

- c-up sequence of thinly interbedded grey to blue grey bioturbated mudstone and thin grey bioclastic limestone and thin grey siltstone to very fine-grained sandstone beds - limestone up to 8 cm, with abundant crinoid/brachiopod/bryozoan fossil fragments and burrows - sandstone up to 5 cm, with sharp bases, burrowed tops, horizontal lamination and minor ripple cross lamination - 1st:mud=1:1 at top - siltstone increases upward.

- blue grey mudstone, uniform, partially bioturbated, vaguely c-up with upward increase in silt and thin siltstone to very fine-grained sandstone beds.

BLUE  
MOUNTAIN  
Fm

- blue grey mudstone, uniform, partially bioturbated, no fossils, vaguely c-up with upward increase of silt and thin 0-2 cm siltstone to very fine-grained sandstone beds with sharp bases and horizontal lamination, ss:silts=1:20 at top.

- dark grey mudstone, thinly laminated, very uniform, homogenous, no fossils, noncalcareous, minor bioturbation.

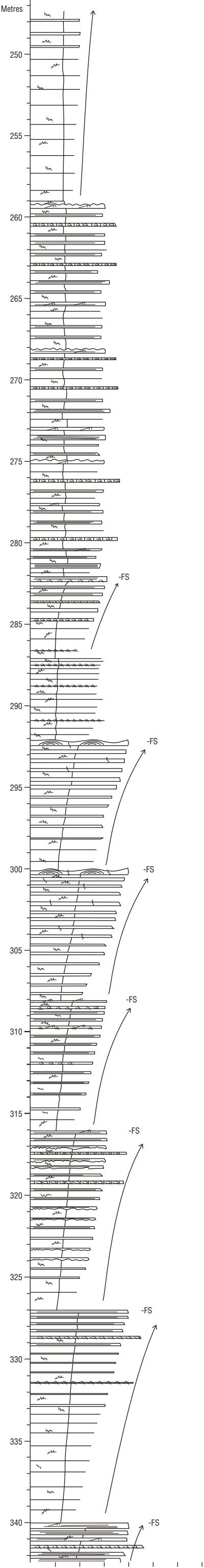
- thinly interbedded black calcareous mudstone and grey bioclastic limestone, f-up, very petroliferous, very sharp irregular top.

COLLINGWOOD  
Fm

- dark grey, thinly interbedded calcareous mudstone and grey bioclastic limestone in beds up to 20 cm, overall f-up very petroliferous, abundant bioclastic stringers of trilobite and brachiopod shell fragments, mudstone is black to brown and very dense and uniform (oil shale) - 1st:mud=2:1 at base, 1:2 at top.

LINDSAY  
Fm

- grey very fine to fine crystalline bioclastic limestone, thin bedded, abundant muddy partings, f-up, thicker mudstone beds toward top, bioclastic stringers.



- thinly interbedded greenish grey bioturbated silty mudstone and thin very fine-grained sandstone and minor bioclastic limestone - sandstone up to 15 cm, sharp erosional bases, sharp to gradational tops, horizontal and low angle lamination, rare ripple cross lamination and preserved rippled tops, horizontal burrows, ss:mud=1:5.

- c-up sequence of thinly interbedded of greenish grey bioturbated silty mudstone and very fine- to fine-grained sandstone and bioclastic limestone - sandstone up to 20 cm, with sharp bases and fossil fragment lags - ss:mud=1:10 at base, 1:3 at top.

- thinly interbedded greenish grey bioturbated mudstone and very fine-grained sandstone and minor bioclastic limestone - sandstone up to 5 cm, ss:mud=1:10.

- c-up sequence of thinly interbedded greenish grey bioturbated silty mudstone and thin very fine- to fine-grained sandstone - sandstone up to 15 cm, with sharp bases, minor fossil fragment lags, horizontal and low angle lamination, ?HCS?, few vertical burrows.

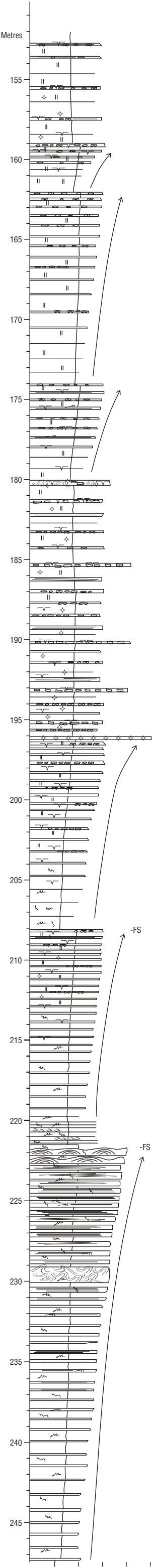
- c-up sequence of thinly interbedded greenish grey bioturbated silty mudstone and thin very fine- to fine-grained sandstone - sandstone up to 20 cm with sharp bases, abundant vertical burrows, horizontal and low angle lamination, ?HCS? - ss:mud=1:2 at top.

