

93-3407

Merrywood Coal Company Pty Ltd

E.L. 12/91 Pratts Hill

Year 1 and Final Report

MICROFILMED
FICHE No. 012637-

MINES	
FILE REF.	EL12/91
	22 DEC 1992
DC	
SEARCHED	INDEXED
SER	FOLIO

K.C. Morrison
8 December 1992

AMG REFERENCE POINTS ADDED

INTRODUCTION AND TENEMENT DETAILS

E.L. 12/91 is a 9 km² licence at Merrywood in the St. Pauls River Valley, N.E. Tasmania. (Fig. 1.)

The E.L. was issued on 31 January 1992 to Merrywood Coal Company Pty. Ltd. who have 100% equity in the licence.

Land tenure comprises approximately 90% freehold grazing property and 10% State Forest.

Year 1 exploration tested two coal targets on the licence with 6 drill holes and, due to the negative results of this work, the licence is to be relinquished on 31 January 1993.

EXPLORATION COMPLETED IN YEAR 1

Six percussion drill holes tested two targets in the licence.

1) Possible down faulted Merrywood mine sequence south of the mine and the fault scarp/dolerite dyke association which outcrops to the southwest of the mine.

2) Possible shallow coal below the talus apron on the southern and eastern margins of Pratts Hill. A coal seam outcrops in Merrywood Creek at approximately 370 m R.L. and on the eastern side of Pratts Hill, previous drilling (AT11, drilled in 1987) intersected a shallow three metre deeply weathered seam.

The holes were drilled in December 1992, by contractors H.J. Stacpoole, using a truck-mounted Mobile B80 rig, with air-driven down-hole hammer on 4.5 and 6 inch bits.

Hole locations are shown on Fig. 2 and Table 1 and log sheets are enclosed as Appendix 1.

	Approximate: Easting (m)	Northing (m)	R.L. (m)
PH-1	579,260	5,374,350	378
PH-2	579,070	5,374,420	400
PH-3	580,540	5,373,820	365
PH-4	580,330	5,373,710	338
PH-5	581,190	5,374,190	328
PH-6	581,380	5,374,150	310

