

**GEORGIA**  
**STATE DIVISION OF CONSERVATION**  
DEPARTMENT OF MINES, MINING AND GEOLOGY  
GARLAND PEYTON, Director

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**THE GEOLOGICAL SURVEY**  
Bulletin Number 70

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**WELL LOGS OF THE**  
**COASTAL PLAIN OF GEORGIA**

by

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Prepared cooperatively by the U. S. Geological Survey

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**ATLANTA**  
**1961**

## CANDLER COUNTY

Location: Approximately 9 mi. northwest of Metter

Well No.: GGS 581

Owner: No. 1 J. A. Durdon

Elev.: 275

Operator: Turner Well Drilling Company

Drilled: August 1959

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: yellowish-green to purple (mottled), very sandy, limonitic; sand, coarse-grained, subrounded, arkosic	22	22
Sand: coarse-grained, subrounded, arkosic	20	42
Clay: pale-yellowish-green to greenish-gray but dark olive-green at depth, blocky, sandy	101	143
Sand: coarse-grained, subrounded, arkosic	20	163
Sand: fine-grained, subrounded; interbedded clay, yellowish-green, rather tough, sandy	21	184
Clay: greenish-gray to pale-yellowish-green at depth, sandy; interbedded limestone, cream, sandy, rather dense, fossiliferous at depth (macroshells); sand, fine-grained, subrounded, light-gray, rounded phosphatic pebbles	82	266
Limestone: as above; interbedded siltstone, light-brown to brownish-gray, very dense, highly siliceous; indurated sand, fine to medium-grained, subrounded, rather dense, crystalline, fossiliferous (some macroshells)	30	296

**In Oligocene (Undifferentiated):**

Limestone: cream, much leached, rather soft, loosely cemented, cherty at depth, fossiliferous (echinoid and bryozoan remains, some Ostracods and Foraminifera)	93	389
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*Rotalia mexicana* var. at 296-307.

*Quinqueloculina* sp., *Nonionella oligocenica*, *Reussella oligocenica*, *Discorbis* cf. *D. tentoria*, *Nonion advena*, *Rotalia mexicana* var., *Cibicides lobatulus*, *Cibicides americanus* var. at 307-327.

	Thickness (feet)	Depth (feet)
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**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, granular (in texture), rather loosely consolidated <sup>1</sup> , fossiliferous (abundant bryozoan remains <sup>2</sup> and rare Foraminifera) .....	21	410
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*Operculinoides* sp. (rare) at 389-410.

Limestone: cream, firmly consolidated (as compared to limestone above), fossiliferous (abundant bryozoan remains) .....	20	430
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**Summary:**

Miocene (undifferentiated) .....	296	296
In Oligocene (undifferentiated) .....	93	389
Upper Eocene (Ocala limestone) .....	41	430

**Potential Water-Bearing Zones:**

Sand: coarse-grained .....	20	163
Limestone: cream, rather porous .....	20	430

**CANDLER COUNTY**

Location: Northeast of Metter, approximately 1 mi. east of Highway 23      Well No.: GGS 582  
Elev.: 310

Owner: No. 1 Josh Durdon

Operator: Turner Well Drilling Company

Drilled: August 1959

	Thickness (feet)	Depth (feet)
No samples .....	22	422

**In Miocene (Undifferentiated):**

Clay: yellowish to olive-green to greenish-gray, somewhat blocky, sandy, cherty and phosphatic at depth; interbedded sand, fine to coarse-grained, subangular, arkosic, phosphatic at depth .....	346	368
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Black, polished phosphatic pebbles prominent at 245-266.

Marl: dark-gray, silty, micaceous, fossiliferous (macroshells) .....	21	389
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<sup>1</sup>Representative of inner lagoon (post barrier reef) deposits.

<sup>2</sup>Consisting of approximately 98 percent bryozoan remains.