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**APPENDIX**

**WELL RECORDS**

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Table 116.—Records of wells in Broward County

[See plates 19 and 20]

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point re- ferred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use	Remarks
F 292	Hollywood	Pl. 20 D6	72	Lip of hydrant	12.13	.....	Table 105	F	
F 294	.....do.....	.....do.....	133	.....do.....	16.08	.....	.....do.....	F	
G 184	W. of Hollywood	Pl. 20 A6	300	.....	.....	.....	.....do.....	T	Well log, table 126.
G 190	NW. of Fort Lauderdale	Pl. 19 F4	225	.....	.....	.....	.....do.....	T	Do.
G 191	W. of Hollywood	Pl. 19 G5	204	.....	.....	.....	.....do.....	T	Do.
G 219	NW. of Pennsuco	Pl. 19 G5	205	.....	.....	.....	.....do.....	T	Well log, table 126, pls. 5, 9.
G 220	W. of Fort Lauderdale	.....do.....	200	.....	.....	.....	.....do.....	T	Well log, table 126.
G 221	Fort Lauderdale	Pl. 20 C4; fig. 211	330	.....	.....	.....	.....do.....	T	Do.
G 261	NW. of Pennsuco	Pl. 19 F5	26	.....	.....	.....	.....do.....	T	
G 262	.....do.....	.....do.....	34	.....	.....	.....	.....do.....	T	
G 263	.....do.....	.....do.....	20	.....	.....	.....	.....do.....	T	
G 264	.....do.....	Pl. 19 F4	31	.....	.....	.....	.....do.....	T	
G 269	.....do.....	Pl. 19 G5	20	Top of casing	.....	.....	.....do.....	T	
G 340	.....do.....	.....do.....	8	.....	.....	.....	.....do.....	T	
G 341	.....do.....	.....do.....	34	.....	.....	.....	.....do.....	T	Well log, table 126.
G 342	.....do.....	.....do.....	11	.....	.....	.....	.....do.....	T	
G 343	.....do.....	.....do.....	4	.....	.....	.....	.....do.....	T	
G 344	.....do.....	.....do.....	11	.....	.....	.....	.....do.....	T	
G 345	.....do.....	.....do.....	10	.....	.....	.....	.....do.....	T	
G 347	.....do.....	.....do.....	5	.....	.....	.....	.....do.....	T	
G 512	Fort Lauderdale	Pl. 20 C5; fig. 211	175	.....	.....	.....	Chloride log, pl. 18	.....	Well log, table 126.
G 513	.....do.....	Pl. 20, C4; fig. 211	224	.....	.....	.....	.....do.....	.....	Do.
G 515	.....do.....	Pl. 20 C4; fig. 211	211	.....	.....	.....	.....do.....	.....	Do.
G 516	.....do.....	Pl. 20 D4; fig. 211	200	.....	.....	.....	.....do.....	.....	Do.
GS 1	W. of Fort Lauderdale	Pl. 19 G5	55	.....	.....	.....	Table 105	T	Well log, table 126.
GS 9	W. of Deerfield	Pl. 22 C4	52	.....	.....	.....	.....do.....	T	Do.
GS 10	W. of Hammondville	Pl. 20 B1	50	.....	.....	.....	.....do.....	T	Do.
GS 13	NW. of Pennsuco	Pl. 19 F5	50	.....	.....	.....	.....do.....	T	Do.
GS 15	W. of Deerfield	Pl. 19 F4	20	.....	.....	.....	.....do.....	T	Do.

S 329	Fort Lauderdale	Pl. 20 C4	68	Top of casing	10.42	W. S. P. 1017	.....	O	Hydrographs, sect. on Ground Water.
S 330	W. of Dania	Pl. 20 D5	35	.....do.....	4.31	.....do.....	.....	T and O	
S 332	Hollywood	Pl. 20 D 6	70	.....do.....	.....	.....do.....	.....	PS	Well log, table 126. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.
S 336	Oakland Park	Pl. 20 E3	61	.....do.....	.....	.....do.....	Available <sup>3</sup>	U	
S 337	.....do.....	.....do.....	72	.....do.....	.....	.....do.....	.....do.....	Irr.	
S 340	Pompano	Pl. 20 E1	180	.....do.....	.....	.....do.....	.....do.....	PS	
S 341	.....do.....	.....do.....	189	.....do.....	.....	.....do.....	.....do.....	Ind.	
S 342	Deerfield Beach	Pl. 19 B4	72	.....do.....	.....	.....do.....	.....do.....	PS	
S 366	Fort Lauderdale	Pl. 20 C4	100	.....do.....	.....	.....do.....	.....do.....	PS	
S 369	.....do.....	.....do.....	.....	.....do.....	.....	.....do.....	.....do.....	.....	
S 372	Pompano	Pl. 20 D1	120	.....do.....	.....	.....do.....	.....do.....	Dom.	
S 393	Dania	Pl. 20 E5	103	.....do.....	.....	.....do.....	.....do.....	PS	
S 427	Davie	Pl. 20 C6	103	.....do.....	.....	.....do.....	.....do.....	Irr.	
S 428	.....do.....	.....do.....	100	.....do.....	.....	.....do.....	.....do.....	Irr.	
S 440	.....do.....	.....do.....	53	.....do.....	.....	.....do.....	.....do.....	Irr.	
S 441	.....do.....	.....do.....	53	.....do.....	.....	.....do.....	.....do.....	Irr.	
S 452	S. of Davie	Pl. 20 C7	52	.....do.....	.....	.....do.....	.....do.....	Irr.	
S 454	.....do.....	.....do.....	100	.....do.....	.....	.....do.....	.....do.....	Irr.	
S 455	.....do.....	Pl. 20 C6	79	.....do.....	.....	.....do.....	.....do.....	Irr.	
S 463	.....do.....	Pl. 20 C7	67	.....do.....	.....	.....do.....	.....do.....	Irr.	

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.

<sup>2</sup>F, fire; T, test; O, observation; PS, public supply; U, unused; Irr., irrigation; Ind., industrial; Dom., domestic.

<sup>3</sup>Section on "Quality of ground and surface water."

Table 117.—Records of wells in Collier County

[See plate 19]

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
C 4	Everglades	Pl. 19, D6	521	.....	.....	.....	Available <sup>3</sup>	PS	
C 11	Kice's Island	Pl. 19, C6	.....	.....	.....	.....	do.....	U	
C 12	S. of Caxambas	.....do.....	15	.....	.....	.....	do.....	Dom.	
C 13	Caxambas	.....do.....	300	.....	.....	.....	do.....	U	
C 14	.....do.....	.....do.....	376	.....	.....	.....	do.....	Dom.	
C 15	.....do.....	.....do.....	13	.....	.....	.....	do.....	Dom.	
C 16	.....do.....	.....do.....	7	.....	.....	.....	do.....	PS	
C 17	Collier County	.....do.....	22	.....	.....	.....	do.....	Dom.	
C 18	Marco Isle	.....do.....	.....	.....	.....	.....	do.....	.....	
C 19	.....do.....	.....do.....	900	.....	.....	.....	do.....	Dom.	
C 20	.....do.....	.....do.....	12	.....	.....	.....	do.....	Dom.	
C 21	N. of Immokalee	Pl. 19, D4	566	.....	.....	.....	do.....	Dom.	
C 22	.....do.....	.....do.....	845	.....	.....	.....	do.....	T	
C 36	Ochopee	Pl. 19, D6	446	.....	.....	.....	do.....	Dom.	
C 37	Immokalee	Pl. 19, D4	590	.....	.....	.....	do.....	Dom.	
C 43	S. of Caxambas	Pl. 19, C6	12	.....	.....	.....	do.....	Dom.	

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.

<sup>2</sup>PS, public supply; U, unused; Dom., domestic; T, test.

<sup>3</sup>Section on "Quality of ground and surface water."

Table 118.—Records of wells in Dade County

[See plates 19, 21, 22, and 23]

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
D 196	Coral Gables.....	Pl. 21 B9	225	.....	.....	.....	.....	Ind.	Well log, table 127. Figs. 205, 206.
D 350	Silver Bluff.....	Pl. 22 C9	93	.....	.....	.....	Chloride log fig. 206.	.....	
F 1.....	Miami Springs.....	Pl. 22 E4	52	Lip of hydrant..	8.71	W. S. P. 1017	Available <sup>3</sup> ...	F	Chloride graph, fig. 192. Do. Do.
F 2.....	do.....	Pl. 22 E5	73	do.....	9.10	do.....	do.....	F	
F 3.....	do.....	do.....	48	do.....	7.35	do.....	do.....	F	
F 4.....	do.....	do.....	68	do.....	9.25	do.....	do.....	F	
F 5.....	do.....	do.....	53	do.....	8.39	do.....	do.....	F	
F 6.....	do.....	Pl. 22 E6	48	do.....	9.16	do.....	do.....	F	
F 7.....	do.....	Pl. 22 F6	55	do.....	7.97	do.....	do.....	F	
F 8.....	do.....	do.....	55	do.....	8.19	do.....	do.....	F	
F 9.....	do.....	Pl. 22 E6	49	do.....	7.56	do.....	do.....	F	
F 10.....	do.....	do.....	81	do.....	8.22	do.....	do.....	F	
F 11.....	do.....	do.....	59	do.....	8.92	do.....	do.....	F	
F 12.....	do.....	Pl. 22 C5	57	do.....	10.70	do.....	do.....	F	
F 13.....	do.....	do.....	73	do.....	9.84	do.....	do.....	F	
F 14.....	do.....	Pl. 22 B5	60	do.....	9.89	do.....	do.....	F	
F 15.....	do.....	Pl. 22 B6	73	do.....	9.27	do.....	do.....	F	
F 18.....	Opa Locka.....	Pl. 21 C4	53	do.....	10.68	do.....	do.....	F	
F 22.....	do.....	do.....	96	do.....	10.14	do.....	do.....	F	
F 25.....	do.....	do.....	100	do.....	10.04	do.....	do.....	F	
F 53.....	Miami.....	Pl. 21 D6	110	do.....	14.89	do.....	Available <sup>3</sup>	F	
F 62.....	do.....	Pl. 21 D7	83	do.....	13.26	do.....	do.....	F	
F 64.....	do.....	do.....	114	do.....	13.77	do.....	do.....	F	
F 69.....	do.....	do.....	82	do.....	12.09	do.....	do.....	F	
F 80.....	do.....	Pl. 21 D8	95	do.....	8.13	do.....	Available <sup>3</sup>	F	
F 85.....	do.....	Pl. 21 D6	59	do.....	13.89	do.....	do.....	F	
F 102.....	do.....	Pl. 21 C8	119	do.....	.....	do.....	do.....	F	
F 109.....	do.....	Pl. 21 C6	51	Lip of hydrant..	11.20	W. S. P. 1017	do.....	F	
F 112.....	do.....	Pl. 21 C7	68	do.....	11.28	do.....	do.....	F	
F 117.....	do.....	Pl. 21 C8	55	do.....	8.35	do.....	Available <sup>3</sup>	F	
F 120.....	do.....	do.....	120	do.....	.....	do.....	do.....	F	
F 124.....	do.....	do.....	87	Lip of hydrant..	12.73	W. S. P. 1017	do.....	F	
F 131.....	do.....	do.....	50	do.....	.....	do.....	Available <sup>3</sup>	F	

Table 118.—Records of wells in Dade County—Continued

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurement <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
F 137.....	.....do.....	Pl. 21 D9	88	Lip of hydrant...	11.79	W. S. P. 1017	.....do.....	F	Chloride graph, sect. on salt-water encroachment, Do.
F 146.....	Miami.....	Pl. 21 C9	108	Lip of hydrant...	9.73	.....do.....	.....do.....	F	
F 147.....	.....do.....	.....do.....	86	.....do.....	11.80	.....do.....	.....do.....	F	Flowing artesian well.
F 152.....	.....do.....	.....do.....	990	.....do.....	.....do.....	.....do.....	Available <sup>3</sup>	F	
F 155.....	.....do.....	.....do.....	60	Lip of hydrant...	8.48	W. S. P. 1017	.....do.....	F	Chloride graph, sect. on salt-water encroachment.
F 156.....	.....do.....	.....do.....	90	.....do.....	13.75	.....do.....	.....do.....	F	
F 158.....	.....do.....	Pl. 21 C10	83	.....do.....	13.72	.....do.....	Available <sup>3</sup>	F	Chloride graph, sect. on salt-water encroachment.
F 160.....	.....do.....	.....do.....	64	.....do.....	16.19	.....do.....	.....do.....	F	
F 162.....	.....do.....	Pl. 21 C9	74	.....do.....	12.29	.....do.....	.....do.....	F	Do.
F 163.....	.....do.....	.....do.....	82	.....do.....	14.81	.....do.....	.....do.....	F	
F 164.....	.....do.....	.....do.....	78	.....do.....	14.70	.....do.....	.....do.....	F	Do.
F 165.....	.....do.....	.....do.....	61	.....do.....	9.70	.....do.....	.....do.....	F	
F 168.....	.....do.....	.....do.....	107	.....do.....	13.57	.....do.....	Available <sup>3</sup>	F	Do.
F 172.....	.....do.....	.....do.....	87	.....do.....	14.18	.....do.....	.....do.....	F	
F 173.....	.....do.....	.....do.....	60	.....do.....	11.45	.....do.....	.....do.....	F	Chloride graph, sect. on salt-water encroachment.
F 174.....	.....do.....	.....do.....	67	.....do.....	14.67	W. S. P. 1017	.....do.....	F	
F 179.....	.....do.....	.....do.....	77	Top of casing...	11.17	.....do.....	.....do.....	O	Hydrograph, fig. 39; graph, fig. 54; 175.
F 186.....	.....do.....	Pl. 21 A9	63	Lip of hydrant...	13.90	.....do.....	Available <sup>3</sup>	F	Chloride graph, sect. on salt-water encroachment.
F 188.....	.....do.....	Pl. 21 C10	115	.....do.....	18.50	.....do.....	.....do.....	F	
F 192.....	.....do.....	Pl. 21 C9	76	.....do.....	12.56	.....do.....	.....do.....	F	Do.
F 198.....	.....do.....	.....do.....	67	.....do.....	13.79	.....do.....	.....do.....	F	
F 202.....	.....do.....	Pl. 21 C10	62	.....do.....	17.89	.....do.....	Available <sup>3</sup>	F	Do.
F 205.....	.....do.....	Pl. 21 D6	50	.....do.....	12.19	.....do.....	.....do.....	F	
F 210.....	.....do.....	.....do.....	112	Top of casing...	10.77	W. S. P. 1017	.....do.....	O	Hydrograph, fig. 39; graph, fig. 54.
F 212.....	.....do.....	Pl. 21 B5	53	Lip of hydrant...	11.00	.....do.....	Available <sup>3</sup>	F	Do.
F 213.....	.....do.....	Pl. 21 C10	69	Top of casing...	18.38	W. S. P. 1017	.....do.....	O	
F 214.....	.....do.....	Pl. 21 D7	117	Lip of hydrant...	13.49	.....do.....	.....do.....	F	Do.
F 218.....	.....do.....	Pl. 21 D6	123	.....do.....	11.99	.....do.....	.....do.....	F	
F 219.....	.....do.....	.....do.....	90	.....do.....	13.02	.....do.....	Available <sup>3</sup>	F	

F 223	do	do	49	do	10.17	do	F
F 225	do	do	70	do	10.59	W. S. P. 1017	F
F 226	do	Pl. 21 E6	86	do	19.52	do	F
F 228	do	Pl. 21 E5	114	Lip of hydrant	15.99	W. S. P. 1017	F
F 233	do	Pl. 21 C8	49	do	12.34	do	F
F 234	do	Pl. 21 C7	45	do	7.87	do	F
F 235	Hialeah	Pl. 22 H6	57	do	10.83	Available	F
F 236	do	Pl. 22 G5	59	Lip of hydrant	9.65	W. S. P. 1017	F
F 237	do	do	55	do	9.77	do	F
F 238	do	Pl. 22 F2	57	do	10.29	do	F
F 239	do	do	53	do	10.50	do	F
F 240	do	Pl. 21 B6	60	do	10.55	do	F
F 243	do	Pl. 21 B5	65	do	11.38	do	F
F 245	do	do	93	do	11.09	Available	F
F 246	do	do	61	do	10.75	do	F
F 248	do	do	56	do	10.28	Available	F
F 253	do	Pl. 21 A6	47	do	9.27	W. S. P. 1017	F
F 257	do	Pl. 21 B6	58	do	9.69	do	F
F 260	do	Pl. 22 E1	51	do	10.22	do	F
F 261	do	Pl. 22 F3	53	do	9.69	do	F
F 263	do	Pl. 22 E4	102	do	9.85	Available	F
F 264	do	Pl. 22 E2	54	do	9.65	do	F
F 265	do	do	53	do	10.34	do	F
F 266	do	Pl. 22 E1	45	do	10.31	Available	F
F 268	do	Pl. 22 E3	55	do	8.48	do	F
F 270	do	Pl. 22 E2	52	do	8.80	do	F
F 271	do	do	48	do	9.96	do	F
F 273	North Miami	Pl. 21 E4	73	do	14.86	do	F
F 275	do	do	52	do	do	Available	F
F 279	do	do	117	Lip of hydrant	9.40	W. S. P. 1017	F
F 281	do	do	63	do	8.73	do	F
F 283	do	Pl. 21 D3	69	do	10.70	do	F
F 284	do	Pl. 21 D4	59	do	13.28	Available	F
F 288	N. Miami Beach	Pl. 21 D3	63	do	10.89	do	F
F 296	do	Pl. 21 F4	47	do	11.70	Available	F
F 297	North Miami	Pl. 21 E4	85	do	10.64	do	F
F 299	Biscayne Park	Pl. 21 E5	204	do	9.60	do	F
F 300	N. Miami Beach	Pl. 21 E3	91	do	12.44	do	F
F 301	Coral Gables	Pl. 21 B9	57	do	do	do	F
F 302	do	do	19	Lip of hydrant	11.33	W. S. P. 1017	F
F 304	do	do	18	do	do	Available	F

Table 118.—Records of wells in Dade County—Continued

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurement <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
F 307...	.....do.....	Pl. 21 B10	18	Lip of hydrant...	14.40	W. S. P. 1017	.....do.....	F	
F 309...	.....do.....	Pl. 21 B9	14	.....do.....	11.80	.....do.....	.....do.....	F	
F 310...	.....do.....	.....do.....	18	.....do.....	11.30	.....do.....	.....do.....	F	
F 317...	.....do.....	.....do.....	16	.....do.....	11.05	.....do.....	.....do.....	F	
F 319...	South Miami.....	Pl. 21 A11	14	See remarks....	11.12	.....do.....	.....do.....	O	Top of concrete cover.
F 322...	.....do.....	Pl. 21 A10	15	.....do.....	14.02	.....do.....	.....do.....	F	Do.
F 331...	.....do.....	Pl. 22 D54	11	.....do.....	9.72	.....do.....	.....do.....	F	Do.
F 332...	Hialeah.....	Pl. 22 D2	79	Lip of hydrant...	8.76	.....do.....	.....do.....	F	
F 334...	Homestead.....	Pl. 23 C57	37	.....do.....	11.51	.....do.....	.....do.....	F	
F 358...	.....do.....	Pl. 23 B 57	54	Top of casing....	10.66	.....do.....	.....do.....	O	
F 364...	.....do.....	.....do.....	33	Lip of hydrant...	11.99	.....do.....	.....do.....	F	
F 378...	Florida City.....	.....do.....	24	Top of casing....	9.14	.....do.....	Available <sup>3</sup>	O	
F 379...	Naranja.....	Pl. 23 C56	21	Lip of hydrant...	12.27	.....do.....	.....do.....	F	
F 380...	Princeton.....	.....do.....	20	.....do.....	13.34	.....do.....	.....do.....	F	
F 381...	.....do.....	.....do.....	18	See remarks....	12.92	.....do.....	.....do.....	F	Top of concrete cover.
F 384...	W. of Goulds.....	.....do.....	15	.....do.....	10.94	.....do.....	.....do.....	F	Do.
F 385...	Goulds.....	.....do.....	18	.....do.....	11.32	.....do.....	.....do.....	F	Do.
F 387...	SW of Florida City.....	Pl. 23 A58	9	Top of casing....	6.24	.....do.....	.....do.....	F	
F 393...	Miami Springs.....	Pl. 22 E5	55	Lip of hydrant...	7.20	.....do.....	.....do.....	F	
F 394...	.....do.....	.....do.....	81	.....do.....	8.14	.....do.....	.....do.....	F	
F 396...	.....do.....	Pl. 22 A5	53	.....do.....	7.66	.....do.....	.....do.....	F	
F 397...	.....do.....	Pl. 22 A6	55	.....do.....	8.59	.....do.....	.....do.....	F	
F 398...	.....do.....	.....do.....	48	.....do.....	8.75	.....do.....	.....do.....	F	
F 399...	.....do.....	.....do.....	52	.....do.....	9.54	.....do.....	.....do.....	F	
C 2...	.....do.....	Pl. 22 B3	8	Top of casing....	4.37	.....do.....	.....do.....	O	
C 3...	.....do.....	Pl. 22 A2	9	.....do.....	8.08	.....do.....	.....do.....	O	Hydrograph, fig. 38.
C 4...	.....do.....	Pl. 22 A3	9	.....do.....	6.42	.....do.....	.....do.....	O	
C 5...	.....do.....	Pl. 22 B2	8	.....do.....	5.33	.....do.....	.....do.....	O	
C 6...	.....do.....	Pl. 22 B3	11	.....do.....	8.87	.....do.....	.....do.....	O	
C 7...	.....do.....	Pl. 22 D6	10	.....do.....	10.33	.....do.....	.....do.....	O	
C 8...	.....do.....	Pl. 22 B7	11	.....do.....	10.31	.....do.....	.....do.....	O	
C 9...	W. of Miami.....	Pl. 22 D54	6	.....do.....	7.91	.....do.....	.....do.....	O	
C 10...	.....do.....	.....do.....	6	.....do.....	8.32	.....do.....	.....do.....	O	Hydrograph, fig. 38.
G 11...	.....do.....	.....do.....	7	.....do.....	9.45	.....do.....	.....do.....	O	
G 12...	W. of Miami Springs.....	Pl. 21 A7	10	.....do.....	7.18	.....do.....	.....do.....	O	
C 15...	S. of Miami Springs.....	Pl. 21 B7	10	.....do.....	6.66	.....do.....	.....do.....	O	



G 18....	E. of Homestead.....	Pl. 23 C57	6	.....do.....	3.19	.....do.....	.....	○
G 20....	S. of Florida City.....	Pl. 23 C58	7	.....do.....	5.06	.....do.....	Available <sup>3</sup>	○
G 21....	.....do.....	Pl. 23 C57	9	.....do.....	5.27	.....do.....	.....do.....	○
G 22....	.....do.....	Pl. 23 B58	9	.....do.....	4.96	.....do.....	.....do.....	○
G 23....	W. of Peters.....	Pl. 23 B55	8	.....do.....	10.72	W. S. P. 1017	.....do.....	○
G 24....	.....do.....	.....do.....	8	.....do.....	10.88	.....do.....	.....do.....	○
G 25....	.....do.....	.....do.....	9	.....do.....	9.88	.....do.....	.....do.....	○
G 28....	.....do.....	.....do.....	9	.....do.....	9.90	.....do.....	.....do.....	○
G 36....	W. of Coral Gables.....	Pl. 23 D54	10	Top of casing..	8.68	W. S. P. 1017	.....do.....	○
G 38....	E. of Naranja.....	Pl. 23 C57	8	.....do.....	6.42	.....do.....	.....do.....	○
G 39....	W. of Coral Gables.....	Pl. 23 D54	6	.....do.....	10.08	.....do.....	.....do.....	○
G 42....	S. of N. Miami Beach...	Pl. 21 F3	14	.....do.....	12.40	.....do.....	Available <sup>3</sup>	○
G 48....	Coconut Grove.....	Pl. 21 C9	13	.....do.....	10.28	.....do.....	.....do.....	○
G 66....	W. of Florida City.....	Pl. 23 B57	9	.....do.....	7.82	W. S. P. 1017	.....do.....	○
G 67....	W. of Rockdale.....	Pl. 23 D55	12	.....do.....	11.04	.....do.....	.....do.....	○
G 69....	NW of Pennsuco.....	Pl. 23 C52	5	.....do.....	8.44	.....do.....	.....do.....	○
G 70....	.....do.....	.....do.....	4	.....do.....	9.40	.....do.....	.....do.....	○
G 71....	.....do.....	.....do.....	6	.....do.....	9.63	.....do.....	.....do.....	○
G 72....	.....do.....	.....do.....	5	.....do.....	10.02	.....do.....	.....do.....	○
G 82....	Opa Locka.....	Pl. 21 C3	8	.....do.....	8.72	.....do.....	.....do.....	○
G 83....	.....do.....	Pl. 21 C4	7	.....do.....	5.94	.....do.....	.....do.....	○
G 86....	S. of Opa Locka.....	Pl. 21 C5	9	.....do.....	8.35	.....do.....	.....do.....	○
G 101....	W. of Miami.....	Pl. 23 D54	812	.....do.....	.....	.....do.....	Available <sup>3</sup>	T
G 103....	N. of Opa Locka.....	Pl. 21 C5	7	Top of casing..	6.86	W. S. P. 1017	.....do.....	○
G 105....	Opa Locka.....	Pl. 21 B4	6	.....do.....	5.65	.....do.....	.....do.....	○
G 107....	Miami.....	Pl. 21 E6	14	.....do.....	14.81	.....do.....	Available <sup>3</sup>	○
G 108....	.....do.....	.....do.....	8	.....do.....	7.44	.....do.....	.....do.....	○
G 109....	.....do.....	Pl. 21 D6	13	.....do.....	12.21	.....do.....	.....do.....	○
G 110....	.....do.....	Pl. 21 C7	11	.....do.....	8.28	.....do.....	.....do.....	○
G 111....	.....do.....	Pl. 21 C6	15	.....do.....	9.72	.....do.....	.....do.....	○
G 112....	.....do.....	Pl. 21 D7	18	.....do.....	17.42	.....do.....	.....do.....	○
G 113....	.....do.....	Pl. 21 D7	19	.....do.....	14.07	.....do.....	.....do.....	○
G 114....	.....do.....	Pl. 21 D8	15	.....do.....	14.62	.....do.....	.....do.....	○
G 115....	.....do.....	.....do.....	13	.....do.....	12.80	.....do.....	.....do.....	○
G 116....	.....do.....	.....do.....	17	.....do.....	17.31	.....do.....	.....do.....	○
G 117....	.....do.....	.....do.....	12	.....do.....	9.64	.....do.....	.....do.....	○
G 118....	.....do.....	Pl. 21 C7	15	.....do.....	10.90	.....do.....	.....do.....	○
G 119....	.....do.....	Pl. 21 D8	13	.....do.....	13.81	.....do.....	.....do.....	○
G 120....	.....do.....	.....do.....	10	.....do.....	5.64	.....do.....	.....do.....	○
G 121....	.....do.....	.....do.....	11	.....do.....	11.60	.....do.....	.....do.....	○
G 122....	.....do.....	Pl. 21 D9	17	.....do.....	18.34	.....do.....	.....do.....	○

Hydrograph, fig. 38, 48, 52.

