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COMMONWEALTH OF AUSTRALIA.



DEPARTMENT OF NATIONAL DEVELOPMENT.
BUREAU OF MINERAL RESOURCES
GEOLOGY AND GEOPHYSICS.

RECORDS.

1959/24

EXPLANATORY NOTES ON TABLES OF
MANGANESE RESERVES OF WESTERN AUSTRALIA AS AT 30/9/58

by .

L. E. de la Hunty

EXPLANATORY NOTES ON TABLES OF
MANGANESE RESERVES OF WESTERN AUSTRALIA AS AT 30/9/58

(Revised 11/2/59)

by L.E. de la Hunty, B.Sc.,
Geological Survey of Western Australia.

INTRODUCTION

As a result of applications from certain West Australian producers to export manganese ore, H.B. Owen, Senior Geologist of the Bureau of Mineral Resources, and the writer mapped and sampled some of the deposits in the North-West Division in 1952. From that year until 1957, several official estimates were made of various deposits by officers of both the Bureau of Mineral Resources and the Geological Survey of Western Australia.

In 1958, the writer led a Bureau party which mapped and sampled some of the main deposits in the Pilbara Goldfield - including those at Balfour Downs, Ripon Hills, Mt. Sydney and MC268 at Woodie Woodie. Other members of the party were Bureau Geologists J.B. Firman, A.T. Wells and D.J. Forman.

On 6/11/58, the writer issued tables of Manganese Reserves of Western Australia as at 30/9/58. Alterations to those figures, made as a result of assay data received, were also issued on 26/11/58. Both the initial tables, explanatory notes and alteration sheets are now superseded by this report, which incorporates previous alterations as well as further alterations occasioned by the receipt of the final batch of assay results.

RELIABILITY OF ESTIMATES

Many of the estimates made since 1952 have become superseded by later investigations, and the latest figures are included in the tables. The estimates used have been made by:

- K. Townley (B.M.R.) 1953.
- D. O'Driscoll (Asst. Chief Geologist, B.M.R.) 1956.
- D. O'Driscoll (B.M.R.) and L. de la Hunty (G.S.W.A.) 1956.
- " " " " 1957.
- L. de la Hunty (G.S.W.A.) 1958.

Most of the deposits have been measured in area of surface outcrop (by plane-table, tape or pace) but the depths of the ore-bodies have been determined in very few cases. Although quite a number of scout samples have been taken (at least 300) by the various investigators, many of the grades shown have been estimated by eye. Most of the grade estimates made in 1958 were controlled by essay data.

COMPILATION OF TABLES

Table I shows the total manganese reserves of Western Australia on ground held under Mineral Claims. The items shown are sub-totals from Table II.

Table II shows the tonnages estimated by individual claims, which are grouped in localities under the main headings of the various claim holders. Claims shown as "Pending" in this table are held in reserve for the various holders, but cannot be mined until "Approved". All of the mineral claims for manganese held at the end of October 1958, are included.

As a result of the creation during 1958, by the Minister for Mines, of a Temporary Reserve for Manganese over a large portion of the manganese-producing areas of Western Australia, some 53 applications for mineral claims for manganese have been refused. These are listed in Table III.

SUMMARY

Table I shows that nearly 10,000 acres are held under claim for manganese in Western Australia - made up of 133 "Approved" claims and 193 "Pending" (Total 326).

The total ore above 40% Mn is 3.8 million tons, of which some 2.8 million tons occur at Ripon Hills.

A further 3.2 million tons of low grade (30-40% Mn) ore is available, of which nearly 1.7 million tons is contained in one deposit at Balfour Downs. This deposit is included in M.C.'s. 265^L, 266^L, 267^L, 268^L (see Table II).

L. de la Hunty,
Geologist.

11/2/1959

TABLE I
MANGANESE RESERVES OF WESTERN AUSTRALIA as at 30/9/58
(Revised 11/2/59)

