

3341

G456

Driller: Layne-Atlantic Co.
 Owner: U.S. Gov't.
 Location: Camp Savannah, Liberty County
 Date Drld:
 Elev. above MSL: 95 Feet
 Log by: S. M. Herrick
 Raks: Well No. 161 of M.A. Warren

Formation:	Depth: (feet)
Quaternary to Recent	0 - 100
Fine to medium-grained, brown sand	0 - 80
Medium to coarse-grained sand; probably water-bearing	80 - 100
No Samples	100 - 115
In Hawthorn (Miocene Age; top not determined because of sample gap)	115 - 491
Coarse-grained sand; probably water-bearing	115 - 180
Mostly silty gray clay	180 - 355
No samples	355 - 385
Sand and silty gray clay carrying fragments of macro-shells plus fragments of white colored sand- stone with calcareous cementing material	385 - 435
No samples	435 - 451
White calcareous sandstone plus fragments of dolomitic rock having the appearance of brown sugar	
Probable ocala (upper Eocene Age)	491 - 531
White calcareous sandstone with fragments of white limestone	491 - 511
White limestone containing abundant Bryozoa, <u>Camerina</u> sp.	511 - 531
Definite ocala (upper Eocene)	531 - 816
White porous limeston containing <u>C. ocalana</u>	531 - 551
White porous limestone	551 - 816
Total Depth	816

S. M. Herrick

33N1
GGS6

LIST OF SAMPLES FROM WELL NO. 161 LIBERTY CO.

Sixteen inch well located near elevated steel water tank at Camp Stewart one mile north-west of Hinesville, Ga. Drilled Nov., 1940 by Layco-Atlantic Co. Depth 516 feet, 16 inch casing to 451 feet. Static water-level is 43 feet below ground surface, which is 90 feet above Mean Sea Level. 9.75 feet draw-down after 47 hours pumping at 2000 gallons a minute.

SAMPLE NO.	DEPTH IN FEET	SAMPLE NO.	DEPTH IN FEET
1	0 - 20	26	471
2	20	27	481
3	40	28	511
4	60	29	531
5	80	30	551
6	80 - 100	31	590 - 570
7	115 - 120	32	570 - 590
8	120 - 140	33	610
9	150	34	630
10	144 - 160	35	670
11	160 - 180	36	690
12	180 - 200	37	690 - 710
13	200 - 205	38	710 - 730
14	200 - 220	39	730 - 750
15	240	40	775
16	260	41	795
17	260 - 266	42	816
18	275		
19	275 - 295		
20	315		
21	315 - 335		
22	335 - 355		
23	395 - 415		
24	415 - 435		
25	451		

33N1

6456

CAMP STEWART WELL No. 181, LIBERTY COUNTY, GEORGIA
(16" well near Water Tank)

0-20	Fine sand
20	Fine brown sand
40	Fine brown and white sand
60	Fine brown and white sand
80	Fine brown and white sand
80-100	Fine sand
115-20	Very coarse sand
120-40	Medium sand
150	Fine white sand
148-80	Coarse sand
160-80	Very coarse sand
180-200	Pebbles
200-05	Silt & pebbles
200-20	Silt & pebbles
240 (?)	Silt & pebbles
260 (?)	Silt & pebbles
260-66	Silt & few pebbles
275	White clay & few pebbles
275-95	Silt
315	Gray silt
315-35	Gray silt & few small pebbles
335-55	Coarse sand & pebbles
395-415	Silt & few pebbles
415-55	Silt & chert pebbles
451	Pebbles & some limestone
471	Limestone
491	Crushed limestone
511	Fine crushed limestone
531	"
551	" (forams)
550-70	"
570-80	"
650	"
670	"
690	"
690-710	"
710-80	"
730-50	"
775	"
795	"
816	"

MIOCENE

C C A L A

HORACE G. RICHARDS

551 Kleidinella lobata C & B
Jacksonian

COPY

Liberty County, Ga.

33N1

GC36

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Water Analysis

Location Camp Stewart (1 mi. N. W. of Hinesville, Georgia)
Owner: War Department.
Source Artesian well 816 ft. deep, 16 in. diam., drilled November, 1940.
Date of collection January 21, 1941.
Gage height(ft.).....Discharge(sec.ft.).....Temp.(°F).....75

(Parts per million)

Silica (SiO ₂).....	36	Carbonate (CO ₃).....	0
Iron (Fe).....	.02	Bicarbonate (HCO ₃).....	133
Calcium (Ca).....	19	Sulphate (SO ₄).....	8.4
Magnesium (Mg).....	9.4	Chloride (Cl).....	3.6
Sodium (Na).....	16	Fluoride (F).....	.4
Potassium (K).....	2.6	Nitrate (NO ₃).....	.0
.....			
.....			

Total dissolved solids	152	Suspended matter.....	
Total hardness as CaCO ₃	86	Color.....	
.....			
.....			

Analyst N. A. Talvitie

W.R.Lab. No. 24927

4161