Table 1

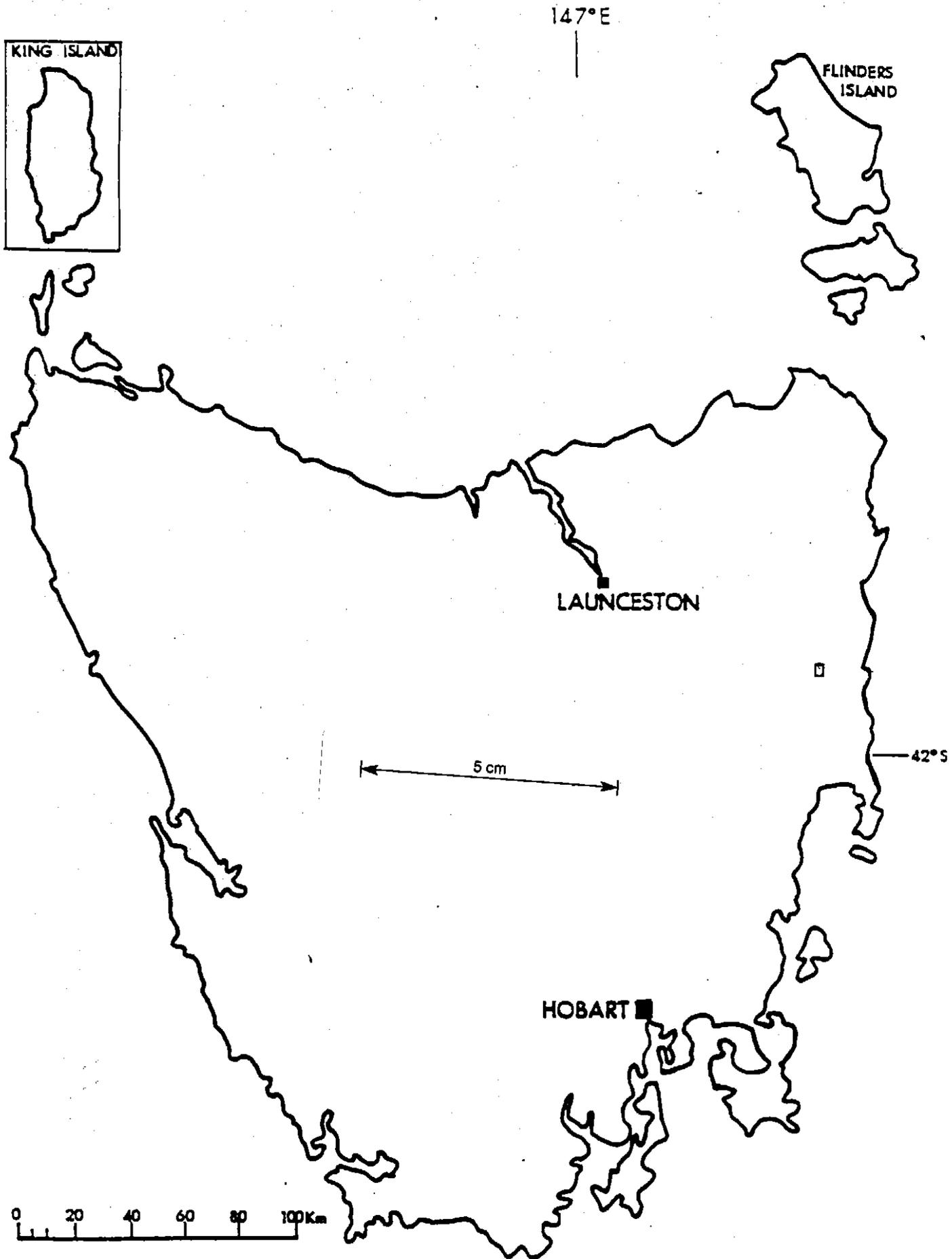


Fig. 1. E.L. 12 / 91 Location Map

No significant coal seams were intersected. Holes PH-1 and PH-2 tested the down-faulted Merrywood section concept and although the lithic sandstone (coal measures) sequence was not fully drilled the upper 70 metres of the fault blocks is barren and sub-surface dolerite is a factor close to the sandstone fault scarp.

Holes PH-3 to PH-6, in combination with the Merrywood Creek outcrop and the 1987 Pratts Hill drill intersection, demonstrate that the Pratts Hill target seam is variably; deeply weathered at shallow depth (AT-11), eroded prior to dolerite talus deposition (PH-5) or ? covered by thick dolerite talus (PH-3). PH-4 and PH-6 were collared too low to intersect the target seam but they did confirm the localised thick scree deposits (PH-4) and the absence of target seams deeper in the section (PH-6). PH-6 also showed a transition from an upper, dominantly thickly bedded medium sandstone and grey mudstone sequence to a lower dominantly thinner bedded, fine sandstone interbedded lutite and carbonaceous mudstone sequence.

CONCLUSIONS

The programme severely reduced the chance of finding a viable coal resource suitable for open cut mining in the licence area and consequently the E.L. will be surrendered at the end of Year 1.

MERRYWOOD COAL COMPANY PTY. LTD.

DRILLING LOG SHEET.

TENEMENT: EL 12/91	LOCATION / SITE. PM-1 ~ 579, 260 M E 5374, 350 M N	SAMPLE TYPE. PERCUSSION DRILL CUTTINGS 4 1/2" DIAM.	SAMPLED BY : (DATE)	COAL SECTIONS.
PROJECT : PRATTS HILL			LOGGED BY : KM (DATE) 14-12-92	

