



**EXPLANATION**

**Lithofacies**

**Carbonate**

- Mudstone
- Grainstone
- Mudstone and wackestone
- Floatstone
- Wackestone and packstone
- Floatstone and rudstone
- Packstone and packstone
- Microbial laminites
- Packstone and grainstone
- Autochthonous breccia

**Ichnofacies**

- Psilonichnus*
- Skolothos*
- Cruziana*
- Glossifungites*
- Not determined

**Porosity and permeability**

**Percent pore type**

- 0%
- 1-2%
- >2-10%
- >10-25%
- >25-50%

**Maximum estimated permeability**

- Low
- Medium

**Maximum visual estimated porosity**

- 0%
- >1-10%
- >10-25%
- >25-50%

**Depositional environment (DE)**

**Avon Park Formation**

- Low-energy restricted inner shelf, intertidal to supratidal
- Low-energy restricted inner shelf, low-energy tidal flat
- High-energy inner shelf, shallow subtidal
- Low-energy restricted lagoon inner shelf, subtidal
- High-energy event, marine subtidal
- High-energy inner shelf, shallow subtidal
- Low-energy inner shelf, shallow subtidal

**Grain types, trace fossils, and sedimentary features**

**Grain types**

- Larger benthic foraminifera undifferentiated
- Coleloceras*
- Fabularia*
- Falcatella*
- Cosquinolina*
- Amphistegina*
- Smaller benthic foraminifera undifferentiated
- Miliolid
- Rotaliid
- Neussella*
- Planktic foraminifera
- Intraclast
- Gastropod
- Rhodolith
- Charophytes
- Bivalve
- Ostracod
- Peloid
- Small echinoid
- Echinoid fragments
- Unidentified skeletal grain
- Microcodium*
- Dasycladacean algae

**Trace fossils**

- Rhizocorallium*
- Root traces
- Ophiomorpha*
- Thalassinoides*
- Planolites*
- Thalassinoides*-dominated *Glossifungites* firmground
- Psilonichnus*
- Burrowed mottled
- Asterosoma*

**Sedimentary features**

- Breccia
- Fenestrae
- Laminae
- Desiccation cracks

**General**

- DE Depositional environment
- HFC High frequency cycle
- RSM Relative shoreline movement
- no Not determined
- L Landward
- S Seaward
- Est. perm. Estimated permeability
- est. Estimated

**Abbreviations**

- Grain size
- Texture
- Pore type

**Depositional sequences**

**DS AP3**

**High frequency cycle type**

- I Microbial-laminites-capped, grain-rich, peritidal cycle
- II Rhizolith- and mud-capped, micrite-rich peritidal cycle
- III Aggradational grain-rich subtidal cycle
- IV *Glossifungites*-capped subtidal cycle

**Miscellaneous symbols**

- Depositional-sequence boundary
- High frequency cycle
- No recovery/no data
- Flooding surface
- Firmground
- Karst

**Detailed Graphical Lithologic Log of the Avon Park Formation in the G-2984 Test Corehole**

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