Hydrograph fig. 49; graph. fig.

Well log, table 127; pls. 5, 6,  
9; p. 99.

Table 118.—Records of wells in Dade County—Continued

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurement	Chemical analyses	Use <sup>2</sup>	Remarks
G 123.....	.....do.....	.....do.....	10	.....do.....	11.16	.....do.....	.....do.....	O	
G 158A..	.....do.....	Pl. 21 C9	16	.....do.....	12.32	.....do.....	Available <sup>3</sup>	O	
G 165.....	Hialeah.....	Pl. 21 A5	7	.....do.....	6.70	.....do.....	.....do.....	O	
G 182.....	Miami Springs.....	Pl. 22 D5	301	.....do.....	.....do.....	.....do.....	Available <sup>3</sup>	T	Well log, table 127; pls. 5, 8, 9.
G 183.....	Miami.....	Pl. 21 D6	350	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; Pls. 5, 8.
G 185.....	N. of Opa Locka.....	Pl. 21 B3	301	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; Pls. 5, 6
G 186.....	Miami.....	Pl. 21 C6	300	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; Pls. 5, 7, 8.
G 187.....	Pennsuco.....	Pl. 23 D52	222	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; Pls. 5, 8, 9.
G 188.....	W. of Miami.....	Pl. 23 B54	200	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; Pls. 5, 8, 9; fossil hist. table 12, and pp. 81-82
G 189.....	Miami.....	Pl. 21 C9	241	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; Pls. 5, 9; p. 299.
G 193.....	Miami Springs.....	Pl. 22 H7	84	Top of casing..	5.57	W. S. P. 1017	.....do.....	T and O	Do.; Pls. 5, 9.
G 195.....	.....do.....	Pl. 22 F5	95	.....do.....	6.65	.....do.....	.....do.....	T and O	Do.; Pls. 5, 9.
G 196.....	.....do.....	Pl. 22 G7	92	.....do.....	.....do.....	.....do.....	.....do.....	T	Well log, table 127.
G 197.....	Hialeah.....	Pl. 22 H6	91	Top of casing..	7.97	W. S. P. 1017	.....do.....	T and O	Do.
G 198.....	Coral Gables.....	Pl. 21 A9	102	.....do.....	.....do.....	.....do.....	.....do.....	T	Well log, table 127; Pl. 9.
G 199.....	Miami Springs.....	Pl. 22 C6	92	Top of casing..	4.89	W. S. P. 1017	.....do.....	T and O	Do.; Pls. 5, 9.
G 207.....	Florida City.....	Pl. 23 B57	108	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; Pls. 5, 8.
G 208.....	.....do.....	.....do.....	46	.....do.....	.....do.....	.....do.....	.....do.....	T	
G 209.....	S. of Florida City.....	Pl. 23 C58	66	.....do.....	.....do.....	.....do.....	.....do.....	T and O	Well log, table 127; pls. 5, 7.
G 210.....	.....do.....	Pl. 23 B58	45	.....do.....	.....do.....	.....do.....	.....do.....	T and O	Do.; Pls. 5, 6.
G 211.....	.....do.....	Pl. 23 C57	88	.....do.....	.....do.....	.....do.....	.....do.....	T and O	Do.; Pls. 5, 6, 8.
G 212.....	E. of Florida City.....	.....do.....	79	.....do.....	.....do.....	.....do.....	.....do.....	T and O	Do.; Pls. 5, 8.
G 213.....	.....do.....	.....do.....	78	.....do.....	.....do.....	.....do.....	.....do.....	T and O	Do.; Pls. 5, 7, 8.
G 214.....	Florida City.....	Pl. 23 B57	37	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; Pls. 5, 8.
G 216.....	E. of Homestead.....	Pl. 23 C57	110	.....do.....	.....do.....	.....do.....	.....do.....	T and O	Do.; Pls. 5, 7, 8.
G 217.....	N. of Homestead.....	Pl. 23 C57	120	.....do.....	.....do.....	.....do.....	Available <sup>3</sup>	T	Well log, table 127; pls. 5, 6, 8.
G 218.....	W. of Hialeah.....	Pl. 23 D53	202	Top of casing..	9.25	.....do.....	.....do.....	T and O	Do.; pls. 5, 8; fig. 63.
G 222.....	W. of Miami.....	Pl. 23 A54	77	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; pls. 5, 9.
G 223.....	.....do.....	Pl. 19 E6	604	.....do.....	.....do.....	.....do.....	.....do.....	T	Well log, table 127, Pl. 9.
G 224.....	W. of Miami Springs.....	Pl. 23 D53	104	.....do.....	.....do.....	.....do.....	.....do.....	T	Well log, table 127; pls. 5, 6, 8; p. 99.
G 225.....	W. of Miami.....	Pl. 23 C53	100	.....do.....	.....do.....	.....do.....	.....do.....	T	Do.; pls. 5, 8.
G 226.....	W. of Perrine.....	Pl. 23 C55	100	.....do.....	.....do.....	.....do.....	.....do.....	T	Well log, table 127.
G 231.....	S. of S. Miami.....	Pl. 23 E55	15	Top of casing..	11.64	W. S. P. 1017	.....do.....	O	
G 232.....	.....do.....	Pl. 28 D55	21	.....do.....	19.30	.....do.....	.....do.....	O	
G 235.....	.....do.....	.....do.....	10	.....do.....	10.29	.....do.....	.....do.....	O	

G 238.....	Howard.....	.....do.....	9	.....do.....	12.12	.....do.....	.....do.....	.....do.....	.....do.....
G 239.....	W. of Howard.....	.....do.....	8	.....do.....	9.80	.....do.....	.....do.....	.....do.....	.....do.....
G 254.....	S. Miami.....	Pl. 23 E54	19	.....do.....	16.52	.....do.....	.....do.....	.....do.....	.....do.....
G 270.....	W. of Hialeah.....	Pl. 23 D53	4	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 271.....	.....do.....	.....do.....	7	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 272.....	W. of Miami Springs.....	.....do.....	6	Top of casing..	6.38	W. S. P. 1017	.....do.....	.....do.....	.....do.....
G 273.....	.....do.....	.....do.....	6	.....do.....	6.53	.....do.....	.....do.....	.....do.....	.....do.....
G 274.....	W. of Miami Springs.....	Pl. 23 D53	5	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 275.....	W. of Miami.....	.....do.....	5	Top of casing..	6.36	W. S. P. 1017	.....do.....	.....do.....	.....do.....
G 276.....	.....do.....	Pl. 23 C53	7	.....do.....	8.02	.....do.....	.....do.....	.....do.....	.....do.....
G 277.....	S. of Peters.....	Pl. 23 D56	11	.....do.....	9.87	.....do.....	.....do.....	.....do.....	.....do.....
G 282.....	W. of Perers.....	Pl. 23 C56	13	.....do.....	11.83	.....do.....	.....do.....	.....do.....	.....do.....
G 283.....	E. of Goulds.....	Pl. 23 D56	6	.....do.....	6.88	.....do.....	.....do.....	.....do.....	.....do.....
G 285.....	W. of Homestead.....	Pl. 23 B57	8	.....do.....	8.46	.....do.....	.....do.....	.....do.....	.....do.....
G 348.....	Miami Springs.....	Pl. 22 C4	8	.....do.....	4.20	.....do.....	.....do.....	.....do.....	.....do.....
G 349.....	.....do.....	Pl. 22 B4	8	.....do.....	4.08	.....do.....	.....do.....	.....do.....	.....do.....
G 350.....	Coral Gables.....	Pl. 23 D54	15	.....do.....	9.18	.....do.....	.....do.....	.....do.....	.....do.....
G 351.....	Miami.....	Pl. 21 C7	99	.....do.....	8.11	.....do.....	.....do.....	.....do.....	.....do.....
G 352.....	.....do.....	.....do.....	80	.....do.....	7.37	.....do.....	.....do.....	.....do.....	.....do.....
G 353.....	S. of Miami Springs.....	Pl. 21 B7	65	.....do.....	6.76	.....do.....	.....do.....	.....do.....	.....do.....
G 354.....	Miami Springs.....	Pl. 22 F7	90	.....do.....	8.94	.....do.....	.....do.....	.....do.....	.....do.....
G 355.....	.....do.....	Pl. 22 F6	83	.....do.....	7.29	.....do.....	.....do.....	.....do.....	.....do.....
G 356.....	.....do.....	Pl. 22 G6	91	.....do.....	8.44	.....do.....	.....do.....	.....do.....	.....do.....
G 419.....	N. Miami Beach.....	Pl. 21 F3	96	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 421.....	Miami.....	Pl. 21 D6	98	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 422.....	.....do.....	Pl. 21 D5	98	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 423.....	E. of Kendall.....	Pl. 23 E55	53	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 424.....	.....do.....	.....do.....	96	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 425.....	.....do.....	.....do.....	97	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 426.....	Coral Gables.....	Pl. 21 B10	98	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 428.....	.....do.....	.....do.....	96	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 429.....	N. Miami.....	Pl. 21 D4	99	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 431.....	Coral Gables.....	Pl. 21 B10	100	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....
G 447.....	W. of Kendall.....	Pl. 23 C55	101	.....do.....	11.12	.....do.....	.....do.....	.....do.....	.....do.....
G 448.....	W. of Howard.....	Pl. 23 D55	93	.....do.....	7.68	.....do.....	.....do.....	.....do.....	.....do.....
G 449.....	Rockdale.....	.....do.....	105	.....do.....	13.50	.....do.....	.....do.....	.....do.....	.....do.....
G 450.....	E. of Rockdale.....	.....do.....	104	.....do.....	10.44	.....do.....	.....do.....	.....do.....	.....do.....
G 451.....	Cutler.....	.....do.....	107	.....do.....	12.37	.....do.....	.....do.....	.....do.....	.....do.....
G 469.....	.....do.....	.....do.....	137	.....do.....	11.11	.....do.....	.....do.....	.....do.....	.....do.....
G 471.....	E. of Peters.....	.....do.....	120	.....do.....	13.45	.....do.....	.....do.....	.....do.....	.....do.....

Available<sup>3</sup>

Available<sup>3</sup>

T and O Well log, table 127; pls. 5, 7.  
T and O Do.; table 127; pls. 5, 7, 8.  
T and O Well log, table 127; pls. 5, 8.  
T and O Do.; pls. 5, 7.  
T and O Do.; pls. 5, 7.  
T and O Do.; pls. 5, 7.  
T and O Do.; pls. 5, 7.  
T and O Do.; pls. 5, 7.  
T and O Do.; pls. 5, 9.  
T and O Do.; pls. 5, 7.  
T and O Do.; pls. 5, 7, 9.  
T and O Do.; pls. 5, 6, 8.  
T and O Do.; pls. 5, 8.  
T and O Do.; pls. 5, 8; figs. 207, 208.  
T and O Do.; pls. 5; figs. 207; 208.  
T and O Do.; pls. 5, 7, 8; figs.  
207, 209.  
T and O Do.; pls. 5, 8; figs. 207, 209.  
T and O Do.; pls. 5, 7.

Table 118.—Records of wells in Dade County—Continued

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurement <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
G 472...	E. of Rockdale.....	.....do.....	99	.....do.....	15.96	.....	.....	T and O	Do.; pls. 5, 7; figs. 207, 210.
G 474...	SE. of Peters.....	Pl. 23 D56	108	.....do.....	6.74	.....	.....	T and O	Do.; pls. 5, 7;
G 491....	E. of Homestead.....	Pl. 23 C57	38	.....do.....	.....	.....	.....	T and O	Do.; pls. 5, 8.
G 518....	E. of Princeton.....	Pl. 23 D56	90	.....do.....	.....	.....	.....	T and O	Do.; pls. 5, 7; fig. 210.
G 519....	Silver Bluff.....	Pl. 21, C10	44	.....do.....	.....	.....	Chloride log. fig.	.....	Well log, table 127; figs. 205, 206.
G 525....	Miami.....	Pl. 21 C8	101	Top of casing..	.....	.....	.....	T	Well log, table 127; pls. 5, 7, 9.
G 527....	E. of Homestead.....	Pl. 23 D57	51	.....do.....	.....	.....	.....	T	Do.; pls. 5, 8.
G 548....	Miami Springs.....	Pl. 22 E5	97	.....do.....	6.35	.....	.....	T and O	Do.; pls. 5, 9.
G 551....	W. of Kendall.....	Pl. 23 C54	98	.....do.....	.....	.....	.....	T and O	Do.; and pumping tests, p. 252-258; also, pls. 5, 6; figs. 61-68.
G 552....	W. of Perrine.....	Pl. 23 C55	87	.....do.....	.....	.....	.....	T and O	Do.; and pumping tests, p. 258-262; pls. 5, 6; figs. 61, 69-72.
G 553....	Howard.....	Pl. 23 D55	127	.....do.....	.....	.....	.....	T and O	Do.; and pumping tests, p. 263-268; pls. 5, 8; figs. 61, 73-76.
GS 14....	W. of Miami.....	Pl. 19 E5	51	.....do.....	.....	.....	Available <sup>3</sup>	T	Well log, table 127.
GS 30....	SW. of Florida City.....	Pl. 19 F8	64	.....do.....	.....	.....	.....do.....	T	Do.
S 1....	Miami Springs.....	Pl. 22 D5	61	.....do.....	.....	.....	.....do.....	PS	Cross section, fig. 57; test data, figs. 58-60.
S 1A....	.....do.....	.....do.....	12	Top of casing..	8.31	W. S. P. 1017	.....	O	Do.
S 2....	.....do.....	Pl. 22 C6	96	.....do.....	.....	.....	Available <sup>3</sup>	PS	.....
S 2A....	.....do.....	.....do.....	12	Top of casing..	8.45	W. S. P. 1017	.....	O	.....
S 3....	.....do.....	Pl. 22 C5	62	.....do.....	.....	.....	Available <sup>3</sup>	PS	.....
S 3A....	.....do.....	.....do.....	14	Top of casing..	8.43	W. S. P. 1017	.....	O	.....
S 4....	.....do.....	Pl. 21 D5	94	.....do.....	.....	.....	Available <sup>3</sup>	PS	.....
S 4A....	.....do.....	.....do.....	11	Top of casing..	8.43	W. S. P. 1017	.....	O	.....
S 5....	.....do.....	Pl. 22 C5	100	.....do.....	.....	.....	Available <sup>3</sup>	PS	.....
S 5A....	.....do.....	.....do.....	17	Top of casing..	8.42	W. S. P. 1017	.....	O	.....
S 6....	.....do.....	Pl. 22 B5	62	.....do.....	.....	.....	Available <sup>3</sup>	PS	.....

S 6A	do	do	12	Top of casing	8.48	W. S. P. 1017	Available <sup>3</sup>	O
S 7	do	Pl. 22 B6	62	do	do	do	Available <sup>3</sup>	PS
S 7A	do	do	12	Top of casing	8.46	W. S. P. 1017	Available <sup>3</sup>	O
S 8	do	Pl. 22 C6	64	do	do	do	Available <sup>3</sup>	PS
S 8A	do	do	10	Top of casing	8.42	W. S. P. 1017	Available <sup>3</sup>	O
S 11	do	Pl. 22 D3	91	do	do	do	Available <sup>3</sup>	PS
S 12	Miami Springs	Pl. 22 D3	90	do	do	do	Available <sup>3</sup>	PS
S 13	do	do	55	do	do	do	do	PS
S 14	do	Pl. 2 C3	73	do	do	do	do	PS
S 14A	do	do	11	Top of casing	8.41	W. S. P. 1017	Available <sup>3</sup>	O
S 15	do	do	85	do	do	do	Available <sup>3</sup>	PS
S 15A	do	do	11	Top of casing	8.42	W. S. P. 1017	Available <sup>3</sup>	O
S 16	do	Pl. 22 B3	90	do	do	do	Available <sup>3</sup>	PS
S 16 A	do	do	11	Top of casing	8.41	W. S. P. 1017	Available <sup>3</sup>	O
S 17	do	Pl. 22 C3	87	do	do	do	Available <sup>3</sup>	PS
S 17A	do	do	10	Top of casing	8.45	W. S. P. 1017	do	O
S 18	N. of Opa Locka	Pl. 21 C3	52	do	10.12	do	do	O
S 19	Miami Springs	Pl. 22 B6	95	do	8.44	do	do	O
S 23	Miami	Pl. 21 C6	64	do	do	do	Available <sup>3</sup>	SP
S 35	do	Pl. 21 C7	51	do	do	do	do	Irr.
S 52	do	Pl. 21 E6	60	do	do	do	do	Ind.
S 58	N. Miami Beach	Pl. 21 F3	36	Top of casing	13.16	do	do	U
S 63	Pennsuo	Pl. 23 D52	37	do	8.78	W. S. P. 1017	do	U
S 68	Miami Springs	Pl. 22 D5	61	do	9.75	do	do	O
S 70	Miami	Pl. 21 D8	100	do	14.69	do	Available <sup>3</sup>	U
S 72	do	do	32	do	do	do	do	Ind.
S 73	do	do	37	do	do	do	do	Ind.
S 84	do	Pl. 21 D7	40	Top of casing	17.50	W. S. P. 1017	do	U
S 89	do	Pl. 21 D5	50	do	do	do	Available <sup>3</sup>	Dom.
S 112	do	Pl. 21 D8	90	do	do	do	do	Ind.
S 125	do	do	1,088	do	do	do	do	Ind.
S 142	do	do	1,165	do	do	do	do	U
S 144	do	Pl. 21 D9	1,000	do	do	do	Available <sup>3</sup>	U
S 145	do	do	63	do	do	do	do	Irr.
S 150	do	Pl. 21 C10	66	do	do	do	do	Irr.
S 153	do	Pl. 21 D9	50	do	do	do	do	Ind.
S 155	Miami Beach	Pl. 21 E8	1,000	do	do	do	do	Ind.
S 158	do	Pl. 21 F8	1,066	do	do	do	do	PS

Graph, fig 54, hydrograph, fig. 40.  
Do.

Graph, fig. 54; cross section,  
fig. 57; chloride graph,  
fig. 192.

Flowing artesian well.  
Do.  
Do.

Flowing artesian well.  
Do.

WELL RECORDS

Table 118.—Records of wells in Dade County— Continued

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
S 160.....	.....do.....	Pl. 21 F6	1,000	.....do.....	.....do.....	.....do.....	.....do.....	U	Do.
S 161.....	Kendall.....	Pl. 23 D55	5,432	.....do.....	.....do.....	.....do.....	.....do.....	T	Abandoned PS well; isochlorograph, fig. 199, Hydrograph, fig. 39, 51, 53.
S 171.....	Miami.....	Pl. 21 B10	40	Top of casing..	4.62	W. S. P. 1017	.....do.....	O	
S 182.....	Peters.....	Pl. 23 D56	51	.....do.....	13.94	.....do.....	.....do.....	O	
S 183.....	W. of Kendall.....	Pl. 28 D55	15	Top of pitcher pump.	16.96	.....do.....	.....do.....	U Dom.	Top of concrete cover. Do. Do.
S 185.....	W. of Peters.....	Pl. 23 C56	14	See remarks..	10.71	.....do.....	.....do.....	Irr.	
S 186.....	W. of Goulds.....	Pl. 23 B56	15	.....do.....	8.72	.....do.....	.....do.....	Irr.	
S 187.....	N. of Homestead.....	.....do.....	17	.....do.....	9.08	.....do.....	.....do.....	Irr. and Dom.	Do.
S 188.....	.....do.....	Pl. 23 B57	14	.....do.....	10.92	.....do.....	.....do.....	Dom.	Top of concrete cover. Do.
S 189.....	.....do.....	Pl. 23 B56	18	Lip of elbow..	13.05	.....do.....	.....do.....	Irr.	
S 191.....	W. of Princeton.....	Pl. 23 C56	20	See remarks..	9.41	.....do.....	.....do.....	Irr.	
S 194.....	Homestead.....	Pl. 23 C57	62	.....do.....	.....do.....	.....do.....	Available <sup>3</sup>	PS	Hydrograph, fig. 41.
S 196.....	N. of Homestead.....	Pl. 23 B56	20	Top of casing	10.32	W. S. P. 1017	.....do.....	O	
S 233.....	N. Miami Beach.....	Pl. 21 E1	9	.....do.....	7.13	.....do.....	.....do.....	O	
S 278.....	.....do.....	Pl. 21 F3	80	.....do.....	.....do.....	.....do.....	Available <sup>3</sup>	PS	Do.
S 290.....	W. of N. Miami Beach..	Pl. 21 C2	84	Lip of elbow	19.21	W. S. P. 1017	.....do.....	U	
S 301.....	Biscayne Park.....	Pl. 21 E5	100	.....do.....	.....do.....	.....do.....	Available <sup>3</sup>	Dom.	
S 304.....	N. Miami Beach.....	Pl. 21 E3	60	.....do.....	.....do.....	.....do.....	.....do.....	APS	Top of concrete cover.
S 375.....	Miami.....	Pl. 21 D6	54	.....do.....	.....do.....	.....do.....	.....do.....	PS	
S 381.....	N. Miami Beach.....	Pl. 21 F2	116	.....do.....	.....do.....	.....do.....	.....do.....	PS	
S 384.....	N. Miami.....	Pl. 21 D4	63	.....do.....	.....do.....	.....do.....	.....do.....	Irr.	Do.
S 450.....	W. of Miami.....	Pl. 19 E6	1,280	.....do.....	.....do.....	.....do.....	.....do.....	T	
S 480.....	E. of Homestead.....	Pl. 23 C57	57	.....do.....	.....do.....	.....do.....	.....do.....	Dom.	
S 481.....	Modello.....	.....do.....	53	.....do.....	.....do.....	.....do.....	.....do.....	PS	Do.
S 539.....	Chapman Field.....	Pl. 23 D55	29	Top of casing..	17.27	.....do.....	.....do.....	O	

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.<sup>2</sup>Dom., domestic; F, fire; O, observation; T, test; PS, public supply; SP, swimming pool; Irr, irrigation; Ind, industrial; U, unused; APS, abandoned public supply.<sup>3</sup>Section on "Quality of ground and surface water".

Table 119.—Records of wells in Glades County

[See plate 19]

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
GL 3	NW. of Clewiston	Pl. 19, E3	92	.....	.....	.....	Available <sup>3</sup>	Dom.	
GL 4	.....do.....	.....do.....	80	.....	.....	.....	.....do.....	Dom.	
GL 6	Lakeport	Pl. 19, E2	22	.....	.....	.....	.....do.....	S	
GL 7	.....do.....	.....do.....	18	.....	.....	.....	.....do.....	Dom.	
GL 8	Moore Haven	Pl. 19, E3	104	.....	.....	.....	.....do.....	U	
GL 9	.....do.....	.....do.....	52	.....	.....	.....	.....do.....	Dom.	
GL 10	SE. of Moore Haven	.....do.....	85	.....	.....	.....	.....do.....	Dom.	
GL 11	W. of Clewiston	.....do.....	102	.....	.....	.....	.....do.....	Dom.	
GL 12	N. of Lakeport	Pl. 19, E2	120	.....	.....	.....	.....do.....	Dom.	
GL 13	.....do.....	.....do.....	48	.....	.....	.....	.....do.....	S	
GL 14	NE. of Lakeport	.....do.....	35	.....	.....	.....	.....do.....	Dom.	
GL 15	Lakeport	.....do.....	25	.....	.....	.....	.....do.....	Dom.	
GL 16	S. of Lakeport	.....do.....	25	.....	.....	.....	.....do.....	Dom.	
GL 17	Moore Haven	Pl. 19, E3	18	.....	.....	.....	.....do.....	Dom.	
GL 18	E. of Moore Haven	.....do.....	30	.....	.....	.....	.....do.....	Dom.	
GL 19	.....do.....	.....do.....	30	.....	.....	.....	.....do.....	Dom.	
GL 20	Moore Haven	.....do.....	28	.....	.....	.....	.....do.....	PS	
GS 18	NE. of Lakeport	Pl. 19, E2	75	.....	.....	.....	.....do.....	T	Well log, table 128
GS 28	Moore Haven	Pl. 19, E3	63	.....	.....	.....	.....do.....	T	Do.
GS 29	.....do.....	Pl. 19, E2	75	.....	.....	.....	.....do.....	T	Do.

