

To R.J. McLeod  
From P. Slattery  
Subject Arsenic Suppression - Interim Report

Date March 20, 1967

Ref. PS/dp

(a) Overall Arsenic Reductions

Correction to Memo dated March 1st. Lime additions should read 1 and 10 lbs per day respectively.

Test #6	lbs. As. per day	lbs. As. per day
Dorrco W.T. O'Flow	41.2	Calcine Residue 1.0
Mill W.T. O'Flow	23.3	Final Barren 13.3
H.C.D. W.T. O'Flow	330.4	

  

No. Lime	Reduction in Arsenic	lbs. As. remaining
1 lb. per ton lime	37% " " "	257
2 lb. per ton approx.	68% " " "	133
	90% " " " Est. by extrapolation	41

The inclusion of HCD Residue & Barren 60.7 lbs As. per day was tried with 1 lb. per ton lime, without obtaining any reductions in arsenic content.

Test #8

Dorrco W.T. O'Flow	66.3	Calcine Residue repulped)	6.9
Mill W.T. O'Flow	30.9	with Calcine Barren)	
H.C.D. W.T. O'Flow	315.0		

  

No Lime	Reduction in Arsenic	
1 lb. per ton lime	44% " " "	235
2 lb. per ton lime	69% " " "	132
	90% " " " Est. by extrapolation	42

The inclusion of HCD Residue & Barren 62.4 lb As. per day, again gave poor results, but indicated that it might be possible to treat it separately.

The above tests indicate that rate of mixing, delay from O'Flow to mixing and the order in which mixing takes place has an effect on the amount of Arsenic removed from solution.

Test work continues with emphasis on HCD Residue treatment.

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