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				Registrar
D. DIR.	13 AUG 1984			E & IL
	DEPT. OF MINES			
REF. No.	8241/84			

FINAL REPORT

ON

E.L. 22/82

(MT FOSTER)

**OPEN FILE**

REPORT PREPARED

FOR

**MICROFILMED**

CORNWALL COAL COMPANY N.L.

BY

McELROY BRYAN & ASSOCIATES PTY LIMITED

J.H. BRYAN

AUGUST 1984

## SECTION 1. SUMMARY

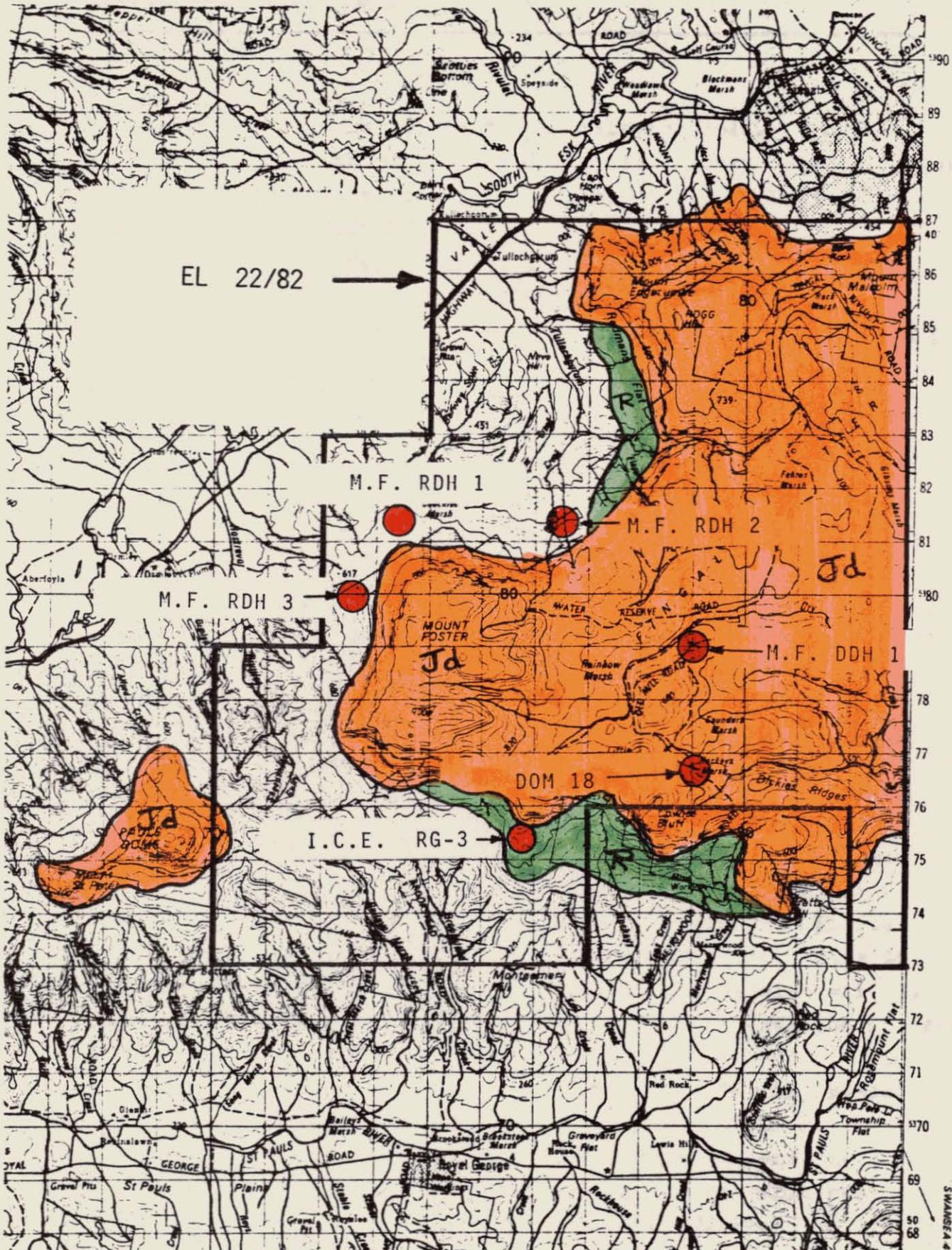
This exploration licence is located around Mt Foster, east of Avoca, in North-East Tasmania. Exploration for coal, undertaken over a period of 2 years, included geological mapping and drilling. The Triassic coal measures (Upper Parmeener Super-Group) occur over only a small part of the 147 sq. km exploration area and the coal occurrences are of such limited extent that it is not possible to justify further exploration.

