

Diamond drilling at Etna Stone Pty Ltd quarry, Pontville

by V. M. Threader

A drilling programme for the purpose of proving additional reserves of high quality sandstone was prepared for Etna Stone Pty Ltd in March 1972.

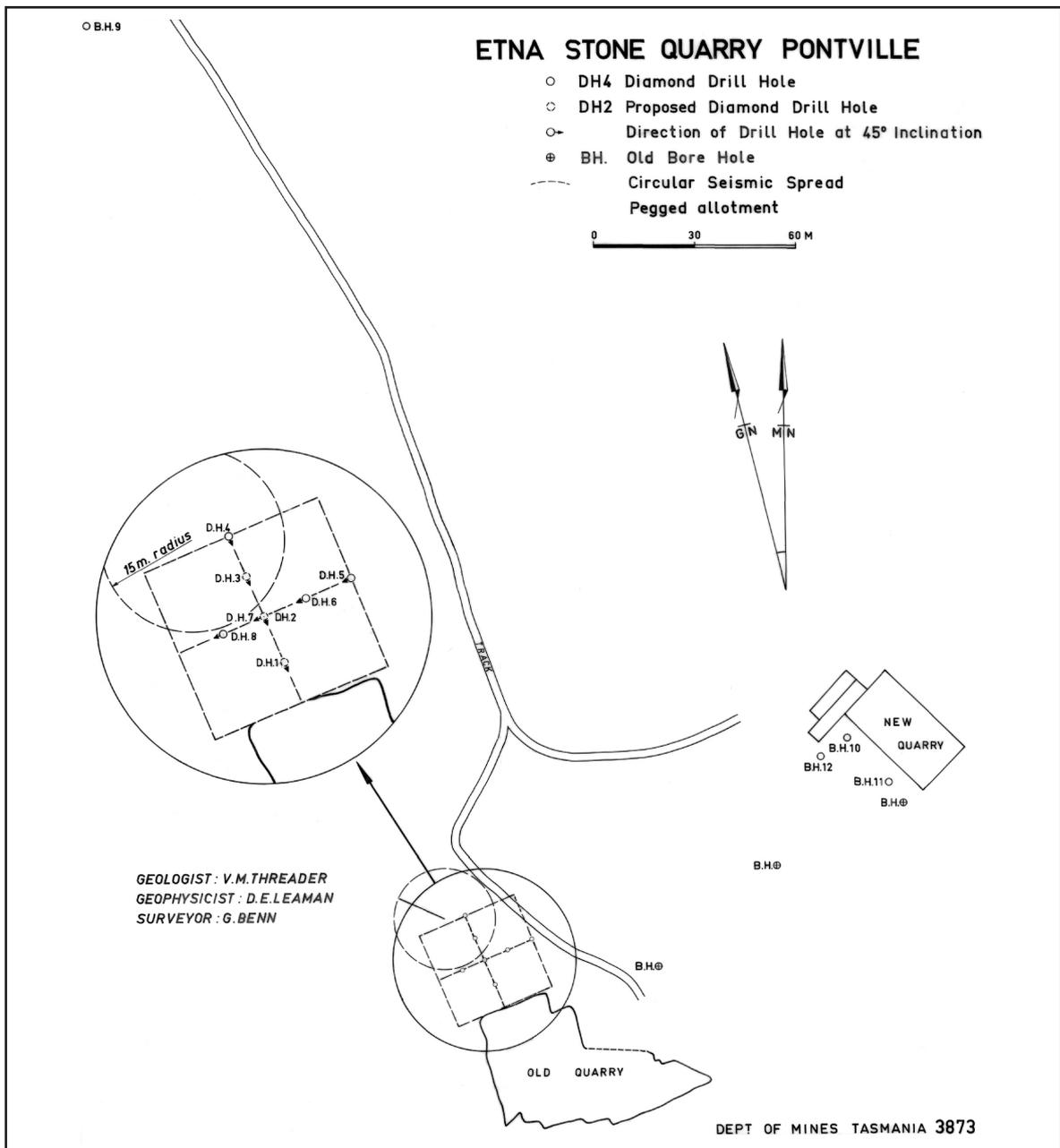
Four holes (4, 5, 6 and 8) of the proposed grid were drilled with such poor results that the remainder of the programme was abandoned. Four more holes were drilled at locations chosen by the owner.