Claim Holder	Area Pegged	Number of Claims			Tonnages by Grades (% Mn)				Total Ore above 40% Mn
		Approved	Pending	Total	30-39.9%	40-44.9%	45-49.9%	50 + % Mn	
	Acres				Tons	Tons	Tons	Tons	Tons
1. Westralian Ores Pty. Ltd.	2,181	27	52	79	337,100	251,250	134,950	300	386,500
2. Broken Hill Pty. Co. Ltd.	451	22	-	22	-	13,000	52,100	-	65,100
3. Northern Mineral Syndicate	2,322	27	11	38	965,350	2,342,500	522,100	3,000	2,867,600
4. D.F.D. Rhodes	2,838	20	106	126	1,745,950	119,350	40,400	42,350	202,100
5. L.G. Hancock & E.A.M. Wright	992	23	23	46	2,500	27,900	56,950	138,000	222,850
6. H.V. Blackwell & J.M. Henderson	123	5	-	5	9,200	26,550	5,550	-	32,100
7. Pindan & Sims	615	3	-	3	-	37,500	21,000	-	58,500
8. R.B. Synnott	306	2	-	2	16,800	-	4,000	-	4,000
9. Western Development Pty. Ltd.	108	3	-	3	159,000	-	-	-	Nil
10. K. Grant & R. Larsen	15	-	1	1	-	-	-	-	-
11. M.J. Andrews	6	1	-	1	-	-	-	-	-
STATE TOTALS	9,957	133	193	326	3,235,900	2,818,050	837,050	183,650	3,838,750

TABLE II

1. WESTRALIAN ORES PTY. LTD. (BELL BROS).

Mineral Claim No.	Area	Tenure	Tonnages by Grades (% Mn)				Total Ore above 40% Mn	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 + %		By	Year
	Acres		Tons	Tons	Tons	Tons	Tons		
PILBARA GOLDFIELD									
Marble Bar District									
Carawine Gorge									
458	38	Approved	-	-	-	-	-	Not seen	
Woodie Woodie									
487	24	Pending	-	-	11,400	-	11,400	O'Driscoll	1956
Ripon Hills									
504	6	Pending	1,100	800	-	-	800	de la Hunt	1958
505	10	"	4,000	1,200	-	-	1,200	"	"
506	20	"	2,500	700	-	-	700	"	"
Nullagine District									
Skull Springs									
121 ^L	80	Approved	1,000	6,000	18,050	-	24,050	O'Driscoll & de la Hunt	1957
122 ^L	8	"	-	-	1,550	-	1,550	" "	1956
123 ^L	125	"	2,800	1,250	8,050	-	9,300	" "	"
124 ^L	3	Pending	-	-	250	-	250	" "	"
125 ^L	80	"	-	200	350	-	550	" "	"
126 ^L	9	"	-	-	1,500	-	1,500	" "	"
127 ^L	2	"	-	-	100	-	100	" "	"
128 ^L	21	"	1,150	750	700	-	1,450	" "	"
129 ^L	6	"	-	100	150	-	250	" "	"
130 ^L	37	"	-	200	550	-	750	" "	"
131 ^L	40	"	-	700	3,600	-	4,300	" "	"
132 ^L	40	"	-	-	-	-	Nil	" "	"
133 ^L	3	"	-	1,600	-	-	1,600	" "	"
134 ^L	8	"	-	-	800	-	800	" "	"
135 ^L	1	"	-	-	900	-	900	" "	"
136 ^L	2	"	-	400	2,400	-	2,800	" "	"
137 ^L	2	"	-	250	-	-	250	" "	"
138 ^L	51	"	-	-	1,500	-	1,500	" "	"
143 ^L	5	"	-	100	-	-	100	de la Hunt	"
144 ^L	20	"	1,000	-	-	-	Nil	" "	"
145 ^L	88	"	-	150	-	-	150	" "	"
146 ^L	60	"	-	-	-	-	Nil	" "	"
147 ^L	3	"	200	500	-	-	500	" "	"
148 ^L	8	"	-	-	-	-	-	Not seen	
149 ^L	8	"	-	50	-	-	50	de la Hunt	1956
150 ^L	2	"	-	-	-	-	-	Not seen	
151 ^L	1	"	-	50	-	-	50	de la Hunt	1956
152 ^L	14	"	-	100	-	-	100	" "	"
153 ^L	6	"	-	-	-	-	-	Not seen	
154 ^L	1	"	-	-	-	-	Nil	de la Hunt	1956
155 ^L	12	"	-	-	-	300	300	" "	"
156 ^L	68	"	-	400	-	-	400	" "	"
157 ^L	120	"	500	950	100	-	1,050	" "	"
213 ^L	4	"	-	-	-	-	-	Not seen	
215 ^L	3	"	-	-	-	-	-	" "	
216 ^L	1	"	-	-	-	-	-	" "	
331 ^L	4	"	-	-	-	-	-	" "	
Boondamana Creek									
214 ^L	4	"	-	-	-	-	-	" "	

WESTRALIAN ORES (Con'd).

