

[REDACTED]

LABORATORY TEST REPORT

Name: [REDACTED]

Test No: S-57-60

Date: [REDACTED]

Material: Ground Limestone

Objective: Process one (1) sample over the Horizontal Resonant Screen to remove the -100 mesh material. The objective is to improve a -40 + 200 mesh product.

Test #1

Run #1

Feed Bulk Density 94Y^3
Horizontal Resonant Screen 35 + 100 Mesh Screen Cloth

<u>Sample</u>	<u>Screen Fr.</u>	<u>% By Wt.</u>
1	+ 35	38.0
2	- 35 + 100	34.2
3	- 100	27.8

Run Time 22 Minutes Wt. 112.5# over Lab Model Screen

Note: No 40 mesh screen cloth available so a 35 mesh screen cloth was used for top scalping.

The - 35 + 100 mesh material re-run over the screen for a cumulative % passing test

<u>Screen Fr.</u>	<u>% By Weight</u>	<u>Cumulative % Passing</u>
+ 100	34.6	-
- 100	15.4	33.7% of Total Feed

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Test #2

Head Feed Bulk Density - 94#F³

Run #1 Horizontal Resonant Screen 35-50-70 and 100 mesh screen Cloth

<u>Sample</u>	<u>Screen Fr.</u>	<u>% By Weight</u>
13 Min. 1	+ 35	31.1
16 " 2	- 35 + 50	12.5
26 " 3	- 50 + 70	20.6
14 " 4	- 70 + 100	7.7
30 Sec.	-100	27.9

Total Wt. Run - 97.5#

Note: + 100 mesh material re-run twice for cumulative % passing test

<u>Screen Fr.</u>	<u>% By Wt.</u>	<u>Cumulative % Passing</u>
+ 100	62.1	4.5
- 100	37.9	30.7

<u>Screen Fr.</u>	<u>% By Wt.</u>	<u>Cumulative % Passing</u>
+ 100	33.6	4.0
- 100	16.4	31.6

Run #2, V-135 Gravity Table, Micro-Mix Deck Without Riffles,
- 35 + 50 Mesh Material

<u>Sample</u>	<u>% By Wt.</u>	<u>Description</u>
6	5.1	heavy
7	13.6	Cut #2
8	33.7	Cut #3
9	47.6	Light

Note: No individual sample of -35 + 50 material included in samples forwarded. The - 35 + 50 are the "combined" samples marked 6,7,8,9 from Test no.2.