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.<sup>2</sup>Dom., domestic; S, stock; U, unused; PS, public supply; T, test.<sup>3</sup>Section on "Quality of ground and surface water."

Table 120.—Records of wells in Hendry County

[See plate 19]

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
GS 4	W. of Clewiston	Pl. 19, E3	50	.....	.....	.....	Available <sup>3</sup>	T	Well log, table 129
GS 5	.....do.....	.....do.....	50	.....	.....	.....	.....do.....	T	Do.
HE 2	La Belle	Pl. 19, D3	650	.....	.....	.....	.....do.....	Dom.	
HE 3	Indian Reservation	Pl. 19, E4	12	Top of casing	.....	W. S. P. 1017	.....	O	Well no. G 138 in W. S. P. 1017
HE 4	W. of Clewiston	Pl. 19, E3	107	.....	.....	.....	Available <sup>3</sup>	S	Well log, table 129
HE 5	.....do.....	.....do.....	6	Top of casing	.....	W. S. P. 1017	.....	O	Well no. G 299 in W. S. P. 1017
HE 7	Bare Beach	.....do.....	70	.....	.....	.....	Available <sup>3</sup>	Dom.	
HE 10	Clewiston	.....do.....	87	.....	.....	.....	.....do.....	Dom.	
HE 11	Hooker's Point	.....do.....	56	.....	.....	.....	.....do.....	Dom.	
HE 12	Clewiston	.....do.....	107	.....	.....	.....	.....do.....	Dom.	
HE 13	W. of Clewiston	.....do.....	34	.....	.....	.....	.....do.....	Dom.	
HE 14	.....do.....	.....do.....	315	.....	.....	.....	.....do.....	PS	
HE 15	.....do.....	.....do.....	130	.....	.....	.....	.....do.....	Dom.	
HE 16	Clewiston	.....do.....	114	.....	.....	.....	.....do.....	U	
HE 18	.....do.....	.....do.....	110	.....	.....	.....	.....do.....	Ind.	

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.<sup>2</sup>T, test; Dom, domestic; O, observation; S, stock; PS, public supply; U, unused; Ind, industrial.<sup>3</sup>Section on "Quality of ground and surface water."



Table 121.—Records of wells in Highlands County  
[See plate 19]

Well no.	General location	Map location (pl. and no.)	Depth (feet)	Measuring point	Elevation (measuring point re- ferred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
GS 20	SE. of Childs	Pl. 19, D1	125	.....	.....	.....	Available <sup>3</sup>	T	Well log, table 130
GS 21	Lake Istokpoga	.....do.....	65	.....	.....	.....	.....do.....	T	Do.
GS 22	Ft. Bassinger	Pl. 19, E1	101	.....	.....	.....	.....do.....	T	Do.

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.

<sup>2</sup>T, test.

<sup>3</sup>Section on "Quality of ground and surface water."

Table 122.—Records of wells in Martin County

[See plate 19]

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
GS 23	S. of Indian Town	Pl. 19, C2	91	.....	.....	.....	Available <sup>3</sup>	T	Well log, table 131
M 8	Port Mayaca	Pl. 19, F2	30	.....	.....	.....	.....do.....	Irr.	
M 9	.....do.....	.....do.....	27	.....	.....	.....	.....do.....	U	
M 11	NW. of Indian Town	.....do.....	40	.....	.....	.....	.....do.....	Dom.	
M 12	Hobe Sound	Pl. 19, H2	117	.....	.....	.....	.....do.....	PS	Well log, table 131
M 15	NW. of Indian Town	Pl. 19, F2	40	.....	.....	.....	.....do.....	S	
M 16	Port Mayaca	.....do.....	48	.....	.....	.....	.....do.....	Dom.	
M 17	.....do.....	.....do.....	32	.....	.....	.....	.....do.....	Dom.	

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.<sup>2</sup>T, test; Irr, irrigation; U, unused; Dom, domestic; PS, public supply; S, stock.<sup>3</sup>Section on "Quality of ground and surface water."

Table 123.—Records of wells in Okeechobee County

[See plate 19]

Well no.	General location	Map location	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
GS 16	Fort Drum	Pl. 19, F1	90	.....	.....	.....	Available <sup>3</sup>	T	Well log, table 132
GS 17	S. of Okeechobee	Pl. 19, E1	131	.....	.....	.....	.....do.....	T	Do.
GS 19	SE. of Okeechobee	Pl. 19; F2	49	.....	.....	.....	.....do.....	T	Do.
OK 1	Okeechobee	Pl. 19, F1	1718	.....	.....	.....	.....do.....	U	
OK 7	.....do.....	.....do.....	.....	.....	.....	.....	.....do.....	Dom.	
OK 8	S. of Okeechobee	.....do.....	75	.....	.....	.....	.....do.....	Dom.	
OK 9	.....do.....	.....do.....	48	.....	.....	.....	.....do.....	Dom.	
OK 10	SE. of Okeechobee	.....do.....	100	.....	.....	.....	.....do.....	Dom.	
OK 11	.....do.....	.....do.....	57	.....	.....	.....	.....do.....	S	
OK 12	.....do.....	Pl. 19, F2	105	.....	.....	.....	.....do.....	Dom.	
OK 13	SW. of Okeechobee	Pl. 19, E1	65	.....	.....	.....	.....do.....	Dom.	
OK 14	N. of Okeechobee	.....do.....	80	.....	.....	.....	.....do.....	Dom.	
OK 15	.....do.....	Pl. 19, F1	95	.....	.....	.....	.....do.....	Dom.	
OK 16	NW. of Okeechobee	Pl. 19, E1	996	.....	.....	.....	.....do.....	S	

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.<sup>2</sup>T, test; U, unused; Dom, domestic; S, stock.<sup>3</sup>Section on "Quality of ground and surface water."

Table 124.—Records of wells in Palm Beach County

[See plates 19 and 24]

Well no.	General location	Map location (pl. and no.)	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
G 300	Loxahatchee	Pl. 19, G3	8	Top of casing	.....	W. S. P. 1017	.....	O	
G 303	NW. of Boynton	Pl. 24, C5	11	do.....	.....	do.....	.....	O	
G 309	NW. of Lake Worth	Pl. 24, C3	7	do.....	16.18	do.....	.....	O	
GS 2	NW. of Ft. Lauderdale	Pl. 19, F4	50	.....	.....	.....	Available <sup>3</sup>	T	Well log, table 133
GS 3	Bean City	Pl. 19, F3	50	.....	.....	.....	do.....	T	Do.
GS 6	S. of Belle Glade	Pl. 19, G3	55	.....	.....	.....	do.....	T	Do.
GS 7	E. of Belle Glade	do.....	50	.....	.....	.....	do.....	T	Do.
GS 8	W. of W. Palm Beach	Pl. 24, A2	51	.....	.....	.....	do.....	T	Do.
GS 11	W. of Deerfield Beach	Pl. 19, G4	97	.....	.....	.....	do.....	T	Do.
GS 12	do.....	do.....	50	.....	.....	.....	do.....	T	Do.
GS 24	N. of Canal Point	Pl. 19, F2	61	.....	.....	.....	do.....	T	Do.
GS 25	S. of Pahokee	Pl. 19, F3	45	.....	.....	.....	do.....	T	Do.
GS 26	Kramer Island	do.....	91	.....	.....	.....	do.....	T	Do.
GS 27	W. of Lake Harbor	Pl. 19, E3	56	.....	.....	.....	do.....	T	Do.
PB 88	Lake Worth	Pl. 24, D4	16	Top of casing	15.94	W. S. P. 1017	.....	O	
PB 93	do.....	do.....	.....	.....	.....	.....	Available <sup>3</sup>	T	Well log, table 133
S 350	Lake Harbor	Pl. 19, E3	66	.....	.....	.....	do.....	Dom.	Do.
S 352	Belle Glade	Pl. 19, F3	35	.....	.....	.....	do.....	Dom.	
S 353	do.....	do.....	1,332	Top of casing	18.00	W. S. P. 773-C	do.....	U	Well No. 10, W. S. P. 773-C
S 355	do.....	do.....	47	.....	.....	.....	do.....	Ind.	
S 356	do.....	do.....	47	.....	.....	.....	do.....	Ind.	
S 358	Ritta Village	do.....	36	.....	.....	.....	do.....	Dom.	
S 359	Lake Worth	Pl. 24, D4	135	.....	.....	.....	do.....	PS	
S 360	Boca Raton	Pl. 24, C10	104	.....	.....	.....	do.....	PS	
S 361	Lantana	Pl. 24, D4	65	.....	.....	.....	do.....	PS	
S 382	W. Palm Beach	Pl. 24, D1	1,080	.....	.....	.....	do.....	Ind.	Flowing artesian well.
S 383	do.....	Pl. 24, D2	1,050	Top of -inch valve	18.00	W. S. P. 773-C	do.....	Ind.	Well No. 4, W. S. P. 773-C
S 394	Delray Beach	Pl. 24, D7	216	.....	.....	.....	.....	T	Well log, table 133; fig 15
S 1000- 1002	Boynton	Pl. 24, D6	57	.....	.....	.....	Available <sup>3</sup>	PS	
S 1003- 1008	Delray Beach	Pl. 24, D7	68	.....	.....	.....	do.....	PS	
S 1009	Riviera	Pl. 19, H3	165	.....	.....	.....	do.....	PS	

S 1011	N. of Boca Raton	Pl. 24, C9	25			do	Dom.
S 1012	W. of Boca Raton	Pl. 24, B9	150			do	Dom.
S 1018	do	Pl. 24, A8	84			do	Irr.
S 1020	do	do	25			do	Irr.
S 1025	S. of Delray Beach	Pl. 24, C8	67			do	Dom.
S 1026	do	do	20			do	S
S 1027	do	Pl. 24, D8	20			do	Irr.
S 1028	W. of Delray Beach	Pl. 24, C7				do	Dom.
S 1030	do	do	30			do	Dom.
S 1037	S. of Delray Beach	Pl. 24, D8	80			do	Dom.
S 1038	do	do	55			do	Dom.
S 1039	W. of Delray Beach	Pl. 24, C7	111			do	Dom.
S 1041	do	Pl. 24, B7	35			do	Dom.
S 1042	do	do	120	Top of casing	W. S. P. 1017	do	O
S 1050	do	do	20			Available <sup>s</sup>	Dom.
S 1053	do	Pl. 24, A7	20			do	Dom.
S 1056	NW. of Delray Beach	Pl. 24, C7	38			do	Dom.
S 1059	do	Pl. 24, C6	40			do	Dom.
S 1063	W. of Boynton	do	100			do	Dom.
S 1065	do	do	25			do	Dom.
S 1066	S. of Boynton	Pl. 24, D6	50			do	Dom.
S 1067	do	do	50			do	Dom.
S 1069	N. of Delray	Pl. 24, D7	42			do	Dom.
S 1071	do	Pl. 24, D6	20			do	Dom.
S 1073	W. of Lantana	Pl. 24, A4	7			do	Dom.
S 1074	do	Pl. 24, B4	11			do	Dom.
S 1078	do	Pl. 24, C5	25			do	Dom.
S 1080	W. of Lake Worth	Pl. 24, C4	75			do	Dom.
S 1083	do	do	43			do	Dom.
S 1085	do	Pl. 24, B4	40			do	Dom.
S 1088	do	Pl. 24, C4	36			do	Dom.
S 1090	do	do	204			do	Dom.
S 1091	do	Pl. 24, C3	28			do	Dom.
S 1093	do	Pl. 24, A4	35			do	Dom.
S 1096	NW. of Lake Worth	Pl. 24, A3	28			do	Dom.
S 1099	W. of Lake Worth	Pl. 24, C3	49			do	Dom.
S 1100	W. of Boynton	Pl. 24, A5	80			do	Dom.
S 1101	do	do	20			do	Dom.
S 1102	do	do	80			do	Dom.
S 1104	do	do	15			do	Dom.
S 1105	do	Pl. 24, D6	82			do	Dom.
S 1106	do	Pl. 24, C6	68			do	Dom.
S 1108	do	Pl. 24, A6	90			do	Dom.
S 1110	do	Pl. 24, C5	35			do	Dom.

Table 124.—Records of wells in Palm Beach County—Continued

Well no. A	General location	Map location (pl. and no.)	Depth (feet)	Measuring point	Elevation (measuring point re- ferred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
S 1114	S. of Boynton	Pl. 24, D6	60	.....	.....	.....	do.....	Dom.	
S 1115	W. of Lake Worth	Pl. 24, C4	32	.....	.....	.....	do.....	Dom.	
S 1116	NW. of Lake Worth	Pl. 24, C3	75	.....	.....	.....	do.....	Dom.	
S 1118	W. of W. Palm Beach	Pl. 24, C2	68	.....	.....	.....	do.....	Dom.	
S 1119	.....do.....	.....	28	.....	.....	.....	do.....	Dom.	
S 1125	.....do.....	Pl. 24, B2	65	.....	.....	.....	do.....	Dom.	
S 1126	.....do.....	.....do.....	61	.....	.....	.....	do.....	Dom.	
S 1130	.....do.....	.....do.....	40	.....	.....	.....	do.....	Dom.	
S 1131	.....do.....	Pl. 24, C2	57	.....	.....	.....	do.....	Dom.	
S 1132	.....do.....	.....do.....	50	.....	.....	.....	do.....	Dom.	
S 1134	.....do.....	.....do.....	45	.....	.....	.....	do.....	Dom.	
S 1135	W. Palm Beach	Pl. 24, D2	49	.....	.....	.....	do.....	Dom.	
S 1141	Lake Park	Pl. 19, H3	50	.....	.....	.....	do.....	PS	
S 1144	Lake Worth	Pl. 24, D3	59	.....	.....	.....	do.....	PS	
S 1148	N. of Lake Park	Pl. 19, H2	28	.....	.....	.....	do.....	Dom.	
S 1152	W. of Jupiter	Pl. 19, G2	35	.....	.....	.....	do.....	Dom.	
S 1156	.....do.....	Pl. 19, H2	20	.....	.....	.....	do.....	Dom.	
S 1159	N. of Lake Park	.....do.....	182	.....	.....	.....	do.....	irr.	
S 1163	.....do.....	Pl. 19, H3	40	.....	.....	.....	do.....	Dom.	
S 1170	W. Palm Beach	Pl. 24, D1	.....	.....	.....	.....	do.....	Ind.	
S 1171	.....do.....	.....do.....	70	.....	.....	.....	do.....	Ind.	
S 1172	.....do.....	.....do.....	85	.....	.....	.....	do.....	Ind.	
S 1173	.....do.....	.....do.....	116	.....	.....	.....	do.....	Ind.	
S 1176	W. of W. Palm Beach	Pl. 24, C2	100	.....	.....	.....	do.....	Ind.	
S 1177	W. Palm Beach	Pl. 24, D2	84	.....	.....	.....	do.....	Ind.	
S 1183	.....do.....	Pl. 24, D1	85	.....	.....	.....	do.....	Ind.	
S 1184	.....do.....	.....do.....	1,035	.....	.....	.....	do.....	Ind.	Flowing artesian well.
S 1185	.....do.....	.....do.....	30	.....	.....	.....	do.....	Ind.	
S 1186	.....do.....	.....do.....	64	.....	.....	.....	do.....	Ind.	
S 1188	Canal Point	Pl. 19, F3	20	.....	.....	.....	do.....	Ind.	
S 1189	S. of Pahokee	.....do.....	18	.....	.....	.....	do.....	Ind.	
S 1190	E. of Belle Glade	.....do.....	45	.....	.....	.....	do.....	Ind.	
S 1201	N. of Port Mayaca	Pl. 19, F2	14	.....	.....	.....	do.....	Ind.	
S 1202	N. of Canal Point	.....do.....	20	.....	.....	.....	do.....		
S 1203	.....do.....	.....do.....	13	.....	.....	.....	do.....		
S 1204	.....do.....	.....do.....	22	.....	.....	.....	do.....		

S1205	.....do.....	.....do.....	20	.....	.....	.....	.....do.....	Ind.
S1208	S. of Belle Glade	Pl. 19, F3	60	.....	.....	.....	.....do.....	Dom.
S1209	Torry Island	.....do.....	13	.....	.....	.....	.....do.....	S
S1210	N. of Belle Glade	.....do.....	20	.....	.....	.....	.....do.....	Dom.
S1211	S. Bay	.....do.....	20	.....	.....	.....	.....do.....	Dom.
S1212	S. of Bean City	.....do.....	.....	.....	.....	.....	.....do.....	Dom.
S1215	Lake Harbor	.....do.....	31	.....	.....	.....	.....do.....	Dom.
S1216	.....do.....	.....do.....	20	.....	.....	.....	.....do.....	Dom.
S1245	Loxahatchee	Pl. 19, G3	44	.....	.....	.....	.....do.....	Ind.
S1246	.....do.....	.....do.....	126	.....	.....	.....	.....do.....	PS
S1247	.....do.....	.....do.....	19	.....	.....	.....	.....do.....	PS

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.

<sup>2</sup>O, observation; T, test; Dom, domestic; U, unused; Ind, industrial; PS, public supply; Irr, irrigation; S, stock.

<sup>3</sup>Section on "Quality of ground and surface water."

Table 125.—Record of well in St. Lucie County

[See plate 19]

Well no.	General location	Map location (pl. and no.)	Depth (feet)	Measuring point	Elevation (measuring point referred to m. s. l.)	Water-level measurements <sup>1</sup>	Chemical analyses	Use <sup>2</sup>	Remarks
St. L. 4	Ft Pierce	Pl. 19, G1	130	Top of casing	27.09	.....	.....	T and O	Well log, table 134

<sup>1</sup>U. S. Geol. Survey Water-Supply Paper.<sup>2</sup>T, test; O, observation.



## WELL LOGS

Table 126.—*Logs of wells in Broward County*

### Well G 184

Location: Sec. 14, T. 51 S., R. 40 E., 7 miles west of Florida, on route 7, Hollywood Boulevard.

Elevation of land surface: 9 ft above mean sea level.

Depth: 300 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 — 5
Muck and peat.....	5 — 9
Sand, quartz, gray-white.....	9 — 10
Limestone, cream-colored, oolitic (Miami oolite), fossiliferous. Contains sand in solution cavities.....	10 — 30
Sandstone, calcareous, and sandy limestone with occasional layers or pockets of fine white quartz sand. High permeability to 35 ft.....	30 — 69
Sand, quartz, white, fine. Low permeability.....	69 — 79
Sandstone, grayish-brown, calcareous, with considerable quantities of fine white quartz sand in places. High permeability from 106 to 115 ft.....	79 — 130
Sandstone, calcareous, shelly, gritty, probably a consolidated sandy shell marl. Color becomes greenish at 135 ft and permeability becomes low.....	130 — 161
Sandstone, gray to green, calcareous, with occasional layers of soft clayey, silty, and sandy marl. Very low permeability.....	161 — 190
Sandstone, dark-gray, calcareous, fossiliferous, Low permeability.....	190 — 195
Marl, dark-green, sandy, shelly in places. Practically impermeable.....	195 — 243
Sand, quartz, green, fine, marly and shelly in places. The green material is a colloidal carbonate.....	243 — 300

### Well G 190

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 35, T. 47 S., R. 38 E., 12.2 miles north of 20-Mile Bend in North New River Canal, on Florida Highway 25.

Elevation of land surface: 10.6 ft above mean sea level.

Depth: 225 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 — 3
Muck and peat above; a thin layer of sand and fresh-water gray marl at base..	3 — 7
Limestone, gray, dense, hard, of fresh-water origin. Relatively impermeable..	7 — 8
Limestone and marl, gray, contains fresh- and brackish-water shells. Rel- atively impermeable.....	8 — 10
Shell marl, gray, sandy. Low permeability.....	10 — 11

Table 126.—*Logs of wells in Broward County*—Continued

## Well G 190—Continued

	<i>Depth, in feet below land surface</i>
Limestone, gray, with marl and shells; marine. Low permeability.....	11 — 17
Limestone, gray, hard, with nonmarine shells. Low permeability.....	17 — 20
Limestone, gray, with marine shells; probably an indurated shell marl. Pumping test shows permeability to be fairly low.....	20 — 24
Shell marl, gray, indurated in places to make a hard rock; includes a few thin layers of sand. Low permeability.....	24 — 29
Sandstone, gray, shelly, calcareous, or an indurated sandy shell marl. Low permeability generally; thin permeable section at 38 ft.....	29 — 50
Sand, gray, medium to coarse, includes many shell fragments.....	50 — 52
Sandstone, gray, shelly, calcareous, with some quartz sand.....	52 — 62
Shell bed. Shells are perfectly preserved, uncemented, and the sample contains little sand. This should have been very permeable, but contained little water. May have been a shell lens sealed off by adjacent relatively impermeable materials.....	62 — 68
Shell marl, indurated. Low permeability.....	68 — 81
Marl, greenish-gray, sandy, shelly. Very low permeability.....	81 — 99
Sandstone, dark-gray, coarse-textured, shelly in places, with beds of sand intercalated throughout the interval. Generally of low permeability; thin permeable sections were found at 155 and 181 ft.....	99 — 181
Shell marl, greenish-gray, and greenish, sandy. Shell content ranges from about 95 percent at top to about 50 percent at base. Low permeability.....	181 — 198
Marl, greenish-gray, sandy, becoming silty and shelly toward base. Low permeability.....	198 — 217
Marl, greenish-gray, silty. Very low permeability.....	217 — 225

## Well G 191

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 27, T. 50 S., R. 39 E. On Florida Highway 25 at South New River Canal.

Elevation of land surface: 6.8 ft above mean sea level.

Depth : 204 ft.

Diameter: 6 in.

	<i>Depth in feet below land surface</i>
Spill.....	0 — 5
Muck and marl.....	5 — 8
Limestone, brownish-gray, very hard and dense. Slight permeability due to solution holes.....	8 — 20
Sandstone, gray, calcareous, with sand and shells. The sand probably occurs in solution holes in the limestone. Low permeability.....	20 — 27
Sandstone, gray, calcareous, and sandy limestone, with beds and pockets of white, very fine to medium quartz sand. In this interval, between 49 and 74 ft, the permeability was very high.....	27 — 80
Shell marl, green to gray, sandy at top becoming silty at base. Very low permeability.....	80 — 184
Marl, green, clayey, sandy, very fine. Practically impermeable.....	184 — 204

Table 126.—Logs of wells in Broward County—Continued

## Well G 219

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 33, T. 51 S., R. 39 E. On Dade-Broward Levee at Miami Canal.

Elevation of land surface: 7.2 ft above mean sea level.

Depth: 205 ft.

Diameter: 6 in.

	Depth, in feet below land surface	
Road fill.....	0	5
Peat and muck.....	5	9
Limestone, dark to light, sandy, dense, very hard. Probably altered by secondary processes of solution and redeposition.....	9	16
Limestone, white to cream, hard, dense, breaks semiconchoidally. Solution holes give this rock a high permeability. Sand pockets near base.....	16	30
Sandstone, white, calcareous, and white sandy limestone with lenses or pockets of very fine to fine white quartz sand; few shells. Medium permeability.....	30	43
Sand, white, quartz, very fine to medium. Low permeability.....	43	48
Sandstone, white, calcareous, porous.....	48	50
Limestone, tan, sandy, hard.....	50	52
Sandstone, white, calcareous, with very fine to medium, white quartz sand in pockets or thin lenses. Medium permeability.....	52	70
Shell marl, dark-gray, very sandy. Low permeability.....	70	86
Sand, greenish, shelly, with thin layers of green sandy, clayey marl. Low permeability.....	86	101
Sand, green, silty and clayey; few shells. Low permeability.....	101	117
Shell marl, green, sandy, silty. Very low permeability.....	117	121
Sandstone, gray, calcareous, shelly, probably a consolidated sandy shell marl. Low permeability.....	121	139
Limestone, gray-white, sandy, with numerous phosphate grains. Low permeability.....	139	143
Sandstone, gray, calcareous, with streaks of soft gray-white sandy marl; also, few thin layers of green sandstone. Low permeability.....	143	158
Sandstone, greenish, calcareous, and quartz sand, containing shells and phosphate grains. Low permeability.....	158	173
Sand, greenish, very fine, with phosphate grains. The green color is due to a colloidal carbonate. Very low permeability.....	173	187
Marl, gray-green, silty, shelly. Practically impermeable.....	187	191
Marl, dark-green, clayey, silty. Practically impermeable.....	191	205

## Well G 220

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 27, T. 49 S., R. 49 E. At 20-Mile Bend in North New River Canal.

Elevation of land surface: 10.6 ft above mean sea level.

Depth: 200 ft.

Diameter: 6 in.

