TR9-155-157 R. 462

22. CORNWALL COAL COMPANY WASHERY: JIG MIDDLINGS

A sample of jig middlings from the Cornwall Coal Company's washery was submitted for sink-float examination after crushing to minus one inch size.

The object of the investigation was to determine the quantities of usable coal that could be obtained by retreatment.

Summary

Shown below are the quantities and grades of coal that were obtained at the densities shown.

	Individual Per Cent		Cumulative Per Cent	
	Weight	Ash	Weight	Ash
Float at Sp.G. of 1.4	2.5	13.1	2.5	13.1
Sink at 1.4 float at 1.5	12.8	22.2	15.3	20.7
Sink at 1.5 float at 1.6	16.5	33.9	31.8	27.6

est Res	uits			Per Cent		
			Weight	rer Cent	Ash	
1	Float a	at 1.4				
	L.	3"	0.3		18.8	
	7	•	0.3		18.1	
	- 1	1"			14.3	
		4"	0.5		- Production of the Control of the C	
	+	6 mesh	0.7		11.3	
	+	30 mesh	0.7		9.5	
	Comp.	Float at 1.4	2.5	dayer	13.1	
	Float a	at 1.5—Sink at 1	.4			
					045	
		3"	4.1		24.5	
	+	1"	1.9		24.1	
		4"	2.7		21.4	
	+	6 mesh	2.6		19.5	
	+	30 mesh	1.5		19.3	
1.81	Comp.	Float at 1.5	12.8		22.2	
	Float	at 1.6—Sink at	1.5			
-					000	
	+	3"	4.1		36.6	
		½"	2.1		35.8	
		4"	4.2		33.4	
	+	6 mesh	4.1		32.2	
	+	30 mesh	2.0		31.4	
	Comp.	Float at 1.6	16.5		33.9	
	Sink a	t 16			DA _ US.	
					56.5	
	- ±	1"	12.4		59.8 61.1	
	+	1"	14.2		61.1	
	+	6 mesh	9.8		58.0	
	+	30 mesh	8.9		61.7	
Ulivan	Comp.	Sink at 1.6	66.0		59.0	
		ted Minus 30			40.0	
		n	2.2		43.6	
ummati				and the same		
			Individua Weight	Per Cent Ash	Cumulative Weight	Per Cer Asl
loot -t	1.4					
loat at			2.5	13.1	2.5	13.
			12.8	22.2	15.3	20.
loat at			16.5	33.9	31.8	27.
ink at	1.6	us 30 mesh	66.0	59.0	97.8	48.
Intronto	d Min	us 30 mesh	2.2	43.6	100.0	48.

Coal Middling

Initial Sizing. Sample received in wet condition in which state it was hand screened and fractions weighed wet. Sizing was—

	%	Cum. %
+ 3"	6	6
+ 2"	15	21
+ 1½"	14	35
+ 1"	14	49
+ 4 mesh	33	82
— 4 mesh	18	100
	- 7235	
	100	

All the plus 1'' material was reduced to minus 1'' using a hand hammer. Material then air dried.