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DEPARTMENT OF MINES—TASMANIA

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R.731: Moina Wrigglite Project

The following is a summary of work so far in this exploratory project.

Heavy Liquid Separation A separation has been made on a sample passing a 12.8 mm screen at a density of 2.95 t/m³ the minus 1 mm material not being treated. There was no significant separation.

Grinding Three grinding conditions have been used in the following tests. The nominal sizing of the ground products are:-

<u>Grind</u>	<u>Sizing at which 95% passes</u>
A	600 μ m
B	150 μ m
C	38 μ m

Magnetic Separation

<u>Grind</u>	<u>Magnetic Fraction Assay %S.Fe*</u>	<u>Iron Distribution in the Magnetic Fraction(%)</u>
A	37.8	76
B	44.9	73
C	56.8	69

In Grind 'C' the non magnetic fraction contained about 90% of the fluorite and assayed 9.9% F. (The head assay 7.8%F.)

* S.Fe = HCl soluble Fe.

Gravity Concentration

No significant results although in all grinds the table tailings assay higher in fluorine.

Flotation

Grind B. In a sulphide flotation the sulphide concentrate removed assayed:-