## SECTION 2. PREVIOUS EXPLORATION

Coal exploration around the old Merrywood workings commenced in 1974 when the Department of Mines drilled a stratigraphic hole near Hockeys Marsh (D.O.M. 18). In 1978 Investigator Coal Exploration Pty Ltd drilled 4 holes around Merrywood, including I.C.E. RG3, which is located within EL 22/82 (see Figure 1). At 66.78 m that drill hole intersected a coal seam 1.015m thick (raw ash 27.2%). Other thin, high ash seams were intersected lower in the Triassic sequence. Exploration of EL 16/77 ceased in 1978 and no exploration was undertaken until 1983.

## SECTION 3. EXPLORATION OF E.L. 22/82

Coal outcrops were reported to exist in the vicinity of Mount Foster and in Tullochgorum Creek but no significant coaly material was found in these areas. Triassic sediments were



CORNWALL COAL COMPANY N.L.  
EL 22/82

LOCALITY MAP  
FIGURE 1

● Drill Hole  
Scale 1:100 000

Jurassic Dolerite  
Triassic coal measures

5 cm

considered by Waters (1978) to underlie the dolerite both to the north and south of Mount Foster. In January 1984 three (3) holes were drilled to the north of the dolerite but as previously reported these only intersected Permian strata. The Triassic coal measures are therefore less extensive than previously thought and may not even crop out on Redmans Flat as shown on Figure 1. The three drill holes (Mt Foster RDHs 1 to 3) which intersected the Permian were collared in dolerite scree and perhaps up to 100 metres below the apparent base of the dolerite sill. The Permian Strata in RDH 3 were at R.L. 660m and in RDH 2 were at RL 570m. The Permian strata that crop out north of Mount Foster dip to the east or south-east at between 5° and 10°.

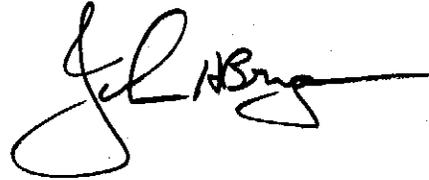
Because it was possible that Triassic coal measures could have been under the dolerite scree at a higher level than the first three drill holes another hole was located on the Fingal Tier (MF DDH1 on Figure 1). This hole, collared at 615m was terminated at 255m (RL 360m) still in dolerite.

#### SECTION 4. CONCLUSIONS AND RECOMMENDATIONS

Triassic sediments which might contain coal are very limited in extent in EL 22/82 and may be confined to a small area in the south, around drill hole I.C.E.-RG3. The Permian strata, which in part are marine, are very extensive beneath the dolerite. The Jurassic dolerite is about 300m thick and for nearly all of EL 22/82 appears to be in contact with the Permian sediments.

No significant outcrops of coal were discovered, and the drill hole data clearly indicates that potentially mineable coal is confined to areas east and south-east of EL 22/82.

It is recommended that EL 22/82 not be renewed when it expires on 30.9.84 as further coal exploration is not warranted.



J.H. Bryan

7.8.84

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MT FOSTER D.D.H. 1

<u>Area:</u> Fingal Valley, EL 22/82 Mt Foster	<u>Location:</u> (Approx. AMG Co-ords)	E 579 000 N 5379 000
<u>Drilled by:</u> H.J. Stacpoole (Foxmobile 80)	<u>Collar RL:</u>	Approx. 615 m
<u>Logged by:</u> J.H. Bryan	<u>Total Depth:</u>	255 m
<u>Date Commenced:</u> 5.6.84	<u>Date Completed:</u>	27.6.84

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Floor (m)</u>	<u>Remarks</u>
DOLERITE SCREE	5.00	5.00	200 mm Casing to 5 m HW Casing to 114 m
DOLERITE, hard, coarse grained, grey/brown, some quartz veins	250.00	255.00	Down-hole Hammer to 114 m NQ Core 114 m - 255 m

DRILL HOLE COMPLETED AT 255 M  
AFTER DRILLING THROUGH  
DOLERITE