SAMPLE No.	DESCRIPTION.	INTERVAL (m)	DESCRIPTION.
0-6 m.	SOL/CLAY : Tan - gry-brn. moist, clayey, fr. sst, dol, ferricrete rock frags.		
6-9	SAND/SANDSTONE: tan, f. sst, heavily weathered, mainly unconsol.		
9-11	SANDSTONE tan-gry md. lithic, mottled, mainly unconsol.		
11-12.5	MUDSTONE lt gry - lt brn, fissile BASE OXIDATION - 12.5m.		
12.5-13.5	CARB. MUDSTONE, soft, clayey.		
13.5-15	SANDSTONE gry md. lithic		
15-16.5	MUDSTONE mainly carbonaceous, minor grey fissile		
16.5-17	SANDSTONE gry, f. lithic		
17-20	MUDSTONE gry, clayey MINOR WATER AT 18m.		
20-21	SANDSTONE gry, f. lithic		
21-22	SANDSTONE gry md. lithic		
22-23	SANDSTONE gry, f. abund. coal debris on bedding		
23-27.5	MUDSTONE gry fissile, clayey.		
27.5-28	SANDSTONE gry, f. lithic		
28-29	SANDSTONE gry md. lithic		
29-31	SANDSTONE gry, f-v.f. lithic		
31-36.3	SANDSTONE gry md. uniform (thickly bedded)		
36.3-38	MUDSTONE gry-black, carbonaceous, clayey.		
38-39	CLAYSTONE beige, indurated, flinty fracture.		
39-41	MUDSTONE gry, minor carb mdst.		
41-42	SANDSTONE gry, md. lithic		
42-44	SANDSTONE gry md-f. lithic, minor coaly debris		
44-48.5	SANDSTONE gry md. lithic		
48.5-49	MUDSTONE gry, clayey		
49-51	MUDSTONE n/a, minor carb. mdst.		
	EDM 51M		

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DRILLING LOG SHEET.

TENEMENT: EL 12/91	LOCATION / SITE. PH-2 ~ 579.070 ME 5374, 420 MN	SAMPLE TYPE. PERCUSSION DRILL CUTTINGS 4 1/2" DIAMETER.	SAMPLED BY : (DATE)	COAL SECTIONS.
PROJECT : PRATTS HILL			LOGGED BY : KM (DATE) 14-12-92	

SAMPLE No.	DESCRIPTION.	INTERVAL (m.)	DESCRIPTION.
0-1 m.	SOIL dk brn. clayey		
1-3	SANDSTONE, lt-brn, md-f. lithic, unconsol, weathered.		
3-3.5	CARB. MUDSTONE dk gry clayey, weathered.		
3.5-6	MUDSTONE: brn, clayey, oxidised.		
6-7	SANDSTONE: brn, md-f lithic, partly clayey, minor hemat. nodules		
7-9	SANDSTONE lt brn, md-f lithic, soft, weathered.		
9-11.5	MUDSTONE gry brn mottled, partly hard frags. BASE OXIDATION 11 m.		
11.5-12	CARB. MUDSTONE non weathered		
12-13.5	MUDSTONE gry		
13.5-14	SANDSTONE, gry, v.f. lithic HEAVY WATER FLOW 13.5 m.		
14-16	SANDSTONE gry f. lithic coaly laminations		
16-17	MUDSTONE: gry, minor carb. frags.		
17-18.2	SANDSTONE: gry f. lithic		
18.2-18.5	CARB MUDSTONE		
18.5-19.5	SANDSTONE: gry, f-v.f. lithic		
19.5-20	HORNfels: lt brn oxidised (baked mdst.).		
20-22	DOLERITE: mixed fresh, oxid, fractured - Abund. water flow		
	EGH 22 m.		

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DRILLING LOG SHEET.

TENEMENT: EL 12/41

LOCATION / SITE.

SAMPLE TYPE.

SAMPLED BY :
(DATE)

COAL SECTIONS.