	Depth, in feet below land surface	
Road fill.....	0	4
Peat and muck.....	4	9
Marl, calcareous, gray, of fresh-water origin.....	9	10
Limestone, gray, hard, dense, of fresh-water origin.....	10	12
Sand, quartz, gray-white, containing small immature pelecypod shells.....	12	16

Table 126.—*Logs of wells in Broward County*—Continued

## Well G 220—Continued

	<i>Depth, in feet below land surface</i>
Sandstone, gray-white, calcareous, riddled with solution holes generally filled with white, very fine to medium quartz sand. Medium permeability.....	16 — 38
Sandstone, tan-gray, calcareous, with thin lenses of quartz sand, and with few pieces of white chalky marl. Numerous <i>Pecten</i> s. High permeability.....	38 — 67
Sand, dark-gray, shelly, with thin layers of shelly calcareous sandstone; also, phosphate pebbles as large as 1/4-in. diameter.....	67 — 77
Sand, dark-gray shelly. Low permeability.....	77 — 84
Sand, quartz, dark-greenish-gray, with thin layers of greenish clay, and a large amount of phosphate grains. Low permeability.....	84 — 94
Sand, quartz, green-gray, and calcareous sandstone nodules; also a few thin layers of calcareous sandstone. Low permeability.....	94 — 100
Sand, quartz, white, coarse, with calcareous sandstone nodules.....	100 — 109
Sandstone, calcareous or sandy limestone, with lenses of fine shelly quartz sand. Low permeability.....	109 — 151
Sandstone, gray-green, calcareous, shelly, poorly consolidated. Low permeability.....	151 — 162
Sand, greenish to dark-gray. Low permeability.....	162 — 172
Marl, green, silty and clayey, with occasional shelly quartz sand layers. Very low permeability.....	172 — 184
Marl, green, sandy, with thin lenses of clay. Very low permeability.....	184 — 190
Shell marl, green, sandy. Low permeability.....	190 — 194
Marl, green, clayey and sandy. Practically impermeable.....	194 — 200

## Well G 221

Location: NW¼NW¼ sec. 18, T. 50 S., R. 42 E. On Florida Highway 7, 1.0 mile N. of North New River Canal.

Elevation of land surface: 15.6 ft above mean sea level.

Depth: 330 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Sand, white, quartz, partly filling solution holes in the underlying oolitic limestone.....	0 — 1
Limestone, creamy to tan oolitic (Miami oolite).....	1 — 8
Sand, quartz, tan-brown; color due to iron oxide stain.....	8 — 11
Sand, quartz, black, carbonaceous, very fine to medium.....	11 — 12
Sand, quartz, white, very fine to medium, containing shell fragments and sandstone nodules. Low permeability.....	12 — 28
Sand, quartz, gray, very fine to medium. Low permeability.....	28 — 83
Sand, quartz, and some ochre-colored clayey material. Contains nodular calcareous sandstone, corals, and a few shells. Low permeability.....	83 — 84
Sand, quartz, tan-gray, and sandstone nodules. Low permeability.....	84 — 92
Sand, quartz, gray-white, with fine shell particles. Low permeability.....	92 — 103
Sand, quartz, gray, medium to coarse, and nodular calcareous sandstone. Low permeability.....	103 — 114
Sandstone, light-gray, calcareous, and large quantities of very fine to medium, white quartz sand. The sand apparently fills solution holes. Low permeability.....	114 — 139
Sandstone, light-gray to tan, calcareous, and sandy limestone with lenses and pockets of quartz sand. Medium permeability.....	139 — 199
Sand, tan-gray, and nodular calcareous sandstone. Small amount of shell fragments. Low permeability.....	199 — 228
Sand, greenish-gray, coarse, shelly. Low permeability.....	228 — 238

Table 126.—*Logs of wells in Broward County— Continued*

## Well G 221— Continued

	<i>Depth, in feet below land surface</i>
Sand, grayish-green, marly, partly consolidated in places to a shelly calcareous sandstone. Low permeability.....	238 — 292
Sand, green, marly and clayey. Practically impermeable.....	292 — 330

## Well G 341

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 14, T. 51 S., R. 38 E., 5 miles northwest of Dade-Broward County Line Dam, and 0.3 mile northeast of Miami Canal.

Elevation of land surface: 8.0 ft above mean sea level.

Depth: 34 ft.

Diameter: 1 $\frac{1}{4}$  in.

	<i>Depth, in feet below land surface</i>
Muck and marl.....	0 — 3.5
Limestone, brown-white, very hard to 7 ft, soft and sandy from 7 to 26 ft. Cavity from 26.5 to 28 ft.....	3.5 — 28
Sand, quartz, gray, with small amount of loose sandy limestone.....	28 — 33
Limestone, gray sandy.....	33 — 34

## Well G 512

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 24, T. 50 S., R. 41 E., W. side of Florida Highway 7 on N. bank of North New River Canal.

Elevation of land surface: about 10 ft above mean sea level.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 — 11
Muck, organic, black.....	11 — 14
Limestone, oolitic, creamy to white, with layers of quartz sand.....	14 — 20
Limestone, oolitic, very sandy and soft.....	20 — 28
Oolite, quartz sand, fine. Low permeability.....	28 — 40
Sand, quartz, white to grayish-white, fine-grained.....	40 — 61
Sandstone, calcareous, very hard.....	61 — 70
Sand quartz peppered with colophonane and ilmenite.....	70 — 126
Sandstone, calcareous, alternating with thin beds of quartz sand.....	126 — 140
Limestone.....	140 — 141
Limestone, sandy and quartz sand.....	141 — 142
Cavity. Large yield.....	142 — 144
Gravel lying on a thin layer of limestone.....	144 — 146
Cavity.....	146 — 151
Limestone, sandy with thin layers of quartz sand. Medium permeability.....	151 — 170
Cavity.....	170 — 171
Limestone, very dense.....	171 — 172
Cavity.....	172 — 174
Limestone, very dense.....	174 — 175

Table 126.—*Logs of wells in Broward County—Continued*

## Well G 513

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 14, T. 50 S., R. 41 E., left bank of North New River Canal, 1.1 miles W. of Florida Highway 7.

Elevation of land surface: about 6.4 ft above mean sea level.

	<i>Depth, in feet below land surface</i>	
Spoil.....	0	— 3
Muck, black.....	6	— 10
Limestone, oolitic with alternating hard and soft layers.....	10	— 19
Sand, oolitic with a marine near-shore fauna.....	19	— 24
Sand, quartz, fine-grained, angular; some dark colloidal material at the upper portion of bed. Medium-low permeability.....	24	— 58
Sandstone, calcareous to sandy limestone, light-colored. High permeability.....	58	— 66
Sand, quartz, fine.....	66	— 72
Limestone and calcareous sandstone.....	72	— 93
Sandstone.....	93	— 112
Sandstone, calcareous.....	112	— 118
Sand quartz.....	118	— 122
Limestone, shelly with some quartz sand. Very permeable.....	122	— 129
Marl, white.....	129	— 137
Sandstone, calcareous, shelly. Very permeable.....	137	— 152
Limestone, sandy, dense, grading downward to a fossiliferous sandy marl. Permeable.....	152	— 180
Sand, quartz and sandstone with some yellow-green limestone.....	180	— 220
Clay.....	220	— 224

## Well G 515

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, T. 50 S., R. 41 E., In center of Fort Lauderdale Golf and Country Club, near City well 6.

Elevation of land surface: about 9.0 ft above mean sea level.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, grayish-white.....	0	— 3
Sand, quartz, dark-brown, medium-grained, containing a large amount of organic material. Moderately permeable.....	3	— 31
Sand, quartz, fine-grained.....	31	— 42
Sand, quartz, very fine-grained with some admixed clay. Low permeability.....	42	— 61
Limestone, sandy, cavernous, with some quartz sand. Limestone has weathered appearance. Moderately permeable.....	61	— 68
Limestone, sandy, and quartz sand. Each have peppered appearance due to presence of collophane. Medium to low permeability.....	68	— 94
Sand, quartz, very fine-grained, peppered with collophane and ilmenite. Low permeability.....	94	— 104
Limestone, sandy, and calcareous sandstone, fossiliferous. Very permeable between 107 and 123 ft; low, between 123 and 167 ft.....	104	— 167
Sandstone, calcareous, Permeable.....	167	— 175
Sand, quartz, interbedded with thin layers of clay. Low permeability.....	175	— 204
Marl, clayey, gray-green with thin lenses of quartz sand containing some ilmenite. Very low permeability.....	204	— 211

Table 126.—*Logs of wells in Broward County—Continued*

## Well G 516

Location: NW¼NW¼ sec. 8, T. 50 S., R. 42 E., On Broward Blvd., 1.1 miles E. of Florida Highway 7.

Elevation of land surface: 7.4 ft above mean sea level.

	<i>Depth, in feet below land surface</i>	
Soil.....	0	— 1
Sand, quartz, fine-grained.....	1	— 40
Sand, quartz, with small proportion of blue clay.....	40	— 42
Sand, quartz, white, very fine-grained.....	42	— 50
Sandstone, calcareous.....	50	— 58
Sand, quartz, with some oolitic sandy limestone.....	58	— 65
Limestone, sandy, and calcareous sandstone beds alternating with thin layers of sand. Very permeable except between 102 and 114 ft.....	65	— 114
Sand, quartz, coarse, with some blue clay; relatively impermeable.....	114	— 117
Limestone and quartz sand, some blue clay, low permeability.....	117	— 122
Sand, quartz alternating with thin beds of soft, blue-gray fissile shale; very low permeability.....	122	— 127
Limestone, sandy with few thin layers of quartz sand; some calcareous sandstone concretions; very permeable.....	127	— 168
Limestone, cavernous; very permeable.....	168	— 173
Sandstone, calcareous with thin layers of quartz sand, very permeable.....	173	— 199
Cavity.....	199	— 200

## Well GS 1

Location: SE¼SE¼ sec. 29, T. 48 S., R. 39 E. On Florida Highway 25, 6 miles north of Florida Highway 84.

Elevation of land surface: 8.6 ft above mean sea level.

Depth: 55 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>	
Peat.....	0	— 1
Sandstone, calcareous, of fresh-water origin. Low permeability.....	1	— 2
Marl, sandy, shelly, consolidated in places to a shelly calcareous sandstone. Very low permeability.....	2	— 12.5
Sand, quartz, shelly.....	12.5	— 14
Sand, quartz, fine. Low permeability.....	14	— 23.5
Sand, quartz, fossiliferous. Low permeability.....	23.5	— 40
Marl, dark-gray, shelly and sandy. Very low permeability.....	40	— 55

Table 126.—*Logs of wells in Broward County*—Continued

## Well GS 9

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 36, T. 47 S., R. 41 E. At Florida Highway 7 and Hillsboro Canal.

Elevation of land surface: Approximately 15 ft above mean sea level.

Depth: 52 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, occurring in solution holes of underlying oolitic limestone.....	0 — 3
Limestone, oolitic, riddled with solution holes filled with sand.....	3 — 8
Sand, quartz, very fine. Low permeability.....	8 — 24
Sand, quartz, with thin layers of dark-brown sandy clay marl containing a large amount of carbonaceous material; evidently an ancient mangrove swamp. Low permeability.....	24 — 45
Sand, quartz, white, very fine to coarse. Low permeability.....	45 — 52

## Well GS 10

Location: Sec. 5, T. 49 S., R. 41 E. Approximately 6 miles west of Florida Highway 7, on south side of Cypress Creek Canal.

Elevation of land surface: Approximately 12 ft above mean sea level.

Depth: 50 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Rock fill.....	0 — 2
Muck and fresh-water marl.....	2 — 7
Limestone, sandy, hard; probably of fresh-water origin.....	7 — 9
Sandstone, white, calcareous, hard.....	9 — 10.5
Sand, quartz, and nodular sandstone.....	10.5 — 12
Sandstone, tan, calcareous, and chalky limestone. Low permeability.....	12 — 16.5
Sandstone, calcareous, hard, containing pockets of quartz sand. High permeability.....	16.5 — 21
Sand, quartz.....	21 — 22
Sand, quartz, shelly; very fine to fine. Low permeability.....	22 — 50

## Well GS 13

Location: Sec. 30, T. 50 S., R. 38 E. Northeast side of Miami Canal, 0.25 mile northwest of South New River Canal.

Elevation of land surface: Approximately 11.5 ft above mean sea level.

Depth: 50 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Fill.....	0 — 3.5
Muck.....	3.5 — 4



Table 126.—*Logs of wells in Broward County*—Continued

## Well GS 13—Continued

	<i>Depth, in feet below land surface</i>
Marl, grayish-white.....	4 - 5
Limestone, oolitic.....	5 - 7
Sandstone, tan-gray, calcareous; riddled with solution holes.....	7 - 22
Limestone, gray, hard.....	22 - 25.5
Sand, quartz, and pieces of calcareous sandstone. May be a solution-riddled limestone filled with sand.....	25.5 - 35.5
Limestone, sandy, shelly.....	33.5 - 50

## Well GS 15

Location: T. 46 S., R. 38 E. Approximately 11 miles west of Florida Highway 7 at the Broward-Palm Beach County Line.

Elevation of land surface: Approximately 15 ft above mean sea level.

Depth: 19.5 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Peat.....	0 - 3
Marl, grayish-white, of fresh-water origin.....	3 - 3.5
Limestone and marl, of fresh-water and marine origin.....	3.5 - 11
Sand, quartz containing a few fresh-water shells.....	11 - 13
Limestone, white, sandy, shelly, very hard.....	13 - 19.5

## Well S 427

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 2, T. 51 S., R. 41 E. Davie Air Field, Dania-Davie Road, 1 mile west of Florida Highway 7.

Elevation of land surface: 5.0 ft above mean sea level.

Depth: 103 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, tan to white, medium.....	0 - 51
Sandstone, gray-white, calcareous, containing some sand and shells.....	51 - 56
Sand, quartz, gray-white, and some loose shelly calcareous sandstone.....	56 - 77
Sandstone, grayish-white, calcareous, shelly, containing large amount loose sand.....	77 - 103

Table 126.—*Logs of wells in Broward County—Continued*

## Well S 428

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 2, T. 51 S., R. 41 E. Davie Air Field Dania-Davie Road, 1 mile west of Florida Highway 7.

Elevation of land surface: 5.0 ft above mean sea level.

Depth: 100 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, white, medium.....	0	— 48
Sandstone, gray, calcareous, shelly, and quartz sand.....	48	— 76
Sand, quartz, gray, shelly.....	76	— 82
Sandstone, gray, calcareous, shelly, and some medium to fine quartz sand.....	82	— 100

## Well S 440

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 2, T. 51 S., R. 41 E. Davie Air Field, Dania-Davie Road, 1 mile west of Florida Highway 7.

Elevation of land surface: 5 ft above mean sea level.

Depth: 53 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, white.....	0	— 51
Limestone, coralline, with small amount of sand and shells.....	51	— 53

## Well S 441

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 2, T. 51 S., R. 41 E. Davie Air Field, Dania-Davie Road, 1 mile west of Florida Highway 7.

Elevation of land surface: 5.0 ft above mean sea level.

Depth: 107 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, white, medium to coarse.....	0	— 52
Limestone, gray, with sand containing pieces of chalk and some gray marly sand.....	52	— 53
Sandstone, calcareous, and some sand.....	53	— 58
Sand, quartz, gray. Small amount of loose calcareous sandstone and shells.....	58	— 76
Sandstone, gray, calcareous, shelly, and sand.....	76	— 90
Sand, quartz, gray, coarse, containing shells and nodular calcareous sandstone.....	90	— 107

Table 126.—Logs of wells in Broward County—Continued

## Well S 452

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 26, T. 51 S., R. 41 E. South Perry Air Field, 0.5 mile south of Pembroke Road and 1.0 mile west of Florida Highway 7.

Elevation of land surface: 5 ft above mean sea level.

Depth: 52 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, gray.....	0	- 21
Sandstone, light-brown, calcareous.....	21	- 31
Sand, tan, oolitic.....	31	- 46
Sandstone, brown, calcareous, and some coralline limestone.....	46	- 52

## Well S 454

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 22, T. 51 S., R. 41 E. North Perry Air Field, 0.5 mile north of Pembroke Road and 2.0 miles west of Florida Highway 7.

Elevation of land surface: 5 ft above mean sea level.

Depth: 100 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, white, medium to fine.....	0	- 49
Sandstone, gray, calcareous, soft, and quartz sand with few shells.....	49	- 61
Sand, quartz, gray and poorly cemented calcareous sandstone. Few shell fragments from 93 to 95 ft.....	61	- 95
Sandstone, gray, calcareous, shelly.....	95	- 100

## Well S 455

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 22, T. 51 S., R. 41 E. North Perry Air Field, 0.5 mile north of Pembroke Road and 2.0 miles west of Florida Highway 7.

Elevation of land surface: 5 ft above mean sea level.

Depth: 78 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, gray, medium, with some poorly cemented calcareous sandstone and shell fragments from 49 to 53 ft.....	0	- 53
Sandstone, gray, calcareous, soft, and quartz sand.....	53	- 66
Sand, quartz, gray, medium, with shell fragments.....	66	- 74
Sandstone, calcareous, shelly.....	74	- 78

Table 126.—*Logs of wells in Broward County—*Continued

## Well S 463

Location: SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 22, T. 51 S., R. 41 E. North Perry Air Field, 0.5 mile north of Pembroke Road and 2.0 miles west of Florida Highway 7.

Elevation of land surface: 5 ft above mean sea level.

Depth: 67 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, gray.....	0 — 5
Limestone, oolitic, and quartz sand.....	5 — 20
Sand, quartz, gray, medium to fine, with loose calcareous sandstone and pieces of blue sandy marl between 37 and 48 ft.....	20 — 53
Sand, quartz, and loose calcareous sandstone.....	53 — 65
Limestone, brown, calcareous, hard.....	65 — 67

Table 127.—*Logs of wells in Dade County*

## Well D 196

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 17, T. 54 S., R. 41 E. Southwest corner of Douglas Road and Coral Way, Coral Gables.

Elevation of land surface: 10 ft above mean sea level.

Depth: 225 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Limestone, brownish-white, oolitic, hard to soft.....	0 - 21
Limestone, coralline, very soft.....	21 - 28
Sandstone, brown, calcareous, very hard from 39 to 49 ft.....	28 - 49
Sand, quartz, medium to fine, and pieces of calcareous sandstone.....	49 - 61
Sandstone, calcareous, hard, and coarse quartz sand. Cavity, 61.5 to 63.5 ft	61 - 74
Sand, quartz, gray.....	74 - 93
Limestone, sandy, and fine to very fine white sand.....	93 - 101
Sandstone, gray, calcareous, soft to hard.....	101 - 125
Sand, quartz, grayish-white, medium to fine.....	125 - 129
Sandstone, gray, calcareous, and quartz sand.....	129 - 135
Sand, quartz, grayish-white, fine to very fine.....	135 - 142
Sandstone, gray, calcareous, and quartz sand.....	142 - 149
Sand, quartz, gray, shelly, coarse.....	149 - 168
Marl, green, sandy, shelly. Very low permeability.....	168 - 225

## Well D 350

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 16, T. 54 S., R. 41 E., SW 22 St. and 31st Court, Miami.

Elevation of land surface: about 10.0 ft above mean sea level.

	<i>Depth, in feet below land surface</i>
Limestone oolitic (Miami oolite).....	0 - 7
Sand, tan, and Miami oolite.....	7 - 22
Sand, tan, and Miami oolite.....	22 - 33
Sand, white, and some ground-up sandstone.....	33 - 43
Sand, white to approximately 48.50 ft, then reddish-brown sandstone.....	43 - 49
Sandstone, calcareous, light-gray, and some sand.....	49 - 63
Sandstone, calcareous, brownish, hard.....	63 - 70
Sandstone, light-gray, shelly, soft, tannish-grey, and shell.....	70 - 83
Sandstone, calcareous, light-grey, shelly, soft.....	83 - 93

## Well G 101

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 3, T. 54 S., R. 40 E. On Flagler Street, 3 miles west of Red Road.

Elevation of land surface: 4.9 ft above mean sea level.

Depth: 812 ft.

Diameter: 6 in. to 435 ft and 4 in. to 812 ft.

	<i>Depth, in feet below land surface</i>
Muck.....	0 - 1
Marl, gray, of fresh-water type.....	1 - 2

Table 127.—Logs of wells in Dade County—Continued

## Well G 101—Continued

	<i>Depth, in feet below land surface</i>
Sand, quartz, black to brown organic stain in upper portion, white at base. Fills solution holes in oolite.....	2 - 6
Limestone, cream-colored, oolitic (Miami oolite), honeycombed and perforated by vertical solution holes filled with white quartz sand.....	6 - 18
Sand, quartz, white, and oolitic limestone. Sand composes 70 percent of the sample. Represents transition from limestone to sand.....	18 - 25
Sand, quartz, white, fine, fossiliferous.....	25 - 30
Sandstone, grayish-white, calcareous. High permeability.....	30 - 34
Sandstone, grayish to tan, calcareous fossiliferous, with lenses or pockets of quartz sand; very high permeability.....	34 - 61
Limestone, gray-white, dense, hard, and quartz sand; fossiliferous. High permeability.....	61 - 67
Sand, quartz, white, fine, and pieces of limestone.....	67 - 70
Limestone, white, sandy, with occasional small pockets of sand. High permeability.....	70 - 88
Sand, quartz, fine to medium, and pieces of limestone.....	88 - 95
Limestone, gray-white, hard, with pockets of quartz sand.....	95 - 111
Shell marl, dark-gray, sandy. Low permeability.....	111 - 145
Marl, greenish, sandy, shelly in places, especially at 174 to 182 and 187 to 194 ft. Very low permeability.....	145 - 194
Sand, quartz, white, medium, with thin layers of sandy green marl.....	194 - 203
Sand, green, fine to medium, marly. The green color appears to be due to finely disseminated colloidal carbonate material that coats the quartz grains and makes up the marly matrix.....	203 - 206
Sand, quartz, gray-white, medium.....	206 - 212
Marl, green, sandy, shelly. Very low permeability.....	212 - 219
Sand, green, very fine to medium, with occasional thin layers of green clay or clayey marl.....	219 - 249
Sand, green, fine. Low permeability.....	249 - 254
Marl, green, sandy, fine, with thin layers of green clayey marl.....	254 - 262
Sand, green, very fine to fine; becomes silty toward base.....	262 - 326
Marl, green, silty. Very low permeability.....	326 - 383
Marl, green, clayey, with occasional thin layers of silty marl.....	383 - 426
Marl, green, clayey, grades into gray-white calcareous shelly marl.....	426 - 435
Marl, gray, silty; contains thin layers of chalky white marl and some shells... common. Very low permeability.....	435 - 456
Marl, grayish-green, silty, with thin layers of green clay marl. Shells are common. Very low permeability.....	456 - 488
Limestone, white, fossiliferous, impure in part, owing to admixed sand and silt. Low permeability.....	488 - 525
Marl, greenish-gray to light-gray, silty, very calcareous toward base.....	525 - 571
Marl, grayish-white, silty, calcareous.....	571 - 637
Shell marl, gray, sandy. Low permeability.....	637 - 647
Marl, gray-white, silty, calcareous, shelly. Last few feet toward base quite clayey. Low permeability.....	647 - 711
Shell marl, gray, sandy. Low permeability.....	711 - 717
Limestone, gray-white to dark-gray, hard. Low permeability.....	717 - 731
Marl, dark-gray, clayey. Very low permeability.....	731 - 735
Shell marl, gray, sandy. Low permeability.....	735 - 743
Limestone, gray-white, hard. Medium permeability.....	743 - 753
Marl, light-gray, silty, shelly, calcareous. Low permeability.....	753 - 759
Marl, light-gray, very shelly.....	759 - 770
Limestone, grayish-white, hard, fossiliferous. Medium permeability.....	770 - 781
Sand, white, calcareous, very fine.....	781 - 785
Limestone, white, hard, sandy in places. Medium permeability. Artesian flow at 809.5 ft below land surface.....	785 - 812

Table 127.—*Logs of wells in Dade County—* Continued

## Well G 182

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Morningside Drive and Curtiss Parkway, Miami Springs.

Elevation of land surface: 6 ft above mean sea level.

Depth: 301 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, white, fine to medium, and organic material.....	0 — 2
Limestone, cream-colored, oolitic (Miami oolite), and sand as above.....	2 — 20
Sand, quartz, light-colored, fine to medium.....	20 — 33
Limestone, sandy, and tan-brown calcareous sandstone with thin beds of sand, High permeability.....	33 — 56
Sandstone, calcareous, and gray-white, fossiliferous, sandy limestone. Very high permeability.....	56 — 83
Shell marl, light-gray to greenish-gray, sandy, with sandy nodules in some places. Low permeability from 95 to 107 ft, and only slightly permeable from 117 to 128 ft.....	83 — 128
Sand, greenish, fine to coarse, marly in upper portion. Very low permeability...	128 — 139
Sand, green, very fine to medium, marly in places, fossiliferous, with a few thin layers of calcareous sandstone and phosphate pebbles between 196 and 213 ft. Practically impermeable from here to bottom of well.....	139 — 274
Marl, dark-gray, sandy, and fine quartz sand.....	274 — 276
Sand, green, very fine to fine, and green sandy marl.....	276 — 281
Clay, green, marly.....	281 — 286
Sand, green, very fine to fine, and sandy marl.....	286 — 289
Clay, green, marly.....	289 — 301

## Well G 183

Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 53 S., R. 42 E. At NE. Second Avenue and 65th Street Extension, Miami.

Elevation of land surface: 11.8 ft above mean sea level.

