

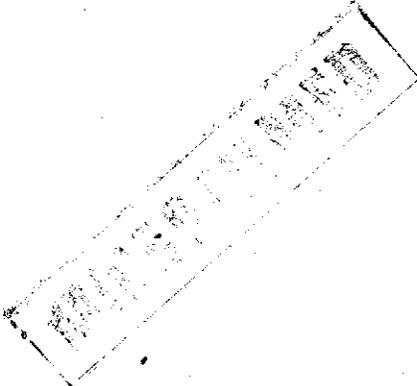
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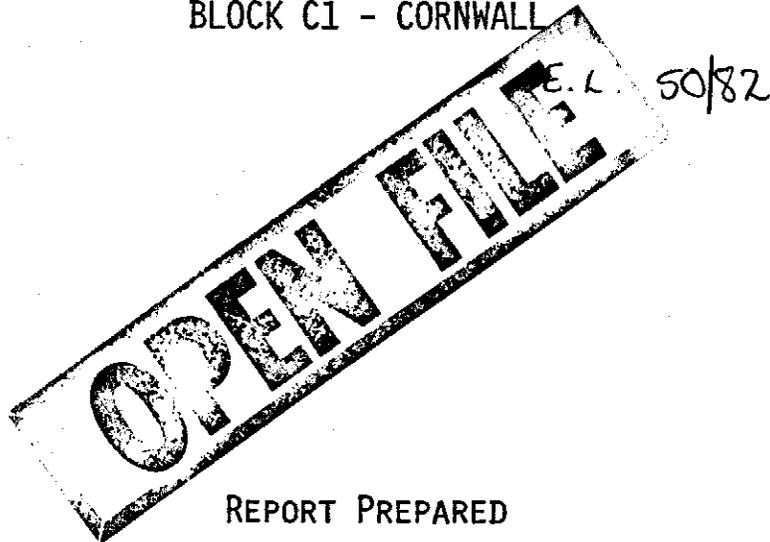
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16 JUL 1985			
DEPT. OF MINES			
7369/85			



REVISED ESTIMATE
OF
RESERVES IN THE BLUE SEAM

BLOCK C1 - CORNWALL



REPORT PREPARED
FOR
CORNWALL COAL COMPANY N.L.
BY

McELROY BRYAN AND ASSOCIATES PTY LIMITED

SECTION 1. INTRODUCTION

In Report 60/1/6, dated December 1984, the reserves estimates included coal in the Blue Seam above the old Cornwall Seam workings. The limited drill hole data then available for Block C1 had resulted in seam correlations which now seem very unlikely. For the 3 relevant drill holes (CC's 2, 4 and 12) the graphic sections have been revised to show the seams now recognised following the completion of CC24 (see Figures 1.1 to 1.4).

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CORNWALL COAL COMPANY N.L.