PROJECT : PRATTS HILL

PH-5
N 581.190 ME
S374.190 MN

PERCUSSION DRILL
CUTTINGS
6" DIAMETER

LOGGED BY : KM
(DATE) 15-12-92

SAMPLE No.	DESCRIPTION.	INTERVAL (m.)	DESCRIPTION.
0-4 m	TALUS : rd brn Dol. heavily oxid. clayey		
4-6	TALUS : blue gry - mainly fresh fragments		
6-13	TALUS : brn. clayey Dol. dog, common rounded frags. (earlier oxid. cycle?)		
13-14	TALUS n/a minor damp clay. MINOR WATER 14m.		
14-22	CLAY/TALUS : rd brn clay-rich, heavily weathered. damp (fr. str. 22m)		
22-23.5	MUDSTONE : gry, clayey, non oxidised (eroded surface).		
23.5-25	SANDSTONE : gry f-v.f. lithic		
25-27	SANDSTONE : gry rd-f lithic		
27-32.8	SANDSTONE : gry rd - minor c. lithic (thickly bedded)		
32.8-33	COAL : Dull heavy, hard fissile, minor gry mudst.		
33-35.7	SANDSTONE : gry rd lithic		
35.7-36	MUDSTONE : gry clayey, traces dull coal		
36-40	SANDSTONE : gry m lithic minor c. SST 37-40m.		
	EGH 40m.		

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DRILLING LOG SHEET.

TENEMENT: EL 12/91	LOCATION / SITE. PH-6 ~ 581.380 m N 5374.150 m E	SAMPLE TYPE. PERCUSSION DRILL CUTTINGS 6" Diam.	SAMPLED BY : (DATE)	COAL SECTIONS.
PROJECT: PRATTS HILL			LOGGED BY : KM (DATE) 15-12-92	

SAMPLE No.	DESCRIPTION.	INTERVAL (m.)	DESCRIPTION.
0-5 m.	TALUS : mixed brd. fresh Dd. abund fines. clay		
5-10	TALUS : yell brn. Dol. heavily weathered, common rounded pebbles, dry		
11-13.5	SANDSTONE: brn, md lithic, oxidis.		
13.5-14	MUDSTONE: brn, clayey, oxidis.		
14-17	SANDSTONE brn, md. lithic, minor fresh tr. coal BASE OXIDATION 16.5 m.		
17-20	SANDSTONE: gry, md. lithic, tr. coal debris.		
20-22.5	SANDSTONE: A/A		
22.5-25	SANDSTONE: gry v.f. - f. lithic		
25-26	MUDSTONE: gry, tr. v.f. sst.		
26-30.5	SANDSTONE: gry md. lithic		
30.5-31	CARB. MUDSTONE: fissile - platy, partly hard, minor gry, clayey mdst.		
31-32.5	SANDSTONE: v.f. - f. carb. laminations, minor gry mdst.		
32.5-33	SANDSTONE: gry, mdst lithic		
33-34	SANDSTONE/SILTSTONE gry, v.f. sst, silst. lithic minor mdst.		
34-35	SANDSTONE: gry, f. lithic, abund. used laminations, debris		
35-36	SANDSTONE: gry, v.f. lithic, 30% carbonac. v.f. sst.		
36-37	SANDSTONE: A/A with v.f. - f. sst, 30% carb v.f. sst.		
37-38	MUDSTONE: gry, clayey		
38-39	CARB MUDSTONE: minor v.f. lithic sst, gry mdst. 10% vein CaCO ₃		
39-40	MUDSTONE: 50% gry, 50% carb mudst, carb v.f. sst.		
40-44	MUDSTONE: gry - dk gry, minor carb, mdst, v.f. lithic sst.		
44-45	SANDSTONE: gry, v.f. lithic, abund carb. laminations, debris		
45-46	SANDSTONE: gry, f. lithic		
46-47	MUDSTONE: gry, 50% v.f. lithic sst.		
47-48	SANDSTONE: gry, f, minor md. lithic.		
48-49	MUDSTONE: gry, minor v.f. lithic sst.		
49-50	SANDSTONE: gry, v.f. lithic, minor pale clouv.		
	EOH 50m.		NO WATER.

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