

File

Cleveland

Aux.

October 22, 1963

S. R. Doolidge, Jr.

Coffeyville Technical Progress
Weekly Report
Oct. 14 to Oct. 18, 1963BARIUM CARBONATE - H₂S RECOVERY

The apparatus is still in the process of assembly, devoting time to it when time is available.

BARIUM CARBONATE - WET FEEDING

We were not in a position to do any experimental work this week.

BARIUM HYDRATE - REFRIGERATION

We are awaiting the receipt of a small single refrigeration leaf to be coated with Teflon.

BARIUM CARBONATE - PELLETIZING

Work has not started on this as yet.

LEAD SILICO - CHROMATE

The material, some eight to ten pounds, is now ready for Mr. Gabbert to test. It will be shipped to him shortly. An attempt to dry mill a small amount of the final cake in a hammer mill resulted in a very marked decrease in color. The material is very abrasive. We finally resorted to dry milling in a pebble mill.

We have been asked to prepare more material. Our facilities for roasting the silica-lead sulphide mix are limited to small quantities. Chicago has agreed to roast some in their small rotary kiln.

ZINC MOLYBDATE

The 4,000 pounds of zinc molybdate have been made and are ready for shipment to Acme.

The material analyses:

% ZnO = 66.2
% MoO₃ = 28.6
% H₂O = 5.2 (by difference)

BASIC SULFATE OF WHITE LEAD

Several experiments have been carried out and the results are very encouraging. Mexican litharge in an aqueous slurry has been treated with sufficient sulfuric acid to produce a final product that contains about 20% basicity, the acceptable range being 15 to 28%.

There is a little technique involved which is not difficult. No calcination is necessary.

The final product is whiter in color than New Jersey's zinc material.

OZLO 12 - SOLUBLE SALTS

We shall do some exploratory work in the Laboratory to determine if we can successfully treat Bunker Hill fume with the exact stoichiometric amount of zinc sulfate, and also treat with a deficiency of zinc sulfate to make an acceptable Ozlo 12, in an attempt to lower the water soluble salts.

ZINC SULPHIDE

No satisfactory material has been made as yet.

A true ammonium sulfide is being made up, using ammonium hydroxide and hydrogen sulfide. Previous strikes have been made using zinc sulphate and partially converted ammonium hydroxide to sulfide, with the resulting product not satisfactory; low in hiding power.

BARIUM CARBONATE - TITANIUM ALLOY

Lee Fuller has received a letter from Titanium Alloy Division, National Lead Company, in regard to the specially prepared sample of barium carbonate we made for them in May of this year. The sample was designated as CPP 2106.

National found it extremely interesting; many benefits, also some detrimental aspects. They have completed their work and request no further samples, nor ask us to produce such a material commercially.

The material analysed:	Total sulfur as S	-	0.0005%
	Sodium as Na ₂ O	-	0.00001%
	Fisher No.	-	0.50

ORH

V. R. Hornum

cc: J. V. Humm
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