Mineral Claim No.	Area Acres Mt. Cooke	Tenure	Tonnages by Grades (% Mn)				Total Ore above 40% Mn Tons	Estimated	
			30-39.9% Tons	40-44.9% Tons	45-49.9% Tons	50 + % Tons		By	Year
241 ^L	120	Approved	8,150	12,300	4,000	-	16,300	O'Driscoll & de la Hunty	1957
242 ^L	15	Pending	500	300	-	-	300	" "	"
243 ^L	20	"	-	1,000	-	-	1,000	" "	"
244 ^L	160	Approved	17,300	36,050	-	-	36,050	" "	"
245 ^L	20	"	300	1,300	2,200	-	3,500	" "	"
246 ^L	20	"	1,000	8,000	17,000	-	25,000	de la Hunty	1958
247 ^L	120	"	500	1,450	100	-	1,550	O'Driscoll & de la Hunty)	1957
248 ^L	120	Pending	8,500	2,700	-	-	2,700	" "	"
249 ^L	15	"	-	200	-	-	200	" "	"
250 ^L	8	"	-	100	-	-	100	" "	"
251 ^L	5	"	-	350	-	-	350	" "	"
252 ^L	17	"	200	550	-	-	550	" "	"
Sunday Hill									
253 ^L	4	Approved	-	600	200	-	800	" "	"
254 ^L	4	Pending	-	1,700	-	-	1,700	" "	"
255 ^L	2	"	-	1,300	-	-	1,300	" "	"
256 ^L	5	"	1,000	3,500	500	-	4,000	" "	"
257 ^L	1	"	-	-	-	-	-	Not seen	
258 ^L	2	"	-	-	-	-	-	" "	
PEAK HILL GOLDFIELD									
Horse shoe									
24 ^P	143	Approved	125,000	138,000	45,000	-	183,000	de la Hunty	1958
26 ^P	48	"	-	21,000	14,000	-	35,000	"	"
32 ^P	34	"	-	-	-	-	-	Not seen	
33 ^P	48	"	-	-	-	-	-	" "	
62 ^P	1	"	-	-	-	-	-	" "	
Mt. Fraser									
77 ^P	2	"	-	-	-	-	-	" "	
78 ^P	2	"	-	-	-	-	-	" "	
79 ^P	3	"	-	-	-	-	-	" "	
80 ^P	1	"	-	-	-	-	-	" "	
81 ^P	14	"	-	-	-	-	-	" "	
82 ^P	1	"	-	-	-	-	-	" "	
83 ^P	5	"	-	-	-	-	-	" "	
Peak Hill									
38 ^P	5	"	400	-	-	-	Nil	de la Hunty	1956
M.L.61 ^P	12	"	10,000	4,000	-	-	4,000	"	1958
M.L.62 ^P	48	"	-	400	-	-	400	"	"
SOUTH WEST LAND DIVISION									
Naendip									
463 ^H	24	Approved)	150,000	40,000	-	-	40,000	Townley	1953
464 ^H	24	")	-	-	-	-	-	-	-
DUNDAS GOLDFIELD									
Bremer Range									
41	60	Pending	-	-	-	-	-	Not seen	
TOTALS									
Claims		Approved							
79	2,181	27	337,100	251,250	134,950	300	336,500		
		Pending							
		52							