Mt. Nicholas

DDH 24

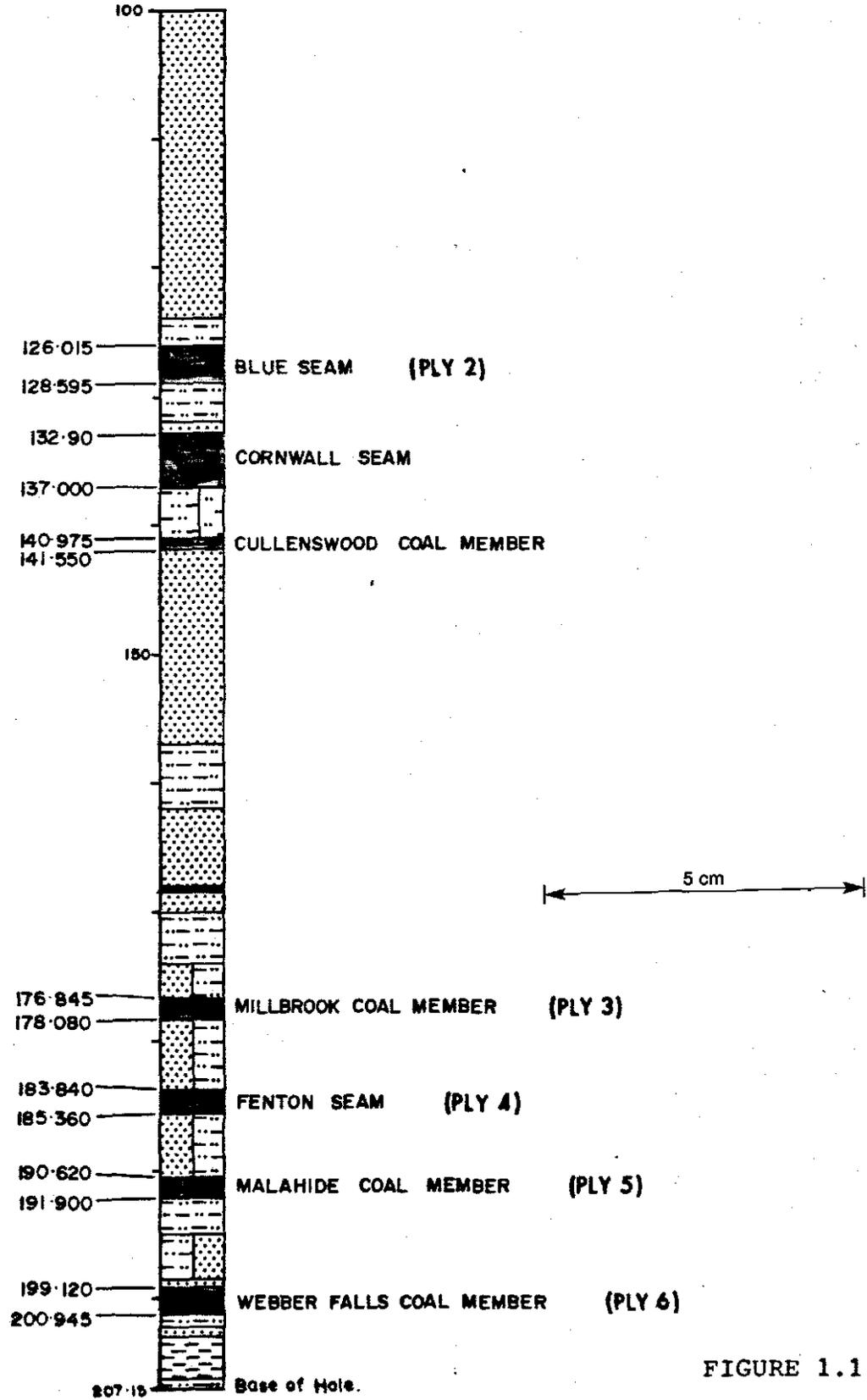


FIGURE 1.1

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CORNWALL D.D.H. 12