Depth: 351 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, white, very fine to medium.....	0 — 0.5
Limestone, cream-colored, oolitic (Miami oolite), with orange quartz sand in- cluded in deep solution holes in the limestone.....	0.5 — 18
Limestone, white, sandy, porous, in places cavernous. Quartz sand, very fine to fine, white, occurs in solution holes, or in lenses in the rock. Very high permeability.....	18 — 63
Limestone, light-tan, very hard.....	63 — 67
Sand, quartz, white, fine, fossiliferous.....	67 — 69
Sandstone, light-grayish-brown, calcareous, and a little quartz sand. High permeability.....	69 — 79
Limestone, light-brown, slightly sandy, and some quartz sand.....	79 — 84
Sandstone, light-gray, calcareous, with pockets or layers of quartz sand. Fossiliferous in places. Highly permeable.....	84 — 183
Limestone, white to cream-colored, sandy, with occasional beds or pockets of quartz sand containing shells.....	183 — 216

Table 127.—*Logs of wells in Dade County—Continued*

## Well G 183—Continued

	<i>Depth, in feet below land surface</i>
Sandstone, light-green, calcareous, with some loose sand and shells; probably an indurated green sand. Low permeability.....	216 - 307
Marl, light-green, clayey, fossiliferous, with occasional layers of silty and sandy marl. Practically impermeable.....	307 - 351

## Well G 185

Location: NW¼NW¼ sec. 9, T. 52 S., R. 41 E. Miami Gardens Drive and Douglas Road.

Elevation of land surface: 7.2 ft above mean sea level.

Depth: 301 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Muck.....	0 - 0.4
Sand, quartz, white, very fine to medium.....	0.4 - 2.5
Sand, quartz, black. Color is due to organic stain which rubs off easily.....	2.5 - 3
Sand, quartz, brown to white, very fine to coarse, averages medium. Changes from brown to white at 19 ft.....	3 - 33
Sand and nodular pieces of white limestone. Low permeability because of sand.....	33 - 42
Limestone, brown, sandy, very hard, and sand as above. Medium permeability..	42 - 51
Sandstone, gray, calcareous, very hard in places. Some sand and shell in pockets or layers. High permeability.....	51 - 113
Sand, quartz, gray to white, coarse at top but very fine at base.....	113 - 131
Shell marl, greenish, sandy. Sand is quartz, medium to coarse, angular to rounded. Relatively impermeable.....	131 - 166
Sandstone, green, clayey.....	166 - 173
Shell marl, greenish, sandy. Similar to interval from 131 to 166 ft.....	173 - 186
Sandstone, light-green, calcareous, with a few shells. Quartz grains are medium to coarse, sharp to subrounded. From 212 to 228 ft it becomes more and more clayey and silty. Practically impermeable.....	186 - 228
Marl, green, silty, clayey. Practically impermeable.....	228 - 290
Sand, greenish-gray, medium to coarse. Low permeability.....	290 - 296
Marl, green, sandy. Practically impermeable.....	296 - 301

## Well G 186

Location: SE¼SE¼ sec. 15, T. 53 S., R. 41 E. NW. 17th Avenue and 55th Terrace, Miami.

Elevation of land surface: 11.9 ft above mean sea level.

Depth: 300 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Limestone, oolitic, and some white quartz sand. (Miami oolite).....	0 - 20
Sand, quartz, brown to tan, fine to medium, and some calcareous material. Low permeability.....	20 - 37
Limestone, brownish-gray, sandy, with pockets or thin lenses of very fine to medium-white quartz sand. Medium permeability.....	37 - 51



Table 127.—*Logs of wells in Dade County—* Continued

## Well G 186—Continued

	<i>Depth, in feet below land surface</i>
Limestone, coralline.....	51 - 55
Sandstone, gray, calcareous, with small amount of sand and shells. High permeability.....	55 - 71
Sand, quartz, gray-white, fine to coarse, contains some shells.....	71 - 74
Limestone, sandy, and creamy calcareous sandstone. Some pockets or thin lenses of sand with shells. Low permeability from 118 to 128 ft.....	74 - 128
Sandstone, shelly, soft, and greenish shell marl. Very low permeability.....	128 - 197
Marl, greenish, sandy, shelly in places, with very thin lenses of calcareous sandstone. Practically impermeable.....	197 - 300

## Well G 187

Location: SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 30, T. 52 S., R. 40 E. On Florida Highway 25 at Pennsuco.

Elevation of land surface: 7.6 ft above mean sea level.

Depth: 222 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Spoil.....	0 - 3
Muck.....	3 - 6
Marl, gray, of fresh-water origin, and quartz sand.....	6 - 8
Limestone, oolitic. Very hard and dense, but contains small solution holes. (Miami oolite).....	8 - 18
Limestone, brown to gray, sandy, very hard, shelly in part. Low permeability..	18 - 26
Sandstone, brown to gray, calcareous, very hard in places, becomes sandy and shelly toward the base. Medium permeability.....	26 - 51
Sandstone, gray to white, calcareous, shelly in places; contains thin lenses or pockets of white quartz sand. High permeability down to 69 ft, where increased amount of sand reduces permeability greatly.....	51 - 80
Shell marl, gray, very sandy; becomes a sandy marl near base. Low permeability.....	80 - 117
Shell marl, greenish, becoming silty toward base. Very low permeability.....	117 - 133
Marl, green, silty. Very low permeability.....	133 - 140
Sandstone, gray, calcareous, shelly. Low permeability.....	140 - 155
Marl, light-gray, sandy. Very low permeability.....	155 - 172
Sand, green, silty and clayey toward base. Practically impermeable.....	172 - 184
Marl, green, clayey, sandy. Practically impermeable.....	184 - 222

## Well G 188

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 12, T. 54 S., R. 38 E. Krome Road and Tamiami Trail.

Elevation of land surface: 8.9 ft above mean sea level.

Depth: 200 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Spoil.....	0 - 3
Muck.....	3 - 6

Table 127.—*Logs of wells in Dade County*— Continued

## Well G 188— Continued

	<i>Depth, in feet below land surface</i>
Marl, sandy.....	6 - 7
Limestone, gray, dense, recrystallized; quartz sand probably occurring in solution holes. Low permeability.....	7 - 22
Limestone, gray-white, sandy, dense, and some calcareous sandstone. Quartz sand occurs in solution holes or in thin lenses. High permeability.....	22 - 61
Shell marl, dark-gray, sandy, and thin beds of sandy marl. In places about 90 percent of the sample consists of excellently preserved mollusk shells. Very low permeability down to 145 ft, at which depth the well could be pumped at low rate with large drawdown.....	61 - 164
Sand, quartz, gray, fine to medium, with intercalated thin layers of clayey marl. Low permeability.....	164 - 187
Marl, green, sandy, with intercalated thin layers of clayey marl. Very low permeability.....	187 - 200

## Well G 189

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T. 54 S., R. 41 E. SW. 27th Avenue and Dixie Highway, Miami.

Elevation of land surface: 11.6 ft above mean sea level.

Depth: 241 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Sand.....	0 - 0.5
Limestone, creamy, soft, oolitic (Miami oolite).....	0.5 - 11
Cavity.....	11 - 22
Limestone, creamy, soft, oolitic (Miami oolite).....	22 - 25
Sand, cream-colored, quartz, very fine to fine, and calcareous material; irregular sandstone nodules included.....	25 - 31
Limestone, creamy to tan, coralline, and coral and quartz sand. High permeability.....	31 - 42
Conglomerate of calcareous rocks; probably waste from coral reef. Pebbles are subangular.....	42 - 44
Sandstone, creamy to white, calcareous, and considerable very fine to fine white quartz sand.....	44 - 53
Limestone, tan-brown, very porous hard. High permeability.....	53 - 66
Sand, quartz, gray, very fine to fine; includes calcareous sandstone nodules..	66 - 68
Sandstone, gray-white, calcareous, and very fine to fine white quartz sand....	68 - 73
Limestone, dense, hard.....	73 - 79
Cavity.....	79 - 81
Limestone, gray, sandy, hard. High permeability.....	81 - 83
Limestone, light-colored, hard, fossiliferous.....	83 - 84
Sandstone, gray, calcareous, fossiliferous; contains scattered grains of phosphorite throughout. Very high permeability.....	84 - 110
Limestone, grayish, sandy. High permeability.....	110 - 132
Sand, green, in places consolidated to form thin layers of calcareous sandstone. Sand is very fine to fine and contains a few shells. Very low permeability.....	132 - 164
Marl, green, sandy, silty, and clayey. Practically impermeable.....	164 - 241

Table 127.—*Logs of wells in Dade County—*Continued

## Well G 193

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 29, T. 53 S., R. 41 E. NW. 36th Street and Miami Canal, Miami.

Elevation of land surface: 6.0 ft above mean sea level.

Depth: 84 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, gray.....	0 — 1
Limestone, creamy, soft, oolitic (Miami oolite), with quartz sand partly filling solution holes. Medium permeability.....	1 — 22
Sandstone, white, calcareous, hard and a little sand. Very high permeability.,	22 — 41
Limestone, white, sandy, hard, and small amount of coralline limestone and quartz sand. High permeability.....	41 — 49
Sandstone, white, calcareous, and siliceous white limestone that is exceed- ingly hard. High permeability.....	49 — 61
Sandstone, white, calcareous, with thin beds of fine white quartz sand. High permeability except for the sand beds.....	61 — 82
Sandstone, calcareous, shelly, and quartz sand.....	82 — 84

## Well G 195

Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E., 25 ft northeast of South River Drive and  
0.8 mile northwest of NW. 36th Street.

Elevation of land surface: 5.0 ft above mean sea level.

Depth: 95 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, white.....	0 — 1
Limestone, creamy, oolitic (Miami oolite).....	1 — 16.5
Sand, white to gray, very fine to coarse, averaging medium.....	16.5 — 52
Sand and calcareous sandstone, white, and shells. Minor amount of sandstone,	52 — 62
Sandstone, calcareous, shelly, soft. Riddled with solution holes which are filled with quartz sand.....	62 — 95

## Well G 196

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 29, T. 53 S., R. 41 E., 25 ft west of LeJeune Road and 0.3 mile  
south of NW. 36th Street.

Elevation of land surface: 5.0 ft above mean sea level.

Depth: 92 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, white, fine to medium.....	0 — 2
Limestone, creamy, oolitic, with sand in solution holes.....	2 — 21

Table 127.—Logs of wells in Dade County— Continued

## Well G 196—Continued

	<i>Depth, in feet below land surface</i>
Sandstone, white, calcareous.....	21 — 24
Cavity.....	24 — 31
Sand, quartz, white, very fine to coarse, and nodular pieces of calcareous sandstone.....	31 — 41
Sand, quartz, white, very fine to coarse, and white sandy limestone.....	41 — 46
Limestone, tan-brown, coralline, with a few pockets of quartz sand.....	46 — 59
Sandstone, white, calcareous, and very fine to medium white quartz sand. The sand occurs in thin beds or pockets in the rock. Two cavities noted, one is 0.4 ft deep, the other is 0.5 ft deep, between 89 and 91 ft. Very high permeability in consolidated portions of this interval.....	59 — 92

## Well G 197

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E. SE. 10th Court and 14th Street, Hialeah.

Elevation of land surface: 8.0 ft above mean sea level.

Depth: 91 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, white, very fine to medium, fills solution holes in limestone.....	0 — 1
Limestone, oolitic.....	1 — 21
Sand, quartz, white, very fine to fine, and calcareous sandstone.....	21 — 31
Sand, quartz, white, very fine to fine.....	31 — 42
Sandstone, white, calcareous, fairly soft, and coarse to very fine white quartz sand. High permeability.....	42 — 49
Limestone, white, sandy, hard, and minor amounts of quartz sand, probably in solution holes. High permeability.....	49 — 67
Sandstone, white, calcareous, and sandy limestone.....	67 — 76
Cavity.....	76 — 80
Sandstone, gray, calcareous, dense, hard. Very little sand.....	80 — 91

## Well G 198

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 14, T. 54 S., R. 40 E., 0.2 mile south of Coral Way and 0.7 mile west of Ludlum Road.

Elevation of land surface: 6.2 ft above mean sea level.

Depth: 102 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, white, fine to medium.....	0 — 1
Limestone, oolitic (Miami oolite), solution-riddled and filled with sand.....	1 — 20
Limestone, brown, dense, hard, siliceous. Low permeability.....	20 — 21
Sandstone, gray to white, calcareous, porous to dense, contains beds and pockets of fine to coarse white quartz sand. High permeability.....	21 — 57
Limestone, white, dense, siliceous.....	57 — 59
Sandstone, white, calcareous, and medium to coarse white quartz sand. Very high permeability.....	59 — 65

Table 127.—*Logs of wells in Dade County—Continued*

## Well G 198—Continued

	<i>Depth, in feet below land surface</i>
Cavity, partly filled with sand.....	65 - 70
Limestone, grayish-white, sandy, and small amount of fine to medium-white quartz sand.....	70 - 75
Cavity, partly filled with sand.....	75 - 81
Limestone, grayish-white, sandy, fairly soft, and sand. High permeability.....	81 - 95
Limestone, white, dense, hard.....	95 - 98
Sand, dark-gray, shelly. Sand is very fine to coarse, averages medium. Low permeability.....	98 - 102

## Well G 199

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 20, T. 53 S., R. 41 E., 0.1 mile north of 36th Street and 0.25 mile west of Lejeune Road, Miami Springs.

Elevation of land surface: 4.5 ft above mean sea level.

Depth: 98 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, white, fine to medium.....	0 - 2
Limestone, creamy to white, oolitic, with sand in solution holes.....	2 - 19
Sand, quartz, white, very fine to medium, averaging fine. Thin hard layer of brown limestone at 37.5 ft.....	19 - 43
Limestone, white, sandy, and white calcareous sandstone. Pockets of white quartz sand and shells.....	43 - 56
Sand, quartz, grayish-white, very fine to medium, and nodular sandstone. Few shells and phosphate granules.....	56 - 68
Sandstone, white, calcareous, and a large amount of very fine to fine white sand and shells.....	68 - 86
Sandstone, white, calcareous, hard. Very high permeability.....	86 - 97
Sand, dark-gray, shelly, or sandy shell marl. The sand is very fine to medium. Low permeability.....	97 - 98

## Well G 207

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 25, T. 57 S., R. 38 E., 0.1 mile north of Lucille Drive and 0.15 mile east of Redlands Road.

Elevation of land surface: 7.8 ft above mean sea level.

Depth: 108 ft.

Diameter: 2 $\frac{1}{2}$  in.

	<i>Depth, in feet below land surface</i>
Limestone, oolitic (Miami oolite), soft, except between 15 and 15.5 ft, where it is extremely hard. This hard layer is widespread throughout the Homestead-Florida City area, and usually occurs in the interval between 7 and 9 ft below mean sea level. The "hard rock" is dense, dark to light-colored, and apparently nonoolitic.....	0 - 20
Limestone, gray, dense, very hard, containing a few solution holes.....	20 - 22
Limestone, tan to cream, dense, hard. Medium permeability.....	22 - 37
Limestone, dark-gray, hard, porous.....	37 - 39

Table 127.—*Logs of wells in Dade County—Continued*

## Well G 207—Continued

	<i>Depth, in feet below land surface</i>
Limestone, white to gray to tan, sandy, generally quite hard, with very fine to medium, white quartz sand included in pockets or lenses. High permeability. Cavity from 48 to 49.5 ft.....	39 — 57
Sand, quartz; white, very fine to fine. Low permeability.....	57 — 63
Shell marl, and large amount of very fine dark gray sand. Practically impermeable.....	63 — 108

## Well G 209

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 21, T. 58 S., R. 39 E. On U. S. Highway 1, 6.0 miles south of Palm Drive, Florida City.

Elevation of land surface: 2.3 ft above mean sea level.

Depth: 66 ft.

Diameter: 2 $\frac{1}{2}$  in.

	<i>Depth, in feet below land surface</i>
Marl, gray, calcareous, sticky. Comparatively impermeable.....	0 — 6
Limestone, oolitic (Miami oolite), altered by secondary processes so that few ooliths are preserved. Small amount of very fine to fine white quartz sand in solution holes. Two very hard gray limestone layers between 13 and 14.5 ft and 16 and 17 ft.....	6 — 17
Limestone, tan-brown, sandy, shelly in places. Solution holes and cavities common in this interval; one cavity from 27 to 28 ft. High permeability.....	17 — 31
Sandstone, white to gray, calcareous, with beds or pockets of quartz sand. Many small cavities. Very high permeability.....	31 — 65
Sand, gray, shelly, or sandy shell marl. Sand is very fine to fine. Low permeability.....	65 — 66

## Well G 210

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 24, T. 58 S., R. 38 E., 5 miles south of Palm Drive on Roberts Road.

Elevation of land surface: 2.7 ft above mean sea level.

Depth: 62 ft.

Diameter: 2 $\frac{1}{2}$  in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 — 0.5
Marl, gray, calcareous, sticky, partly fills solution holes in underlying oolitic limestone.....	0.5 — 2
Limestone, oolitic (Miami oolite), soft, porous; with little or no sand. Hard layer from 10.5 to 11 ft.....	2 — 16
Limestone, light-brown, sandy, and some coralline limestone. Contains many small cavities. High permeability.....	16 — 22
Sandstone, white to tan, calcareous, and sandy white limestone. An exceedingly hard, dark-gray, impure limestone from 33.8 to 36.5 ft. Numerous cavities were noted, the largest three being from 39.7 to 40.6 ft, 41.7 to 44.6 ft, and 48.4 to 49.2 ft. A thin bed of shells was noted at 49.2 ft.....	22 — 51

Table 127.—*Logs of wells in Dade County—Continued*

## Well G 210—Continued

*Depth, in feet  
below land surface*

Sand, quartz, very fine to medium, averages fine. Color is white to 54.1 ft; below this depth it is dark-gray. Small amount of shells. Very low permeability..... 51 - 62

## Well G 211

Location: NW¼SW¼ sec. 31, T. 57 S., R. 39 E. Near old F. E. C. Railroad embankment, 1½ miles south of Palm Drive, Florida City.

Elevation of land surface: 2.4 ft above mean sea level.

Depth: 88 ft.

Diameter: 2½ in.

*Depth, in feet  
below land surface*

Road fill.....	0 - 0.5
Marl, gray, calcareous, sticky, partly fills solution holes in underlying oolitic limestone.....	0.5 - 6
Limestone, creamy to white, oolitic (Miami oolite). Contains very hard rock layers from 10.9 to 11.6 ft, and from 15.1 to 16 ft.....	6 - 16
Limestone, creamy, hard. At 21 ft it is softer and is ground to a chalky paste in drilling. Medium permeability.....	16 - 22
Limestone, creamy, fairly hard, with dark gray impure limestone layers from 33.5 to 33.9 ft and 35.8 to 39.6 ft. Medium permeability.....	22 - 40
Limestone, white, sandy, with many small cavities and varying amounts of very fine to fine white quartz sand. High permeability.....	40 - 61
Limestone, dark-gray, sandy, impure, exceedingly hard, contains some shell material.....	61 - 63.5
Limestone, white to creamy, sandy, and shelly sand. Numerous cavities occur, the most important being from 63.5 to 64 ft; 64.8 to 65.9 ft; 77.5 to 78.4 ft; and 78.9 to 80.9 ft.....	63.5 - 81
Gravel, limestone, worn, subrounded, and very fine to fine white quartz sand....	81 - 82
Sandstone, white, calcareous, porous; contains considerable very fine to fine white quartz sand in solution holes. Two cavities noted, from 83.7 to 84.4 ft; and from 86.6 to 87.8 ft. High permeability.....	82 - 87
Sand, quartz, blue-gray, very fine to fine, fossiliferous. Low permeability.....	87 - 88

## Well G 212

Location: SW¼NW¼ sec. 31, T. 57 S., R. 39 E., 1.4 miles south of Florida City on east side of U. S. Highway 1.

Elevation of land surface: 4.0 ft above mean sea level.

Depth: 79 ft.

Diameter: 2½ in.

*Depth, in feet  
below land surface*

Road fill.....	0 - 2
Muck.....	2 - 3.5
Marl, gray, calcareous, fills solution holes in underlying limestone.....	3.5 - 5

Table 127.—*Logs of wells in Dade County—Continued*

## Well G 212—Continued

	<i>Depth, in feet below land surface</i>
Limestone, cream-colored to white, oolitic, becomes soft and sandy at 20 ft. Two hard rock layers from 11.6 to 12.4 ft and 15 to 16 ft.....	5 — 22
Limestone, gray-tan, sandy, hard, very little sand. Cavity from 30 to 33.6 ft, and thin layer of extremely hard, dark-gray, almost black, dense limestone at 36 ft. Very high permeability.....	22 — 36
Sand, quartz, tan, shelly, very fine to coarse, averaging fine, and some nodular sandstone.....	36 — 42
Limestone, tan-gray, sandy, and sand. Medium permeability.....	42 — 47
Limestone, white, sandy, and very fine to medium quartz sand filling solution holes. Cavities from 50.5 to 51 ft, 53.3 to 54.8 ft, and 58.0 to 59.5 ft.....	47 — 61
Limestone, dark-gray to almost black, exceedingly hard, and a thin bed of small subrounded, limestone gravel.....	61 — 64
Limestone, white to cream, sandy, containing pockets of sand with shells. Small cavities at 71, 73, and 76 ft. High permeability.....	64 — 76
Sand, quartz, white, shelly, very fine to fine. Low permeability.....	76 — 79

## Well G 213

Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 27, T. 57 S., R. 39 E. Three Mile Road, 0.45 mile south of  
Palm Drive.

Elevation of land surface: 3.0 ft above mean sea level.

Depth: 78 ft.

Diameter: 2 $\frac{1}{2}$  in.

	<i>Depth, in feet below land surface</i>
Mari, gray, calcareous, sticky.....	0 — 2
Limestone, oolitic (Miami oolite), soft, includes two very hard rock layers from 10.5 to 11.5 ft, and from 14.5 to 15.5 ft.....	2 — 16
Limestone, cavernous, white to tan, hard. Very high permeability.....	16 — 41
Chalk, soft, white, Low permeability.....	41 — 43
Limestone, white to brown, sandy, very porous, and some calcareous sandstone; cavity from 52.5 to 54.5 ft. Small amount of very fine to fine, white quartz sand.....	43 — 78

## Well G 214

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 26, T. 57 S., R. 38 E., 30 ft west of Longview Road and 0.3 mile  
north of Lucille Drive.

Elevation of land surface: 8.0 ft above mean sea level.

Depth: 61 ft.

Diameter: 2 $\frac{1}{2}$  in.

	<i>Depth, in feet below land surface</i>
Limestone, oolitic, with two very hard rock layers at 14.6 to 15.5 ft and 19 to 20 ft.....	0 — 20
Limestone, cream to dark-brown, sandy, alternately soft and hard, with vari- able amounts of white quartz sand. Few small cavities. Medium permeability..	20 — 34.5



Table 127.—*Logs of wells in Dade County—Continued*

## Well G 214—Continued

	<i>Depth, in feet below land surface</i>
Limestone, dark-gray, dense, very hard, and a few shell fragments.....	34.5 — 37
Chalk, grayish-white, and some quartz sand. Low permeability.....	37 — 38
Limestone, sandy, and calcareous sandstone, gray to white. Many small cavities and considerable amount of very fine to fine white quartz sand.....	38 — 61

## Well G 216

Location: NW¼NW¼ sec. 14, T. 57 S., R. 39 E. Campbell Drive and Tallahassee Road.

Elevation of land surface: 3.6 ft above mean sea level.

Depth: 110 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Marl, gray, calcareous, sticky, fills solution holes in underlying oolitic limestone. There is 1 ft or more of muck overlying the marl in some places nearby.....	0 — 5
Limestone, oolitic (Miami oolite), creamy, soft. In the interval between 11.5 and 17 ft there are alternate hard and soft layers.....	5 — 17
Limestone, tan, very hard.....	17 — 18.5
Limestone, tan to orange, coralline, and considerable very fine to fine white quartz sand which occurs in voids in the rock. Medium permeability.....	18.5 — 23.5
Limestone, tan-gray, sandy, and quartz sand. Medium permeability.....	23.5 — 28
Limestone, tan to gray, sandy, hard, and some coralline limestone. High permeability.....	28 — 37
Limestone, gray to white, sandy, and a large amount of very fine to fine white quartz sand from 41 to 48 ft.....	37 — 48
Sandstone, gray to white, calcareous, phosphatic, and a small amount of coralline limestone. Becomes quite fossiliferous at 53.5 ft. Cavity between 61.1 and 61.6 ft. Very high permeability.....	48 — 64
Sandstone, gray-tan, calcareous, and a large amount of very fine to fine white quartz sand with shells.....	64 — 71
Sand, quartz, gray-tan, very fine to fine; contains large quantities of shell material. Low permeability.....	71 — 76
Shell marl, dark-gray, very sandy. Sand is quartz, very fine to fine. Very low permeability.....	76 — 94
Marl, green, clayey, sticky. Practically impermeable.....	94 — 110

## Well G 217

Location: SW¼SE¼ sec. 5, T. 57 S., R. 39 E. On U. S. Highway 1, 1.6 miles north of Campbell Drive.

Elevation of land surface: 9.1 ft above mean sea level.

Depth: 120 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Soil, clayey, reddish, fills solution holes in the underlying limestone.....	0 — 4
Limestone, oolitic (Miami oolite), soft, creamy.....	4 — 16

Table 127.—*Logs of wells in Dade County—Continued*

## Well G 217—Continued

	<i>Depth, in feet below land surface</i>
Limestone, composed of two very hard, dense rock layers separated by a soft layer between 16.5 and 17 ft.....	16 — 18
Limestone, white, sandy.....	18 — 20
Limestone, tan-orange, sandy.....	20 — 21.5
Sand, quartz, grayish-white, fine to medium.....	21.5 — 25
Limestone, white to tan, sandy, cavernous. Cavity from 25 to 28 ft.....	25 — 30
Sand, quartz, tan-orange, very fine to fine. Low permeability.....	30 — 34
Limestone, white, sandy, varying from soft to hard with pockets or thin lenses of sand. High permeability.....	34 — 53
Sandstone, calcareous, soft and friable, with some coralline and chalky limestone. Cavities from 56.5 to 57.5 ft and 58.5 to 61 ft. Very high permeability..	53 — 61
Sandstone, white, calcareous, hard, fossiliferous. High permeability.....	61 — 71
Shell marl, gray, sandy, locally consolidated into a shelly calcareous sandstone. Sand content ranges from 50 to 80 percent of total sample. Low permeability...	71 — 90
Shell marl, dark-gray, sandy, unconsolidated. Sand is composed of quartz and shells, very fine to coarse, averaging medium. Low permeability.....	90 — 108
Shell marl, greenish, containing very fine sand and silt. Very low permeability..	108 — 115
Marl, green, clayey. Practically impermeable.....	115 — 120

## Well G 218

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 18, T. 53 S., R. 40 E. East bank of Snapper Creek Canal, 2 miles south of Russian Colony Canal.

