Size analysis after ball milling:	+200 mesh	2% max.
	−200 mesh +300 mesh	10% max.
	−300 mesh	90% min.

Milling time in Linatex HC 20 ball mill not more than 2.5 hours.

Settling rate at 1.5 (bath) S.G. demagnetised: 0.5 inches per minute maximum

The above details are part of Simonacco Ltd. Specification WTR 61/1/63.

Typical values for Bigginden (Qld.) product are:

Total Fe	Fe_3O_4	Fe_2O_3	TiO_2	SiO_2
66.4	84.8	8.0	0.28	3.4
Al_2O_3	CaO	MgO	MnO	
1.0	1.9	0.3	0.4	

S.G.		4.8
Magnetics content	(Davis Tube)	95.1%
Susceptibility	(at 800 oersteds)	0.055 e.m.u./gm.
Coercive force		62 oersteds
Moisture		8.0%

Sizing Analysis:	+200 mesh	1%
	−200+270 "	2
	−270+325 "	2
	−325 "	95
	+26 microns	24%
	+20 "	12
	+14 "	14
	+10 "	11
	+7 "	4
	−7 "	24

As with other magnetites produced for use in coal washeries, the Biggenden material is upgraded by wet magnetic separation after grinding. The primary ball mill product is screened at 100 mesh and screen undersize is fed to two magnetic separators to remove non-magnetics. The magnetic fraction is then fed to a secondary ball mill in closed circuit with a cyclone classifier. Undersize material from the classifier is filtered and sent to product storage.

NEWCASTLE: 6/10/71.
WDP:LB