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1st Floor  
68 Alfred Street  
Milsons Point. N.S.W. 2061  
Telephone (02) 922-2477

109001

Postal Address:  
P.O. Box 387,  
Milsons Point  
N.S.W. 2061

**OPEN FILE**

PROGRESS REPORT FOR SEPTEMBER 1979

EXPLORATION LICENCE 7/79

**MICROFILMED**

DATE	AG.	CG.	EG.	DEPT.
				Regional
DATE	- 1 OCT 1979			E & IL
	DEPT. OF MINES			
REF. No.	6694/79			

REPORT PREPARED FOR

BESSER VIBRAPAC MASONRY (TASMANIA) PTY LIMITED

BY

McELROY BRYAN & ASSOCIATES PTY LIMITED

## SECTION 1. GENERAL GEOLOGY

00  
 Dolerite of Jurassic age forms the prominent topographic features of the Exploration Licence Area. Mt Durham and its flanks consist of dolerite and dolerite scree. Along the southern boundary of the E.L. the high plateau country of the Fingal Tier is also formed by dolerite (Figure 1). The dolerite is thought to have been emplaced as a sill or flow? and acts as a resistant capping to the underlying Triassic sandstones, siltstones and minor claystones which are associated with the coal seams. The maximum thickness of dolerite developed in the Mt Durham area is approximately 230 m and in the Fingal Tier area is approximately 380 m.

The Triassic sediments are fine to medium grained, lithic, massive, well bedded sandstones, siltstones and dark grey to grey-green claystones. They generally dip at less than  $5^{\circ}$  to the south-east although there are local dips up to  $10^{\circ}$ . The known maximum thickness of Triassic sediments in the Mt Durham area is approximately 170 m and in the Fingal Tier area to the south is approximately 300 m.

The Permian sandstones, limestones, siltstones, claystones and minor volcanics? <sup>at base conformably or unconformably.</sup> conformably underlie the Triassic strata. <sup>where?</sup> These sediments generally form the lower parts of the slopes at the foot of Mt Durham and the Fingal Tier. The Permian strata generally dip at angles up to  $10^{\circ}$ , and in the Mt Durham area attain a thickness of approximately 130 m.

The broad valley floors, in which the South Esk and Break O'Day Rivers flow, are blanketed by superficial deposits of Quaternary alluvium, mostly sand and gravels.

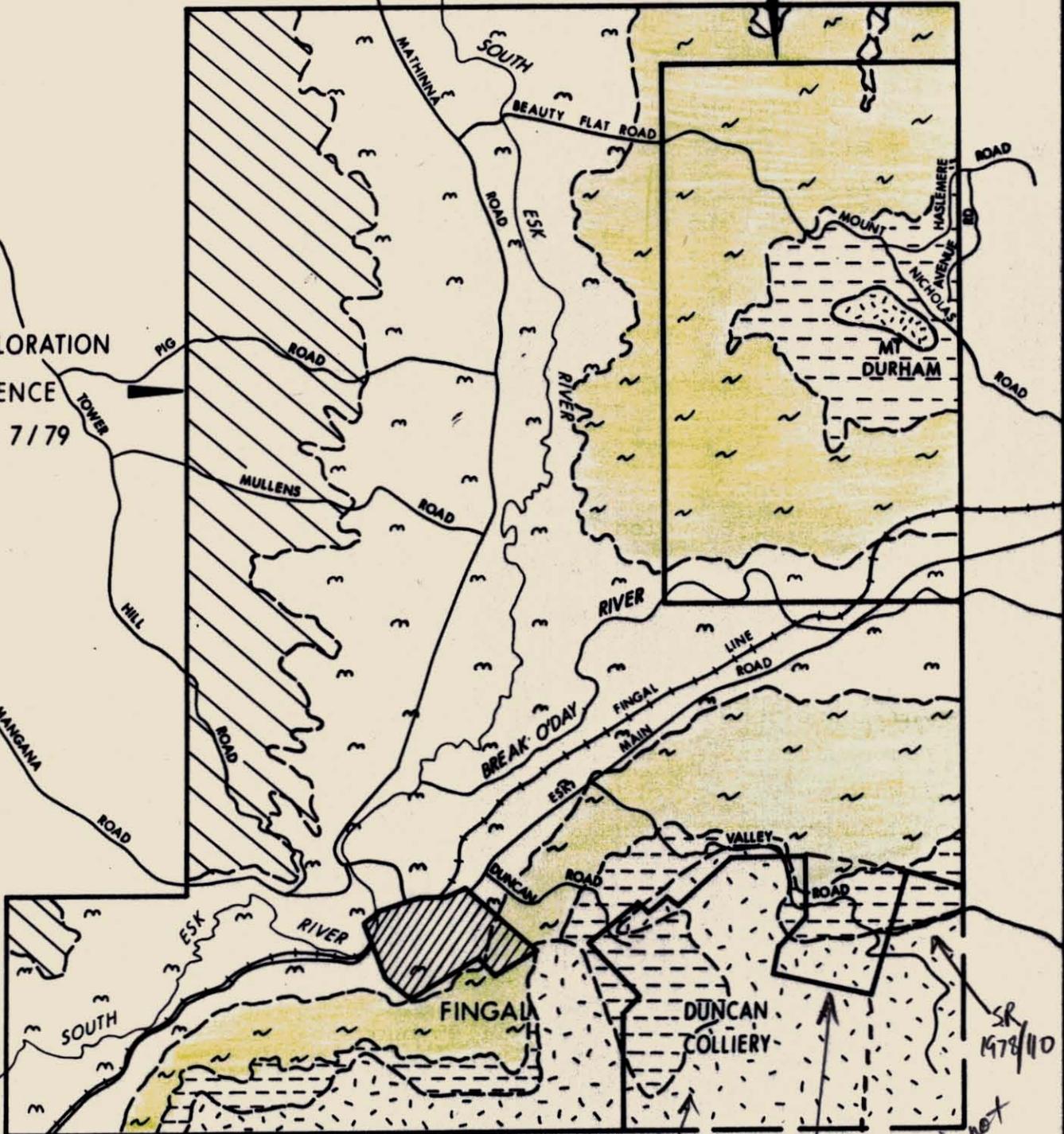
Highly folded and steeply dipping beds of light and dark mudstones unconformably underlie the Permian strata and are restricted to the western portion of the E.L. (Figure 1). They are of Lower Devonian - Tremadocian - Cambrian (?) age, and are designated the Mathinna Beds.

