FIG. 4

# MAGNETIC CONCENTRATION, BATHURST ORE, SHIPMENT No. 2

### ANALYSIS

Ferrous Oxide.	Ferric Oxide.	1nsoluble.	Sulphur.	Phosphorus.	Iron.
13 63	44 57	30:66	0.095	0.751	41 81

## 2124 POUNDS TO DRY TEST -

#### DRY CONCENTRATION.

			CRUDE ORE	Sized.	2					ONCENTE	RATES.		6		TAILIN	GS.				F	Efficiency.	
i	Weight and per cent.			Anal	yses.		a	eight nd cent.	Analyses.				Weight and Analyses, per cent.					Loss.	Per cent	Per cent	Units of Crude	
Sample Number	Sample Through Number Mesh.	Pounds	Per cent.	Iron, per cent.	Insoluble, per cent.	Sulpbur, per cent.	Phosphorus, per cent.	Pounds	Per cent.	Iron, per cent.	Insoluble, per cent.	Sulphur, per cent.	Phosphorus, per cent.	Pounds.	Per cent.	Iron, per cent.	Insoluble, per cent.	Pounds.	Per cent.	of Iron Saved.	of Iron Lost.	Per Unit of Concen- trate.
															-		-					
1	10	437	20:57	41.31	31 12	0.148	0.757	364	83 27	46 81	26:42	0 011	0.531	66	15:10	13 22	58:09	7	1:63	94.03	5.97	1.19
2	20	178	8 38	41:99	32.58	0.072	0.748	150	81.26	46 23	27:31	0.002	0:567	25	14:04	17:61	52 22	3	1.69	94 09	5.91	1:17
3	10	637	29 99	41.91	30.76	0.079	0.794	464	72:84	47:17	26 39	0.007	0:470	168	26:37	27.82	44.68	5	0.79	82 16	17 84	1:37
4	6	872	41.06	42:39	29 93	0.081	0.679	783	89.78	41.42	28 39	0:006	0 484	85	9.73	25:01	48:38	4	0.49	94 41	5:59	1.11
Т	stal-	2,124	100:00	41.94	30 64	0.093	0.738	1,761	82 90	45-78	27:36	0 00"	0 496	344	16-19	23 57	48:71	19	0 91	90 95	9:05	1 20
									RECA	PITUL	ATION	FOR TO	OTALS.									
			Pounds of ir	on in cru	de, 890 8	4)																
				con	centrate ings				806 3 81 1 3 3	1				saved in o lost in tail lost in dus					5	0:50 9:10 0:40		
					То	tals			890 8										100	0.00		
									Units of one	do roani	ed cor u	nit of con	6/	1:90								

→ POUNDS TO WET TEST 1423

#### WET CONCENTRATION.

CRUDE ORE.									CONCENT	TRATES.			Tailings.						Efficiency.			
Sample Number.	Ground	Weight		Anal	yses.			eight and cent.		Analyses.			Weight and per cent.		Analyses.		SLIME LOSS.		Per cent	Per cent	Units of Crude	
	to Mesh.	in Pounds.	Iron, per cent.	In-oluble, per cent.	Sulphur, per cent.	Phosphorus, per cent.	Pounds.	Per cent.	Iron, per cent.	Insoluble, per cent.	Sulpbur, per cent.	Phosphorus, per cent.	Pounds.	Per cent.	Iron, per cent.	Insoluble, per cent.	Pounds	Per cent.	of Iron Saved.	of Iron Lost.	Per Unit of Concentrate.	
1	20	494	41-81	30.66	0.095	0.751	423	85:62	46 33	26 38	0.002	0:526	61	12:32	:4 41	55:32	10	2 06	95:52	4.48	1 16	
2	40 60	491 448	41.81	30.06	0.095	0.751	389	79 22	. 49:00	24:43	0.006	0.498	86	17:54	14 22	56:08	16	3 · 27	93 01	6:99	1:26	
3 3c	150	418	51 31	30·66 22·07	0 005	0:751	239	53 34	51:31 63:12		0.005 Trace.	0:344	175	39 06	17 43	59:18	34	7:60	80 73	19:27	1 87	
																					******	
				(	/			1	RECAPI	TULAT	ION FO	R SAM	PLE No.	. 33c.						6		
		Pot	inds of ire	con	centrate ings				150 86 30 56 5 96	0		)	1	saved in con ost in tailin ost in slime	gs				80 54 16 28 3 18			
				(_	Totals				187 · 3	1									100:00			
								Un	its of cru	de requir	red per un	nit of con	centrate,	1 · 87.								

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