

To R.J. McLeod; A.D. Coggan

Date December 15, 1967

From P. Slattery

Ref. PS/mw

Subject Arsenic Suppression - November Survey

	BEFORE TREATMENT		AFTER TREATMENT			AV. DAILY lb As in Sol.
	ppm As	lb As	ppm As	lb As	lb Lime	
Calcine Arsenic Wash Thickener Water (#7 O'flow)			34.46	67	1380	67
Dust Treatment Residue						
- No soda ash added	839	34.8	71.8	3.48	785	3
- With soda ash added	764	33.9	620	32.2	525	32
TOTAL MONTH	818	34.6			715	11
Sundry Sources						9
Mill Waste			13.95			87

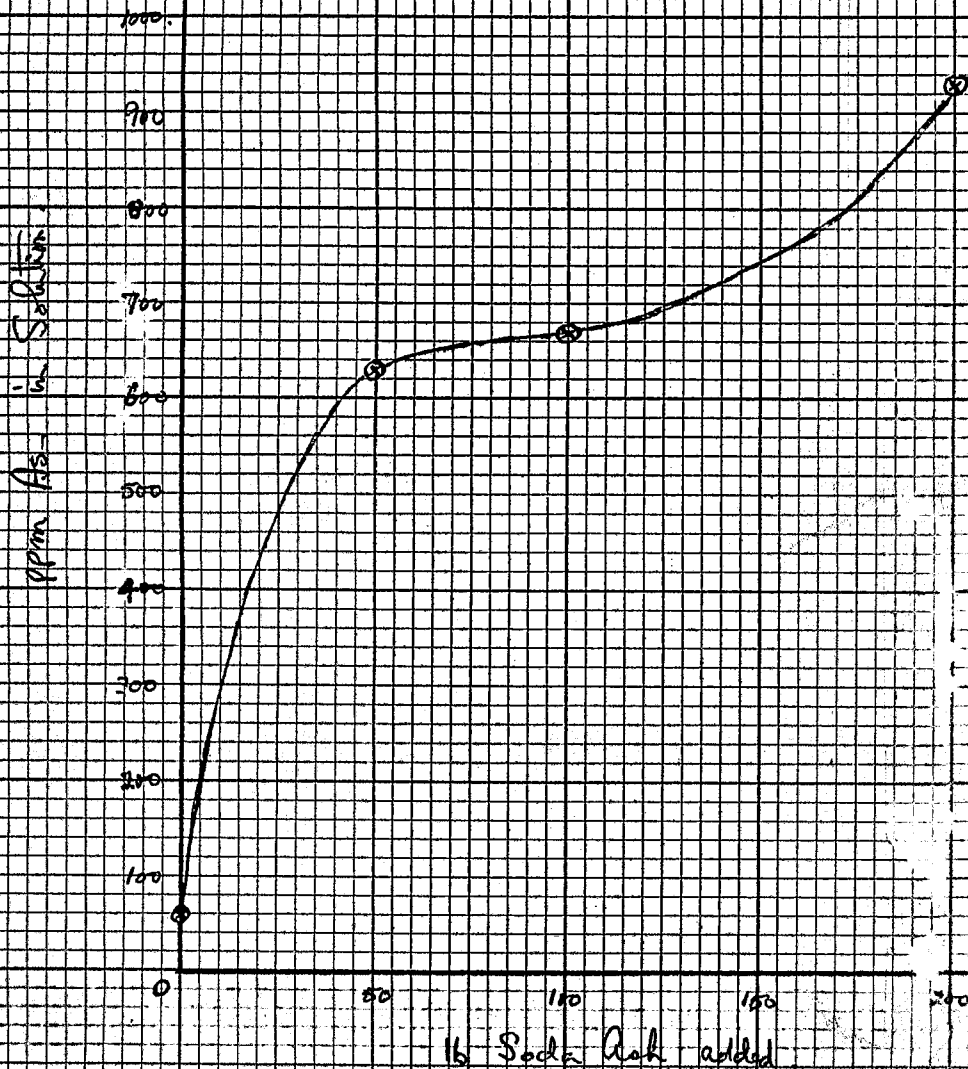
After raising the pH with lime, the addition of Soda Ash affects the arsenic assay detrimentally. A graph on a series of lab tests is attached to show the extent of the effect.

*Slattery*

P. Slattery  
Jr. Mill Engineer

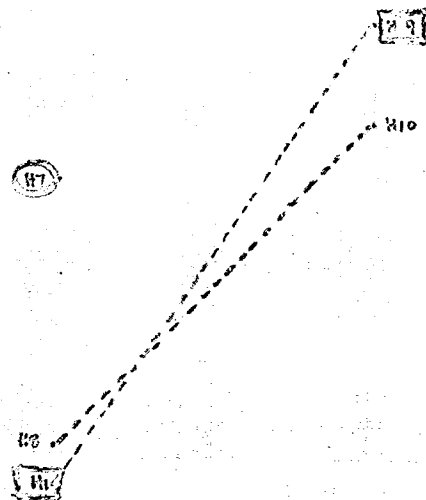
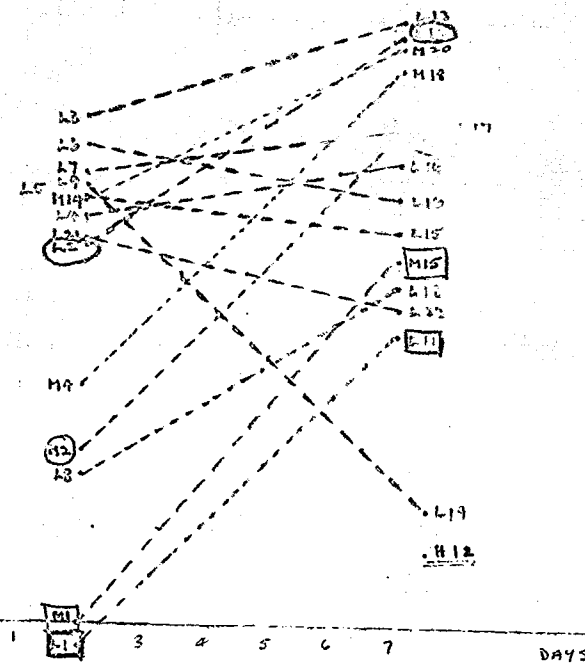
The effect of addition of Soda Ash, after raising the pH of DTR Pulp with lime.

200 lb  $\text{CaO}$  raised pH to 12.4  
 After Soda Ash additions  
 did not affect the pH.



6.5% As. 81.0% Recovery \$ 923.40  
 4.15% As 20.0% Recovery \$ 921.12

55  
50  
45  
40  
35  
30  
25  
20  
15  
10  
5  
0  
-5  
-10  
-15  
-20  
-25  
-30  
-35  
-40  
-45  
-50  
-55



11.3% As. 76.4% Recovery \$ 870.96