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4. Quaternary Section (Grinding Through 53  $\mu$ m)(a) Feed to Section

Fraction $\mu$ m	Percent					Percent Distribution			
	Mass	WO <sub>3</sub>	Sn	F	S.Fe	WO <sub>3</sub>	Sn	F	S.Fe
Primary -53	42.17	0.18	0.25	11.7	22.0	45.3	43.9	52.1	43.7
Secondary -53	9.43	0.16	0.23	9.2	22.3	8.2	8.7	8.1	9.6
Tertiary -53	10.14	0.12	0.27	8.2	20.3	9.0	10.0	8.8	9.6
M/S 5 M/A	17.93	0.08	0.23	6.1	36.3	10.6	15.1	11.5	30.2
T3T	19.80	0.08	0.27	9.3	6.7	10.3	19.9	19.5	6.7
Head	99.47	(0.13)	0.25	(9.6)	(21.4)	83.4	97.6	100.0	99.8

(b) Magnetic Separation

Fraction $\mu$ m	Percent					Percent Distribution			
	Mass	WO <sub>3</sub>	Sn	F	S.Fe	WO <sub>3</sub>	Sn	F	S.Fe
M/S 7N	67.97	0.14	0.31	12.0	7.4	65.9	76.9	88.7	23.3
M/S 7 M/A	31.50	0.08	0.18	3.3	52.4	17.5	20.7	11.3	76.5
-53 Head	99.47	(0.12)	(0.27)	(9.2)	(21.7)	83.4	97.6	100.0	99.8

(c) Concentration of -53 M/S 7N

Fraction $\mu$ m	Percent					Percent Distribution			
	Mass*	WO <sub>3</sub>	Sn	F	S.Fe	WO <sub>3</sub>	Sn	F	S.Fe
M/S 8N	0.04	30.2	19.7	-	-	6.9	2.8	-	-
M/S 8 M/A1	0.05	19.7	4.0	-	35.7	5.8	.8	-	.1
M/S 8 M/A2	0.03	24.8	9.7	-	-	4.9	1.2	-	-
M/S 9 N	0.02	2.2	1.4	-	-	.3	.1	-	-
M/S 9 M/A1	0.05	1.3	0.60	-	32.7	.4	.1	-	.1
M/S 9 M/A2	0.06	0.78	0.48	-	-	.3	.1	-	-
F4T	0.25	(12.1)	(5.3)	-	(13.0)	18.6	5.1	-	.2
F4C	0.16	0.68	1.4	0.9	6.0	.6	.8	Tr.	Tr.
T4C	0.41	(7.7)	(3.7)	(0.4)	(10.3)	19.2	5.9	Tr.	.2
T4M	1.93	0.21	0.46	9.7	9.8	2.5	3.4	2.2	.9
T4T	65.63	0.11	0.27	11.1	7.3	44.2	67.6	86.5	22.2
M/S 7N	67.97	(0.16)	(0.30)	(11.0)	(7.4)	65.9	76.9	88.7	23.3
Head Analysis		0.14	0.31	12.0	7.4				

\*Calculated figures in order are:- 0.04 (0.0373), 0.05 (0.0482), 0.03 (0.0321), 0.02 (0.0242) 0.05 (0.0466) & 0.06 (0.0620)