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APPENDIX ILITHOLOGICAL LOG OF THE UPPER SECTION OF THE
DEPARTMENT OF MINES WATER BORE MT.VERNON NO.1

<u>From (m)</u>	<u>To (m)</u>	
0	17.0	Sandstone, lithic
17.0	19.2	Mudstone, grey
19.2	20.3	Mudstone, carbonaceous, transitional basal section
20.3	22.0	Siltstone, grading into feldspathic and micaceous fine grained quartz sandstone, variably fissile with carbonaceous laminae
22.0	23.3	Mudstone, grey
23.3	25.0	Sandstone, quartz, with minor feldspar/kaolin (5%), and mica (2%); fissile with carbonaceous laminae
25.0	29.5	Sandstone, lithic, fine to medium grain size, minor carbonaceous laminae; incipient pyrite spherules (≤ 20 mm) and disseminated pyrite
29.5	57.7	Sandstone, lithic, fine to medium grained, minor carbonaceous and coaly debris, minor clay pellet conglomerates, minor carbonate cement, and very minor reduction centres over pyritic coaly debris
57.7	58.4	Sandstone, lithic, abundant clay pellet conglomerates including carbonaceous mudstone, coaly debris
.10 ✓ 58.4	58.5	Coal, dull <1% bright bands
58.5	60.3	Sandstone, lithic
.30 60.3	60.6	Coal, dull, <1% bright bands
60.6	62.0	Core loss - inferred brown/carbonaceous mudstone/siltstone
62.0	63.8	Mudstone/siltstone interbeds, brown, fissile
63.8	67.0	Mudstone, grey, increasing silt toward base
67.0	71.3	Sandstone, lithic, fine grained, fissility from 69.2m or due to biotite laminae; planar cross beds visible.
71.3	121.7	Sandstone, lithic, fine to medium grained, minor clay pellet conglomerates, very minor coaly and carbonaceous mudstone debris; unusual incipient spherules of pyrite at 110m - similar to 25.0 - 29.5m, with diameters also ≤ 20 mm
121.7	124.2	Mudstone, grey/pale green/brown laminated and increasing silt toward base; traces of coal as 2-5mm plies
124.2	127.0	Sandstone, lithic, fine grained, brown and "dirty" in appearance; poorly defined carbonaceous laminae
127.0	134.4	Sandstone, lithic, grey and "clean", very minor carbonaceous debris