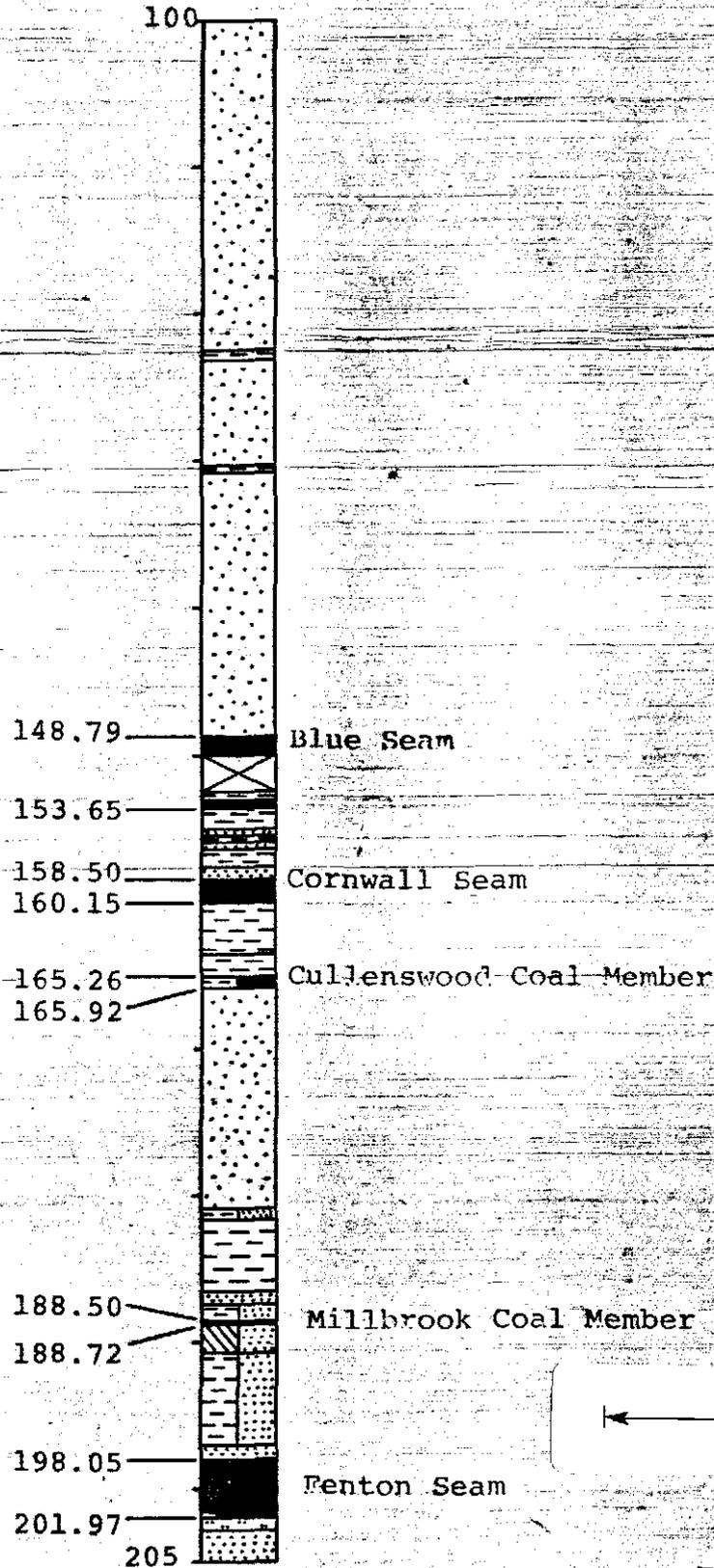


FIGURE 1.2

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CORNWALL COAL D.D.H. CC 4

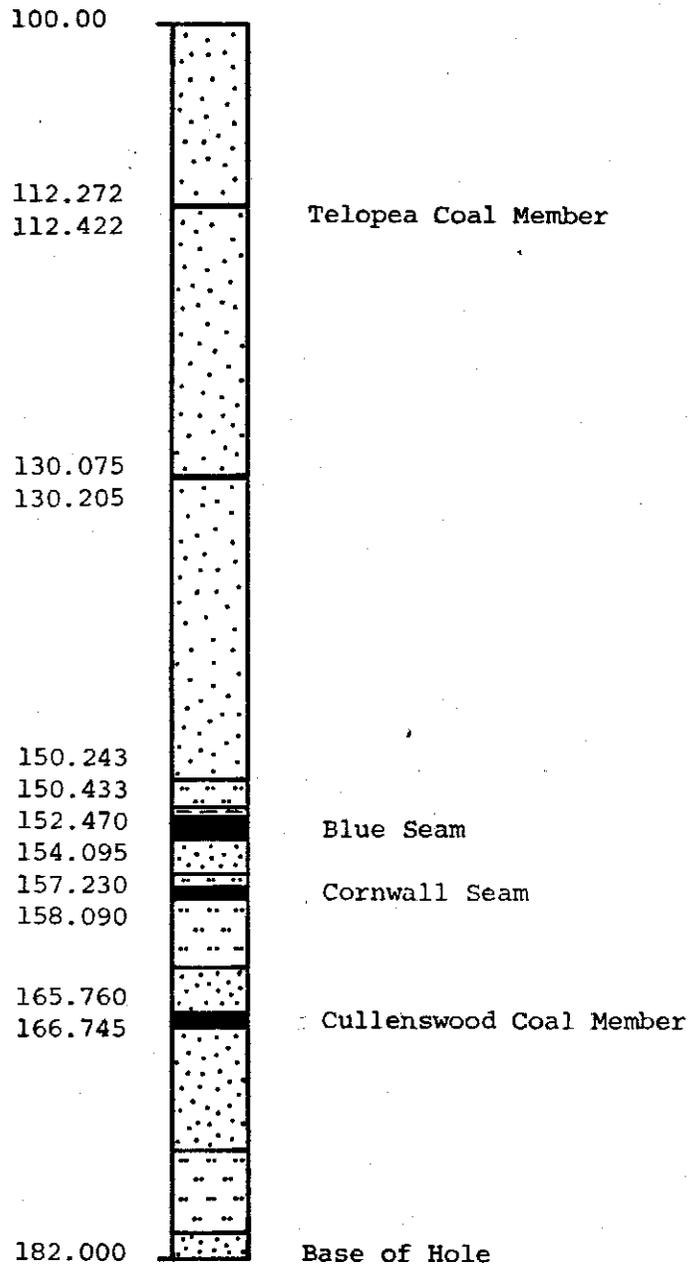


FIGURE 1.3

