

# R. 321 TR2-154-155

## STOREY'S CREEK—JIG MIDDLEINGS—INTERIM REPORT

### Sizing Analysis

Fraction	Percent		
	Weight	WO <sub>3</sub>	Distribution
— 5 + 10 mesh .. ..	13.1	11.8	15.3
+ 30 mesh .. ..	74.0	10.1	74.7
+ 60 mesh .. ..	7.2	10.8	7.7
+ 100 mesh .. ..	3.0	3.2	1.0
+ 200 mesh .. ..	2.0	3.9	0.8
— 200 mesh .. ..	0.7	14.9	1.0
Composite.. ..	100.0	10.1	..

Specific Gravity: 4.35

The high density caused by wolfram and pyrite makes jig concentration difficult.

Much of the wolfram is free and can be concentrated without grinding. As shown in the table below, 60% of the wolfram was recovered by jigging. The jig tailing after crushing to — 20-mesh B.S. size and tabling added another 3.9% recovery leaving a tailing with 36% of the wolfram and an assay value of 3.88% of tungstic oxide.

### Results

	Percent		
	Weight	WO <sub>3</sub>	Distribution
Jig Concentrates .. ..	9.19	63.2	60.0
Table Concentrates .. ..	0.61	62.0	3.9
Table Tailing .. ..	90.2	3.88	36.1
Composite .. ..	100.0	9.7	..

Although much of the wolfram can be concentrated without crushing there is still a substantial loss in the table tailings. Further recovery can be obtained by a somewhat finer grind, flotation rejection of sulphides followed by table concentration.