

017069

## Metallurgy - Various Operating Parameters

L.P.T. - P.J.B. - H.L.A., June 13, 1972

Vangorda  
Zn - Grade + Recovery OK  
Pb - Grade very low  
Recovery only fair

Feed TPD Rate	Bulk TPD	Assay								Lead Recovery			Zinc Recovery			Total Production Year SDT at 95% Available			
		Heads		Bulk		Select		Tail		Sel.	Bulk	Total	Sel.	Bulk	Total	Pb	Zn	Bulk	
		Pb	Zn	Pb	Zn	Pb	Zn	Pb	Zn										
<u>1972</u>																			
J	7,792	258	4.33	6.16	18.5	28.5	70.2	51.0	.52	1.47	77.2	8.8	86.0	65.1	9.1	74.2			
F	6,761	258	4.12	5.47	18.9	28.9	69.2	50.8	.50	1.31	71.2	16.2	87.4	55.7	19.4	75.1			
M	8,622	274	4.55	6.36	18.0	29.6	70.1	51.3	.60	1.60	74.3	11.7	86.0	60.4	13.7	74.1			
A	8,630	258	4.47	6.25	19.4	27.5	72.6	51.9	.67	1.79	70.4	14.5	84.9	57.3	14.7	72.0			
M	8,360	300	4.47	5.74	19.6	28.0	70.3	50.7	.63	1.57	72.4	12.7	85.1	58.0	14.2	72.2			
	B.M.S.		4.10	5.17			51.7	55.4			89.7			78.1					
	Galisher mills		4.59	4.77			56.6	54.4			83.8			79.7					
	Dowa		4.01	4.91			49.9	49.4			77.0			60.4					
	Existing Mill		2.06	3.76		Noranda	54.1	56.2			63.3			71.4					
						Anvil	31.6	35.3			81.5			63.5					
	9,500	250	3.31	5.65	18.9	29.8	70	52	.56	1.63	68.1	14.9	83.0	58.1	13.9	72.0	128,099	238,529	88,513
	9,500	150	3.31	5.65	18.9	29.8	70	52	.64	1.80	72.0	9.0	81.0	60.7	8.3	69.0	106,452	208,050	86,688
																	112,347	217,412	52,013
<u>*Complete Expansion</u>																			
	10,000	250	3.31	5.65	18.9	29.8	70	52	.40	1.29	73.1	14.2	88.0	64.1	13.3	80.0	119,976	241,685	86,688
	10,700	250	3.31	5.65	18.9	29.8	70	52	.40	1.29	73.1	14.2	88.0	64.1	13.3	80.0	128,099	258,048	88,513
<u>* Complete Expansion - additional 1500 H.P. for grinding flotation feed plus proposed flotation circuit expansion</u>																			

Vangorda  
B.M.S. grind = 81.9% - 325 (78.4% - 400)  
Galisher grind = 87% - 200 (+ con regrinding)  
Noranda grind = 83% - 325