

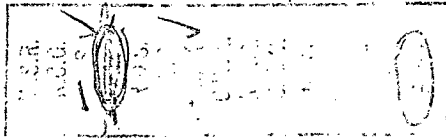
July 17, 1970

Metallurgical Studies

Vangorda ore has been the subject of numerous laboratory ^{trials} trials producing bulk and differential concentrates. They may be summarized as follows:

<u>Tested by</u>	<u>Date</u>	<u>Method</u>	<u>Head</u>	<u>Lead</u> <u>Conc.</u>	<u>Recovery</u>	<u>Ag. oz</u> <u>Head</u>	<u>Zinc</u> <u>Conc.</u>	<u>Recovery</u>	<u>N.S.R.</u>		<u>\$</u> <u>Per Ton Ore</u>	
									<u>Lead</u>	<u>Zinc</u>		
Noranda	1954	Differential	3.2	46.1	77.6	5.2	53.0	49.5	67.45	47.40	6.50	
Brunswick	1969	"	3.76 4.1	51.55 51.7	86.51 89.7	18.52 17.06	4.9 5.2	56.25 55.4	72.20 78.1	84.45	53.40	9.40 9.1
Galigher	1968	"	3.9	56.5	72.5	5.1	50.8	51.5	* -		-	
Galigher	1969	"	4.1	48.2	73.8	4.8	55.4	42.7	* -		-	
	1969	"	4.6	56.6	83.8	4.7	54.4	79.7	* -		-	
Dawa	1969	"	4.0	49.8	77.0	4.9	49.4	60.4				
Noranda	1970	"	3.7	37.6	83.4	4.5	48.1	55.5	47.35	35.90	6.04	
Noranda	1970	"	3.7	54.1	63.3	4.5	56.2	71.4	87.95	54.90	7.50	

VA
R.O.A.
Vangorda
trials
(1)



REFRACTORY ORES METALLURGICAL COMPARISON

~~CONFIDENTIAL~~

Prepared by H. L. Ames

	COMPANY	TEST	DATE	FLOAT	LEAD - %			ZINC - %			Pb + Zn%	Pb + Zn%
					Head	Con	Recovery	Head	Con.	Recovery	Assay	Recovery
ANVIL	Galigher	Lab.	Feb. 1967	<u>Differential</u>	3.4	70.1	89.0	5.9	54.0	86.0	124	175
B.M. & S. #12	B.M. & S.	<u>Mill</u>	1968		3.4	32.2	66.7	8.6	50.7	76.6	83	142
VANGORDA	Noranda	Lab.	1954		3.2	46.1	77.6	5.2	53.0	49.5	99	127
	Mitsui	Lab.	1969		4.0	49.8	77.0	4.9	49.4	60.4	99	137
	Galigher	Lab.	1968		3.9	56.5	72.5	5.1	50.8	51.5	107	124
		Lab.	1969		4.1	48.2	73.8	4.8	55.4	41.7	104	116
SWIM LAKE	Galigher	Lab.	1968		4.1	47.1	61.4	5.1	54.0	39.9	101	101
	Mitsui	Lab.	1969		3.6	52.2	71.7	4.4	52.7	75.3	105	147
VANGORDA	Mitsui	Lab.	1956	<u>Bulk</u>	3.8	20.4	78.2	5.2	35.6	92.3	56	170
	Noranda	Lab.	1965		3.7	24.2	81.5	5.3	36.4	85.0	61	166
B.M. & S. #6	B.M. & S.	<u>Mill</u>	Feb. 1969		2.5	13.8	69.7	5.7	36.5	79.8	50	149

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Vangord
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