None of this drilling added significantly to the reserves of quality stone as all of the core was irregularly iron stained, highly jointed and in places very friable.

The location of holes is shown on Figure 1, with the drilling details attached to this report.

It is suggested that sufficient drilling has been done on this property to preclude the possibility of locating any appreciable quantity of high quality sandstone. As suggested earlier, the Rhyndaston area adjacent to the south portal of the railway tunnel is a likely area for the requirements as the sandstone outcrop appears to be coarsely bedded.

[4 May 1972]



Hole	Depth (m)		Recovery (%)	Description	Joint depths (m)	Bedding planes (m)
	From	To				
4	0.00	1.63	66	White friable sandstone with ironstone banding 0.15–0.35, 0.96–1.08	0.68, 0.84	0.15, 0.45, 1.50
	1.63	2.14	100	White friable sandstone with ironstone banding 2.17–2.20	1.69, 1.83, 1.95	1.87, 1.93, 2.01, 2.14
	2.14	3.82	99	(a) 2.14–2.58 white friable sandstone (b) 2.58–3.52 silty white sandstone, very friable, with ironstone staining from 2.78–2.80. Crumbly in parts.	2.14, 2.58 2.61, 2.67, 2.69, 2.81, 3.14, 3.37	2.60, 2.66, 2.73, 2.81, 2.88, 2.92, 2.97, 3.06, 3.14, 3.45, 3.59
	3.82	5.24	75	White friable sandstone	4.23, 4.71, 4.88, 4.92, 5.18, 5.20	3.92, 4.63, 4.82, 4.94, 5.22
	5.24	6.95	86	(a) 5.24–6.73 white friable sandstone (b) 6.73–6.95 white silty sandstone extremely broken and crumbled	5.35, 5.44, 5.52, 5.55, 5.67, 6.17, 6.42, 6.71	5.62, 5.66, 5.85, 6.19, 6.68
	6.95	7.17	100	White silty sandstone, friable		7.04, 7.07, 7.14
5	0.00	1.62	38	White, very weathered and broken sandstone with ironstone staining 0–0.81	0.45, 0.50	
	1.62	3.25	93	White friable sandstone with ironstone staining 2.16–2.57, 3.07–3.25	1.65, 1.77, 2.24, 2.54, 2.58, 2.62, 2.65, 2.77, 2.85, 2.89, 2.99, 3.20	1.88, 2.08, 2.19, 2.32, 3.05
6	0.00	1.63	61	White friable sandstone	0.30, 1.25, 1.41, 1.63	0.40, 0.85
	1.63	3.31	86	White friable sandstone, very broken between 1.75–1.80	2.73, 3.31	1.75, 1.80, 2.76
	3.31	4.89	93	(a) 3.31–4.41 Friable sandstone grading from white to pale yellow (b) 4.41–4.89 Pale brown silty sandstone, very friable and completely crumbled	3.51, 3.96	3.77, 4.41
	4.89	6.29	41	White friable sandstone	5.10, 5.21, 5.31, 5.73, 6.29	4.89, 5.52, 6.01
	6.29	7.77	49	White friable sandstone with ironstone staining from 6.52–7.77	6.59, 6.80, 6.87, 6.91, 6.99, 7.07, 7.12, 7.19, 7.77	7.67
	7.77	9.17	64	White friable sandstone with ironstone staining throughout. Base of core very badly broken	7.94, 8.13, 8.31, 9.09, 9.12, 9.15, 9.17	8.35, 8.47, 8.50, 8.57, 8.62, 9.03, 9.17
8	0.00	1.32	40	White friable sandstone	1.32	
	1.32	5.89	100	White friable sandstone	1.40, 1.46, 1.53, 1.88, 1.98	3.35, 4.27, 5.90
	5.89	8.43	100	White sandstone with ironstone banding	7.85, 9.71	5.99, 6.01, 6.23, 6.26, 6.61, 7.01, 7.47, 8.23
	8.43	9.45	100	White clayey sandstone with some ironstone banding, fairly thin bedded	9.45	9.45
	9.45	9.70	100	White sandstone – very broken		
	9.70	10.98	92	White sandstone	9.75, 10.24, 10.28, 10.36, 10.53	9.45, 9.81, 10.26, 10.58, 10.98
9	0.00	1.78	74	White friable sandstone, very crushed 0.60–0.71 and 1.24–1.41	0.32, 0.37, 1.07, 1.35	0.0, 1.00, 1.21, 1.45
	1.78	3.10	85	White friable sandstone with ironstone staining 2.44–2.48	2.32, 2.58, 2.74	2.20, 2.50, 2.60, 2.66, 2.72, 3.10
	3.10	4.60	88	White friable sandstone, very well jointed and bedded	3.16, 3.25, 3.37, 3.44, 3.58, 3.91, 3.97, 4.13, 4.24, 4.32, 4.40, 4.52	3.58, 4.01, 4.05, 4.15, 4.24, 4.36, 4.39, 4.52, 4.54, 4.58
	4.60	6.15	94	White friable sandstone with ironstone staining from 5.64–6.15	5.00, 5.07, 5.12, 5.57, 5.64, 5.74, 5.98, 6.07	4.74, 4.83, 4.85, 5.10, 5.15, 5.42, 5.65, 5.83, 5.94, 6.08
	6.15	7.73	80	(a) 6.15–7.37 White friable sandstone with heavy ironstone staining (b) 7.37–7.73 White silty very friable sandstone, broken down into small angular fragments	6.46, 6.60, 6.91, 6.94, 7.01, 7.05, 7.24	6.32, 6.48, 6.66, 6.72, 6.82, 6.83, 7.37, 7.73
	7.73	9.03	100	White friable sandstone, silty towards the base and with ironstone staining throughout	7.76, 7.81, 7.85, 7.99, 8.34, 8.39, 8.47, 8.54, 8.57, 8.60, 8.71, 8.74, 8.80	8.00, 8.21, 8.67, 8.86