- c-up sequence of thinly interbedded greenish grey bioturbated silty mudstone and thin very fine-grained sandstone - sandstone up to 10 cm with sharp bases, horizontal lamination and ripple cross lamination, many have lags of fossil fragments - ss:mud=1:3 at top.

- c-up sequence of thinly interbedded greenish grey bioturbated silty mudstone, and thin very fine-grained sandstone and thin bioclastic limestone - sandstone up to 10 cm with sharp erosional bases and rip ups, horizontal lamination, ripple cross lamination and minor burrows - limestones have transported bryozoan/brachiopod fragments up to 2 cm across, ss:mud=1:10 at base, 1:5 at top.

- c-up sequence of thinly interbedded grey bioturbated silty mudstone and thin very fine- to fine-grained sandstone, with minor bioclastic limestone - sandstone up to 5 cm, with sharp bases, horizontal and low angle lamination - ss:mud=1:3 at top.

- c-up sequence of thinly interbedded blue grey bioturbated silty mudstone and very fine-grained sandstone and bioclastic limestone - sandstone up to 20 cm with sharp bases, horizontal and low angle lamination, minor ripples - limestones have coarse fossil fragments.



- c-up sequence of red muddy siltstone and thin greenish grey very fine-grained sandstone - sandstone up to 10 cm, with sharp bases, green shale rip-ups, abundant desiccation cracks - siltstone massive, blocky, uniform, pedogenic.

- vaguely c-up sequence of interbedded red siltstone and greenish grey very fine-grained sandstone - sandstone up to 5 cm, sharp bases with lags of rip-ups and rounded mud balls horizontal lamination - siltstones are massive, blocky with abundant slickensides on pedogenic fractures - ss:silts=1:10 at base, 1:5 at top.

- c-up sequence of thinly interbedded red muddy siltstone and greenish grey very fine-grained sandstone - sandstones up to 5 cm, have sharp bases with lags of rip-ups, horizontal lamination with minor ripple cross lamination, diffuse tops with 3-D networks of desiccation cracks - siltstones are massive, slightly blocky with signs of incipient pedogenesis - ss:silts=1:10 at base, 1:5 at top.

- thinly interbedded red massive muddy siltstone and greenish grey very fine silty sandstone - sandstone beds up to 20 cm, with sharp bases with rip ups, horizontal lamination, uppermost bed has contorted lamination and disrupted bedding - abundant gypsum veins and nodules, rounded red mud balls, flat pebble conglomerate beds, desiccation crack networks.

- vaguely c-up sequence of thinly interbedded red muddy siltstone and greenish grey calcareous very fine-grained sandstone - sandstones up to 5 cm, ss:silts=1:5 at base, 1:1 at top - abundant pedogenic and desiccation features, rip-up/mud ball lags, flat pebble rip-up conglomerates - thick coarsely crystalline gypsum bed at top - minor vertical burrows near base.

- vaguely c-up sequence of thinly interbedded red muddy siltstone and greenish grey calcareous very fine-grained sandstone - sandstones up to 5 cm, sharp bases, gradational burrowed or mud cracked tops, horizontal lamination, vertical burrows in lower part, in upper part are pedogenic disruptions and diffuse boundaries and flat pebble conglomerates and red mud ball rip up horizons - ss:silts=1:3 at base, 1:1 at top - gypsum veins/fracture fills/nodules.

- thinly interbedded greenish grey bioturbated muddy siltstone and thin grey very fine-grained sandstone - sandstone up to 5 cm, sharp bases, horizontal burrows throughout, few stringers of fossil fragments - ss:mud=1:5 - upper 50 cm reddened.

- c-up sequence of thinly interbedded greenish grey bioturbated silty mudstone to muddy siltstone and the very fine- to fine-grained sandstone and some bioclastic limestone - burrowing and bioclastic limestone increase upward - distinctive zone of severely contorted lamination at 229 m - sandstones up to 30 cm (av. 10 cm), sharp erosional bases, sharp to gradational burrowed tops, horizontal and low angle lamination, minor ripple cross lamination, vague HCS, vertical and horizontal burrows - near top are many beds with thinly interlaminated fines sandstone and bioclastic limestone - ss:mud=1:10 at base, 5:1 at top.

QUEENSTON  
Fm

GEORGIAN  
BAY  
Fm

UPPER ORDOVICIAN/LOWER SILURIAN - SOUTHERN ONTARIO  
COLLINGWOOD/BLUE MOUNTAIN/GEORGIAN BAY/QUEENSTON/WHIRLPOOL/MANITOULIN/CABOT HEAD FMS  
Corbetton Deep Hole #1 (1982)  
Lot 251, conc II, Melancho Twp, Dufferin Co.  
41 A/1 Dundalk 517877  
Lat. 44°08'40"N Long. 80°21'00"W