Elevation of land surface: 5.1 ft above mean sea level.

Depth: 202 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 — 2.5
Peat and muck.....	2.5 — 7
Limestone, tan-white, dense, very hard, apparently monoolitic.....	7 — 12
Limestone, oolitic (Miami oolite), white, generally quite soft.....	12 — 20
Limestone, light-gray, sandy, with small amount of sand in lenses or pockets. Medium permeability.....	20 — 32
Sandstone, light-gray, calcareous, shelly, and a small amount of sand. Rock is porous, with cavity from 42 to 43 ft. Very high permeability.....	32 — 64
Limestone, gray, sandy, hard, shelly, and porous. Very high permeability.....	64 — 74
Sandstone, light-gray, calcareous, soft, and a large amount of very fine to medium, quartz sand with shells. Medium permeability.....	74 — 105
Shell marl, dark-gray, very sandy. Low permeability.....	105 — 111
Marl, greenish, sandy, shelly in places, and a few nodules of calcareous sandstone. Low permeability.....	111 — 132
Sandstone, greenish, calcareous, shelly.....	132 — 138
Sand, greenish, shelly, and shelly calcareous sandstone nodules. Low permeability.....	138 — 149
Sand, quartz, greenish, very fine to medium, and green silt with shells. Low permeability.....	149 — 164
Sand, quartz, gray, medium to coarse, and a few shells. Medium permeability...	164 — 169
Sand, quartz, gray, medium to coarse, and a few shells, with intercalated layers of green silt about $\frac{1}{2}$ -inch thick, showing paper-thin bedding. Medium permeability.....	169 — 180
Clay, green, and green clayey marl. Practically impermeable.....	180 — 202

Table 127.—Logs of wells in Dade County—Continued

## Well G 222

Location: NW¼NE¼ sec. 7, T. 54 S., R. 37 E. South side of Tamiami Trail, 30.5 miles west of Miami.

Elevation of land surface: 9.1 ft above mean sea level.

Depth: 77-ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 - 2
Muck and brown fibrous peat overlying a thin layer of fresh-water gray marl.....	2 - 6
Limestone, oolitic (Miami oolite), with marl partly filling solution holes in the oolitic limestone.....	6 - 8
Sandstone, tan-gray, calcareous, with fine to coarse quartz sand and shell fragments. Medium permeability.....	8 - 22
Sand, quartz, dark-gray, very fine to medium. Low permeability.....	22 - 26
Shell marl, grayish-white sandy. Low permeability.....	26 - 31
Sand, quartz, grayish, fine to medium; contains sandstone nodules and thin beds of shells. Low permeability.....	31 - 49
Shell marl, grayish, sandy. Sand is fine except near base where very coarse sand and fine subrounded gravel was noted. Low permeability.....	49 - 61
Sand, quartz, dark-green, clayey, silty with thin lenses of friable sandstone. Contains few shell fragments. Low permeability.....	61 - 68
Silt, dark-green, with small amount of very fine sand and thin layers of green clay. Shell bed in the silt at 77 ft. Practically impermeable.....	68 - 77

## Well G 223

Location: Sec. 27, T. 54 S., R. 35 E. South side of Tamiami Trail, 40 miles west of Miami.

Elevation of land surface: 11.5 ft above mean sea level.

Depth: 604 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Fill.....	0 - 4
Marl, dark-brown to black, due to admixture of muck; contains fresh-water gastropods.....	4 - 5
Limestone, oolitic (Miami oolite), hard, white to tan, most of the ooliths dissolved, leaving a pock-marked limestone.....	5 - 6
Sandstone, calcareous, tan to brown, very hard, or sandy limestone, with numerous solution holes. Medium permeability.....	6 - 20
Shell marl, grayish, and very fine to fine sand. Low permeability.....	20 - 42
Shell marl, light-green, sandy. Some beds of medium sand bear limited amounts of water. Low permeability.....	42 - 77
Sandstone, light-green, calcareous, shelly. Silt is common in some places, sand elsewhere. Low permeability.....	77 - 100
Sandstone, light-green, calcareous, with shell fragments. Low permeability.....	100 - 151
Sandstone, gray, calcareous, shelly, soft and friable. Low permeability.....	151 - 155
Sand, quartz, gray-white, very fine to coarse, contains sandstone nodules, shell fragments, and a minor amount of heavy minerals and phosphate grains. The heavy minerals appear to be mainly ilmenite, rutile, zircon, monazite, and staurolite.....	155 - 182
Sand, quartz, and greenish-gray, silt, and shells. Sand is very fine to coarse. Low permeability.....	182 - 187

Table 127.—Logs of wells in Dade County— Continued

## Well G 223— Continued

	Depth, in feet below land surface	
Silt and very fine, greenish, sand. Contains coarse quartz sand and phosphate grains, generally subrounded. Very low permeability.....	187	— 200
Sand, light-gray, with faint greenish tint, fine to coarse, speckled with phosphate grains and minor amounts of other heavy minerals.....	200	— 204
Clay, green, sandy and silty, with a few phosphate grains and large quartz grains. Practically impermeable.....	204	— 214
Sand, quartz, gray, with thin streaks of green clay. The sand contains 15 to 25 percent of phosphate grains with other heavy minerals, especially ilmenite, zircon, rutile, and monazite. Low permeability.....	214	— 226
Marl, green, clayey, locally silty or very finely sandy; contains clay nodules and many phosphate pebbles or fine phosphate gravel; pebbles are usually discoid, with a maximum diameter of one-half inch. Contains numerous shark teeth, crab claws, and fishbone fragments. Practically impermeable.....	226	— 278
Clay, green, with layers of silt and clay containing minor amounts of quartz and phosphate granules; some are subrounded but most of the phosphate grains are oval and flattened. Shark teeth common. Practically impermeable.....	278	— 332
Silt, green, clayey to sandy, fossiliferous. Practically impermeable.....	332	— 342
Silt, green, sandy; generally practically impermeable but occasional shelly beds are water bearing, though of low permeability.....	342	— 364
Sand, quartz, green, silty. The color is due to the clayey, silty materials. Contains some shell fragments and shark teeth. Practically impermeable.....	364	— 377
Sand, quartz, green, silty. There are some shell fragments and a few shark teeth. Small amount of water recoverable. Low permeability.....	377	— 417
Silt, green, clayey. Practically impermeable.....	417	— 468
Sandstone, greenish-gray, calcareous, friable. Low permeability.....	468	— 474
Marl, green, clayey, shelly, with occasional thin layers of practically dry clay and silt. Shells in some places compose as much as 40 percent of total sample, but shells are broken and fragmental as a rule. At base of this interval is a bed of very fine phosphate pebbles, a few inches thick. Very low permeability.....	474	— 504
Limestone, white, sandy.....	504	— 505
Marl, shelly, green, clayey, Practically impermeable.....	505	— 509
Marl, grayish-green, shelly, containing granules and pebbles of black phosphate and occasional streaks of gray silty marl. Practically impermeable.....	509	— 518
Limestone, gray, hard, fossiliferous, and soft gray marl in minor quantities.....	518	— 532
Sand, greenish, very fine to fine, and silt with shell fragments. Low permeability.....	532	— 534
Limestone, gray, sandy, friable, with occasional thin gray-white limestone layers containing a few green clay nodules. Low permeability.....	534	— 551
Limestone, gray to white, sandy in places, contains streaks of green clayey sandy silt at intervals. Many casts of fossils noted. Low permeability.....	551	— 561
Limestone, gray, sandy, shelly, intercalated with soft thin sandy marl layers toward base. Low permeability.....	561	— 594
Marl, gray, sandy and shelly. Very low permeability.....	594	— 604

## Well G 224

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T. 53 S., R. 40 E., 1.5 miles west of Milam Dairy Road and 1.0 mile north of Milam Dairy Canal.

Elevation of land surface: 6.2 ft above mean sea level.

Depth: 104 ft.

Diameter: 4 in.

	Depth, in feet below land surface	
Road fill.....	0	— 1
	1	— 1.5

Table 127.—*Logs of wells in Dade County—Continued*

## Well G 224—Continued

	<i>Depth, in feet below land surface</i>
Marl, gray, of fresh-water origin.....	1.5 - 2
Limestone, creamy-white, oolitic (Miami oolite), soft, with quartz sand partly filling solution holes.....	2 - 11
Sand, quartz, white, contains sandstone nodules and shells cemented to sand. Low permeability.....	11 - 24
Sandstone, gray-white, calcareous, and sandy limestone with very fine to medium, white quartz sand in cavities. Open cavity noted between 28.9 and 29.6 ft. High permeability.....	24 - 51
Sand, quartz, gray to white, fine to very fine, and calcareous sandstone nodules. Few fossils. Low permeability.....	51 - 76
Sandstone, grayish-white, calcareous, and sandy limestone with a few thin layers of sand. High permeability.....	76 - 91
Sand, quartz, gray, very fine to fine, and numerous small shells. Low permeability.....	91 - 99
Sand, quartz, shells, and gray calcareous sandstone. Low permeability.....	99 - 104

## Well G 225

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 20, T. 53 S., R. 39 E. Dade-Broward Levee, 4.4 miles north of Tamiami Trail.

Elevation of land surface: Approximately 9 ft above mean sea level.

Depth: 100 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Fill.....	0 - 2
Muck, black, and brown fibrous peat.....	2 - 7
Limestone, hard, of fresh-water origin.....	7 - 9
Limestone, creamy-white, oolitic (Miami oolite).....	9 - 12
Sandstone, tan-gray, calcareous, hard. High permeability.....	12 - 17
Limestone, white, sandy, or calcareous sandstone containing a few fossils. Very high permeability.....	17 - 33
Limestone, creamy-white, sandy, with chalky limestone layer about a foot thick.....	33 - 35
Limestone, creamy to white, and hard sandy limestone, cavity between 47 and 48.9 ft. Very high permeability.....	35 - 50
Sand, quartz, white, very fine to fine; contains broken bits of shells.....	50 - 52
Marl, tan to gray, shelly, sandy. Low permeability.....	52 - 85
Marl, shelly and sandy, partly consolidated. Low permeability.....	85 - 100

Table 127.—*Logs of wells in Dade County— Continued*

## Well G 226

Location: SE¼ sec. 26, T. 55 S., R. 39 E., 3½ miles west of Perrine and 0.2 mile north of Richmond Drive.

Elevation of land surface: 12 ft above mean sea level.

Depth: 100 ft.

Diameter: 3 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, gray, partly fills solution holes in underlying oolitic limestone....	0 — 3
Limestone, oolitic (Miami oolite).....	3 — 15
Sand, quartz, white, containing a few calcareous sandstone nodules. Medium permeability.....	15 — 26
Limestone, brown, dense, very hard.....	26 — 28
Limestone, reddish-brown, hard.....	28 — 32
Limestone, white to tan, sandy, riddled with solution holes. Cavity between 38.5 and 39.5 ft. High permeability.....	32 — 40
Sand, quartz, white, very fine to medium.....	40 — 42
Limestone, white, sandy, shelly in places. High permeability.....	42 — 54
Limestone, brown, porous, shelly. Highly permeable.....	54 — 57
Limestone, sandy, alternating with thin sand layers. High permeability.....	57 — 67
Sand, quartz, white, medium-grained.....	67 — 72
Sandstone, gray, calcareous, with alternating thin layers of sand. High permeability.....	72 — 80
Sandstone, white, shelly, or sandy coquina; very soft between 85 and 90 ft....	80 — 90
Marl, dark-gray, sandy, shelly. Low permeability.....	90 — 100

## Well G 419

Location: NW¼NE¼ sec. 16, T. 53 S., R. 42 E. East of U. S. Highway 1 and south of Snake Creek Canal.

Elevation of land surface: 5.0 ft above mean sea level.

Depth: 95 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Road fill and material left from bridge construction.....	0 — 16
Sandstone, calcareous, soft, with some sand and shells.....	16 — 36
Sandstone, gray, calcareous, very hard to 38 ft, alternately soft and hard, with small amount of sand from 38 to 47 ft.....	36 — 47
Sandstone, white, calcareous, porous. Hard layer from 86.5 to 87.5 ft. Alternating soft and hard layers containing a few shells from 86 to 95 ft.....	47 — 95

Table 127.—Logs of wells in Dade County—Continued

## Well G 421

Location: NW¼NW¼ sec. 12, T. 53 S., R. 41 E. South of Little River Canal and NW. 7th Avenue.

Elevation of land surface: 5.0 ft above mean sea level.

Depth: 97 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>	
Road fill.....	0	— 3.5
Muck and marl.....	3.5	— 6.5
Limestone, oolitic, shelly at bottom.....	6.5	— 17
Sand, quartz, fine to medium.....	17	— 39
Sandstone, brownish, calcareous, hard.....	39	— 40
Sandstone, calcareous, soft and friable, with a sand layer from 49 to 52 ft.....	40	— 62
Limestone, white, sandy, soft. Hard layer from 91 to 93 ft. High permeability...	62	— 97

## Well G 422

Location: SE¼SE¼ sec. 2, T. 53 S., R. 41 E., 0.3 mile west of NW. 7th Avenue on north side of Little River Canal.

Elevation of land surface: 5.0 ft above mean sea level.

Depth: 98 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>	
Muck.....	0	— 2
Limestone, oolitic, with very little sand. Some calcite and shells at bottom of section.....	2	— 19
Sand, oolitic, shelly.....	19	— 23
Sand, quartz, and soft, loose sandy limestone.....	23	— 33
Sand, quartz and small amount of soft calcareous sandstone.....	33	— 50
Limestone, white, sandy, porous, with some sand and phosphate pebbles in cavities. High permeability.....	50	— 63
Limestone, sandy, soft, with several hard layers. High permeability.....	63	— 98

## Well G 423

Location: NE¼SW¼ sec. 6, T. 55 S., R. 41 E., 0.5 mile south of Kendal Drive and 0.4 mile east of Red Road.

Elevation of land surface: 4.0 ft above mean sea level.

Depth: 52 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>	
Marl.....	0	— 1.5
Limestone, oolitic, very soft and porous from 11 to 23 ft.....	1.5	— 23

Table 127.—*Logs of wells in Dade County*—Continued

## Well G 423—Continued

	<i>Depth, in feet below land surface</i>
Sand, quartz, fine to medium.....	23 — 25
Limestone, light-brown, sandy, very hard, soft from 28 to 32 ft .....	25 — 32
Sand, quartz, fine.....	32 — 38
Limestone, white, sandy, very hard.....	38 — 46
Limestone, sandy, porous, and small amount of sand. High permeability.....	46 — 52

## Well G 424

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 7, T. 55 S., R. 41 E. West of Snapper Creek Canal, east of Ingraham Highway.

Elevation of land surface: 12.0 ft above mean sea level.

Depth: 95 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Limestone, oolitic, sandy.....	0 — 22
Cavity.....	22 — 25
Sand, quartz, with considerable amount of organic material.....	25 — 28
Limestone, gray-brown, very hard. Soft layers with small amount of chalky marl from 33 to 43 ft, and soft sandy limestone from 43 to 60 ft. High permeability.....	28 — 60
Sandstone, calcareous, soft, and some fine quartz sand. High permeability.....	60 — 72
Limestone, white, sandy, shelly. Alternately soft and hard with pockets of sand. Hard layer from 92 to 95 ft. High permeability.....	72 — 95

## Well G 425

Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 7, T. 55 S., R. 41 E. West of Red Road, 0.4 mile north of intersection with Ingraham Highway.

Elevation of land surface: 6.0 ft above mean sea level.

Depth: 97 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Limestone, oolitic, sandy, porous.....	0 — 15
Sand, quartz, white.....	15 — 19
Limestone, brown-gray, very hard.....	19 — 20
Sand, quartz, with small amount of sandy limestone.....	20 — 28
Limestone, brown, hard.....	28 — 30
Sand, quartz, fine to medium.....	30 — 33
Limestone, tan, shelly. Alternate soft and hard layers. High permeability.....	33 — 51
Sand, quartz, fine to medium.....	51 — 60
Limestone, white, sandy. High permeability.....	60 — 64
Sandstone, calcareous, soft, and fine quartz sand. High permeability.....	64 — 68
Limestone, white, sandy, shelly. Alternate soft and hard layers from 68 to 81 ft, hard from 81 to 97 ft. High permeability.....	68 — 97



Table 127.—*Logs of wells in Dade County—Continued*

## Well G 426

Location: SW¼SW¼ sec. 20, T. 54 S., R. 41 E. Southwest of intersection of U. S. Highway No. 1 and Coral Gables Canal.

Elevation of land surface: 11 ft above mean sea level.

Depth: 98 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Limestone, oolitic, with large amount of loose sand from 15 to 21 ft.....	0 — 21
Sand, quartz, medium.....	21 — 28
Limestone, sandy, soft, and a small amount of coralline limestone.....	28 — 32
Sand, quartz, medium to fine.....	32 — 36
Limestone, shelly, sandy, very hard. Few soft layers and small amount of phosphate pebbles. High permeability.....	36 — 61
Limestone, sandy, soft, and quartz sand, Medium permeability.....	61 — 69
Limestone, sandy, porous, very soft. Cavernous between 77 and 98 ft. Small amount of loose sand. Few casts of shells. High permeability.....	69 — 98

## Well G 428

Location: SW¼SE¼ sec. 18, T. 54 S., R. 41 E. West of Coral Gables Canal and north of Bird Drive, Coral Gables.

Elevation of land surface: 12 ft above mean sea level.

Depth: 96 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Limestone, oolitic, sandy.....	0 — 9
Sand, quartz, tan-white, medium, with shells and pieces of calcareous sandstone from 20 to 35 ft.....	9 — 35
Limestone, light-tan, shelly, sandy. Very porous and permeable from 35 to 40 ft. Texture changes from medium to coarse quartz sand from 52 to 60 ft.....	35 — 60
Limestone, white, hard.....	60 — 66
Sandstone, calcareous, shelly, and small amount quartz sand.....	66 — 80
Limestone, sandy. Alternate soft and hard layers with large amount of sand in soft sections. Few shells. Very hard white limestone from 94 to 96 ft.....	80 — 96

## Well G 429

Location: NW¼NW¼ sec. 30, T. 52 S., R. 42 E. East of Biscayne Canal and NE. 131st Street, North Miami.

Elevation of land surface: 3.0 ft above mean sea level.

Depth: 99 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 — 1
Muck.....	1 — 9

Table 127.—Logs of wells in Dade County—Continued

## Well G 429—Continued

	<i>Depth, in feet below land surface</i>
Limestone, oolitic, soft, with quartz sand and loose coralline limestone from 21 to 26 ft.....	9 - 26
Limestone, brown, sandy, hard.....	26 - 32
Sandstone, calcareous, soft, with fine quartz sand. Alternate soft and hard layers from 40 to 51 ft. High permeability.....	32 - 75
Sand, quartz, medium to coarse, with some loose calcareous sandstone.....	75 - 85
Sandstone, calcareous, soft, and quartz sand.....	85 - 99

## Well G 431

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 20, T. 54 S., R. 41 E. LeJeune Road and Bird Drive, Coral Gables,

Elevation of land surface: 12 ft above mean sea level.

Depth: 100 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 - 3
Limestone, oolitic, very hard from 5 to 6 ft.....	3 - 17
Sand, quartz, tan-white, with small amount of soft sandy limestone at 41 ft.....	17 - 46
Limestone, brownish-white, hard. Soft and sandy from 50 to 59 ft, and very hard from 59 to 67 ft. High permeability.....	46 - 67
Limestone, light-tan, sandy, shelly, soft.....	67 - 78
Cavity.....	78 - 82
Sand, quartz, medium, and shell fragments with some loose sandy limestone.....	82 - 90
Limestone, white, shelly, soft.....	90 - 100

## Well G 447

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 11, T. 55 S., R. 39 E. Lindgren Road, 1 mile south of N. Kendall Drive.

Elevation of land surface: 10.4 ft above mean sea level.

Depth: 104 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Rock fill.....	0 - 2
Limestone, oolitic, soft.....	2 - 13
Limestone, sandy, very hard, dense.....	13 - 15
Limestone, oolitic, soft.....	15 - 18
Limestone, sandy, with alternating hard and soft layers. High permeability.....	18 - 47
Cavity.....	47 - 48
Sandstone, white, calcareous, with hard and soft layers. Cavities at 52 to 54, 58 to 59, 62 to 63, and 70 to 72 ft. Very high permeability.....	48 - 72
Sandstone, calcareous, shelly, soft, with a cavity at 77 to 79 ft. Very high permeability.....	72 - 84
Marl, greenish-gray, and greenish-gray calcareous sandstone. Contains small pieces of obsidian. Low permeability.....	84 - 104

Table 127.—Logs of wells in Dade County—Continued

## Well G 448

Location: NW¼SW¼ sec. 18, T. 55 S., R. 40 E., 3 miles west of Howard.

Elevation of land surface: 7.5 ft above mean sea level.

Depth: 96 ft.

Diameter: 2½ in.

	Depth, in feet below land surface	
Limestone, oolitic, with quartz sand filling solution holes.....	0	— 12
Limestone, oolitic with intermittent beds of fine quartz sand.....	12	— 26
Limestone, tan, dense, hard. Fractures conchoidally.....	26	— 28
Sandstone, calcareous, hard with soft layers; cavity at 34 to 36 ft. High permeability to 95 ft.....	28	— 39
Sandstone, white to tan, calcareous, hard. <i>Ostrea</i> sp. and <i>Pecten</i> sp. very common. Small amount of <i>Hexacoralla</i> sp. and <i>Helisoma</i> sp.....	39	— 48
Sandstone, white, calcareous, soft.....	48	— 49
Limestone, white, sandy. Hard and soft layers.....	49	— 68
Sandstone, white, calcareous.....	68	— 82
Sandstone, calcareous, containing pockets of quartz sand.....	82	— 91
Sandstone, calcareous, very hard.....	91	— 92
Cavity.....	92	— 95
Marl, greenish-gray, shelly. Low permeability.....	95	— 96

## Well G 449

Location: SW¼SW¼ sec. 22, T. 55 S., R. 40 E. North of Coral Reef Drive, 0.5 mile east of U. S. Highway 1.

Elevation of land surface: 13.0 ft above mean sea level.

Depth: 105 ft.

Diameter: 2½ in.

	Depth, in feet below land surface	
Limestone, oolitic.....	0	— 19
Limestone, white, sandy, soft.....	19	— 32
Sand, quartz.....	32	— 35
Limestone, white, sandy, hard.....	35	— 41
Sandstone, calcareous, hard.....	41	— 50
Limestone, dense, hard.....	50	— 53
Sandstone, calcareous, with hard and soft layers. Cavities at 57 to 58 and 70 to 73 ft.....	53	— 73
Sand, quartz, very fine.....	73	— 74
Sandstone, calcareous, hard and dense. Cavities from 80 to 82 and 87 to 88 ft...	74	— 95
Sandstone, calcareous, hard, contains some shells.....	95	— 105

Table 127.—Logs of wells in Dade County—Continued

## Well G 450

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 27, T. 55 S., R. 40 E. Kuhn Road 0.5 mile south of Coral Reef Drive.

Elevation of land surface: 9.2 ft above mean sea level.

Depth: 104 ft.

Diameter: 2 $\frac{1}{2}$  in.

	<i>Depth, in feet below land surface</i>
Limestone, oolitic.....	0 — 16
Sandstone, calcareous, hard. Cavity from 19 to 20 ft.....	16 — 21
Sandstone, calcareous, soft, with pockets or layers of fine quartz sand.....	21 — 32
Sandstone, calcareous, hard.....	32 — 33
Sand, quartz, fine.....	33 — 39
Sandstone, white to tan, calcareous, hard. Cavities from 47 to 48 and 59 to 61 ft.....	39 — 61
Sandstone, calcareous, containing pockets or layers of quartz sand.....	61 — 82
Sandstone, calcareous, with hard and soft layers, cavity at 83 to 84 ft.....	82 — 96
Sand, quartz, and small amount of loose calcareous sandstone.....	96 — 104

## Well G 451

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 35, T. 55 S., R. 40 E. Southeast corner of Cutler Road and Richmond Drive.

Elevation of land surface: 12.3 ft above mean sea level.

Depth: 107 ft.

Diameter: 2 $\frac{1}{2}$  in.

	<i>Depth, in feet below land surface</i>
Limestone, oolitic, with quartz sand filling solution holes.....	0 — 19
Sandstone, calcareous, with pockets of quartz sand.....	19 — 28
Cavity.....	28 — 29.5
Sandstone, calcareous, and quartz sand.....	29.5 — 38.5
Sand, quartz, fine to medium.....	38.5 — 41
Sandstone, grayish-white, calcareous, hard.....	41 — 59
Sand, quartz, tan, fine to medium. Contains shell fragments and phosphate grains.....	59 — 68
Sandstone, calcareous, with pockets of medium-grained quartz sand containing shell fragments and phosphate grains.....	68 — 107

Table 127.—Logs of wells in Dade County—Continued

## Well G 469

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 26, T. 55 S., R. 40 E., 20 ft east of Ingraham Highway and 640 ft north of Richmond Drive, Cutler.

