

Leach test at different densities

Methodology

- Bulk samples of thickener underflow was used for the test work
- All samples were done in triplicate
- Pulp was made up to densities of 45%, 50% and 55% for samples A, B and C respectively.
- Sodium cyanide, caustic soda and hydrogen peroxide were added at a consumption of 1.3kg/t, kg/t and 0.6kg/t respectively.
- All samples were bottle rolled for hours
- pH was at an average 9.12
- Solution samples were taken at hourly intervals for the first four hours, then 8hrs and .
- Head grade for the bulk samples was assayed.
- Tails at the end of the bottle rolls were thoroughly water washed and reassayed.

Results

sample	density	head	gold in solution g/t						tails	recovery
			1hr	2hr	3hr	4hr	8hr	24hr		
A	45%	3.44	1.43	1.55	1.66	1.66	1.86	2.01	0.44	
B	50%		1.67	1.93	2.02	2.05	2.05	2.71	0.43	
C	55%		1.73	1.84	2.51	2.49	2.53	3.3	0.54	

