REPOSITORY TABLE 1A. MAJOR AND MINOR ELEMENT ANALYSES OF 28 SAMPLES FROM THE WITTENOOM FORMATION AND CARAWINE DOLOMITE, HAMERSLEY BASIN, WESTERN AUSTRALIA (*PART 1 OF 2*)

Sample #	SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P2O5	SO3	Cl	Cr	Ba	Sc	Ce	Nd	V
Group A																		
96300	35.68	1.18	9.27	15.09	0.04	1.58	14.55	0.07	6.78	0.12	210	31	109	282	9	57	24	86
92182	33.5	0.56	6.46	6.61	0.47	6.13	19.12	0.3	4.4	0.13	164	39	86	166	11	40	13	96
92401B	32.07	1.43	8.41	4.84	0.58	2.14	23.34	0.19	5.02	0.16	743	186	170	350	12	58	37	60
S64-1	49.47	1.42	11.82	6.58	0.41	3.5	6.11	0.1	9	0.19	296	41	135	377	14	48	31	69
96278	26.22	1.09	8.71	3.28	0.26	1.36	28.51	0.07	5.66	0.07	137	44	106	295	5	31	18	56
96712	34.36	1.18	10.17	8.7	0.48	5.81	14.05	0.14	6.87	0.17	823	75	120	230	14	57	30	79
BL14B	16.31	0.22	3.53	6.83	1.03	11.46	23.14	0.1	1.68	0.03	3.85	250	52	73	9	10	2	41
BL13BA	14.4	0.26	3.11	8.43	0.94	11.65	23.96	0.13	1.31	0.04	7.92	218	70	58	7	37	9	56
BL12A	20.62	0.2	3.44	6.29	0.96	10.01	22.89	0.04	1.68	0.03	30982	247	52	899	9	8	6	40
Group B																		
104176	6.03	0.08	1.15	7.6	1.09	17.12	25.97	0.07	0.66	0.02	597	47	18	25	5	0	1	26
104177	7.76	0.12	1.35	16.69	0.98	11.02	26.18	0.21	0.88	0.02	778	142	31	38	14	5	0	37
46-4	12.63	0.2	2.52	14.57	3.14	1.39	34.12	0.3	1.31	0.02	219	69	52	110	15	27	7	51
42-1	4.09	0.05	0.66	2.85	1.18	18.95	28.54	0.07	0.41	0.01	179	307	9	33	7	0	0	12
RP-13A	3.48	0.01	0.07	3.35	1.25	18.8	29.03	0.11	0.05	0	1978	239	1	2	5	0	0	0
Group C																		
92060	12.65	0.08	1.4	3.85	0.78	3.36	39.78	0.17	0.56	0.04	1725	84	16	52	19	7	8	16
92853	20.06	0.09	2.18	8.21	0.67	11.19	22.7	0.1	0.99	0.01	394	132	28	42	5	11	2	15
96298	15.45	0.11	2.89	9.83	0.86	14.78	21.38	0.06	1.15	0.02	336	80	32	86	8	35	10	24
Group D																		
88116	0.63	0.01	0.14	3.91	0.63	19.42	29.77	0.03	0.03	0	139	221	0	1	3	0	0	0
92943	58.47	0.55	14.57	5.41	0.12	4.08	3.16	2.04	5.21	0.07	3959	24	150	339	13	77	23	103
D315-1	10.27	0.12	2.87	4.73	0.86	15.56	24.98	0.05	1.42	0.02	9930	163	28	50	7	19	0	32
RP27A	1.02	0.01	0.17	2.88	1.15	19.43	29.92	0.08	0.1	0.02	146	352	0	14	4	0	0	1
BL34A	1.09	0.01	0.19	1.23	0.93	20.09	30.05	0.19	0.06	0.01	195	310	0	0	1	0	0	0
476.5	9.75	0.14	2.79	5.29	0.78	1.34	40.46	0.06	1.56	0.03	8.87	164	37	108	13	5	2	28
480.0	21.81	0.01	0.03	1.2	0.87	14.56	24.93	0.14	0.01	0	1034	165	1	5	0	10	0	0
484.5	17.49	0.23	4.47	2.89	0.82	12.79	24.01	0.15	2.41	0.03	31327	147	58	123	10	6	1	52
487.7	55.39	0.63	12.18	4.72	0.16	2.6	5.15	0.16	6.28	0.07	6.7	173	117	317	15	65	29	103
493.0	58.06	0.64	14.99	4.33	0.11	1.99	2.08	0.39	5.32	0.09	7.3	194	120	309	14	63	28	92
495.6	9.01	0.05	1.13	3.49	1.04	4.74	40.29	0.09	0.36	0.02	24784	176	8	27	10	0	0	6

REPOSITORY TABLE 1B. MAJOR AND MINOR ELEMENT ANALYSES OF 28 SAMPLES FROM THE WITTENOOM FORMATION AND CARAWINE DOLOMITE, HAMERSLEY BASIN, WESTERN AUSTRALIA *(PART 2 OF 2)*

