



DEPARTMENT OF MINES—TASMANIA

892210

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14th September 1981

Renison Ltd  
P.O. Box 202  
St. Helens 7216  
TASMANIA

Attent. Mr. Andy Ross

Dear Sir,

Blue Tier Sampling

Following your request for the method of sampling employed on Blue Tier drill core samples received in this laboratory the following is the procedure used. To illustrate the degree of crushing and grinding samples were selected at random and sized. These sizings are appended.

2. Samples as received weighed about 1.2 kg, typical masses are:-

813159      1.4 kg

813264      1.0 kg

813477      1.1 kg

3. These samples were jaw crushed and riffled into a quarter for further treatment and the remainder held at that stage. Sizings of the above three samples at this stage are given in the appendix.

4. The quarter of the original sample was Braun pulverized the size of the pulverized material is appended for samples 811167, 811656 and 811816.

5. After mixing thoroughly the pulverized material was spread out and 20g taken for further grinding.

6. This 20g was ground in a vibratory mill to produce a sample for XRF. The sizings of the ground material for XRF on the above three pulverized samples are given in the appendix.

7. Regarding our test work on the grinding of various materials in vibratory mills and the effect of grinding on XRF results our Project R630 done in 1972 shows what happened when quartzite, granite and limestone were ground and the effect found when grinding for various times on tin and tungsten determinations. This project is reported in Tech. Rep. No 17, p. 175.

8. I trust the foregoing meets your requirements.

Yours faithfully,

(H. K. Wellington)

Chief Chemist & Metallurgist.