

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

264

No. GG5 58

OTHER NOS. City, No. 1

WELL LOG

State Georgia County Bacon Subarea _____

Owner City of Alma

Location South side of Railroad tracks, North of Highway, one quarter mile East of Railroad Depot.

Drilled by Gray Well and Pump Co. Address _____

Date May 1938 Casing diam. _____ Land-surf. alt. 199.7 feet

Source of data Well Cuttings

(Enter type of well, perforations, yield, and drawdown at end of log)

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Sand, fine to medium-grained, with some red clay	40	40
	Sand, mostly fine to coarse-grained, some gray sandy clay	10	50
	No Samples	14	64
	Clay, pale green, noncalcareous, sandy	54	118
	Limestone, weathered, sandy	22	140
	Clay, pale green, noncalcareous, sandy	10	150
	Limestone, weathered, sandy	10	160
	Clay, light green	20	180
	Clay, light green, with fragments of sandy limestone	20	200
	Clay, light green, with fragments of sandy limestone, with abundant brown chert	10	210
	Sand, fine to coarse-grained, with abundant brown phosphatic pebbles	10	220
	Clay, gray to white, noncalcareous, sandy	40	260
	Limestone, sandy, containing micro-shells	10	270
	Sand, fine to coarse-grained with frequent brown, phosphatic pebbles	20	290
	Clay, light green, sandy	70	360
	Limestone, white, sandy	40	400
	Limestone, white, sandy, with fragments of brown, crystalline, dolomitic rock, fossiliferous, porous	176	626

RECORD BY S. M. Herrick DATE _____ SHEET 1 OF 2

264
 UNPUBLISHED RECORDS
 SUBJECT TO REVISION

Gray Well Pump Co.
 # 1 City of Alma
 Bacon Co.: GGS #58
 Elev. 200: Logged by SMH

<u>Description:</u>	<u>Depth in Feet:</u>
Fine to medium-grained sand with some red-colored clay	0 - 40
Mostly fine to coarse-grained sand and some gray-colored sandy clay	40 - 50
No Samples	50 - 64
Pale-green-colored, noncalcareous, sandy clay	64 - 118
Weathered sandy limestone	118 - 140
Same as 64 - 118	140 - 150
Same as 118 - 140	150 - 160
Light-green-colored clay	160 - 180
Do., plus fragments of sandy limestone	180 - 200
Do., plus abundant brown-colored chert	200 - 210
Fine to coarse-grained sand carrying abundant brown-colored phosphatic pebbles	210 - 220
Gray to white-colored, noncalcareous, sandy clay	220 - 260
Sandy limestone containing macro-shells	260 - 270
Fine to coarse-grained sand carrying frequent brown-colored phosphatic pebbles	270 - 290
Light-green-colored sandy clay	290 - 360
White sandy limestone	360 - 400
Do., plus fragments of brown-colored, crystalline dolomitic rock	400 - 450
Fossiliferous, porous limestone	450 - 626
<u>Rot. byremensis, Dictyoconus sp.</u>	450 - 460
<u>Opere. scalanus</u>	500 - 510

Summary:

Formation:

Miocene	0 - 450
Probable Hawthorne	0 - 290
" Tampa	290 - 450
Oligocene (Suwannee)	450 - 500
Coals	500 - 626(+)

Possible Water-Bearing Horizons:

Porous limestone	500 - 626
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Gray Well & Pump Co.¹
City of Alma No.1; GGS No.
Bacon County
Elev.: +200'

Description:

Depth
in Feet:

Red, argillaceous, fine to coarse-grained sand -----	0 - 10
Do., plus increase in amount of clay -----	10 - 40
Fine to coarse-grained, angular sand; sand grains coated with white (kaolin) clay -----	40 - 50
	50 - 64
	64 - 118
Pale-green, sandy clay -----	118
Fine to coarse-grained sand (W.B.?) -----	
Gray, cemented, calcareous sand plus occasional fragments of white, arenaceous limestone, latter carrying black & brown, polished phosphate pebbles -----	118 - 140
Pale-green, bentonitic clay carrying black and brown, polished phosphate pellets -----	140 - 150
Same as 118-140 -----	150 - 160
Same as 140-150 -----	160 - 180
Gray to white, sandy limestone plus some pale-green clay -----	180 - 190
Pale-green, sandy clay plus some fine to medium-grained sand -----	190 - 200
Dense, brown-colored flint (or sandstone) plus fine to medium- grained sand some clay -----	200 - 210
Fine to coarse-grained sand (W.B.); with brown phosphate pebbles abundant -----	210 - 220
White, sandy dolomitic rock with some pale-green, bentonitic clay --	220 - 230
Mostly light-gray, but with some pale-green, sandy, noncalcar- eous clay -----	230 - 240
Do., plus black to brown to gray-colored, polished phosphate pebbles -----	240 - 250
Do., plus fragments of gray, crystalline, sandy lime rock carry- ing black phosphate pebbles -----	250 - 260
White to gray-colored (latter, crystalline in character), sandy lime rock carrying brown and black phosphate pebbles -----	260 - 270
Mostly fine to coarse-grained sand (W.B.?) plus some pale- green, flakey, noncalcareous clay; phosphate pebbles common -----	270 - 290
Fine-grained argillaceous sand -----	290 - 300
Pale-green, sandy clay carrying phosphate pebbles -----	300 - 320
Gray, sandy, noncalcareous clay carrying brown to black to gray phosphate pebbles -----	320 - 360
Fine to coarse-grained sand plus frequent fragments of gray to white, crystalline, fossiliferous, sandy lime rock; frag- ments of macro-shells & Bryozoa present -----	360 - 380
White to gray-colored, crystalline, sparsely fossiliferous lime rock -----	380 - 400 -
	400 - 410
Mostly gray, crystalline, sandy lime rock -----	
Medium-grained sand (W.B.?) carrying abundant black phos- phate pebbles and fragments of fossiliferous limestone. Echin- oid spines prominent -----	410 - 420
Do., plus increase in amount of lime rock -----	420 - 450
Same lithology as above. <u>Rot. byramensis</u> common -----	450 - 460
Same lithology as above. <u>Dictyoconus</u> present -----	460 - 500
Soft, cream-colored, fossiliferous limestone; Bryozoa prominent. <u>Operc. ocalana</u> -----	500 - 510
Light-colored, re-crystallized limestone -----	510 - 520
Soft, cream-colored limestone carrying Jackson micro- fauna -----	520 - 625(+)

Summary:

Hawthorne ----- 0 - 360

City of Alma No. 1 Cont'd.

<u>Formation:</u>	<u>Summary:</u>	<u>Depth in Feet:</u>
Hawthorne	-----	0 - 360
Tampa	-----	360 - 450
Suwannee	-----	450 - 500
Ocala	-----	500 - 625(+)

Possible Water-Bearing Horizons:

Water-Bearing Sand (?)	-----	118
Do.	-----	210 - 220
Do.	-----	270 - 290
Water-bearing limestone	-----	360 - 625(+)