002

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Refer to  
Mt Durham Area  
1:20,000 Map

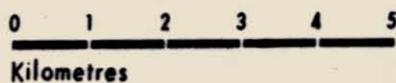
EXPLORATION  
LICENCE  
No. 7/79



REFERENCE

QUATERNARY		Alluvium, sand, gravel
JURASSIC		Dolerite
TRIASSIC		Sandstone, minor coal, siltstone, mudstone
PERMIAN		Sandstone, limestones, siltstone, claystone
LOWER DEVONIAN - TREMADOCIAN - CAMBRIAN(?)		Mudstone, shale, siliceous quartzwacke

SCALE 1:100,000



5 cm

Figure 1

GEOLOGICAL MAP  
E.L. No. 7/79

003

## SECTION 2. GEOLOGY OF MT DURHAM AREA

Enclosure 1 illustrates the geology of the Mt Durham area. The Jurassic dolerite forming the peak of Mt Durham is a protective capping to the underlying Triassic sediments. Coal seams crop out in a few locations in densely vegetated and scree-filled creeks on the south-western and northern flanks of Mt Durham. Levels were taken on the coal outcrops using an aneroid barometer and the levels are plotted on Enclosure 1. On the south-western flank of Mt Durham these levels coincide with those at the Silkstone Adits 1 and 2 (Enclosure 1). The coal member worked in the Silkstone Mine was the Fenton Coal Member (denoted the Delta Seam by J. Elliston, 1951) and the coal seam below is termed the Millbrook Coal Member. Part of the Fenton Coal Member crops out in the creek at Silkstone Adit 1 where a section was measured as illustrated in Figure 2. A partially obscured coal seam was measured near Silkstone Adit 2 and is shown in Figure 3. Outcrops of the Fenton Coal Member occur in a creek on the northern side of Mt Durham - directly north of D.O.M. 9 (Enclosure 1). As yet outcrops of the Cornwall Coal Member intersected in D.O.M. 8 and 12 have not been found.

## SECTION 3. DRILLING RESULTS

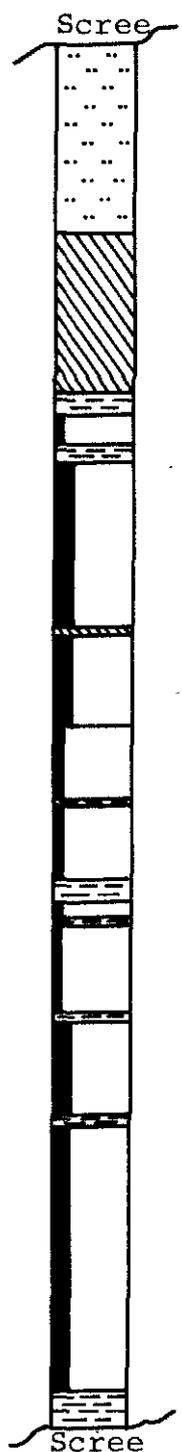
Four fully cored diamond drill holes were completed some years ago by the Mines Department and these intersected coal in the lower part of the Triassic sediments. The coal intersections are tabulated in Table 1. D.O.M. 10 was abandoned and although not recorded it is most likely that the hole failed to penetrate the cover of dolerite scree. The dolerite scree can reach thicknesses of over 50 m in some areas.

The coal intersections in those four drill holes constitute four distinct coal members, and these can be correlated

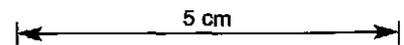
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FIGURE 2  
SILKSTONE ADIT 1

109005

GRAPHIC LOG	APPROX. R.L. m a. s. l.	COAL MEMBER	COAL MEMBER TRUE THICKNESS (m)	COAL MEMBER EXPOSED THICKNESS (m)
	<p>430</p>	<p>Fenton</p>	<p>3.04</p>	<p>-</p>

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 for  
**BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD**

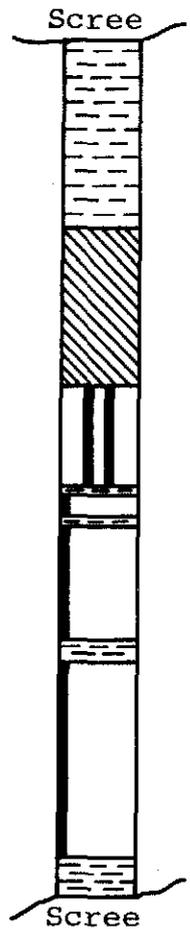


**COAL MEMBER SECTION**

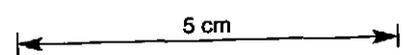
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FIGURE 3  
SILKSTONE ADIT 2

109006

GRAPHIC LOG	APPROX. R.L. m a s.l.	COAL MEMBER	COAL MEMBER TRUE THICKNESS (m)	COAL MEMBER EXPOSED THICKNESS (m)
	<p>420</p>	<p>Fenton</p>	<p>-</p>	<p>1.67</p>

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**COAL MEMBER SECTION**



throughout the Mt Durham area (Refer to Enclosure 2).

Several thin coal beds can also be correlated between holes but appear to pinch out laterally or grade into non-coaly claystone horizons. Of the four recognizable coal members two are of significant thickness and mining may be possible; they are the Cornwall Coal Member and the Fenton Coal Member. Coal from the Fenton Coal Member has already been extracted and this activity is discussed in Section 4.

The Cornwall Coal Member was not intersected in D.O.M. 9 because the hole was collared below the outcrop level; and was not intersected in D.O.M. 11 because of erosion prior to the accumulation of dolerite scree. The thickness between the Cornwall Coal Member and the Fenton Coal Member ranges from 19.85 m to 23.75 m.

Whilst in Hobart inspection of all the D.O.M. holes in the Mt Durham area was completed and the stratigraphic sequence from just above the Cornwall Coal Member to below the Fenton Coal Member was logged in detail. The written logs and detailed graphic sections of the coal members are included in Appendix A.

#### SECTION 4. PREVIOUS MINING

Coal was mined from the Fenton Upper Coal Member at the Silkstone Workings prior to 1951. The known extent of underground extraction of the Fenton Upper Coal Member is limited to two adits diverging from Silkstone Adit 1 (see Enclosure 1). The western adit is developed for some 62 m on a bearing of  $335^{\circ}$  and the main adit extends for 120 m on a bearing  $047^{\circ}$ . The detailed plan after J. Elliston is shown in Enclosure 3. Tonnage figures of the extracted coal are not known.