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CORNWALL COAL COMPANY

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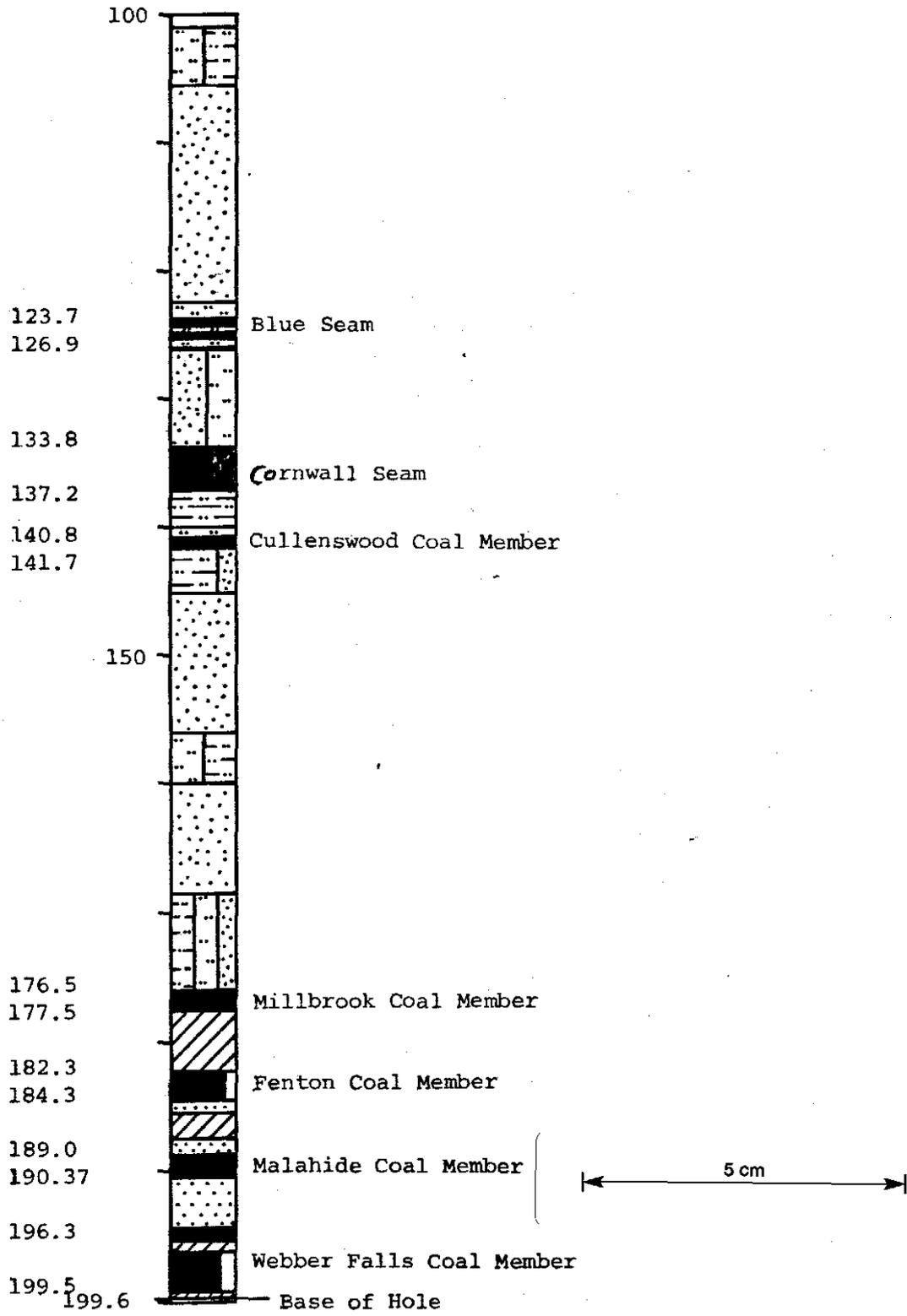


