No. XIV.—JOURNAL OF A BORE PUT DOWN FOR WATER AT THORNLIEBANK, RENFREWSHIRE. With Notes on the Strata, by
J. B. MURDOCH, *Hon. Secretary.*

[Read 12th December, 1889.]

[ABSTRACT.]

MR. MURDOCH said that the bore on which he now wished to make some remarks had recently been put down for water at the works of the Thornliebank Printing Company, Limited, Thornliebank, Renfrewshire, to a depth of 611 feet 6 inches. Through the usual alternation of blaes and fakes, thin beds of sandstone, limestone, and fireclay, the workmen struck first, at a depth of about 200 feet, a post of limestone nearly 7 feet thick, which he believed to be the Arden cement limestone, and, immediately below, a 17-feet bed of white sandstone. Then at 238 feet a heavy mass of sandstone in several posts was reached, its total thickness being above 50 feet, and probably representing the Giffnock sandstones. At a depth of 476 feet another bed of limestone, 7 feet 6 inches thick, was passed, probably the equivalent of the Cowglen, or Index limestone. No further strata of importance were afterwards met with, the coal seams passed through never reaching a thickness of more than a few inches. The object of the bore was not attained, no supply of water of any consequence having been met with, and the work was stopped at the depth above noted. Mr. Murdoch stated that as this bore was, so far as he could ascertain, the first which had been put down in this neighbourhood, he thought it was worthy of mention to the Society and of record in the *Transactions* for future reference.

At the close of the paper Mr. John Young, F.G.S., suggested that the failure to obtain a supply of water probably arose from the fact that the bore was put down near a fault which prevented the flow of water along the line of the strata. It might be found on further trial that a bore put down on the other side of the fault, if one really existed, would have a very different result.

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	Ft. In.		Ft. In.
Surface, Clay, and Stones, .	5 11	Brought forward, .	37 4
Dark Blaes,	8 4	Limestone,	1 1
Dark Fakes,	4 1	Dark Blaes,	33 5
Dark Blaes,	19 0	Limestone,	1 4
Carry forward, . . .	37 4	Carry forward, . . .	73 2

	Ft. In.		Ft. In.
Brought forward, .	73 2	Brought forward, .	289 8
Grey Fakes,	3 5	White Sandstone, extra hard, .	3 9
Limestone,	1 0	Do., softer,	5 0
Fakes and Hard Ribs,	4 2	Fakes,	1 8
Limestone (Sandy),	2 4	White Sandstone,	4 0
Dark Fakes,	0 6	Do., extra hard,	1 6
White Sandstone,	7 0	Do., hard,	4 0
Fireclay (Fakey),	1 0	Do., softer,	10 1
White Sandstone,	3 2	Fakes,	1 3
Parting,	0 3	Sandstone,	37 5
Grey Sandstone,	4 3	Fakes,	0 9
Parting,	0 6	Sandstone, hard,	1 0
Grey Sandstone,	3 3	Do., extra hard,	2 5
Fakey Fireclay,	5 2	Do., softer,	2 2
Dark Sandstone,	6 3	Fakes and Ribs,	3 4
Fakey Sandstone,	4 0	Fakey Blaes,	1 6
Sandstone, hard,	1 6	Sandstone,	0 6
Sandstone,	2 6	Coal,	0 6
Parting,	0 5	Sandstone, hard,	1 5
Sandstone,	2 4	Sandstone Plies,	1 3
Do., hard,	4 8	Sandstone, extra hard,	1 9
Do., softer,	4 7	Fakes,	0 2
Grey Fakes,	4 9	Fakes and Blaes,	5 6
Dark Fakes and Ribs,	9 9	Sandstone, hard,	7 5
Dark Fakes,	9 3	Do., extra hard,	2 10
Dark Fakes and Ribs,	3 3	Do., hard,	2 11
Fireclay, coal,	1 2	Do., extra hard,	0 3
Dark Fakes,	1 5	Do., hard,	0 7
Kingle Stone or extra hard		Do., extra hard,	0 3
Sandstone,	0 5	Do., hard,	0 6
Fakes and Sandstone Ribs,	2 8	Do., extra hard,	0 4
Dark Blaes,	0 10	Fakes,	4 4
Fakes,	0 6	Sandstone, extra hard,	1 2
Sandstone,	0 9	Fakes,	0 4
Do., extra hard,	0 9	Sandstone, extra hard,	2 6
Fakes,	1 4	Do., hard,	1 8
Sandstone, extra hard,	0 10	Do., extra hard,	6 10
Fakes and Ribs,	7 8	Do., softer,	0 8
Fakes,	3 0	Fakes,	1 9
Fakes and Ribs,	7 0	Sandstone, hard,	1 2
Sandstone,	1 0	Do., extra hard,	2 2
Fakes,	0 9	Do., hard,	2 7
Sandstone,	0 10	Do., extra hard,	1 2
Dark Fakes,	7 0	Do., hard,	1 0
Limestone,	2 7	Fakes,	0 4
Limey Fakes,	1 2	Sandstone,	0 6
Limestone,	3 1	Fakes,	1 0
Fireclay,	0 11	Sandstone,	1 4
Light Fakes,	5 3	Do., extra hard,	14 4
White Sandstone,	17 1	Do., softer,	4 6
Coaly Blaes,	0 5	Do., extra hard,	0 11
Fireclay,	4 3	Do., hard,	2 4
Fakes,	2 6	Dark Fakes and Sandstone	
Sandstone,	0 8	Ribs,	9 9
Fireclay,	0 10	Dark Fakes,	19 11
Do., Coaly,	1 4	Limestone (Arden),	7 4
White Sandstone,	49 3	Blaes,	1 0
Carry forward,	289 8	Carry forward,	486 3

