"	Lime blue in colour— timber at 12 feet Sand	14' 0"	20.1	36
5	1' 0"	Overburden dark in colour	1' 0"	24.4	43.6
		No sample to 5 feet	5' 0"		
6	4' 6"	Some lime, black soil, timber	9' 6"	25.7	45.8
7	5' 0"	Lime	14' 6"	45.6	81.5
8	2' 6"	Lime Coarse gravel	17' 0"	42.9	76.8
9	1' 0"	Black soil and some lime	1' 0"	43.0	77
10	4' 0"	Lime, peaty soil at bottom	5' 0"	38.8	69+
11	4' 6"	Dark lime	9' 6"	41.9	74.5
12	4' 6"	Lime to dark sand	14' 0"	38.9	69+

Sample 4 is low in grade, probably due to admixture of sand into which the bore passed at approximately 14 feet.

Samples 5 and 6 are low grade as they are in recorded overburden which would be stripped in mining.