Elevation of land surface: 10.5 ft above mean sea level.

Depth: 137 ft.

Diameter: 2 $\frac{1}{2}$  in.

	<i>Depth, in feet below land surface</i>	
Limestone, white-tan, oolitic, soft to medium hard.....	0	- 21
Sandstone, brownish, calcareous, hard, containing small amount of fine to medium quartz grains.....	21	- 48
Limestone, white, sandy, soft. Contains shells and phosphate grains.....	48	- 52
Sandstone, gray-white, calcareous, hard, with fine to medium quartz sand filling solution holes.....	52	- 74
Limestone, white, sandy, shelly, and some quartz sand. Alternating hard and soft layers.....	74	- 111
Sandstone, gray-white, calcareous, shelly, and some quartz sand in pockets....	111	- 117
Shell marl, grayish-green, sandy. Low permeability.....	117	- 126
Marl, greenish, clayey, sandy, and shell fragments. Very low permeability.....	126	- 137

## Well G 471

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 34, T. 55 S., R. 40 E., 30 ft west of Ingraham Highway and 60 ft north of Eureka Drive.

Elevation of land surface: 12.5 ft above mean sea level.

Depth: 119 ft.

Diameter: 2 $\frac{1}{2}$  in.

	<i>Depth, in feet below land surface</i>	
Black topsoil.....	0	- 0.5
Limestone, white to light tan, oolitic, soft to medium hard, becoming sandy towards base.....	0.5	- 31
Limestone, grayish-white, sandy, hard, containing quartz sand in solution holes. High permeability to 108 ft.....	31	- 66
Limestone, white, sandy, shelly, containing <i>pockets</i> of white quartz sand.....	66	- 68
Sandstone, gray and white, calcareous, very hard.....	68	- 107
Sandstone, grayish-white, calcareous, hard, and some fine to medium quartz sand.....	107	- 111
Marl, greenish, sandy, silty and shelly. Low permeability.....	111	- 119

Table 127.—*Logs of wells in Dade County*—Continued

## Well G 472

Location: NW¼NW¼ sec. 25, T. 55 S., R. 40 E., 25 ft south of intersection of Coral Reef Drive and Ludlum Road.

Elevation of land surface: 15.7 ft above mean sea level.

Depth: 98 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Black topsoil.....	0 — 1
Limestone, light-tan, oolitic, becoming sandy toward base.....	1 — 30
Sandstone, grayish-white, calcareous, and some quartz sand in solution holes. High permeability.....	30 — 76
Limestone, white, sandy, containing pockets white fine to medium, quartz sand, and phosphate grains. High permeability.....	76 — 88
Limestone, white, sandy, shelly, containing pockets white fine to medium, quartz sand. High permeability.....	88 — 98

## Well G 474

Location: SW¼NW¼ sec. 10, T. 56 S., R. 40 E., 0.2 mile south of Ingraham Highway and 20 ft south of Tenella Boulevard.

Elevation of land surface: 4.5 ft above mean sea level.

Depth: 107 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Topsoil and muck.....	0 — 1.5
Limestone, light-tan, oolitic, soft to medium hard.....	1.5 — 18
Sandstone, tan to brownish, calcareous, containing some fine to medium, quartz sand. Sand more abundant toward base.....	18 — 26
Sandstone, grayish-white, calcareous, very hard.....	26 — 31
Sandstone, light-tan to grayish-white, calcareous, soft, with some fine to medium, quartz sand. High permeability.....	31 — 44
Limestone, white, sandy, shelly, containing white fine to medium, quartz sand in pockets, with grains of phosphate throughout. High permeability.....	44 — 106
Marl, gray-green, shelly, sandy, sprinkled with phosphate grains. Low permea- bility.....	106 — 107

## Well G 491

Location: NE¼NE¼ sec. 24, T. 57 S., R. 39 E. Intersection of Mowry Drive and Six Mile Road.

Elevation of land surface: 3.0 ft above mean sea level.

Depth: 38 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Fill.....	0 — 4

Table 127.—Logs of wells in Dade County—Continued

## Well G 491—Continued

	<i>Depth, in feet below land surface</i>
Limestone, oolitic, with sand filling solution holes.....	6.5 — 23
Limestone, white, hard.....	23 — 26
Limestone, tan, very hard.....	26 — 38

## Well G 518

Location: NE¼NW¼ sec. 30, T. 56 S., R. 40 E. South Allapattah Road and Coconut Palm Drive.

Elevation of land surface: 5.0 ft above mean sea level.

Depth: 90 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 — 1
Limestone, cream colored, oolitic. Soft to hard.....	1 — 17
Sandstone, light-tan, calcareous. Hard, with pockets of fine white quartz sand.	17 — 30
Sandstone, light-tan to white, calcareous, shelly, soft, containing quartz sand in solution holes. High permeability.....	30 — 46
Sandstone, white, calcareous, hard, with pockets of quartz sand. High permeability.....	46 — 62
Cavity.....	62 — 63
Sandstone, porous, shelly, calcareous, with some quartz sand in solution holes. High permeability.....	63 — 75
Limestone, hard, shelly, with some soft sandy limestone. Little sand in solution holes. High permeability.....	75 — 79
Marl, gray, shelly, sandy. Low permeability.....	79 — 90

## Well G 519

Location: SW¼ sec. 21, T. 54 S., R. 41 E., Coconut Grove Park, 450 ft NW. of Biscayne Bay, Miami.

Elevation of land surface: about 9.0 ft above mean sea level.

Depth: 44.5 ft.

Diameter:

	<i>Depth, in feet below land surface</i>
Topsoil, black.....	0 — 0.5
Limestone, oolitic with small amount of quartz sand.....	0.5 — 18.5
Sand, quartz, light-tan, and few shells.....	18.5 — 25.5
Sandstone, light-tan, calcareous. Hard and soft layers.....	25.5 — 44.5

Table 127.—*Logs of wells in Dade County—Continued*

## Well G 525

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 33, T. 53 S., R. 41 E., 0.2 mile west of NW. 27th Avenue and 50 ft south of NW. South River Drive, Miami.

Elevation of land surface: 7.0 ft above mean sea level.

Depth: 113 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Road fill and topsoil.....	0 — 3.5
Limestone, white to light-tan, oolitic, soft, increasing in fine quartz sand toward base.....	3.5 — 25
Sandstone, white to grayish-white, and light-tan, calcareous. Contains small solution holes filled with fine to medium quartz sand; increasing number toward base.....	25 — 56
Sandstone, white to gray-white, calcareous, hard. Several small solution holes, filled with sand, between 64 and 66 ft.....	56 — 70
Sandstone, grayish-white, calcareous, shelly, soft. Riddled with solution holes. Increasing amount of shells and sand toward base. Several small cavities between 72 and 78 ft.....	70 — 98.5
Sandstone, light-tan, calcareous. Very hard.....	98.5 — 101
Sandstone, white to gray-white, calcareous, containing few shells at top, increasing amount of sand and shells toward bottom.....	101 — 113

## Well G 527

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 20, T. 57 S., R. 40 E., 2.1 miles east of Six Mile Road on south side of North Canal.

Elevation of land surface: 3 ft above mean sea level.

Depth: 51 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Road fill and marl.....	0 — 7
Limestone, white, oolitic, soft.....	7 — 14
Sandstone, gray to tan, calcareous, with quartz sand filling solution holes. Very hard dense layers from 22 to 27 ft and 33 to 37 ft.....	14 — 51

## Well G 548

Location: SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 53 S., R. 41 E. Pinecrest Drive and La Villa Drive, Miami Springs.

Elevation of land surface: 6.5 ft above mean sea level.

Depth: 97 ft.

Diameter: 2 in.

	<i>Depth, in feet below land surface</i>
Topsoil.....	0 — 3
Limestone, white to tan, oolitic, with sand filling solution holes.....	3 — 19



Table 127.—Logs of wells in Dade County—Continued

## Well G 548—Continued

	<i>Depth, in feet below land surface</i>
Sand, quartz, tan, and few shell fragments.....	19 - 36
Sandstone, grayish-white, calcareous. Riddled with solution holes partly filled with quartz sand. Very high permeability.....	36 - 60
Sand, quartz.....	60 - 65
Sandstone, grayish-white, calcareous, shelly. Cavity from 75 to 77 ft. High permeability.....	65 - 83
Limestone, white, shelly, soft. High permeability.....	83 - 85
Sandstone, calcareous, shelly, with hard and soft layers, and pockets of quartz sand. Several small cavities between 86 and 92 ft. High permeability.....	85 - 97

## Well G 551

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 36, T. 54 S., R. 39 E., 5 $\frac{1}{2}$  miles west of U. S. Highway 1 and 0.3 mile north of North Kendall Drive.

Elevation of land surface: 8 ft above mean sea level.

Depth: 98 ft.

Diameter: 24 in. to 30 ft and 18 in. to 98 ft.

	<i>Depth, in feet below land surface</i>
Limestone, white, oolitic, hard, solution-riddled, with gray marl filling holes....	0 - 15
Limestone, tan-brown to gray-white, sandy, cavernous, dense, hard, with a soft calcareous layer from 18 to 19 ft. Alternate soft and hard layers from 19 to 84 ft, and numerous molds of fossils from 36 to 40 and 46 to 49 ft. Very high permeability.....	15 - 84
Sandstone, gray-white, calcareous, soft, and quartz sand.....	84 - 88
Marl, gray, sandy, shelly, very soft. Low permeability.....	88 - 98

## Well G 552

Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 27, T. 55 S., R. 39 E., 1.5 miles north of Eureka Drive and 300 ft east of Naranja Road.

Elevation of land surface: 9.0 ft above mean sea level.

Depth: 87 ft.

Diameter: 24 in. to 30 ft and 18 in. to 87 ft.

	<i>Depth, in feet below land surface</i>
Marl, gray.....	0 - 2
Limestone, white, oolitic, soft, and quartz sand.....	2 - 11
Sand, quartz, with pieces of riddled oolitic limestone.....	11 - 17
Limestone, white, sandy, with oolitic sand filling solution holes.....	17 - 28
Limestone, white, sandy, shelly, soft to medium hard with solution holes partly filled with quartz sand. Cavity from 40 to 41 ft. Very high permeability.....	28 - 43
Sand, quartz, grayish-white. Very high permeability.....	43 - 47
Limestone, white sandy, shelly, hard to soft, with numerous small cavities between 58 and 70 ft. Very high permeability.....	47 - 71
Sandstone, calcareous, very soft, extremely riddled with solution holes. Very high permeability.....	71 - 82
Sand, quartz, very fine to medium, average is fine, containing nodules of sandy limestone and numerous shells. Low permeability.....	82 - 87

Table 127.—*Logs of wells in Dade County—Continued*

## Well G 553

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 16, T. 55 S., R. 40 E., 0.5 mile west of U. S. Highway No. 1, on south side of Motu Drive.

Elevation of land surface: 12.0 ft above mean sea level.

Depth: 127 ft.

Diameter: 24 in. to 30 ft and 18 in. to 127 ft.

	<i>Depth, in feet below land surface</i>
Limestone, white, oolitic, sandy.....	0 - 16
Sand, oolitic.....	16 - 36
Limestone, sandy shelly, porous, soft to hard, with grayish-white, very fine quartz sand in solution holes. Cavity from 41 to 45 ft. High permeability to 93 ft.....	36 - 74
Sandstone, calcareous, shelly, soft to hard, and large amount of grayish-white very fine quartz sand. Numerous casts and molds from 78 to 82 ft.....	74 - 93
Sand, quartz, very fine to medium, average is fine, and pieces of nodular grayish-white calcareous sandstone. Low permeability.....	93 - 127

## Well GS 14

Location: T. 51 S., R. 35 E. Johnny Pool's Island approximately 15 miles north of the Tamiami Trail and 39 miles west of Miami.

Elevation of land surface: Approximately 14 ft above mean sea level.

Depth: 51 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Muck.....	0 - 1
Limestone, sandy, soft, of fresh-water origin.....	1 - 2.5
Sandstone, calcareous, and soft gray marl which probably fills solution holes in the sandstone. Low permeability.....	2.5 - 7.5
Sand, quartz, tan, very fine to medium. Low permeability.....	7.5 - 10.5
Sand, quartz, white, and friable calcareous sandstone.....	10.5 - 29.5
Shell marl, gray, sandy. Low permeability.....	29.5 - 32
Shell marl, green, clayey. Practically impermeable.....	32 - 39.5
Shell marl, gray. Consolidated in places to a shelly sandstone. Low permeability to 50 ft.....	39.5 - 51

Table 127.—*Logs of wells in Dade County*—Continued

## Well GS 30

Location: T. 59 S., R. 35 E., 13 miles southwest of Royal Palm State Park on south side of Florida Highway 27.

Elevation of land surface: Approx. 3.5 ft above mean sea level.

Depth: 64 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Fill.....	0 - 1.5
Limestone, oolitic.....	1.5 - 13
Limestone, gray, hard.....	13 - 21
Sandstone, light-gray, calcareous, shelly, hard.....	21 - 34
Sand, quartz, medium to coarse.....	34 - 39
Sand, quartz, fine to medium, and small amount of brown silt.....	39 - 64

Table 128.—Logs of wells in Glades County

## Well GS 18

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, T. 39 S., R. 34 E., 0.15 mile southwest of Indian Prairie Canal on Florida Highway 78.

Elevation of land surface: Approximately 17 ft above mean sea level.

Depth: 75 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surfa</i>
Sand, quartz, carbonaceous.....	0 - 0.5
Sand, quartz.....	0.5 - 3
Shell bed of marine origin.....	3 - 7
Marl, very sandy, few shells and thin layers of calcareous sandstone between 18 and 23 ft.....	7 - 30
Shell bed, black, and medium to coarse quartz sand.....	30 - 44
Shell marl, gray, sandy. Low permeability.....	44 - 54
Marl, light-green, clayey, sandy. Very low permeability.....	54 - 75

## Well GS 28

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 11, T. 42 S., R. 32 E., 200 ft west of Moore Haven High School, Moore Haven.

Elevation of land surface: Approximately 17.5 ft above mean sea level.

Depth: 63 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Peat.....	0 - 3
Sand, quartz.....	3 - 10
Shell bed with large amounts of quartz sand.....	10 - 14
Sand, quartz, and shells.....	14 - 17
Sand, quartz, white, fine to 28 ft, medium to coarse from 28 to 50 ft; contains some calcareous sandstone.....	17 - 50
Sand, quartz, shelly, coarse.....	50 - 63

## Well GS 29

Location: Sec. 22, T. 40 S., R. 32 E., 1 mile east of Lakeport on Florida Highway 78.

Elevation of land surface: Approximately 15.5 ft above mean sea level.

Depth: 75 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, Lake Okeechobee beach ridge.....	0 - 4
Muck and peat.....	4 - 8
Sand, quartz, gray, marly.....	8 - 11

Table 128.—*Logs of wells in Glades County—Continued*

## Well GS 29—Continued

	<i>Depth, in feet below land surface</i>	
Marl, gray, sandy, and few shells.....	11	— 28.5
Marl, light-gray, shelly, very sandy.....	28.5	— 41.5
Sand, quartz, fine to medium, and shells.....	41.5	— 47.5
Marl, greenish-gray, shelly, sandy.....	47.5	— 55.5
Marl, greenish-gray, silty, plastic, and few shell fragments.....	55.5	— 61.5
Marl, gray, sandy, very shelly.....	61.5	— 75

Table 129.—Logs of wells in Hendry County

## Well HE 4

Location: SW¼SE¼ sec. 17, T. 43 S., R. 33 E., 7 miles west of Clewiston and 1 mile south of Florida Highway 80.

Elevation of land surface: Approximately 19 ft above mean sea level.

Depth: 127 ft.

Diameter: 6 in.

	Depth, in feet below land surface	
Fill.....	0	— 2
Sand, quartz.....	2	— 4
Limestone, dark-brown, hard.....	4	— 6
Sand, quartz, light-gray, and shells.....	6	— 15
Sand, quartz, light-gray, shelly, marly.....	15	— 20
Shell marl, gray.....	20	— 30
Shell marl, dark-gray, sandy. Approximately 90 percent of shells are <i>Ostrea</i> sp.	30	— 84
Sand, quartz, gray, marly, shelly, fine to coarse.....	84	— 91
Sand, quartz, and shells.....	91	— 94
Sand, quartz, coarse, with few pebbles and shell fragments.....	94	— 126
Clay, green, sandy. Practically impermeable.....	126	— 127

## Well GS 4

Location: NW¼SW¼ sec. 34, T. 43 S., R. 32 E. Devil's Garden Road, 3.6 miles south of Florida Highway 80.

Elevation of land surface: Approximately 23 ft above mean sea level.

Depth: 50 ft.

Diameter: 4 in.

	Depth, in feet below land surface	
Sand and few shells.....	0	— 6
Sandstone, calcareous, soft, friable, containing solution holes filled with sand. Medium permeability to 10 ft.....	6	— 14
Sand, quartz, tan to brown. Low permeability.....	14	— 23
Sand, quartz, gray to white. Low permeability.....	23	— 50

## Well GS 5

Location: SW¼ sec. 22, T. 45 S., R. 32 E. Devil's Garden Road, 13.8 miles south of Florida Highway 80.

Elevation of land surface: Approximately 27 ft above mean sea level.

Depth: 50 ft.

Diameter: 4 in.

	Depth, in feet below land surface	
Sand, dark-brown, carbonaceous. Low permeability.....	0	— 10
Shell marl, white, chalky. Low permeability.....	10	— 17
Sand, quartz, brown; consolidated in places into a soft calcareous sandstone. Low permeability.....	17	— 22.5

Table 129.—*Logs of wells in Hendry County—Continued*

## Well GS 5—Continued

	<i>Depth, in feet below land surface</i>
Shell marl, sandy, of marine origin. Low permeability.....	22.5 - 25.5
Marl, sandy, shelly. Low permeability.....	25.5 - 40
Marl, sandy, clayey. Practically impermeable.....	40 - 50

Table 130.—Logs of wells in Highlands County

## Well GS 20

Location: SW¼ sec. 31, T. 37 S., R. 31 E., 27 miles west of Okeechobee on Florida Highway 70.

Elevation of land surface: 36 ft above mean sea level.

Depth: 125 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Sand, black, carbonaceous.....	0 — 0.5
Sand, quartz, tan, medium to coarse, and some clay.....	0.5 — 11
Clay, whitish-gray, sandy, and thin layers of gray calcareous sandstone from 24 to 32 ft. Low permeability.....	11 — 32
Limestone, gray, sandy, containing small amount of sandy clay and few phosphate pebbles.....	32 — 46
Clay, sandy, shelly, with thin layers of calcareous sandstone and gravel.....	46 — 67
Sand, quartz, gray, very fine.....	67 — 70
Sandstone, calcareous, soft, and thin beds of clay with pieces of chalk.....	70 — 81
Sand, quartz, gray, indurated, coarse, and thin layers of clay.....	81 — 89
Sandstone, gray, calcareous, soft, containing alternate layers of quartz sand and thin beds of clay. Thin layers of sandy, shelly marl from 99 to 108 ft.....	89 — 108
Marl, green, sandy, and thin layers of soft, calcareous sandstone from 108 to 118 ft.....	108 — 125

## Well GS 21

Location: Sec. 35, T. 36 S., R. 31 E. South side of Istokpoga Canal, approximately 1 mile east of Lake Istokpoga.

Elevation of land surface: 39 ft above mean sea level.

Depth: 65 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Sand, brown, carbonaceous.....	0 — 3
Sand, gray, clayey, alternating with beds of medium quartz sand.....	3 — 9
Sand, brown, clayey.....	9 — 19
Sand, quartz, gray, medium.....	19 — 32
Clay, gray-green, sandy, light and plastic.....	32 — 46
Sand, quartz, gray, fine to medium.....	46 — 53
Marl, blue-green to gray-white, sandy, shelly.....	53 — 65



Table 130.—*Logs of wells in Highlands County—Continued*

## Well GS 22

Location: Sec. 8, T. 36 S., R. 33 E. Intersection of Florida Highway 66 and Kissimmee River, near Fort Bassinger.

Elevation of land surface: Approximately 30 ft above mean sea level.

Depth: 101 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, gray.....	0 - 2
Sand, quartz, reddish-brown, indurated.....	2 - 20
Sand, quartz, gray, and small amount of clay.....	20 - 30
Clay, dark-gray, sandy, medium to coarse.....	30 - 36
Sand, dark-gray, clayey, medium to coarse.....	36 - 48
Shell marl, grayish-green, sandy, and a small amount of calcareous sandstone....	48 - 65
Marl, green, sandy. Few shells.....	65 - 70
Marl, gray, shelly, sandy.....	70 - 85
Marl, bright-green, clayey, containing very little sand or shells.....	85 - 101

Table 131.—*Logs of wells in Martin County*

## Well GS 23

Location: Sec. 23, T. 40 S., R. 40 E., 8.5 miles southeast of St. Lucie Canal on Florida Highway 710.

Elevation of land surface: Approximately 24 ft above mean sea level.

Depth: 90.5 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, gray to black, carbonaceous.....	0	— 3
Shell bed, of marine origin, and quartz sand.....	3	— 8
Sandstone, calcareous, riddled with solution holes largely filled with quartz sand and marine shells.....	8	— 22
Sand, quartz, gray, shelly, fine to medium. Low permeability.....	22	— 68
Sand, quartz, dark-gray, shelly, marly. Small amount of phosphate pebbles. Low permeability.....	68	— 74
Shell marl, dark-gray, very sandy. Low permeability.....	74	— 90.5

## Well M 12

Location: Sec. 27, T. 39 S., R. 42 E., 200 ft east of U. S. Highway 1, and 0.3 mile north-east of pumphouse, Hobe Sound.

Elevation of land surface: 22 ft above mean sea level.

Depth: 117 ft.

Diameter: 12 in.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, white.....	0	— 5
Sand, quartz, tan, shelly.....	5	— 18
Sand, quartz, white to tan.....	18	— 39
Sandstone, calcareous, shelly.....	39	— 73
Sand, quartz, white, fine to medium, and nodular sandstone.....	73	— 79
Sandstone, gray, calcareous, hard.....	79	— 81
Sandstone, shelly, calcareous, almost a coquina.....	81	— 84
Sand, quartz, white, very fine to medium.....	84	— 95
Sandstone, tan to gray, shelly, hard.....	95	— 106
Sandstone, shelly, grading into coquina.....	106	— 117

Table 132.—Logs of wells in Okeechobee County

## Well GS 16

Location: Sec. 18, T. 34 S., R. 36 E., 19 miles north of Okeechobee, and 2 miles east of Fort Drum.

Elevation of land surface: 50 ft above mean sea level.

Depth: 90 ft.

Diameter: 4 in.

	Depth, in feet below land surface	
Sand, quartz, gray.....	0	— 2.5
Sand, dark-brown, carbonaceous, indurated "hardpan".....	2.5	— 6
Sand, quartz, dark-brown, medium.....	6	— 12
Sand, quartz, dark-brown, medium to coarse, and a small amount of friable calcareous sandstone.....	12	— 20
Sand, quartz, light-tan to gray, fine to medium.....	20	— 44
Sand, quartz, gray, coarse.....	44	— 57
Sand, quartz, gray, and thin layers of clayey marl.....	57	— 62
Sand, quartz, shelly, coarse.....	62	— 73
Shell marl, gray, sandy.....	73	— 90

## Well GS 17

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 19, T. 38 S., R. 35 E., 0.15 mile northeast of Kissimmee River on Florida Highway 78.

Elevation of land surface: Approximately 21 ft above mean sea level.

Depth: 131 ft.

Diameter: 4 in.

	Depth, in feet below land surface	
Sand, quartz, Lake Okeechobee beach ridge.....	0	— 6
Sand, quartz, dark-brown, carbonaceous.....	6	— 9
Muck.....	9	— 12
Sand, quartz, fine to medium. 0.5-ft layer of plastic muck at 23 ft.....	12	— 29
Shell marl, gray, sandy. Low permeability.....	29	— 53
Marl, shelly, light-gray, sandy. Shells principally <i>Pecten</i> sp. Contains a thin layer of hard brown fossiliferous limestone. Low permeability.....	53	— 54.5
Marl, shelly, sandy, phosphatic. Low permeability.....	54.5	— 75
Sand, quartz, medium to coarse.....	75	— 81
Sand, quartz, marly, few shell fragments.....	81	— 90
Sand, quartz, dark-gray, marly. Low permeability.....	90	— 110.5
Marl, greenish-gray, shelly, sandy. Low permeability.....	110.5	— 123
Sand, quartz, greenish-gray, marly, fine to medium. Low permeability.....	123	— 131

Table 132.—*Logs of wells in Okeechobee County—Continued*

## Well GS 19

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 36, T. 38 S., R. 36 E. West side Florida Highway 15, 0.1 mile north of Martin County Line.

Elevation of land surface: Approximately 16 ft above mean sea level.