*C.F. Parbury*

C.F. Parbury  
Project Geologist  
26.9.79

STATEMENT OF EXPLORATION EXPENDITURE

E.L. 7/79

SEPTEMBER 1979

The following expenditure relates to exploration for coal in E.L. 7/79.

Geological Services	\$1053.99
Travel/Accommodation/Vehicle Hire	\$ 543.60
Drafting of maps and plans, and sundry expenses	\$ 162.14
	<hr/>
	\$1759.73
	<hr/>

J.H. Bryan,  
(EXPLORATION MANAGER)

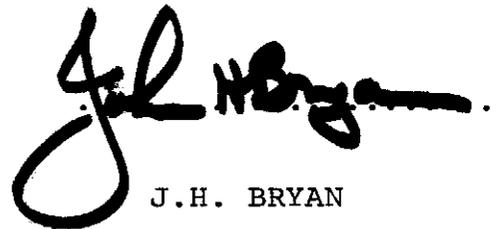
28.9.79

I, JOHN HAMILTON BRYAN of 18A NORTHCOTE ROAD, LINDFIELD,  
in the State of New South Wales, GEOLOGIST, do solemnly  
and sincerely declare that expenditure of \$1,759.73 has  
been incurred in relation to exploration for coal within  
E.L. 7/79 in Tasmania, and I make this solemn declaration  
by virtue of the Statutory Declaration Act 1959 and  
subject to the penalties provided by that Act for the  
making of false statements in statutory declarations  
consciously believing the statements contained in this  
declaration to be true in every way.

DECLARED AT SYDNEY THIS 28TH DAY OF SEPTEMBER, 1979.



JUSTICE OF THE PEACE FOR  
THE STATE OF NEW SOUTH WALES



J.H. BRYAN

010

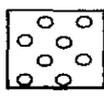
109011

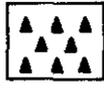
APPENDIX A

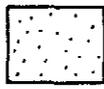
LOGS OF DEPARTMENT OF MINES DRILL HOLES

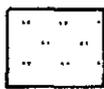
AND

GRAPHIC SEAM SECTIONS

 CONGLOMERATE, pebble to granule

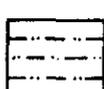
 BRECCIA

 SANDSTONE

 SILTSTONE

 CLAYSTONE

 STONE, COALY OR CARBONACEOUS

 MUDSTONE

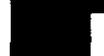
 SHALE, SILTSHALE, CLAYSHALE

 WEATHERED and UNCONSOLIDATED MATERIAL

 INTERBEDDED

 UNKNOWN

 COAL, BRIGHT

 COAL, BRIGHT with DULL BANDS

 COAL, DULL and BRIGHT

 COAL, MAINLY DULL with NUMEROUS BRIGHT BANDS

 COAL, DULL to DULL with MINOR BRIGHT BANDS

 COAL INTERLAYED with NON-COAL

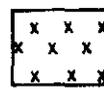
 NON-COAL INTERLAYED with COAL

 COAL, STONY

 STONE, COALY

 COAL, WEATHERED

 COAL, HEAT ALTERED

 IGNEOUS, acid and intermediate

 IGNEOUS, basic

### LEGEND FOR GRAPHIC LOGS & SEAM SECTIONS

012

<u>County:</u>	<u>Location:</u>
<u>Parish:</u>	<u>A.M.G. Co-ordinates:</u>
<u>Portion:</u>	
<u>Logged By:</u> C.F. Parbury	<u>Collar Height:</u> 573 m a.s.l.
<u>Drilled By:</u>	<u>Total Depth:</u> 250 m approx.
	<u>For:</u>
<u>Commenced:</u>	<u>Completed:</u>

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
FOR DETAILS OF STRATA ABOVE 116.68 REFER TO LOG D.O.M. 8	116.68	116.68	
CLAYSTONE, dark grey, silty towards base, well preserved plant fossils along bedding partings, regularly bedded, thinly slabby, abrupt boundary with underlying strata dipping 10	1.45	118.13	
SANDSTONE, light grey, medium, lithic to quartz-lithic, well sorted, angular to subangular, well cemented, regularly bedded, massive to thickly bedded, sporadic horizons of angular infraformational clasts, rip-up clasts, carbonaceous plant fossils along bedding parts dicoridum, bedding plane dips up to 7°, 15 natural breaks all along bedding or crossbedding partings	5.86	123.99	
<u>COAL</u> , dull	1.09	125.08	) Cornwall ) Upper Coal ) Member
CLAYSTONE, buff cream, carbonaceous flecks sporadic throughout	0.04	125.12	) Thickness: ) 1.76 m

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
<u>COAL</u> , dull	0.33	125.45	)
, dull with numerous bright bands	0.30	125.75	)
CLAYSTONE, light grey, fragments of plants poorly preserved along bedding partings, well bedded, thinly to very thinly bedded, infraformational clasts at base of stratum	0.95	126.7	)
<u>COAL</u> , dull, contact with overlying stratum abrupt locally, slightly irregular	0.62	127.32	) Cornwall ) Lower Coal ) Member
CLAYSTONE, cream buff, carbonaceous flecks throughout	0.05	127.37	) Thickness: ) 2.18 m
<u>COAL</u> , dull	1.08	128.45	)
, dull with minor bright bands	0.43	128.88	)
CLAYSTONE, buff grey, massive, minor plant fragment material along bedding plane, abrupt irregular base	1.08	129.96	)
SANDSTONE, light grey, lithic, well sorted, subangular to angular, well cemented, thickly bedded, massive to blocky, coarsening downwards to a medium sandstone, 40 natural breaks all along bedding planes and crossbed partings, crossbed partings dip up to 20°, numerous infraformational clasts of brown claystones highly irregular intruded by sandstone dykes towards base of stratum	13.11	143.07	)

014

109015

3.

MT. NICHOLAS D.O.M. 8

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE AND SILTSTONE INTERBEDDED, ratio 40:60. Claystone, dark grey, carbonaceous; siltstone, light to mid grey, minor phases, fine sand- stone, micro trough cross laminations throughout, parallel and wavy laminations, flaggy, plant fossile fragments along bedding surfaces, siltstone towards base	3.94	147.01	
SANDSTONE, light grey, fine to medium, quartz-lithic, concentrations of carbonaceous material define parallel and wavy laminations	2.49	149.5	
SILTSTONE, mid grey, thickly to medium bedded, dip less than 5°, laminite towards base of stratum	1.19	150.69	
CLAYSTONE, dark grey, carbonaceous, broken, fissile in part	1.74	152.43	
SANDSTONE, gritty infraformational clasts	0.20	152.63	
<u>COAL</u> , dull	0.69	153.32	Fenton Coal ) Member Thickness: 0.69 m
CLAYSTONE, brown buff, regularly bedded, fractured 6 places, inclined 35-40° to LCA, curved regular slickensided, poorly preserved plant fossil fragments throughout	2.69	156.01	
<u>COAL</u> , dull, minor bright bands, calcite associated with cleat in bright bands	0.69	156.7	) ) )

015

109016 4.

