

LITHOLOGIC LOG
Grady County, Ga.

Cairo North

12F36

Owner: U. S. Geological Survey
Location: In Cairo, Georgia
Driller: John Carr
Drilled: May, 1964
Sample interval: 5 feet

008 No.: 962
USGS No.: 305236M0841253.1
Field No.: 12F36
Land-surface alt: 204.55
Well depth: 972 ft.
Water level: 164 ft.
Casing: 6 in. to 458 ft.

Samples described by: C. W. Sever
Stratigraphic correlation by: C. W. Sever

	Thickness (feet)	Depth (feet)
RECENT SERIES:		
ALLUVIUM		
Sand and Gravel: white, poorly sorted, clean.....	10	10
MIOCENE SERIES: TO PLIOCENE SERIES		
LITTONELLE FORMATION		
Sand: pale yellowish brown, fine to very coarse, poorly sorted, subangular, quartz.....	10	20
CHIPOLA FORMATION		
Sand: light greenish gray, fine to medium grained, sub- angular to subrounded, fairly well sorted, quartz; dark opaque minerals common; fine pebbles common.....	15	35
Clay: yellowish gray; sand common to abundant.....	21	56
Clay: yellowish gray, sand common, sparsely phosphatic; siliceous (cherty).....	10	66
Clay: sandy, mottled white to light olive gray; clay looks like fuller's earth; sand is fine to very coarse grained, subrounded, poorly sorted, pebbles common, phosphatic.....	11	77
Silt: white to yellowish gray, argillaceous; sand common.	7	84
Sand: white to light olive gray fine to very coarse grained, poorly sorted, subangular, interbedded thin clays.....	6	90

MIOCKES SERIES-continued

Thickness (feet) Depth (feet)

CHIPOLA FORMATION - *continued*

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Sand: white, fine grained, subrounded, well sorted; interbedded sandstone at 119 to 128.....	46	136
Sandstone: white; firm carbonate cement; sand is fine grained, subangular, well sorted.....	3	139
Sand: white, fine grained, subangular, well sorted, phosphatic (?)......	4	143
Limestone and sand: white to yellowish gray; interbedded, beds 1 to 4 feet thick. Limestone is sandy, somewhat recrystallized, sparsely fossiliferous. Sand is fine grained, subangular, well sorted, non-phosphatic.....	55	198
Sand: white argillaceous; medium grained, subangular, well sorted, coarse grains common; fragments of sandy limestone common.....	18	216
Sandstone: white, phosphatic, calcareous cement.....	10	226
Clay: light greenish gray, very sandy; sand is medium grained, fairly well sorted, subangular, sparsely phosphatic.....	9	235
Sandstone and sand: light greenish gray argillaceous, sand is medium to coarse grained, fairly well sorted, rounded.....	11	246

TAMPA LIMESTONE

~~UPPER-UNIT~~

Limestone: light greenish gray, sandy, phosphatic dolo- mitic; sand is medium to very coarse grained.....	24	270
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MIOCENE SERIES:-continued

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TAMPA LIMESTONE-continued

~~UPPER UNIT-continued~~

Sand: light greenish gray, argillaceous, phosphatic, calcareous; sand is medium grained, subrounded, well sorted.....	14	284
Limestone: very light gray, sandy, earthy luster; sand is medium grained, subangular, fair sorted; fragments of megafossils sparse.....	17	301
Marl: very light gray, sandy; sand is medium to coarse grained, subangular, fair sorted.....	5	306
Limestone: very light gray, sandy, earthy luster; sand is medium to coarse grained, subangular to subrounded, fair sorted; pyrite sparse.....	14	320
Marl: very light gray, sandy; sand is medium grained, subangular, fair sorted.....	14	334
Limestone: very light gray, sandy, porous; fragments of megafossils common.....	8	342
Marl: very light gray, sandy.....	5	347
Limestone: white to very light gray, sandy; sand is fine to coarse grained, subrounded, poor sorted.....	10	357
Clay: greenish gray; sand sparse.....	9	366
Limestone: light gray, sandy.....	8	374

~~LOWER UNIT~~

Sand: white, fine to coarse grained, subangular, fairly well sorted, argillaceous.....	22	396
Limestone: white, somewhat recrystallized, sand common...	18	414

MIocene SERIES:-continued

TAMPA LIMESTONE-continued

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~~LOUISIANA~~-continued

Limestone: mottled white to very light gray, dense, sandy, dolomitic.....	10	424
Limestone: white, sandy; sand is medium to coarse grained, subrounded, fairly well sorted.....	16	440
Sand: very light gray, medium grained, subrounded, well sorted; pyrite sparse.....	10	450
Limestone: very light gray to white, sandy, somewhat recrystallized, gypsum common.....	15	465
Clay: grayish green, calcareous; pyrite common, sand sparse; sand is medium grained, subrounded to sub-angular, well sorted.....	5	470
Limestone: very light gray, sandy, and more grayish green, pyrite common.....	1	471

OLIGOCENE SERIES

SUMNER LIMESTONE

Limestone: yellowish gray, fossiliferous, foraminifera common, Echinoid and Bryozoa fragments common Miliolids, <u>Pararetalia mexicana</u> var., <u>Elphidium laevis</u> at 475-480.....	32	503
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VICKSBURG GROUP (?)

Dolomite: moderate yellowish brown, saccharoidal, dense, gypsum common, sand sparse; interbedded dolomitic limestone; iron sulfide common; poorly preserved foraminifera common; iron sulfide abundant at 605-610.....	162	665
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ROCKNE SERIES

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OCALA LIMESTONE

Limestone: very pale orange, aphanitic, granular; gypsum (?) and calcite common; microfossils sparse and poorly preserved; sand sparse.....	65	730
Limestone: very pale orange, Foraminifera abundant.....	42	772
Limestone: very pale orange, somewhat recrystallized; microcoquina, Foraminifera abundant.....	46	818
Belemnitic limestone: yellowish gray and white, recrystallized, chert fragments abundant; interbedded limestone..	66	884

LISBON FORMATION

Limestone: yellowish gray, somewhat recrystallized, very fine grained, earthy, argillaceous, fossiliferous, Foraminifera common; quartz fragments common at 930-935.....	88* 48	972 (79)
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