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	Ft. In.		Ft. In.
Brought forward,	486 3	Brought forward,	539 7
Sandstone,	1 5	Dark Fakes,	6 9
Do., extra hard,	1 7	Sandstone, hard,	1 10
Do., softer,	0 10	Do., extra hard,	1 8
Do., extra hard,	1 11	Do., hard,	2 7
Fakes,	1 4	Coal,	0 5
Sandstone, hard,	0 8	Fakes,	0 3
Fakes,	0 10	Sandstone, hard,	4 10
Sandstone, hard,	0 5	Do., extra hard,	4 7
Fakes,	4 7	Fakes and Ribs,	2 11
Fakey Sandstone,	3 11	Fakes, dark,	7 0
Sandstone, hard,	0 6	Sandstone, extra hard,	1 10
Do., softer,	1 6	Dark Fakes,	1 9
Do., extra hard,	1 3	Sandstone, hard,	1 3
Fakes,	2 5	Dark Fakes,	2 0
Light Fireclay,	0 5	Sandstone, hard,	3 3
Dark Fakey Blaes,	1 8	Do., extra hard,	2 9
Sandstone, hard,	5 8	Do., hard,	1 7
Fakes,	3 7	Sandstone, extra hard,	3 6
Fakes and Blaes,	2 3	Dark Blaes,	2 8
Hard Limey Rib,	0 8	Sandstone, hard,	1 9
Fakes and Blaes,	0 2	Do., extra hard,	0 6
Sandstone,	0 10	Dark Fakes,	6 9
Parting,	0 4	Fakes and Sandstone Ribs,	3 0
Sandstone,	0 8	Fakes,	0 2
Parting,	0 3	Sandstone,	1 3
Sandstone,	2 2	Fakes,	3 10
Do., hard,	4 1	Sandstone, hard,	0 6
Do., extra hard,	1 1	Fakes,	0 9
Do., hard,	6 4		
Carry forward,	539 7	Total depth of Bore to 31st December, 1887,	611 6

This bore was executed by Messrs. John Henderson & Son, mineral boring prospectors and Artesian well engineers, General Terminus, Paisley Road Toll, Glasgow, between the months of August and December, 1887.