Sample #	Co	Cu	Zn	Ni	Ga	Zr	Y	Sr	Rb	Nb	Th	Pb	As	Mo	U	Loss	Total
Group A																	
96300	9	95	37	25	11	70	39	21	163	8	2	120	112	3	4	15.01	99.63
92182	10	38	17	15	3	39	16	18	106	4	5	15	8	0	4	22.66	100.4
92401B	19	74	36	30	7	65	69	66	165	13	11	30	4	2	4	21.4	99.8
S64-1	18	76	86	26	4	62	26	21	191	11	4	39	22	2	3	9.06	97.8
96278	22	44	19	20	4	47	16	9	122	12	7	15	15	1	3	24.35	99.68
96712	26	153	108	36	9	62	60	26	161	10	5	124	44	5	4	17.83	99.99
BL14B	23	44	80	58	1	42	4	9	23	3	7	6	7	0	0	31.75	100
BL13BA	21	41	111	57	6	34	7	20	21	3	4	9	11	1	0	28.5	100.7
BL12A	22	31	102	60	2	37	8	14	24	4	6	7	16	1	0	30.48	99.82
Group B																	
104176	14	28	0	35	0	4	0	36	7	1	10	10	10	0	1	40.92	100.8
104177	33	47	0	88	0	8	0	5	10	1	6	16	17	1	6	35.26	100.6
46-4	155	40	1	189	2	23	15	118	24	3	15	15	21	0	0	30.39	100.7
42-1	5	12	0	0	0	2	0	14	0	2	11	7	3	0	2	44.05	100.9
RP-13A	8	5	0	0	0	0	0	4	0	1	15	2	0	0	1	44.4	100.8
Group C																	
92060	11	18	6	6	2	11	9	42	18	2	2	7	1	0	1	36.81	99.67
92853	11	10	15	8	0	11	5	19	26	1	2	8	4	0	2	33.7	99.98
96298	10	38	28	18	3	20	18	21	37	1	9	10	35	2	3	32.38	99
Group D																	
88116	7	8	0	2	0	0	0	3	0	0	6	4	0	0	2	45.81	100.4
92943	16	49	114	61	21	112	20	44	132	11	17	16	7	3	6	5.75	99.95
D315-1	13	12	8	23	3	17	21	13	26	3	12	8	32	0	1	37.93	99.84
RP27A	5	4	0	0	0	1	16	6	0	0	14	2	0	0	0	45.71	100.5
BL34A	5	11	0	0	0	0	0	3	0	0	7	1	0	0	3	46.58	100.5
476.5	37	25	0	33	4	22	10	11	23	1	3	6	4	0	4	29.09	100.2
480.0	9	6	0	1	0	5	1	8	0	0	5	3	0	0	1	36.53	100.2
484.5	26	29	9	55	5	40	5	24	39	5	3	9	11	0	3	30.51	99.01
487.7	58	72	300	84	17	156	20	24	105	11	10	18	14	3	4	5.42	99.63
493.0	34	65	492	70	18	194	28	28	112	11	8	15	12	2	4	4.13	100.2
495.6	19	38	90	13	0	13	0	17	0	2	8	11	6	0	1	37.62	100.4

REPOSITORY TABLE 2. PLATINUM GROUP ELEMENT ANALYSES (IN PPB) OF 28 SAMPLES FROM THE WITTENOOM FORMATION AND CARAWINE DOLOMITE, HAMERSLEY BASIN, WESTERN AUSTRALIA

Sample #	Type	Lithology	**Ir**	**Ru**	**Pt**	**Pd**	**Au**
Group A							
96300	surf.	SMB, sph.-rich	0.23	0.51	6.5	2.89	1.72
92182	"	SMB, sph.-rich	0.21	0.24	4.5	1.55	0.79
92401B	"	SMB, sph.-rich	0.17	0.66	4	0.76	1.31
S64-1	"	SMB, sph.-rich	0.21	1.32	< .61	< .83	0.92
96278	"	SMB, sph.-rich	0.16	1.03	6.27		1.76
96712	"	SMB, sph.-rich	0.43	0.75			1.17
BL14B	core	SMB, carb.-rich	0.93	1.44	< 1.32	1.76	1.12
BL13BA	"	SMB, carb.-rich	1.69	4.15	10.7	< 1.09	1.41
BL12A	"	SMB, carb.-rich	0.43	0.84	8.05	1.08	2.17
Aves.			0.50	1.22	5.24	1.42	1.37
Group B							
104176	surf.	dolomixtite	0.59	1.19	3.62		0.61
104177	"	dolomixtite	0.73	1.51	6.48		0.56
46-4	"	dolomixtite	1.54	2.61	12.5	< 1.71	1.24
42-1	"	dolomixtite	0.091	0.21	4.1	1.24	0.98
RP-13A	core	dolomixtite	0.03	0.07	2.4	0.78	0.71
Aves.			0.596	1.12	5.82	3.73	0.82
Group C							
92060	surf.	SMB, sph.-poor	0.02	0.27			0.36
92853	"	SMB, sph.-poor	0.05	0.22	11.54		5.46
96298	"	SMB, sph.-poor	0.05	0.45	3.51		2.17
Aves.			0.04	0.31	7.53	N.D.	2.66
Group D							
88116	surf.	dolomite	0	2.94	5.12	< 2.77	0.34
92943	core	shale	0.08	0.01	14.11	0.86	2.18
D315-1	"	shale	0.03	0.25	4.81	< 1.0	0.85
RP27A	"	dolomite	0.02	0.75	0.93	< .39	0.42
BL34A	"	dolomite	0.01	0.09	0.81	< .43	0.41
476.5	"	carbonate	0.04	1.38	< .39	< .71	0.88
480.0	"	carbonate	0.009	0.06	< .24	< .69	0.33
484.5	"	carbonate	0.004	0.04	< .08	< .4	0.39
487.7	"	shale	0.13	0.02	< .51	< .85	2.27
493.0	"	shale	0.034	0.02	< .33	< 1.15	1.31
495.6	"	carbonate	0.006	0.02	< .19	< .64	0.59
Aves.		carbonate	0.033	0.51	2.50	0.90	0.906