TABLE II

2. BROKEN HILL PTY. CO. LTD.

Mineral Claim No.	Area	Tenure	Tonnages by Grades (% Mn)				Total Ore above 40% Mn	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 + %		By	Year
	Acres		Tons	Tons	Tons	Tons	Tons		
PILBARA GOLDFIELD									
Marble Bar District									
Woodie Woodie									
247	24	Approved	-	-	23,000	-	23,000	O'Driscoll	1956
Nullagine District									
Woodie Woodie									
110 ^L	11	Approved	-	-	4,600	-	4,600	de la Hunt	1958
111 ^L	6	"	-	-	11,500	-	11,500	O'Driscoll	1956
Warrie Station									
300 ^L	4	"	-	-	-	-	-	Not seen	
301 ^L	10	"	-	-	-	-	-	" "	
302 ^L	13	"	-	-	-	-	-	" "	
303 ^L	10	"	-	-	-	-	-	" "	
304 ^L	3	"	-	-	-	-	-	" "	
305 ^L	160	"	-	-	-	-	-	" "	
306 ^L	100	"	-	-	-	-	-	" "	
WEST PILBARA GOLDFIELD									
Marillana Station									
100 ^{WP}	8	Approved	-	-	-	-	-	" "	
101 ^{WP}	3	"	-	-	-	-	-	" "	
102 ^{WP}	2	"	-	-	-	-	-	" "	
103 ^{WP}	9	"	-	-	-	-	-	" "	
104 ^{WP}	12	"	-	-	-	-	-	" "	
105 ^{WP}	1	"	-	-	-	-	-	" "	
PEAK HILL GOLDFIELD									
Horseshoe									
28 ^P	18	"	-	-	-	-	-	" "	
29 ^P	12	"	-	-	-	-	-	" "	
Mt. Fraser									
30 ^P	18	"	-	13,000	13,000	-	26,000	O'Driscoll	1956
31 ^P	8	"	-	-	-	-	-	Not seen	
M.L.64 ^P	5	"	-	-	-	-	-	" "	
M.L.65 ^P	14	"	-	-	-	-	-	" "	
TOTALS									
Claims		Approved							
22	451	22	-	13,000	52,100	-	65,100		

TABLE II

3. NORTHERN MINERAL SYNDICATE

Mineral Claim No.	Area Acres	Tenure	Tonnages by Grades (% Mn)				Total Ore above 40% Mn Tons	Estimated		
			30-39.9% Tons	40-44.9% Tons	45-49.9% Tons	50 + % Tons		By	Year	
PILBARA GOLDFIELD										
Marble Bar District										
Woodie Woodie										
268	24	Approved	-	-	7,000	3,000	10,000			
269	24	"	-	10,000	15,000	-	25,000			
271	24	"	1,650	6,000	-	-	6,000	O'Driscoll	1956	
272	22	"	-	1,500	-	-	1,500	"	"	
273	9	"	-	-	750	-	750	"	"	
274	6	"	-	-	700	-	700	de la Hunty	1958	
276	6	"	2,400	-	-	-	Nil	O'Driscoll	1956	
429	1	"	-	1,200	-	-	1,200	"	"	
430	1	"	-	-	700	-	700	"	"	
431	22	"	-	4,000	3,200	-	7,200	"	"	
432	3	"	-	-	300	-	300	"	"	
433	4	"	-	-	850	-	850	"	"	
434	5	"	-	-	600	-	600	"	"	
435	10	"	-	2,850	1,000	-	3,850	"	"	
Ripon Hills										
473	10	Approved	-	40,000	-	-	40,000	de la Hunty	1958	
474	54	"	100,000	167,000	50,000	-	217,000	"	"	
478	18	"	-	7,300	3,000	-	10,300	"	"	
479	10	"	-	49,000	45,000	-	94,000	"	"	
497	12	Pending	-	15,000	-	-	15,000	"	"	
509	20	"	-	4,000	-	-	4,000	"	"	
554	102	Approved	57,000	323,000	134,000	-	457,000	"	"	
564	39	"	-	111,000	50,000	-	161,000	"	"	
565	129	Pending	171,000	13,000	9,000	-	22,000	"	"	
566	125	Approved	84,000	52,000	44,000	-	90,000	"	"	
567	200	Pending	70,000	751,000	24,000	-	775,000	"	"	
568	50	"	70,000	50,000	-	-	50,000	"	"	
569	220	"	17,000	257,000	-	-	257,000	"	"	
570-G	35	"	-	17,000	-	-	17,000	"	"	
571	300	"	94,000	113,000	91,000	-	204,000	"	"	
572	300	"	140,000	248,000	22,000	-	270,000	"	"	
573	300	"	-	87,000	15,000	-	102,000	"	"	
574	18	"	134,000	11,000	-	-	11,000	"	"	
Nullagine District										
Woodie Woodie										
53 ^L	155	Approved	13,700	-	5,000	-	5,000	O'Driscoll	1956	
54 ^L	50	"	9,000	1,500	-	-	1,500	"	"	
56 ^L	2	"	1,600	-	-	-	Nil	"	"	
114 ^L	2	"	-	150	-	-	150	"	"	
119 ^L	5	"	-	-	-	-	-	Not seen		
120 ^L	5	"	-	-	-	-	-	"	"	
TOTALS										
Claims 38	2,322	Approved 27 Pending 11	965,350	2,342,500	522,100	3,000	2,867,600			

