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Results Obtained

2. Crockett Magnetic Separation

Grind	Fraction	Percent			Percent Distribution	
		Mass	S.F	S.Fe	S.F	S.Fe
A	M/S M/A1	41.9	5.4	37.8	30	76.1
	M/S M/A2	6.4	9.2	14.1	8	4.3
	M/S N N	51.7	9.2	7.9	62	19.6
	HEAD	100	(7.6)	(20.8)	100	100
B	M/S M/A1	34.1	4.2	44.9	18	72.7
	M/S M/A2	9.0	8.8	16.0	10	6.8
	M/S N	56.9	10.2	7.6	72	20.5
	HEAD	100	(8.0)	(21.1)	100	100
C	M/S M/A1	25.8	1.4	56.8	5	68.6
	M/S M/A2	4.8	8.6	11.3	5	2.5
	M/S N	69.4	9.9	8.9	90	28.9
	HEAD	100	(7.6)	(21.4)	100	100

Magnetic separation of the material at a size of grind of C, (95% -38µm) has been virtually ideal. That is, the percent mass of magnetics equals the Davis tube head value for magnetics of 26 percent. The fluorite content of the magnetics in each test has decreased as the size of grind has become smaller in particle size. Grind C magnetics contains only 5 percent of the overall fluorite compared with 30 percent for grind A magnetics.