Hole	Depth (m)		Recovery (%)	Description	Joint depths (m)	Bedding planes (m)
	From	To				
10	0.00	1.81	100	White friable sandstone stained by ironstone all through	0.15, 0.23, 0.45, 0.50, 0.77, 1.05, 1.30, 1.54, 1.81	0.63, 1.81
	1.81	3.28	97	White friable sandstone stained by ironstone in irregular spots	2.41, 2.59, 2.64, 2.76, 3.13, 3.28	
	3.28	4.93	94	Pale yellow friable sandstone. No bedding but frequent jointing	3.43, 3.51, 3.58, 4.00, 4.11, 4.25, 4.38, 4.48, 4.93	
	4.93	5.87	100	As above	5.17, 5.24, 5.32, 5.44, 5.53, 5.61, 5.85, 5.87	
	5.87	8.37	56	White friable sandstone with bands of ironstone staining	6.90, 7.42, 7.75, 8.37	6.17, 7.59
	8.37	9.92	100	White friable sandstone with scattered mud pellets and heavy ironstone staining	8.73, 8.88, 9.11, 9.37	9.01, 9.04, 9.09, 9.25, 9.60, 9.64, 9.71, 9.75, 9.77, 9.92
11	0.00	1.87	95	White friable sandstone with ironstone staining throughout	0.09, 0.11, 0.19, 0.32, 0.34, 0.39, 0.49, 0.62, 0.75, 0.89, 1.12, 1.17, 1.35, 1.47, 1.55, 1.75, 1.79, 1.87	1.02, 1.44
	1.87	3.50	99	White friable sandstone with very slight ironstone staining	1.92, 1.99, 2.22, 2.36, 2.42, 3.18, 3.34, 3.50	3.21
	3.50	6.57	94	As above	3.73, 4.05, 4.47, 4.60, 4.93, 5.33, 5.74, 5.89, 6.44, 6.57	4.04
12	0	7.93	59	White friable sandstone with ironstone staining between 0.64–1.06, 1.59–2.02 and 5.78–6.13	Very frequent, averaging 100 mm. One block 550 mm, one block 480 mm	0.59, 1.57, 1.63, 2.01, 2.07, 2.17, 2.88, 3.48

Logging by A Galbraith