MT. NICHOLAS D.O.M. 8

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, dark grey, carbonaceous	0.08	156.78	) Millbrook
			) Coal Member
<u>COAL</u> , dull	0.05	156.83	) Thickness: 0.82 m
CLAYSTONE, dark grey, carbonaceous, coaly in part	0.69	157.52	
SANDSTONE, light grey, quartz- lithic, fine to medium, claystone towards top, well sorted, sub- angular, claystone at basal 2" of stratum	3.45	160.97	
<u>COAL</u> , dull	0.30	161.27	
CLAYSTONE, dark brown grey, broken	0.71	161.98	
<u>COAL</u> , dull with minor bright bands	0.27	162.25	
SANDSTONE, as for unit above	5.49	167.74	

FOR DETAILS OF STRATA BELOW 167.74m TO T.D.  
REFER TO LOG OF D.O.M. 8

016

MT NICHOLAS D.O.M. 8

109017

ASH %  
CUMULATIVE  
FROM FLOOR

Cornwall Upper & Lower

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
		<p>1.76</p> <p>0.67</p>					

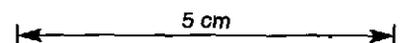
Prepared by  
MCELROY BRYAN & ASSOCIATES PTY LTD

SEAM SECTION

for  
BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD

DRAWN BY C.F.R.P. DATE JUNE 1979 SCALE 1:20

PAGE 1 of 2

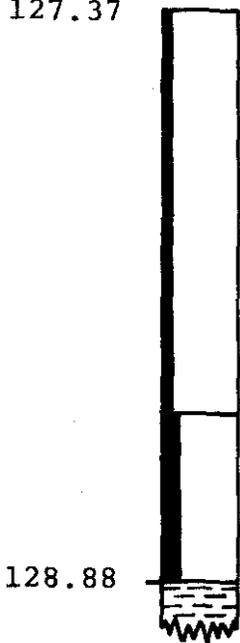


017

MT NICHOLAS D.O.M. 8  
Cornwall Lower (cont'd)

109018

ASH %  
CUMULATIVE  
FROM FLOOR

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
		1.51					

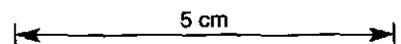
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SEAM SECTION

for  
BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD  
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PAGE 2 of 2



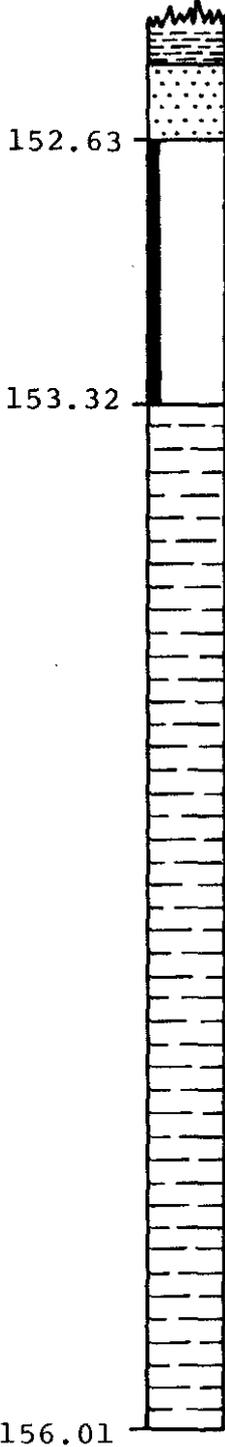
018

MT NICHOLAS D.O.M. 8

109019

ASH %  
CUMULATIVE  
FROM FLOOR

Fenton

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
 <p>152.63</p> <p>153.32</p> <p>156.01</p>		0.69					

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for  
BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD

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PAGE 1 of 2

5 cm

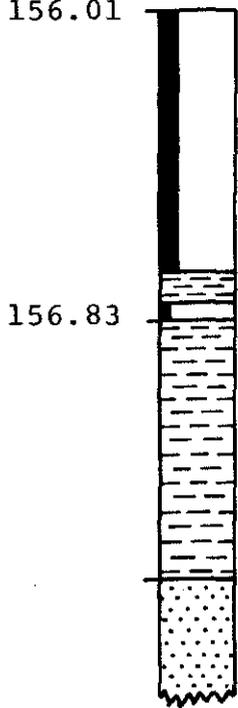
019

MT NICHOLAS D.O.M. 8

109020

ASH %  
CUMULATIVE  
FROM FLOOR

Millbrook

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
		0.82					

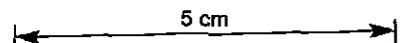
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for

SEAM SECTION

BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD  
DRAWN BY C.F.R.P. DATE JUNE 1979 SCALE 1:20

PAGE 2 of 2

5 cm



MT. NICHOLAS D.O.M. 9County:Location:Parish:A.M.G. Co-ordinates:Portion:Logged By: C.F. ParburyCollar Height: 449 m asl approx.Drilled By:Total Depth: 236.5 mFor:Commenced:Completed:

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE, brown buff, weathered, ironstained, core broken, medium, lithic	0.25	0.25	
CORE LOSS	4.32	4.57	
SANDSTONE, as for unit above	0.89	5.46	
CORE LOSS	6.73	12.19	
SANDSTONE, as for unit 0.25 above	1.88	14.07	
CORE LOSS	1.17	15.24	
SILTSTONE, mid brown, fissile, weathered	0.86	16.10	
SILTSTONE, white cream, highly fissile, minor plant fossil material along bedding partings, weathered in part	0.99	17.09	
CORE LOSS	1.92	19.01	