FIGURE 1.4

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PAGE 2 of 2

SECTION 2. SEAM CORRELATIONS - BLOCK C1

In the structural block now being worked at Blackwood Colliery, there are three thick, mineable seams - Blue Upper, Blue Lower and Cornwall. DDH's CC 3, 10 and 11 and D.O.M. 33 all intersected these seams and the interseam intervals change from north to south. Immediately east of the fault which limits the Blackwood workings hole CC12 was drilled in 1980. That drill hole intersected 3 seams between 148.79m and 165.92m and the top seam had been worked. The old mine plans showed limited workings in the Blue Seam in the vicinity of CC12 and the drill hole penetrated those workings.

The seams between 148.79 and 165.92 in CC12 were correlated with those in CC10 and named Blue Upper, Blue Lower and Cornwall. The same 3 seams were recognised in CC2 and CC4.

A study of the most recent drill hole data clearly indicates that the Blue Upper Seam does not exist in the large fault block east of and adjacent to the Blackwood Colliery workings. The Blue Upper Seam has been replaced by quartz-lithic sandstone. The coal was either eroded prior to the deposition of the sandstone or was never formed in this area. The fault line which passes through D.O.M. 36 and CC12 appears to have been active during deposition of the coal measures as there is a sharp change across the fault.

The lower coaly unit of the three, in holes CC2, CC4 and CC12, was previously correlated with the Cornwall Seam. This is now considered incorrect and that horizon is the Cullenswood Coal Member, a very thin coaly unit which is also present in CC10, etc.

