

## Lithologic Logs

### LITHOLOGIC LOG

WELL: Broward County Test Production Well NW-1  
TOTAL DEPTH: 180 Feet  
COUNTY: Broward  
LOCATION: T47S R41E S36  
OWNER: Broward County  
DRILLER: Mark Tiley/Morton Pump and Drilling, Inc.

### HYDROGEOLOGIC UNITS

0 to 160 Surficial Aquifer  
160 to 180 Intermediate Confining Layer

### LITHOLOGIC FORMATION

0 to 3.5 Fill

3.5 to 5 Sandy Limestone - 80%; Light Brown  
Grain Type - Micrite  
Cementation - Moderately Well Cemented  
Sand - 20%; Colorless Quartz  
Grain Size - Fine to Medium  
Roundness - Subrounded to Rounded

5 to 18 Sandy Limestone - 70%; Very Pale Orange to Light Brown  
Grain Type - Micrite  
Cementation - Moderately Well Cemented  
Shell - 20%; Very Pale Orange  
Other Features - Large Fragments and Whole  
Sand - 10%; Colorless; Quartz  
Grain Size - Fine to Medium  
Roundness - Subrounded to Subangular

18 to 28 Shell - 65%; Very Pale Orange to Light Brown  
Other Features - Small Fragments and Whole  
Sandy Limestone - 20%; Very Pale Orange  
Grain Type - Micrite  
Cementation - Moderately Well Cemented  
Sand - 15%; Colorless, Quartz  
Grain Size - Fine  
Roundness - Subrounded

28 to 35 Sand - 85%; Colorless; Quartz  
Grain Size - Coarse to Very Coarse  
Occasionally Medium Grained  
Shell - 15%; Very Pale Orange  
Other Features - Medium Sized Fragments

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### LITHOLOGIC FORMATION (Continued)

- 35 to 73            Sand - 95%; Colorless; Quartz  
                  Grain Size - Medium to Very Coarse  
                  Roundness - Subrounded to Rounded  
                  Sandy Limestone - 5%; Very Pale Orange to Pale Yellowish Orange  
                  Grain Type - Intraclasts  
                  Cementation - Moderately Well Cemented
- 73 to 75            Clay - 50%; Olive Gray; Semi-Pliable  
                  Sandy Limestone - 30%; Very Pale Orange to Pale Yellowish Orange  
                  Grain Type - Intraclasts  
                  Cementation - Moderately Well Cemented  
                  Sand - 20%; Colorless; Quartz  
                  Grain Size - Fine to Medium  
                  Roundness - Subrounded to Rounded
- 75 to 99            Sandy Limestone - 85%; Medium Gray  
                  Grain Type - Micrite  
                  Cementation - Well Cemented; Occasionally Dense; Interbedded  
                  Sand - 15%; Colorless; Quartz  
                  Grain Size - Fine to Medium  
                  Roundness - Subrounded to Rounded  
                  Other Features - 93 to 95 Very Hard
- 99 to 127           Sandy Limestone - 100%; Medium Gray  
                  Grain Type - Intraclasts; Biosparite  
                  Cementation - Very Well Cemented; Occasionally Dense  
                  Other Features - Calcite Replacement  
                  Features Visible  
                  Trace - Calcite Crystals  
                  Trace - Phosphate
- 127 to 145           Sandy Limestone - 50%; Medium Gray  
                  Grain Type - Intraclasts; Occasionally Micrite; Mostly Biosparitic  
                  Cementation - Well Cemented  
                  Shell - 30%; Very Pale Orange to Light Brown  
                  Other Features - Small, Angular Fragments  
                  Sand - 20%; Colorless to Light Gray, Quartz and Calcareous  
                  Grain Size - Fine to Medium  
                  Roundness - Subrounded to Angular
- 145 to 160           Shell - 50%; Very Pale Orange to Grayish Orange  
                  Other Features - Small, Angular Fragments  
                  Sandy Limestone - 30%; Medium Light Gray  
                  Grain Type - Biosparite  
                  Cementation - Moderately Well Cemented  
                  Sand - 20%; Very Pale Orange; Quartz and Calcareous  
                  Grain Size - Fine  
                  Roundness - Subrounded to Subangular

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### LITHOLOGIC FORMATION (Continued)

160 to 180      Shell - 65%; Very Pale Orange  
Other Features - Small, Angular Fragments  
Sandy Limestone - 35%; Light Olive Gray  
Grain Type - Biosparite  
Cementation - Moderately Well Cemented  
Other Features - Sucrosic