021

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, mid brown-grey, grey, grey-green, carbonaceous in part, broken core, minor syndepositional deformational structures, 3 fractures regular planar 40° to LCA, slickensided, minor plant fossil fragments towards base	3.19	22.20	
<u>COAL</u> , dull, calcite along cleats, broken	0.63	22.83	)
, stony	0.13	22.96	) Fenton
, dull, hard	0.25	23.21	) Coal Member
, stony, minor bright coal penny- bands, partings dip up to 10°	0.28	23.49	) Thickness: 1.29 m
CLAYSTONE, black carbonaceous fissile	0.30	23.79	)
CLAYSTONE, dark grey to mid grey, numerous plant fossil fragments along parting surfaces	0.63	24.42	)
SILTSTONE, mid brown, grey, regularly bedded, five fractures throughout inclined up to 30° to LCA, plant fragments along bedding partings, bedding dips up to 11°	4.32	28.74	)

FOR DETAILS OF STRATA BELOW 28.74 m  
TO T.D. REFER TO LOG OF D.O.M. 9

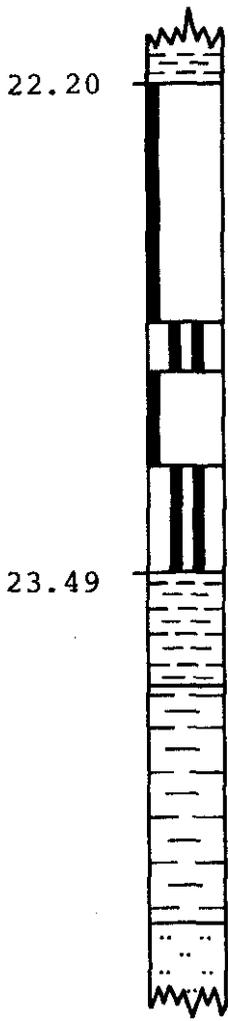
022

MT NICHOLAS D.O.M. 9

109023

ASH %  
CUMULATIVE  
FROM FLOOR

Fenton

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
 <p>22.20</p> <p>23.49</p>		1.29					

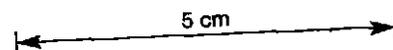
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MCELROY BRYAN & ASSOCIATES PTY LTD  
for

SEAM SECTION

BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD  
DRAWN BY C.F.R.P. DATE JUNE 1979

SCALE 1:20

PAGE 1 of 1



MT. NICHOLAS D.O.M. 11County:Location:Parish:A.M.G. Co-ordinates:Portion:Logged By: C.F. ParburyCollar Height: 498 m asl approx.Drilled By:Total Depth: 139.5 mFor:Commenced:Completed:

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
FOR DETAILS OF STRATA TO 58.42 m REFER TO LOG OF D.O.M. 11	58.42	58.42	
SANDSTONE, light grey, lithic to quartz-lithic, medium, well sorted, angular to subangular, thickly bedded, massive to blocky, sporadic lenses and blebs of bright coal and clay- stone, claystone blebs flattened in plane of bedding, 18 breaks through- out stratum	2.54	60.96	
SILTSTONE AND CLAYSTONE INTERBEDDED. Siltstone, mid grey, lithic; claystone, dark grey, carbonaceous, well bedded, thinly to medium bedded, laminite in part, numerous parallel and wavy laminations, minor fine sandstone phases, partings dip up to 15°, single fracture towards base inclined 25° to LCA, fracture regular planar, minor plant fossil fragments along partings	5.23	66.19	
SANDSTONE, as for 2.54 unit above	0.61	66.80	
CLAYSTONE, mid to dark grey, carbonaceous, well bedded, thinly bedded	0.24	67.04	

024

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
			Fenton
<u>COAL</u> , dull with minor bright bands	0.25	67.29	)Coal Member
, dull	0.48	67.77	)Thickness:
, dull with minor bright bands	0.51	68.28	) 1.24 m
CLAYSTONE, dark grey, carbonaceous	0.15	68.43	
CLAYSTONE, mid grey, well bedded, thinly bedded, flaggy, minor siltstone phases, partings dip less than 5°, siltstone towards base	6.25	74.68	

FOR DETAILS OF STRATA BELOW 74.68m  
TO T.D. REFER TO LOG OF D.O.M. 9

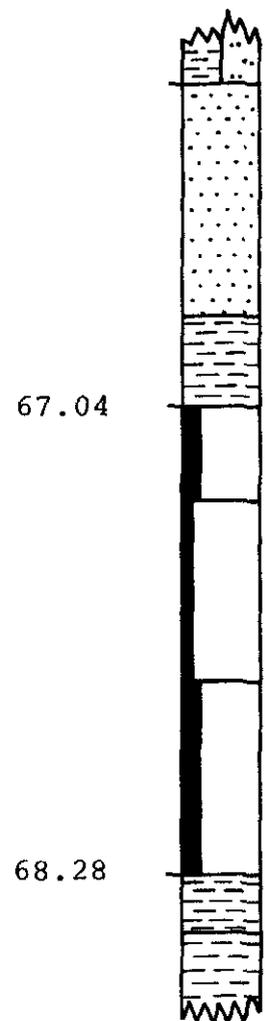
025

MT NICHOLAS D.O.M. 11

109026

ASH %  
CUMULATIVE  
FROM FLOOR

Fenton

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
 <p>67.04</p> <p>68.28</p>		1.24					

Prepared by  
MCELROY BRYAN & ASSOCIATES PTY LTD

SEAM SECTION

for  
BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD

DRAWN BY C.F.R.P. DATE JUNE 1979 SCALE 1:20

PAGE 1 of 1

5 cm

026

109027

MT. NICHOLAS D.O.M. 12

<u>County:</u>	<u>Location:</u>
<u>Parish:</u>	<u>A.M.G. Co-ordinates:</u>
<u>Portion:</u>	
<u>Logged By:</u> C.F. Parbury	<u>Collar Height:</u> 575 m asl approx.
<u>Drilled By:</u>	<u>Total Depth:</u> 223.9 m
	<u>For:</u>
<u>Commenced:</u>	<u>Completed:</u>

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
FOR DETAILS OF STRATA ABOVE 115.65 m REFER TO LOG D.O.M. 12	115.65	115.65	
SANDSTONE, light grey, lithic to quartz-lithic, medium, well sorted, angular to subangular, massive, blocky, sporadic lenses of coal and claystone flattened in plane of bedding, single open fracture subparallel to L.C.A., 34 natural breaks all along bedding plane, dip less than 5°, well cemented	8.24	123.89	
<u>COAL</u> , dull	0.18	124.07	)
			)
CLAYSTONE, mid grey	0.04	124.11	)
			)
<u>COAL</u> , dull	0.18	124.29	) Cornwall
			) Upper Coal
CLAYSTONE, white cream, dark grey top and bottom	0.04	124.33	) Member
			) Thickness:
			) 1.45 m
<u>COAL</u> , dull	0.25	124.58	)
			)
CLAYSTONE, buff cream, coaly carbonaceous flecks throughout	0.02	124.60	)
			)
<u>COAL</u> , dull	0.04	124.64	)