TABLE II

4. D.F.D. RHODES

Mineral Claim No.	Area	Tenure	Tonnages by Grade (% Mn)				Total Ore above 40% Mn Tons	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 + %		By	Year
	Acres		Tons	Tons	Tons	Tons			
PILBARA GOLDFIELD									
Marble Bar District									
Mt. Sydney									
451	1	Pending	-	-	-	-	-	Not seen	
452	3	"	-	-	-	-	-	" "	
531	49	Approved	-	1,000	1,000	-	2,000	de la Hunty	1958
532	49	"	3,500	4,000	12,000	-	16,000	"	"
533	49	"	100	-	-	-	Nil	"	"
534	49	"	1,200	600	-	-	600	"	"
535	49	"	-	700	2,400	-	3,100	"	"
536	7	"	-	-	-	-	-	Not seen	
Gerrawine Gorge									
480	13	Pending	-	-	-	-	-	" "	
481	1	"	-	-	-	-	-	" "	
482	2	"	-	-	-	-	-	" "	
Breeside									
485	9	"	-	-	-	-	-	" "	
486	2	"	-	-	-	-	-	" "	
Mullagine District									
Skull Springs									
139 ^L	1	"	-	-	200	-	200	O'Driscoll & de la Hunty)	1956
140 ^L	3	"	-	-	50	-	50	" "	"
141 ^L	30	"	100	-	-	-	Nil	" "	"
142 ^L	3	"	-	-	-	-	Nil	" "	"
199 ^L	1	"	-	-	-	-	-	Not seen	
200 ^L	5	"	-	-	-	-	-	" "	
201 ^L	1	"	-	-	-	-	-	" "	
Bee Hill									
158 ^L	5	"	-	-	-	-	-	" "	
159 ^L	157	"	-	-	-	-	-	" "	
160 ^L	2	"	-	-	-	-	-	" "	
161 ^L	45	"	-	-	-	-	-	" "	
162 ^L	12	"	-	-	-	-	-	" "	
163 ^L	51	"	100	6,450	-	-	6,450	de la Hunty	1958
164 ^L	29	Approved	-	8,300	-	-	8,300	"	"
165 ^L	5	Pending	-	100	150	-	250	"	1956
166 ^L	13	"	-	2,600	-	-	2,600	"	1958
167 ^L	4	"	-	800	-	-	800	"	"
168 ^L	3	"	-	400	-	-	400	"	"
169 ^L	105	Approved	350	450	7,000	-	7,450	"	"
170 ^L	34	"	1,000	7,650	-	-	7,650	"	"
171 ^L	13	"	-	1,000	-	-	1,000	"	"
172 ^L	13	Pending	-	6,200	-	-	6,200	"	"
173 ^L	5	"	-	150	-	-	150	"	"
174 ^L	34	"	-	8,000	7,800	-	15,800	"	"
175 ^L	2	"	-	-	-	-	Nil	"	1956
176 ^L	1	"	50	-	-	-	Nil	"	"
177 ^L	27	"	-	650	100	-	750	"	1958
178 ^L	1	"	-	-	-	150	150	"	1956
179 ^L	80	"	1,950	2,500	-	-	2,500	"	1958
180 ^L	17	"	100	200	-	-	200	"	"
181 ^L	5	"	-	400	50	-	450	"	"

D.F.D. RHODES (Con'd)

