7R 10_121_122 R. 495

CONSOLIDATED GOLDFIELDS—RENISON LTD: MILL VANNER TAILING—TILTING DECK TESTS

Sample

The sample was received as pulp and a sample was obtained for sizing, and assayed with the following results.

Vanner Tailing

Sulphur 4.2 Per cent.
Total Tin 1.27 Per cent.
Vanned Tin 0.1 Per cent.
Tin recovered by vanning assay 7.9 per cent.

These preliminary examinations indicated that less than 10 per cent of the tin would be recoverable by gravity concentration and accordingly concentration tests were restricted to check on this low recovery.

Summary

Tilting deck tests on this material showed inverse concentration in all cases, two of which are quoted as being typical. Careful sizing to eliminate the coarser gangue from the deck feed could possibly result in some degree of concentration. The investigation was not extended to cover this modification.

Sizing analysis and vanning assay indicate little prospect of useful concentration results.

MILL VANNER TAILING -R.495

	Per Cent		Per Cent Distribution		
Fraction	Weight	Tin	Tin	Tin Cumulative	
+200 B.S	4.60	0.16	0.6	0.6	
Cyclosizer fr. 1	4.70	0.23	0.9	1.5	
2	7.25	0.13	0.8	2.3	
3	9.50	0.14	1.1	3.4	
4	9.80	0.83	6.6	10.0	
5	7.25	2.21	13.2	23.2	
—5	56.90	1.66	76.8	100.0	
Composite	100.0	1.23	-	THE RESERVE	

Conc. Period		Deck Feed			Deck Concentrates Per Cent		Deck Tailings			
							nt	6881	Per Cent	
$Test\ No.\ Minutes\ \overline{Ga}$	l min ft.	% Solids	Type	Weight	Tin	Tin Dist.	Weight	Tin	Tin Dist.	
Test at De	eck Slope of	2 inches	per foot 20	Rougher	6.3	1.05	5.0	93.6	1.33	95.0
Text at De	eck Slope of	1 inch pe	er foot							
6	4	1	20	Rougher	17.0	0.87	11.8			
			Scavenger	6.5	0.93	4.8				
			Composite Ro.	23.5	0.89	16.6				