027

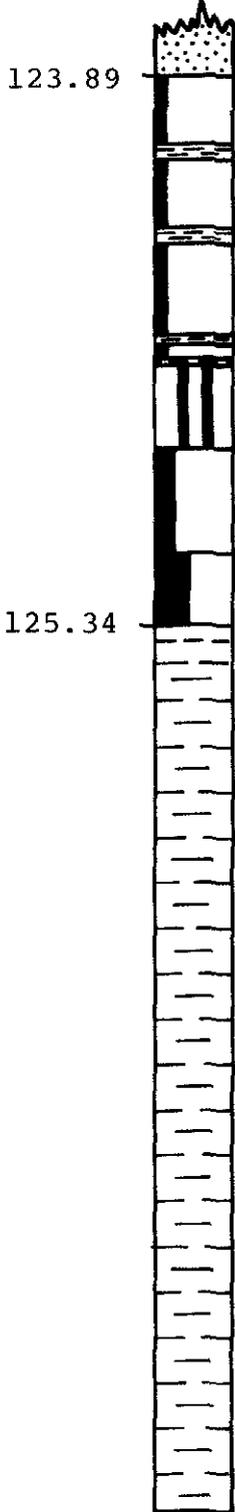
	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Base of Stratum</u> (m)	<u>Remarks</u>
CLAYSTONE, mid buff grey	0.01	124.65 )	)
<u>COAL</u> , stony	0.23	124.88 )	)
, dull with minor bright bands	0.28	125.16 )	)
, dull with numerous bright bands	0.18	125.34 )	)
CLAYSTONE, mid grey, dark grey at top, laminite towards base, contact with overlying coal abrupt planar, fractured in part, parallel to L.C.A., regular planar, minor plant fossil fragments along bedding partings	2.91	128.25	
<u>COAL</u> , dull	0.51	128.76 )	)
CLAYSTONE, dark grey, carbonaceous	0.08	128.84 )	) Cornwall
<u>COAL</u> , dull	0.13	128.97 )	) Lower Coal
CLAYSTONE, mid grey, flaggy	0.28	129.25 )	) Member
<u>COAL</u> , dull	0.20	129.45 )	) Thickness:
CLAYSTONE, mid to light grey, numerous plant fossil fragmented along bedding partings, fracture slickensided lined with calcite, inclined approximately 30° to L.C.A., regular planar	1.04	130.49	) 1.2 m
SANDSTONE, light grey as sandstone at beginning of log, crossbedding dips up to 12°	13.11	143.6	)

028

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE AND SILTSTONE INTERBEDDED, ratio 60:40. Claystone, dark grey; siltstone, mid grey; minor sporadic phases of fine to medium sandstone, slabby, flaggy over basal 4' of stratum, numerous parallel wavy laminations and micro trough cross laminations, numerous plant fossil fragments along bedding partings	5.70	149.30	Fenton Coal Member
<u>COAL</u> , dull	1.40	150.70 )	Thickness: 1.62 m
, dull with numerous bright bands	0.22	150.92 )	
CLAYSTONE, mid grey, well bedded, thinly to very thinly bedded, flaggy, 4 fractures inclined 40° to L.C.A., regular planar	5.80	156.72	

FOR DETAILS OF STRATA BELOW 156.72m  
TO T.D. REFER TO LOG OF D.O.M. 12

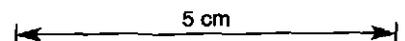
Cornwall Upper

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
 <p>123.89</p> <p>125.34</p>		1.45					

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 for

SEAM SECTION

BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD  
 DRAWN BY C.F.R.P. DATE JUNE 1979 SCALE 1:20



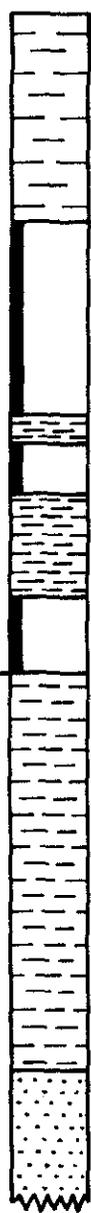
030

MT NICHOLAS D.O.M. 12

109031

ASH %  
CUMULATIVE  
FROM FLOOR

Cornwall Lower

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
 <p>128.25</p> <p>129.45</p>		1.20					

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for

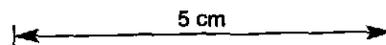
SEAM SECTION

BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD  
DRAWN BY C.F.R.P. DATE JUNE 1979