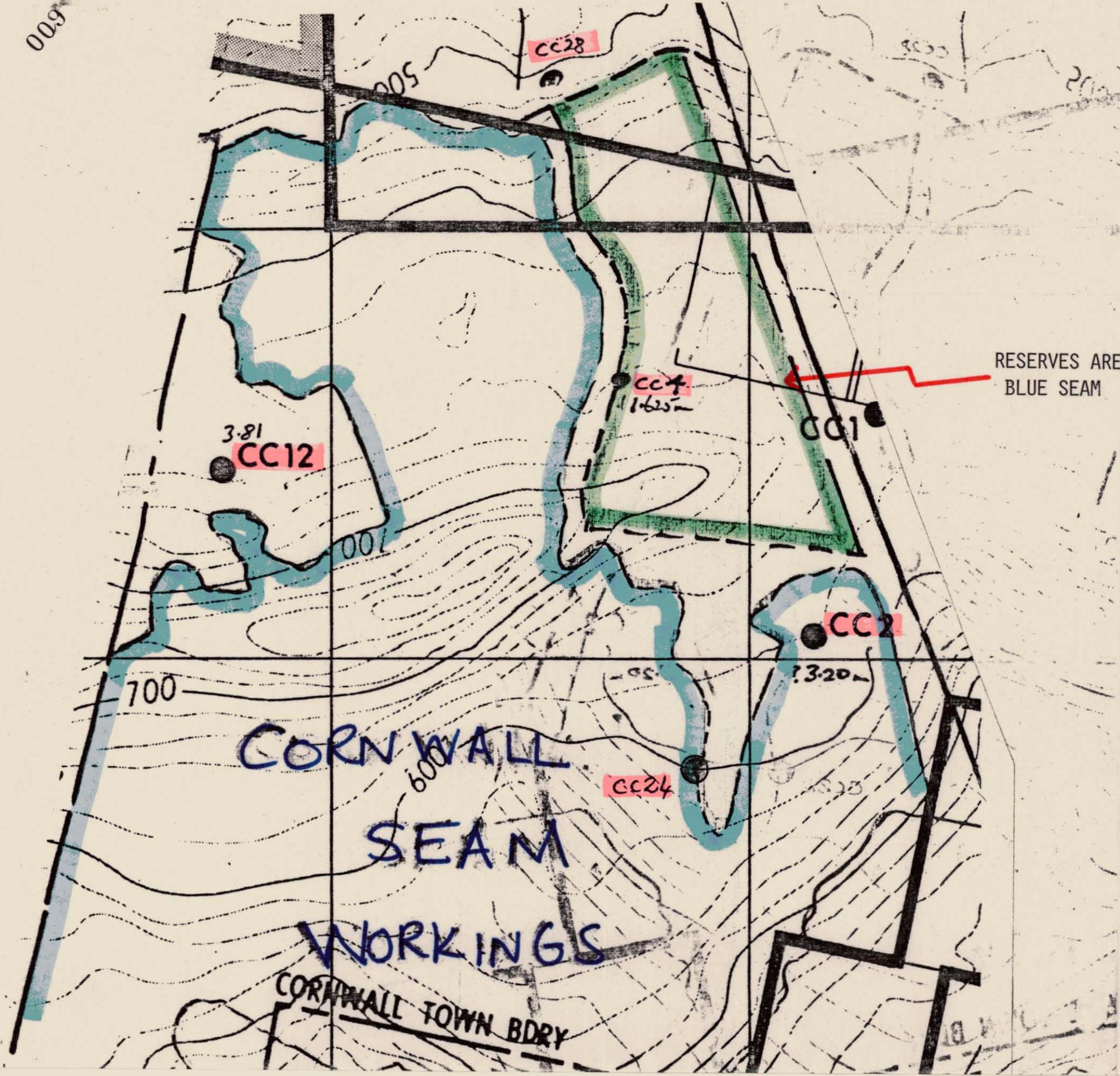
The most significant factor arising from this revised correlation is that the interval between the Cornwall Seam (extensively worked) and the Blue Seam is not in the order of 15 metres but is only about 5 metres. The effect of this is to sterilise reserves in the Blue Seam which lie above the workings of the Cornwall Seam.

SECTION 3. RESERVES IN BLUE SEAM - BLOCK C

The only area in this fault block where the Blue Seam could be mined is north and east of CC4, where the Cornwall Seam has not been worked (see Figure 3.1). The Blue Seam crops out near CC28 and access for mining would be possible from outcrop at that location.

<u>Area M²</u>	<u>Seam Thickness</u>	<u>R.D.</u>	<u>Tonnes x 10⁶</u>
0.49 x 10 ⁶	1.6m	1.60	1.25
Mining Recovery	40%	—————>	0.50
Washing Recovery	65%	—————>	0.325

Unless infrastructure was established on the northern side of Nicholas Range for other reasons it would almost certainly be uneconomic to establish a mine for this small reserve of Blue Seam.



5 cm

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 FIGURE 3.1
 BLUE SEAM
 BLOCK C1
 NICHOLAS RANGE

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