



Auto Blue

Research Center
June 16, 1949

File 411

C. V. Miller, GHO

The Colonial Sugar Refining Company, Ltd.
Blue Ore

The sample of returned processed blue ore was received the other day. The New Holland Manufacturing Company passed the ore through a crusher at the speed of 600 RPM with bar setting of the crusher at $1\frac{1}{2}$ ". We believe that this opening is too large and that they should have had a crusher discharge of not more than $\frac{1}{2}$ ". We have set aside some of this material for future reference in case you may wish to have it forwarded to The Colonial Sugar Refining Company, Ltd. in Australia. The remaining amount of processed ore was screened on our 16 M rotax screen and the fibre was aspirated. The following data were obtained:

Speed of Crusher	600 RPM
Bar Setting of Crusher	$1\frac{1}{2}$ "
Sizes of Ore discharged from Crusher	$\frac{1}{4}$ " x $\frac{1}{4}$ " & 2" x $\frac{1}{4}$ "
Screening on 16 M rotax screen	
+16M Oversize	87%
Aspirated Product.	1.4%
-16M Undersize.	<u>11.6%</u>
	100.0%
Fibre in undersize (recovered) (6D grade)	2.0%
Fibre -16M recovered from crushed ore (4D grade)	<u>1.4%</u>
Total Fibre Recovered	3.4
Q.S. of aspirated product 0.3 - 6.4 - 3.1 - 6.2 (4D high pen) ⁽¹⁾	
Q.S. undersize 0 - 0 - 7.1 - 8.9	

*Contains ore with fibre not released.

(1) Equivalent to our Product #7 - See Report #411-49
where we obtained a 30% extraction and a high pen 4D.

The undersize had approximately 2% fibre equivalent to a 6D grade. The aspirated fibre from the oversize was 1.4% grading 4D with a high pen content. If you refer to our recent report #411-49 you will see that this material is equivalent to our Product #7. During our processing of this ore we obtained the same grade of fibre but our extraction was 30%.

We are forwarding a copy of this to the Mines so that they may know what other types of equipment may do on this type of ore.

M. S. Badallet

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