SCALE 1:20

PAGE 2 of 2

5 cm



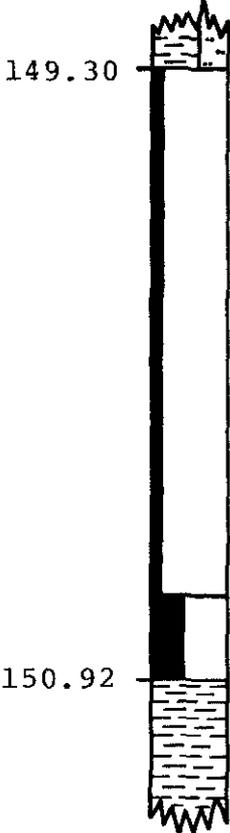
031

MT NICHOLAS D.O.M. 12

109032

ASH %  
CUMULATIVE  
FROM FLOOR

Fenton

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
		1.62					

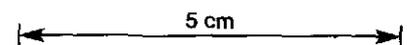
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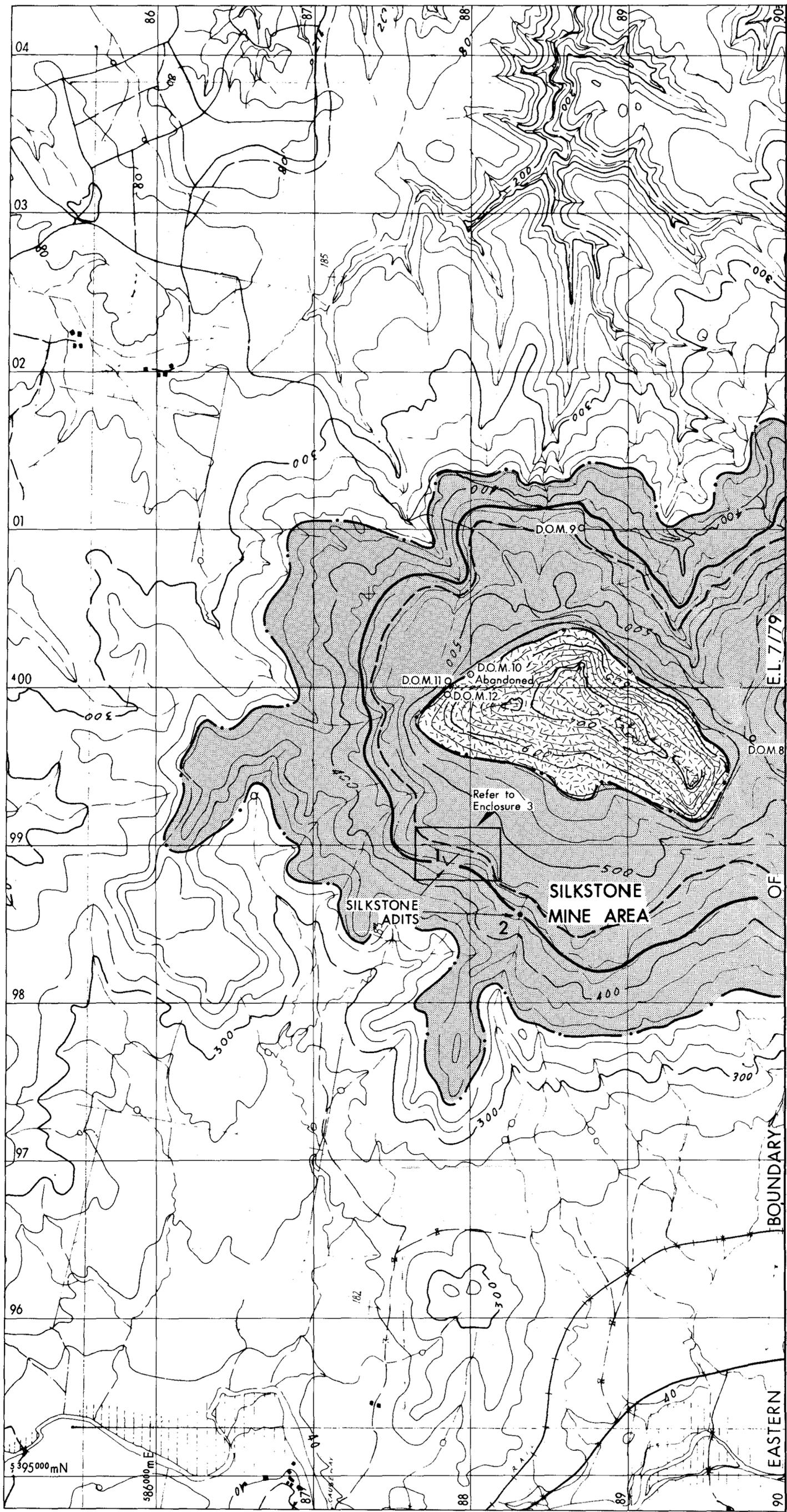
SEAM SECTION

for  
BESSER VIBRAPAC MASONRY (TASMANIA) PTY LTD  
DRAWN BY C.F.R.P. DATE JUNE 1979 SCALE

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PAGE 1 of 1

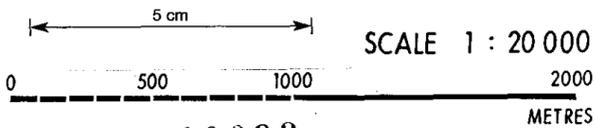




**REFERENCE**

- D.O.M. 11 Mines Dept. Drill Hole
- Outcrop of Cornwall Coal Member
- ~ Outcrop of Fenton
- Geological Boundary

JURASSIC		Dolerite
TRIASSIC		Sandstone, shale, claystone and coal
PERMIAN		Sandstone, limestone, shale



109033

Enclosure 1

BESSER VIBRAPAC MASONRY  
(TASMANIA) PTY LIMITED

MT. DURHAM AREA

**GEOLOGY MAP 032**

85-2463

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Date: SEPT, 1979

Map No.

Ref. No.

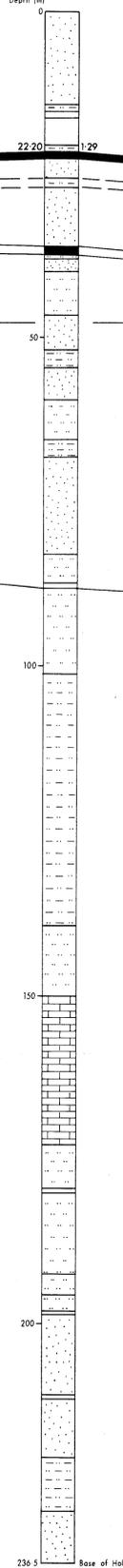
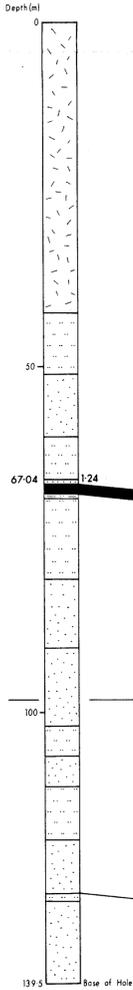
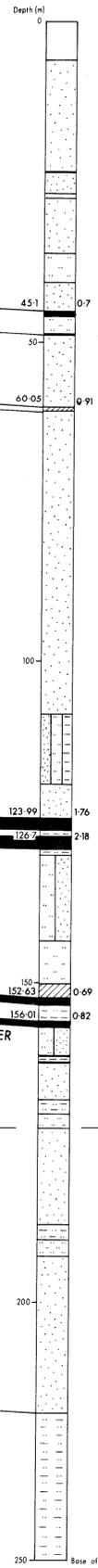
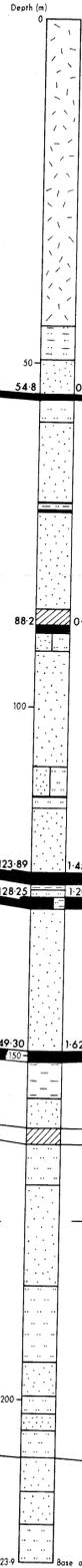
D.O.M. 12