Mineral Claim No.	Area	Tenure	Tonnages by Grades (% Mn)				Total Ore above 40% Mn	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 +%		By	Year
	Acres		Tons	Tons	Tons	Tons	Tons		
182 ^L	10	Approved	-	-	250	3,000	3,250	de la Hunty	1956
183 ^L	37	Pending	100	100	50	-	150	"	"
184 ^L	3	"	-	-	400	-	400	"	"
185 ^L	1	"	-	100	-	-	100	"	"
186 ^L	20	Approved	-	1,200	-	-	1,200	"	1958
187 ^L	300	Pending	1,100	1,100	-	-	1,100	"	"
188 ^L	2	"	400	-	-	-	Nil	"	"
189 ^L	3	"	-	-	-	-	-	Not seen	
190 ^L	9	"	300	-	-	-	Nil	de la Hunty	1958
202 ^L	1	"	100	-	-	-	Nil	"	1956
203 ^L	10	"	-	350	100	-	450	"	"
204 ^L	1	"	-	-	200	-	200	"	"
205 ^L	10	"	250	-	-	-	Nil	"	1953
206 ^L	17	"	2,800	1,600	-	-	1,600	"	"
207 ^L	20	"	250	600	-	-	600	"	"
217 ^L	6	"	850	700	-	-	700	"	"
218 ^L	50	"	2,400	1,350	-	-	1,350	"	"
219 ^L	4	"	200	-	-	-	Nil	"	"
220 ^L	3	"	-	250	300	-	550	"	"
221 ^L	4	"	-	1,700	-	-	1,700	"	"
222 ^L	11	"	2,900	-	-	-	Nil	"	"
223 ^L	4	"	-	200	-	-	200	"	1956
224 ^L	20	"	-	-	700	-	700	"	1958
225 ^L	5	"	-	300	-	-	300	"	"
226 ^L	1	"	-	600	-	-	600	"	"
227 ^L	3	"	2,000	1,400	-	-	1,400	"	"
260 ^L	2	"	-	-	-	-	-	Not seen	
261 ^L	15	"	-	-	-	-	-	" "	
263 ^L	2	"	-	-	-	-	-	" "	
264 ^L	2	"	-	-	-	-	-	" "	
336 ^L	14	"	-	-	-	-	-	" "	
337 ^L	12	"	-	-	-	-	-	" "	
338 ^L	7	"	-	-	-	-	-	" "	
Mt. Cooke									
191 ^L	1	Pending	-	250	-	-	250	de la Hunty	1958
192 ^L	12	"	-	300	150	4,850	5,300	"	"
193 ^L	1	"	-	150	-	50	200	"	"
194 ^L	5	Approved	-	24,000	-	28,000	52,000	"	"
195 ^L	2	Pending	50	50	100	-	150	"	"
196 ^L	1	"	-	2,000	-	1,000	3,000	"	"
197 ^L	27	"	50	2,600	300	-	2,900	"	"
198 ^L	10	"	-	-	1,000	-	1,000	"	"
208 ^L	13	"	2,450	1,550	-	-	1,550	"	"
209 ^L	6	"	2,300	700	-	-	700	"	"
210 ^L	2	"	-	-	600	-	600	"	"
211 ^L	2	"	1,150	-	-	-	Nil	"	"
212 ^L	1	"	4,000	3,000	-	-	3,000	"	"
228 ^L	1	"	350	-	-	-	Nil	"	1956
229 ^L	1	"	-	300	350	-	650	"	"
230 ^L	1	"	600	700	-	-	700	"	1958
231 ^L	3	"	300	300	-	-	300	"	"
232 ^L	2	"	-	-	-	2,900	2,900	"	1956
233 ^L	2	"	-	200	-	-	200	"	"

D.F.D. RHODES (Con'd)

Mineral Claim No.	Area	Tenure	Tonnages by Grades (% Mn)				Total Ore above 40% Mn	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 + %		By	Date
	Acres		Tons	Tons	Tons	Tons	Tons		
234 ^L	2	Pending	50	-	50	-	50	de la Hunty	1956
235 ^L	13	"	1,200	1,450	3,350	-	4,800	"	"
236 ^L	3	"	-	-	150	-	150	"	"
237 ^L	2	"	-	-	1,400	-	1,400	"	1958
238 ^L	2	"	100	100	-	-	100	"	"
239 ^L	3	"	-	-	200	-	200	"	1956
240 ^L	4	"	-	-	-	2,400	2,400	"	"
257 ^L	1	"	-	-	-	-	-	Not seen	
258 ^L	5	"	-	-	-	-	-	" "	
259 ^L	2	"	-	-	-	-	-	" "	
262 ^L	125	"	-	-	-	-	-	" "	
Balfour Downs Station									
265 ^L	176	Approved	30,000	6,000	-	-	6,000	de la Hunty	1958
266 ^L	175	"	670,000	12,000	-	-	12,000	"	"
267 ^L	148	"	723,000	-	-	-	Nil	"	"
268 ^L	80	"	252,000	-	-	-	Nil	"	"
269 ^L	45	"	16,000	-	-	-	-	"	"
270 ^L	80	"	6,000	-	-	-	-	"	"
271 ^L	23	"	12,000	-	-	-	-	"	"
354 ^L	30	Pending	-	-	-	-	-	Not seen	
355 ^L	17	"	-	-	-	-	-		
Walgun Station									
272 ^L	80	Pending	2,250	-	-	-	Nil	O'Driscoll & de la Hunty	1957
275 ^L	6	"	-	-	-	-	-	Not seen	
276 ^L	10	"	-	-	-	-	-	" "	
356 ^L	45	"	-	-	-	-	-	" "	
Woblegun Hill									
308 ^L	5	"	-	-	-	-	-	" "	
Saddleback Hill									
333 ^L	1	Pending	-	-	-	-	-	" "	
334 ^L	1	"	-	-	-	-	-	" "	
339 ^L	3	"	-	-	-	-	-	" "	
340 ^L	8	"	-	-	-	-	-	" "	
341 ^L	3	"	-	-	-	-	-	" "	
TOTALS									
Claims 126	2,838	Approved 20 Pending 106	1,745,950	119,350	40,400	42,350	202,100		

