

LEGEND	
Conglomerate.....	
Limestone / Dolomitic limestone.....	
Carbonaceous shale.....	
Coal.....	
Siderite concretion bed or calcrete concretions.....	
Bentonite bed.....	
Oolitic bed.....	
Stromatolite bed or individual stromatolites.....	
Lens-shaped bed.....	
Discontinuous scour / gutter fills.....	
Fault.....	
Fractures with slickensides (either structural or pedogenic).....	
Fining-upward Trend.....	
Coarsening-upward Trend.....	
Paleocurrent Indicators.....	
Copper Sulfide Mineralization.....	
Erosive base with rip-ups and granules.....	
Scoured Base.....	
Ball and Pillow.....	
Rip-up Interclasts.....	
Breccia / Flat Pebble Conglomerate.....	
Trough Cross bedding.....	
Ripple Cross Lamination.....	
Climbing Ripples.....	
Low Angle Lamination.....	
Planar Tabular Crossbedding.....	
Inclined Bedding Surfaces (IBS) or Lateral Accretion Surfaces (LA).....	
Inclined Heterolithic Stratification (IHS).....	
Contorted Lamination.....	
Hummocky Cross Stratification (HCS).....	
Water Escape Structure.....	
Roots.....	
Bioturbation / Burrowing.....	
Vertical Burrows (eg. Skolithos).....	
Desiccation Cracks.....	
Fossil shells (pelecypod, gastropod, brachiopod).....	
Dinosaur bone fragments.....	
Carbonized wood fragments.....	
Gypsum nodule bed.....	
Evaporite crystal molds.....	

UPPER ORDOVICIAN/LOWER SILURIAN - SOUTHERN ONTARIO

BLUE MOUNTAIN/GEORGIAN BAY FMS

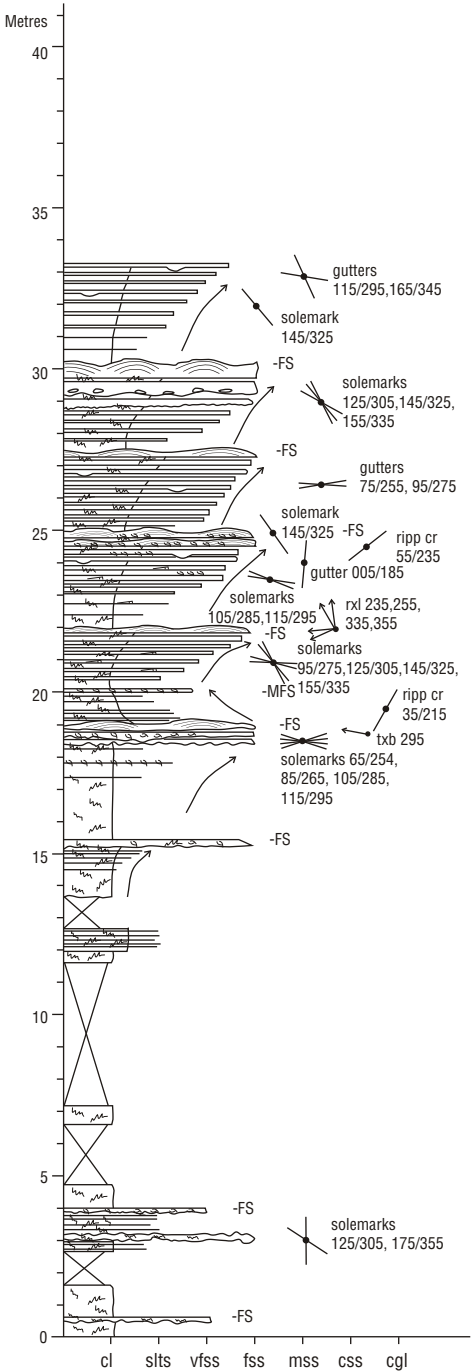
Sucker Creek, 7.5 km NW of Tank Range Offices, Meaford Tank Range

41A/10 Owen Sound 215519-219506

Lat. 44°43'00"N Long. 80°43'40"W

General strike 330°-340°

Dip <1°SW



- slightly c-up sequence of grey bioturbated mudstone with a few thin discontinuous very fine-to fine-calcarenite beds up to 10 cm thick, with sharp bases and gutter casts, ss:slts=1:10 at base, 1:3 at top.

- c-up sequence thinly interbedded greenish grey bioturbated silty mudstone and fine-calcarenite up to 60 cm, well sorted, sharp bases with lags of fossil fragments, burrows solemarks, horizontal and low angle lamination, HCS at top, ss:slts=1:8 at base, 5:1 at top.

- c-up sequence thinly interbedded greenish grey bioturbated silty mudstone and fine- calcarenite up to 10 cm, well sorted, sharp bases with *Cruziana* burrows, horizontal and low-angle lamination, HCS at top, ss:slts=1:2 at base, 2:1 at top.

- c-up sequence thinly interbedded greenish grey bioturbated mudtone and very fine-to fine-calcarenite up to 15 cm, few bioclastic beds, erosional bases with gutters, HCS at top, lags of brachs, trilobites, graptolites near top, ss:slts=1:10 at base, 3:1 at top.

- c-up sequence thinly interbedded greenish grey bioturbated mudstone and very fine- to fine-calcarenite up to 10 cm erosional bases, burrows, HCS and rxl, ss:slts=2:1 at top.

- black phosphatic bioclastic limestone lag, clast supported, muddy matrix, sharp boundaries.
 - f-up sequence thinly interbedded grey bioturbated silty mudstone and very fine-calcarenite beds with erosional bases and rxl, ss:slts=1.5 at base, 1:10 at top.
 - three fine-calcarenite beds with erosional bases separates by discontinuous muddy beds, middle one has txb, rxl, fossils, upper one has HCS and convex top.

- grey bioturbated mudstone, few thin calcisiltite beds and bioclastic beds near top.

- grey bioclastic fine-calcarenite, matrix supported, thin bedded, sharp base and top, large burrow casts on base, horizontal and low angel lamination.
 - c-up sequence of blue grey mudstone to grey silty mudstone to grey silty mudstone with thin gradationally bounded siltstone beds, all well burrowed.

- grey bioturbated slightly silty mudstone with thin siltstone beds with gradational boundaries, slts:mud=1:3.
 - blue grey bioturbated mudstone.

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 - grey bioturbated slightly silty mudstone with thin siltstone beds, rxl, one clast supported bioclastic very fine-calcarenite at top with trilobite/bryozoan frags.
 - grey fine-calcarenite, erosional base, well sorted, Arthropycus burrows and solemarks, interference ripples.
 - grey bioturbated mudstone, few si beds with gradational boundaries.

- blue grey bioturbated mudstone, very uniform.
 - buff very fine-calcarenite, well sorted, erosional base, burrowed, low angle lamination.
 - blue grey bioturbated mudstone, very uniform.