D.O.M. 8

D.O.M. 11

D.O.M. 9

R.L. 400m



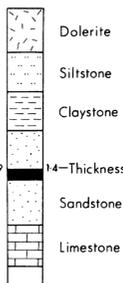
TELOPEA COAL MEMBER

CORNWALL UPPER COAL MEMBER  
CORNWALL LOWER COAL MEMBER

FENTON COAL MEMBER

MILLBROOK COAL MEMBER

TRIASSIC  
PERMIAN



Depth to top Coal Member (m) 123.89

14—Thickness of Coal Member (m)

109034

Vertical Scale 1:500

5 cm

Enclosure 2

BESSER VIBRAPAC MASONRY  
(TASMANIA) PTY LIMITED

MT. DURHAM AREA

033

STRATIGRAPHIC CORRELATION  
DIAGRAM

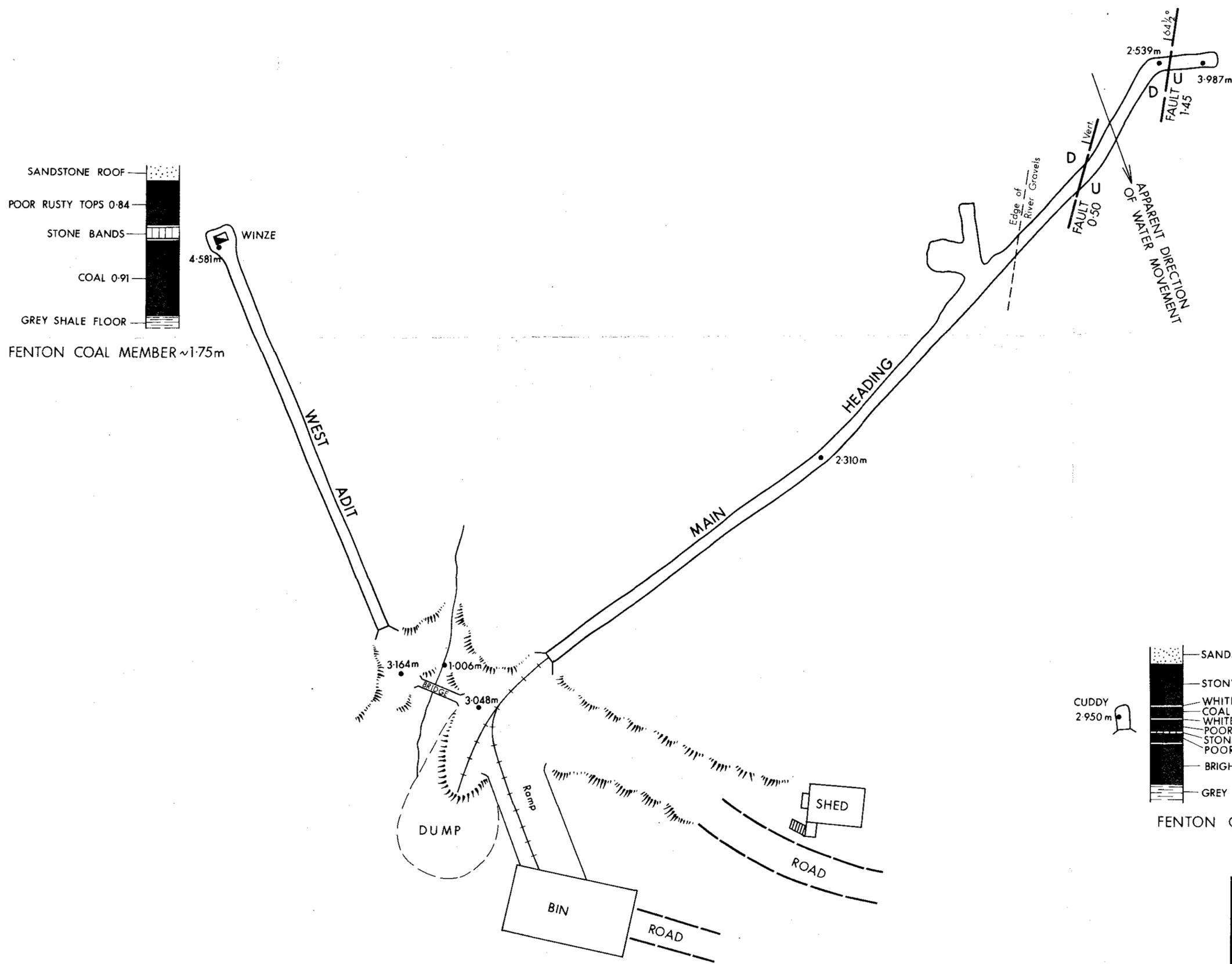
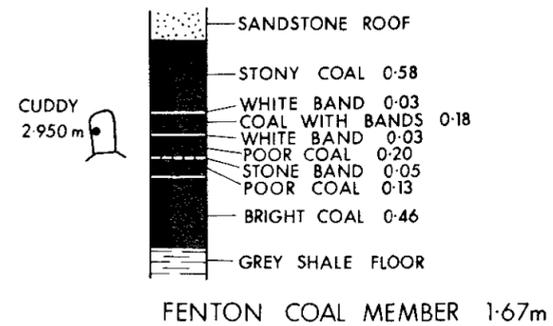
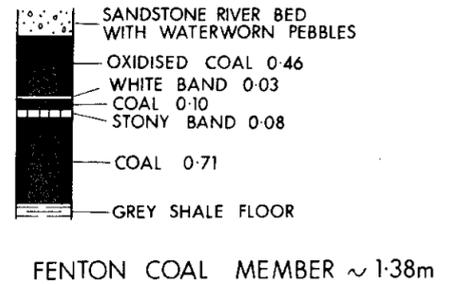
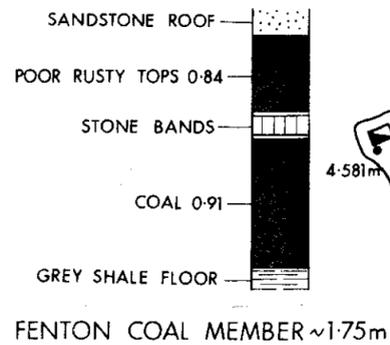
85-2463

Prepared by: M<sup>C</sup>ELROY BRYAN & ASSOCIATES Pty Ltd

Date: Sept. 1979

Map No.

Ref. No.



109035

After:  
 John Elliston 4-10-1951

Enclosure 3

BESSER VIBRAPAC MASONRY (TASMANIA) PTY LIMITED		
MT. DURHAM AREA		
SILKSTONE MINE PLAN		034
85-2463		
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Date: SEPT, 1979	Map No.	Ref. No.