TABLE II

5. L.G. HANCOCK AND E.A.M. WRIGHT

Mineral Claim No.	Area	Tenure	Tonnages by Grade (% Mn)				Total Ore above 40% Mn	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 + %		By	Year
	Acres		Tons	Tons	Tons	Tons	Tons		
PILBARA GOLDFIELD									
Marble Bar District									
Goodiadarrie Hills									
465	7	Approved	-	2,100	-	-	2,100	O'Driscoll & de la Hunty }	1957
466	10	"	-	-	-	-	-	Not seen	
467	24	"	-	-	-	-	-	" "	
468	10	"	-	400	400	-	800	O'Driscoll & de la Hunty }	1957
469	4	"	-	-	-	-	-	Not seen	
470	4	"	-	-	-	-	-	" "	
488	4	"	200	-	-	-	Nil	O'Driscoll & de la Hunty }	1957
489	10	"	-	-	-	-	-	Not seen	
Nullagine District									
Warrie Station									
285 ^L	10	Approved	-	-	-	-	-	" "	
291 ^L	24	"	-	-	-	-	-	" "	
Mt. Fraser Station									
286 ^L	10	Approved	-	1,350	-	-	1,350	de la Hunty	1958
289 ^L	10	"	-	1,000	3,000	-	4,000	"	
290 ^L	10	"	-	900	100	-	1,000	"	
292 ^L	24	"	-	-	30,000	39,000	69,000	"	
293 ^L	24	"	-	-	6,500	99,000	105,500	"	
294 ^L	24	"	-	1,200	-	-	1,200	"	
295 ^L	3	"	-	50	-	-	50	"	
296 ^L	3	"	-	3,100	-	-	3,100	"	
297 ^L	24	"	800	4,100	5,000	-	9,100	"	
298 ^L	24	"	-	1,150	-	-	1,150	"	
299 ^L	10	"	-	-	-	-	-	Not seen	
307 ^L	105	Pending	-	850	700	-	1,550	de la Hunty	1958
309 ^L	11	"	-	300	50	-	350	"	
310 ^L	12	"	-	-	9,500	-	9,500	"	
311 ^L	15	"	-	-	900	-	900	"	
312 ^L	20	"	-	-	-	-	Nil	"	
313 ^L	24	"	-	150	50	-	200	"	
314 ^L	24	"	-	50	-	-	50	"	
315 ^L	3	"	-	-	-	-	Nil	"	
316 ^L	14	"	-	50	-	-	50	"	
317 ^L	35	"	-	-	200	-	200	"	
318 ^L	40	"	100	1,300	-	-	1,300	"	
319 ^L	40	"	-	850	-	-	850	"	
320 ^L	24	"	-	550	-	-	550	"	
321 ^L	12	"	-	400	-	-	400	"	
322 ^L	24	"	-	750	350	-	1,100	"	
323 ^L	40	"	1,000	2,850	-	-	2,850	"	
324 ^L	40	"	-	450	-	-	450	"	
325 ^L	38	"	-	200	-	-	200	"	
326 ^L	50	"	-	-	-	-	Nil	"	
327 ^L	4	"	-	50	-	-	50	"	
328 ^L	40	"	-	1,400	-	-	1,400	"	
329 ^L	24	"	-	400	-	-	400	"	
330 ^L	60	"	-	1,300	-	-	1,300	"	

L.C. Hancock and E.A.M. Wright (Con'd)

Mineral Claim No.	Area	Tenure	Tonnages by Grade (% Mn)				Total Ore above 40% Mn	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 + %		By	Year
	Acres		Tons	Tons	Tons	Tons	Tons		
WEST PILBARA GOLDFIELD									
93 ^{WP}	Mulga Downs Station 10	Approved	400	500	-	-	500	O'Driscoll & de la Hunty }	1957
95 ^{WP}	Coondiner Pool 10	Approved	-	150	200	-	350		" "
TOTALS									
Claims 46	992	Approved 23 Pending 23	2,500	27,900	56,950	138,000	222,850		

TABLE II

6. H.V. BLACKWELL AND J.M. HENDERSON

Mineral Claim No.	Area	Tenure	Tonnages by Grades (% Mn)				Total Ore above 40% Mn	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 + %		By	Year
	Acres		Tons	Tons	Tons	Tons	Tons		
PILBARA GOLDFIELD									
Marble Bar District									
Ripon Hills									
521	52	Approved	7,200	15,850	5,000	-	20,850	de la Hunty	1958
522	37	"	2,000	5,650	-	-	5,650	"	"
523	23	"	-	3,150	-	-	3,150	"	"
537	8	"	-	1,000	-	-	1,000	"	"
538	3	"	-	900	550	-	1,450	"	"
TOTALS									
Claims		Approved							
5	123	5	9,200	26,550	5,550	-	32,100		

7. PINDAN AND SIMS

PILBARA GOLDFIELD									
Marble Bar District									
Nimigarra Station									
517	300	Approved	-	37,500	21,000	-	58,500	de la Hunty	1958
518	300	"	-	-	-	-	Nil	"	"
519	15	"	-	-	-	-	Nil	"	"
TOTALS									
Claims		Approved							
3	615	3	-	37,500	21,000	-	58,500		

TABLE II

8. R.B. SYNNOTT

Mineral Claim No.	Area	Tenure	Tonnages by Grade (% Mn)				Total Ore above 40% Mn	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 + %		By	Year
	Acres		Tons	Tons	Tons	Tons	Tons		
PEAK HILL GOLDFIELD									
51 ^P	Woodlands Station 300	Approved	14,800	-	-	-	Nil	de la Hunty	1952
57 ^P	Mulgul Station 6	Approved	2,000	-	4,000	-	4,000	O'Driscoll	1956
TOTALS									
Claims 2	306	Approved 2	16,800	-	4,000	-	4,000		

9. WESTERN DEVELOPMENT PTY LTD.

PHILLIPS RIVER GOLDFIELD									
71	Whoogarup 80	Approved)	135,000	-	-	-	-	Sofoulis & Noldart }	1954
72	4								
73	Desmond 24	Approved	24,000	-	-	-	-	de la Hunty	1958
TOTALS									
Claims 3	108	Approved 4	159,000	-	-	-	-		

10. K. GRANT AND R. LARSEN

ASHBURTON GOLDFIELD									
20	Mt. Florrie 15	Pending	-	-	-	-	-	Not seen	

11. M.J. ANDREWS

PEAK HILL GOLDFIELD									
76 ^P	Mt. Labouchere 6	Approved	-	-	-	-	-	Not seen	

(See M.C.194^L)

Mineral Claim No.	Area	Applicant	Tonnages by Grades (% Mn)				Total Ore above 40% Mn	Estimated	
			30-39.9%	40-44.9%	45-49.9%	50 + %		By	Year
	Acres		Tons	Tons	Tons	Tons	Tons		
360 ^L	2	D.F.D. Rhodes	-	-	-	-	-	Not seen	
	Balfour Downs								
335 ^L	300	L.G. Hancock	-	-	-	-	-	Not seen	
	Mt. Fraser Station								
332 ^L	13	L.G. Hancock & E.A.M. Wright	-	300	-	-	300	de la Hunty	1958
343 ^L	20	" " "	-	-	-	-	Nil	"	"
344 ^L	10	" " "	-	-	-	-	Nil	"	"
345 ^L	29	" " "	-	-	-	-	Nil	"	"
347 ^L	12	" " "	-	-	-	-	Nil	"	"
	Roy Hill Station								
346 ^L	10	L.G. Hancock & E.A.M. Wright	-	-	-	-	-	Not seen	
351 ^L	13	" " "	-	-	-	-	-	" "	
352 ^L	17	" " "	-	-	-	-	-	" "	
353 ^L	30	" " "	-	-	-	-	-	" "	
	Warrie Station								
342 ^L	24	L.G. Hancock & E.A.M. Wright	-	-	-	-	-	" "	
	PEAK HILL GOLDFIELD								
	Ilgararrie Station								
89 ^P	29	Broken Hill Pty. Co. Ltd.	-	-	-	-	-	" "	
TOTALS									
Claims									
53	2,024		229,400	53,300	9,700	550	63,550		

* Includes late MC524^L (withdrawn)

* Includes MC194^L (conditionally surrendered)