Depth: 80 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>	
Sand, quartz, Lake Okeechobee beach ridge.....	0	3.5
Muck.....	3.5	5
Quartz, sand, marl, marine shell bed, and thin layer fresh-water limestone, in order from top to bottom.....	5	9
Shell bed, sandy, and lenses of fine quartz sand.....	9	15
Marl, gray, shelly, sandy. Low permeability.....	15	26
Sand, quartz, fine to medium, and shells. Low permeability.....	26	35.5
Shell bed, sandy, and small amount of marl. Low permeability.....	35.5	46
Shell marl, very sandy. Low permeability.....	46	49
Marl, very sandy, and few shell fragments. Low permeability.....	49	66
Marl, sandy, sticky, and very few shells. Low permeability.....	66	80

Table 133.—Logs of wells in Palm Beach County

## Well GS 2

Location: T. 45 S., R. 36 E. Florida Highway 25, 3.5 miles south of Bolles Canal.

Elevation of land surface: 13.1 ft above mean sea level.

Depth: 50 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Muck and peat.....	0 -- 6.8
Sandstone, calcareous, hard, shelly, containing both marine and fresh-water fossils. Low permeability.....	6.8 -- 16.5
Marl, shelly, poorly consolidated in places to a friable shelly sandstone. Low permeability.....	16.5 -- 30.4
Sand and shells, probably a sandy shell marl. Low permeability.....	30.4 -- 36.5
Sandstone, calcareous, shelly.....	36.5 -- 38.2
Marl, shelly, sandy in places, containing thin hard layers where the marl is con- solidated into limestone. Low permeability.....	38.2 -- 49
Sand, quartz, very fine. Low permeability.....	49 -- 50

## Well GS 3

Location: Sec. 8, T. 44 S., R. 36 E., 3 miles west of South Bay, and 1 mile south of  
Florida Highway 80.

Elevation of land surface: 15 ft above mean sea level.

Depth: 50 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Muck and peat.....	0 -- 7.5
Shell marl, sandy, with layers of hard, flinty limestone and soft white limestone. Permeable in parts.....	7.5 -- 23.5
Shell marl, gray to dark-gray, sandy. Few thin layers of rock between 32 and 33 ft. Low permeability.....	23.5 -- 34.5
Limestone, sandy, shelly, hard.....	34.5 -- 36
Shell marl, sandy. Low permeability.....	36 -- 50

## Well GS 6

Location: T. 45 S., R. 38 E. Florida Highway 827, 7.2 miles south of its intersection with  
Florida Route 80.

Elevation of land surface: Approximately 15 ft above mean sea level.

Depth: 55 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 -- 1.5
Muck and peat.....	1.5 -- 7.5
Shell marl, white, with brackish-water fossils.....	7.5 -- 11

Table 133.—*Logs of wells in Palm Beach County*—Continued

## Well GS 6—Continued

	<i>Depth, in feet below land surface</i>
Shell marl, sandy, alternating with limestone and calcareous sandstone.....	11 — 14.5
Sand, tan, shelly, Low permeability.....	14.5 — 18.5
Sand, quartz, very fine, Low permeability.....	18.5 — 26.5
Shell marl, sandy, Low permeability.....	26.5 — 38.5
Shell marl, partly consolidated, Low permeability.....	38.5 — 43.5
Shell marl, soft and sandy, Low permeability.....	43.5 — 55

## Well GS 7

Location: T. 44 S., R. 39 E. Florida Highway 80, 0.5 mile southwest of intersection with Florida Highway 716.

Elevation of land surface: Approximately 15 ft above mean sea level.

Depth: 50 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 — 2
Muck.....	2 — 13
Limestone, of fresh and brackish-water origin, Low permeability.....	13 — 16
Shell marl, sandy, in places poorly consolidated, Low permeability.....	16 — 21.5
Sand, quartz, with few shells, Low permeability.....	21.5 — 30
Shell marl, light to dark-gray, sandy, Low permeability.....	30 — 50

## Well GS 8

Location: T. 43 S., R. 41 E. Florida Highway 80, 0.35 mile west of intersection with Florida Highway 7.

Elevation of land surface: Approximately 17 ft above mean sea level.

Depth: 51 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, fine to medium, Low permeability.....	0 — 3
Sandstone, calcareous, riddled with solution holes, Low permeability.....	3 — 5.5
Sand, quartz, tan, and shells, Low permeability.....	5.5 — 10
Sand, quartz, tan, fine, Low permeability.....	10 — 35.5
Sand, quartz, light-green, very fine, Low permeability.....	35.5 — 44
Sand, quartz, containing organic material, Low permeability.....	44 — 47
Sand, quartz, light-gray, with shell fragments, Hard calcareous sandstone layer from 48 to 49 ft.....	47 — 51

Table 133.—*Logs of wells in Palm Beach County—Continued*

## Well GS 11

Location: T. 47 S., R. 40 E. South side of Hillsboro Canal, 11 miles west of Florida Highway 7.

Elevation of land surface: Approximately 12 ft above mean sea level.

Depth: 96.5 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Road fill.....	0 — 2.5
Muck and peat.....	2.5 — 7
Sand and marl.....	7 — 8.5
Shell marl, dark-gray, sandy.....	8.5 — 18.5
Sand, quartz, gray-white, fine.....	18.5 — 23
Sandstone, calcareous, hard, containing both marine and fresh-water fossils. Probably alternating marine and fresh-water beds.....	23 — 29
Sand, quartz, very fine, shelly in places. Low permeability.....	29 — 47.5
Sand, quartz, shelly, fine, and some nodular sandstone.....	47.5 — 50
Sand, quartz, gray, very fine, containing a few shell fragments. Low permeability.	50 — 92
Sandstone, calcareous, shelly, soft.....	92 — 96.5

## Well GS 12

Location: Sec. 6, T. 47 S., R. 41 E. Approximately 6 miles west of Florida Highway 7, and 4 miles north of Hillsboro Canal.

Elevation of land surface: Approximately 15.5 ft above mean sea level.

Depth: 50 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Peat.....	0 — 13.5
Marl, white, sandy, of fresh-water origin. Practically impermeable.....	13.5 — 14.5
Sandstone, dark-gray, calcareous, a few marine shells.....	14.5 — 16.5
Shell marl, sandy, containing both marine and fresh-water fossils. Low permeability.....	16.5 — 30
Sand, quartz greenish-gray, shelly and some nodular sandstone. Low permeability.....	30 — 36
Sand and shells, gray, and dark-gray calcareous sandstone.....	36 — 40
Sand, quartz, very fine.....	40 — 47
Shell marl, consolidated to shelly limestone in places.....	47 — 50

Table 133.—*Logs of wells in Palm Beach County—Continued*

## Well GS 24

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, T. 41 S., R. 41 E., 3.6 miles north of Canal Point on Florida Highway 15.

Elevation of land surface: Approximately 16 ft above mean sea level.

Depth: 70 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Muck and peat.....	0 — 12.5
Marl, dark-gray, and few shells.....	12.5 — 15
Limestone, light-gray, hard.....	15 — 23.5
Sandstone, calcareous, shelly, with lenses and pockets of quartz sand.....	23.5 — 43.5
Sand, quartz, fine, and few shell fragments.....	43.5 — 45
Shell bed and medium to coarse quartz sand. Shell make up approximately 60 to 70 percent of sample. Small amount of shelly calcareous sandstone.....	45 — 65
Marl, greenish-gray, shelly, sandy. Low permeability.....	65 — 70

## Well GS 25

Location: Sec. 20, T. 42 S., R. 37 E., 0.3 mile east of Florida Highway 15, and 2 miles south of Pahokee.

Elevation of land surface: Approximately 15.5 ft above mean sea level.

Depth: 59 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Peat.....	0 — 11.5
Marl, gray, of fresh-water origin.....	11.5 — 15
Shell bed and quartz sand.....	15 — 18
Shell marl, gray, of marine origin.....	18 — 27
Limestone, light-gray, sandy.....	27 — 30
Shell bed, dark-gray, and some marl and quartz sand.....	30 — 34.5
Sandstone, light to dark-gray, calcareous, shelly, and some quartz sand.....	34.5 — 45
Marl, gray, shelly, sandy, and some nodular, shelly, calcareous sandstone. Low permeability.....	45 — 59

## Well GS 26

Location: T. 42 S., R. 36 E. On northern tip of Kreamer Island, 8 miles northwest of Belle Glade.

Elevation of land surface: Approximately 14 ft above mean sea level.

Depth: 91.5 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Muck and peat.....	0 — 8
Limestone, hard, of fresh-water origin.....	8 — 9



Table 133.—*Logs of wells in Palm Beach County—Continued*

## Well GS 26—Continued

	<i>Depth, in feet below land surface</i>
Marl, white, chalky.....	9 — 12.5
Limestone, dark-gray, nodular, and marl.....	12.5 — 14.5
Shell marl, gray, and some nodular calcareous sandstone.....	14.5 — 25
Sandstone, gray, calcareous, shelly, hard.....	25 — 40
Shell marl, gray, sandy, and very small amount of calcareous sandstone.....	40 — 82
Sand, quartz, gray, medium to coarse, and a few shell fragments.....	82 — 91.5

## Well GS 27

Location: Sec. 34, T. 43 S., R. 35 E., 1.7 miles northwest of Lake Harbor on Florida Highway 80.

Elevation of land surface: Approximately 16.5 ft above mean sea level.

Depth: 56.5 ft.

Diameter: 4 in.

	<i>Depth, in feet below land surface</i>
Muck and peat.....	0 — 8.5
Marl, gray, indurated, of fresh-water origin.....	8.5 — 9
Shell marl and shell beds, containing both fresh-water and marine fossils .....	9 — 18.5
Sandstone, calcareous, shelly, nodular, and shelly sand.....	18.5 — 23.5
Sand, quartz, and shells. Low permeability.....	23.5 — 27.5
Sand, quartz, marly, and thin layers of calcareous sandstone between 34 and 39 ft. Low permeability.....	27.5 — 46
Shell bed, containing varying amounts of quartz sand and marl. Low permeability.	46 — 56.5

## Well PB 93

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 21, T. 44 S., R. 43 E. 8th Avenue North, 0.1 mile west of A St., Lake Worth.

Elevation of land surface: 14 ft above mean sea level.

Depth: 95 ft.

Diameter: 6 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, white, fine to coarse.....	0 — 20
Sand, quartz, white, with shell fragments, and a large amount of nodular, shelly, calcareous sandstone. Medium permeability.....	20 — 57
Shells and medium-grained, white quartz sand.....	57 — 69
Sand, quartz, gray, fine to medium, with very few shell fragments.....	69 — 80
Shells and fine-grained, white to tan quartz sand.....	80 — 95

Table 133.—*Logs of wells in Palm Beach County—Continued*

## Well S 394

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 21, T. 46 S., R. 43 E., 300 ft west of Swinton Avenue, and 200 ft southwest of ground storage tank, Delray Beach well field.

Elevation of land surface: 20 ft above mean sea level.

Depth: 216 ft.

Diameter: 10 to 16 in.

	<i>Depth, in feet below land surface</i>
Sand, quartz.....	0 — 42
Sandstone, calcareous.....	42 — 42.5
Coquina, coarse.....	42.5 — 43
Sandstone, calcareous, and coquina.....	43 — 67
Sandstone, calcareous, and shells.....	67 — 93
Coquina.....	93 — 108
Limestone, chalky.....	108 — 108.5
Sandstone, calcareous.....	108.5 — 109
Sand, quartz, and shells.....	109 — 135
Sandstone, calcareous, nodular, with quartz sand, and shells.....	135 — 216

Table 134.—Log of well in St. Lucie County

## Well St. L 4

Location: City of Fort Pierce well field, 30 ft east of City supply well 3.

Elevation of land surface: 25 ft above mean sea level.

Depth: 135 ft.

Diameter: 2½ in.

	<i>Depth, in feet below land surface</i>
Sand, quartz, gray to white, medium.....	0 - 10.5
Sand, quartz, light-tan, medium to coarse.....	10.5 - 16.0
Sand, quartz, dark-brown, weakly cemented, forming "hardpan".....	16.0 - 21.0
Sand, quartz, dark-brown to black, carbonaceous. Water from this interval is highly colored.....	21.0 - 38.0
Sand, quartz, dark-reddish-brown, medium to coarse. Water is very highly colored.....	38.0 - 60.0
Alternating layers of dark-gray, sandy, marl, gray, quartz sand, and clayey marl. Practically impermeable. Acts as an aquiclude.....	60.0 - 74.0
Shell and marl.....	74.0 - 75.0
Sand, quartz, gray, fine, and some shells. Also, considerable amount of organic material of deep reddish-brown color, probably old mangrove swamp. Low permeability.....	75.0 - 79.0
Sand, quartz, dark-gray, fine, approximately 20 percent of sample composed of shells.....	79.0 - 90.5
Shell bed, dark-gray, with small amount of quartz sand, and marl.....	90.5 - 104
Shell marl, dark-gray, sandy.....	104 - 112
Shell marl, light-gray, sandy, with layers of gray clayey marl.....	112 - 122
Shell marl, dark-gray sandy, and small amount of soft calcareous sandstone, probably occurring in thin layers.....	122 - 133
Marl, green, sandy, shelly, with small amount of soft calcareous sandstone.....	133 - 135

# MUNICIPAL WATER SUPPLIES

Table 135.—*Municipal water supplies in Broward County*

## Dania

Population in 1945:	2,979
Source and date of information:	Paul Heckert, water plant superintendent, March 1948.
Ownership:	Municipal.
Source of supply:	Three wells.  Well 1, 1st Avenue SW, and 1st Street. Depth, 60 to 65 ft; diameter, 8 in.; type, open; equipped with 400-gpm turbine pump and 7½-hp. electric motor; static water level, 8.0 ft below land surface, September 19, 1947.  Well 2, Beach Boulevard and 1st Avenue SW. Depth 60 to 65 ft; diameter, 6 in.; type, open; equipped with 750-gpm centrifugal pump and Buick motor; static water level approximately the same as well 1.  Well 3, Parker Street SW, and 3rd Avenue; well drilled in 1948 and not yet in service.
Pumpage (estimated):	Average 400,000 gpd in 1946.
Storage:	Ground reservoir: 163,000 gals. Elevated tank: 200,000 gals.
Treatment:	Aeration and chlorination.
Analysis:	See section on Quality of ground and surface waters.

## Deerfield Beach

Population in 1945:	2,008
Source and date of information:	Mr. Hutchinson, plant operator, March 1948.
Ownership:	Municipal.
Source of supply:	Two wells.  Well 1, 50 ft north of ground reservoir, NW, 1st Street and 1st Avenue. Depth, 72 ft; diameter, 6 in.; Type, open.  Well 2, 50 ft west of well 1, Drilled in 1947; depth, 72 ft; diameter, 8 in.; type, open; equipped with 300-gpm centrifugal pump and 5-hp. electric motor.
Pumpage (estimated):	Average 300,000 gpd in 1946.
Storage:	Elevated tank: 100,000 gals.

Table 135.—Municipal water supplies in Broward County—Continued  
Deerfield Beach—Continued

Treatment: Aeration.  
Analysis: See section on "Quality of ground and surface waters."

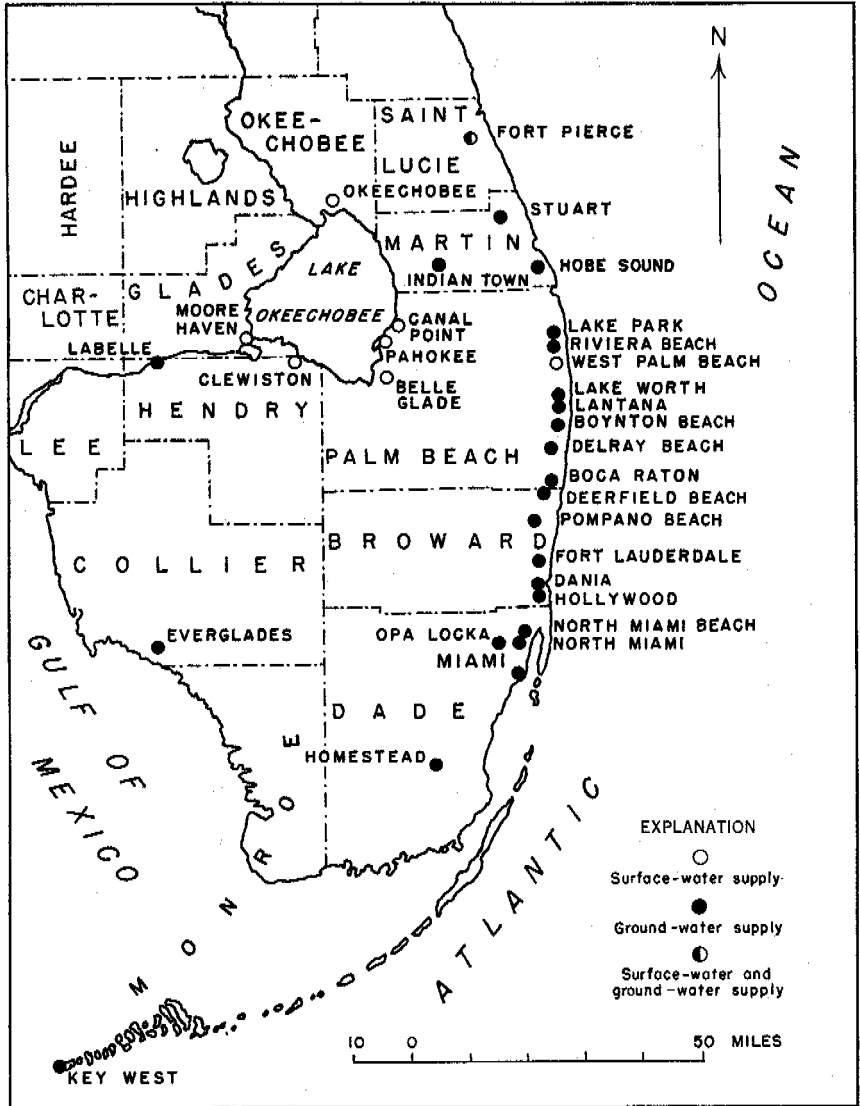


Figure 223. — Index map showing municipal water supplies in southern Florida.

Table 135.—*Municipal water supplies in Broward County*—Continued

Fort Lauderdale

Population in 1945: 26,185

Source and date of information: Charles Fiveash, water plant superintendent, March 1948.

Ownership: Municipal.

Source of supply: Twelve wells.

Well 1. Fort Lauderdale Golf Course. This well does not contribute to the City supply but is used exclusively for watering the golf course. It was drilled and developed in the same manner as well 2.

Wells 2, 3, 4, 5, and 6. Fort Lauderdale Golf Course, approximately 7 miles from the Atlantic Ocean and 1¼ miles north of the North New River Canal. Drilled in 1927; depth, 90 ft; casing set approximately 80 ft below land surface, with 10 ft of open hole below bottom of casing; deepened in 1940 to 135 ft; 35 ft of screen installed with 10 ft of blank pipe below the screen; gravel-packed; diameter, 12 in.; 400-gpm centrifugal pumps and 7½ hp-electric motors.

Well 7. Fort Lauderdale Golf Course; drilled in 1940; depth, 115 ft; 12-in. casing seated 80 ft below land surface with 35 ft of 6-in. screen below the casing; gravel-packed; 500-gpm deep-well turbine pump and 10-hp electric motor.

Well 8. Fort Lauderdale Golf Course. Drilled in 1940; depth, 97 ft; 12-in. casing seated 62 ft below land surface with 35 ft of 6-in. screen below bottom of casing; gravel-packed; 500-gpm deep-well turbine pump and 10-hp electric motor.

Wells 9 and 10. Fort Lauderdale Golf Course. Drilled in 1945; depth, 115 ft; diameter, 12 in.; casing set approximately 80 feet below land surface with 35 ft of screen below casing; gravel-packed; deep-well turbine pumps and 10-hp electric motors.

Well 11. 100 ft east of water plant. Drilled in 1947; depth, 136 ft; diameter, 10 in.; casing seated 125 ft below land surface with 12 ft of open hole below bottom of casing; 600-gpm deep-well turbine pump and 15-hp electric motor; reported yield, 675 gpm with a drawdown of 11 ft.

Well 12. 100 ft east of water plant. Drilled in 1927; depth, 102 ft; diameter, 12 in.; casing seated 92 ft below land surface with 10 ft of open hole below bottom of casing. In 1940, 35 ft of screen was installed below casing; gravel-packed; 400-gpm centrifugal pump and 7½ hp-electric motor.

*Average pumpage (gpd)*

1930.....	565,000	1939.....	1,670,000
1931.....	555,000	1940.....	1,877,000
1932.....	520,000	1941.....	2,230,000
1933.....	697,000	1942.....	2,390,000
1934.....	748,000	1943.....	3,010,000
1935.....	960,000	1944.....	3,765,000
1936.....	1,150,000	1945.....	3,810,000
1937.....	1,295,000	1946.....	4,190,000
1938.....	1,470,000		

Storage: Ground reservoir: 3,750,000 gals. Elevated tanks: 1,050,000 gals.

Treatment: Aeration, lime-silica, filtration, chlorination.

Analysis: See section on Quality of ground and surface waters.

Table 135.—Municipal water supplies in Broward County—Continued

## Hollywood

Population in 1945: 7,740

Source and date of information: R. F. Armstrong, water plant superintendent, March 1948.

Ownership: Municipal.

Source of supply: Five wells.

Wells located from 5 to 500 ft north of water plant, which is on Hollywood Boulevard, approximately 2 miles west of U. S. Highway 1. Depth, 70 ft; diameter, 10 to 12 in.; type, open; two wells equipped with 650- and 700-gpm turbine pumps and 20-hp electric motors; two with 900-gpm centrifugal pumps and 20-hp electric motors; one with 1,000-gpm centrifugal pump and 75-hp electric motor; static water level, 10.5 ft below land surface, March 29, 1948.

Two salt-water wells on Hollywood Beach; depth, 80 ft; diameter, 12 in.; equipped with 300-gpm centrifugal pump and 7½- and 15-hp electric motors; salt water is used for zeolite regeneration.

Average pumpage (gpd)			
1941.....	740,000	1944.....	990,000
1942.....	622,000	1945.....	1,075,000
1943.....	758,000	1946.....	1,145,000

Storage: Ground reservoir: 1,000,000 gals. Elevated tank: 960,000 gals.

Treatment: Aeration, chlorination, and zeolite softening.

Analysis: See section on Quality of ground and surface waters.

## Pompano Beach

Population in 1945: 2,445.

Source and date of information: W. E. Smith, water plant superintendent, March 1948.

Ownership: Municipal.

Source of supply: One well adjacent to pumping station. Depth, 170 ft; diameter, 12 in.; type, open; equipped with 750-gpm centrifugal pump and 60-hp electric motor; emergency stand-by 10-hp gasoline motor with 200-gpm centrifugal pump; static water level, 12 ft below land surface, March 29, 1948.

Pumpage (estimated): Average 328,000 gpd in 1946.

Storage: Elevated tank: 300,000 gals.

Treatment: None

Analysis: See section on Quality of ground and surface waters.

Table 136.—*Municipal water supplies in Collier County*

## Everglades

Population in 1945:	629
Source and date of information:	E. L. Lezotte, chief engineer, Everglades Railway, Light and Power Company, March 1948.
Ownership:	Collier Corporation.
Source of supply:	Three wells.  Well 1. 0.5 mile south of water plant and 500 ft west of Collier County Court House. Depth, 640 ft; diameter, 4 in.; type, open; natural flow, 80 gpm (reported), and 22 pounds pressure at land surface; 300-gpm centrifugal pump with 20-hp electric motor pumps water from all three wells to ground reservoir at water plant.  Well 2. 150 ft NW. of well 1. Depth, 640 ft; diameter, 4 in.; natural flow, 60 gpm (reported), and 21 pounds pressure at land surface.  Well 3. 150 ft north of well 1; depth, 640 ft; diameter, 6 in.; type, open; natural flow, 120 gpm (reported).
Pumpage (estimated):	Average 130,000 gpd in 1946.
Storage:	Ground reservoir: 300,000 gals. Elevated tank: 75,000 gals.
Treatment:	Chlorination.
Analysis:	See section on Quality of ground and surface waters.



Table 137.—*Municipal water supplies in Dade County*

Homestead	
Population in 1945:	3,015
Source and date of information:	G. W. Ivy, water plant superintendent, March 1946.
Ownership:	Municipal.
Source of supply:	Two wells.  Well 1. East side of Homestead Power and Light Plant; depth, 65 ft; diameter, 10 in.; type, open; equipped with 650-gpm centrifugal pump and 30-hp electric motor; static water level, 7.0 ft below land surface, March 31, 1948; emergency stand-by, 1,500-gpm centrifugal pump and 150-hp electric motor.  Well 2. 1½ miles north of well 1; depth, 65 ft; diameter, 12 in.; 6-in. drop line to 20 ft; 650-gpm centrifugal pump and 30-hp electric motor.
Pumpage (estimated):	Average 800,000 gpd in 1946.
Storage:	Elevated tank; 100,000 gals.
Treatment:	None.
Analysis:	See section on Quality of ground and surface waters.
Miami	
Population in 1945:	245,577 (Miami, Miami Beach, Coral Gables, Hialeah, Miami Springs, El Portal, Miami Shores, Surfside, and Biscayne Park).
Source and date of information:	W. L. Black, water plant superintendent, March 1948.
Ownership:	Municipal.
Source of supply:	Twenty-two wells.  Well 1. Lower well field, Miami Springs Golf Course, approximately 1 mile south of water plant; drilled in 1923; depth, 67 ft; diameter, 14 in.; casing seated 60 ft below land surface with 7 ft of open hole below bottom of casing; 5,000-gpm centrifugal pump and 75-hp electric motor. Yield, 6 million gpd with drawdown of 7.6 ft, as determined by a pumping test run November 19 to 26, 1926; water level, 7.6 ft below land surface, May 27, 1948.  Well 2. 800 ft SW. of well 1; drilled in 1924; depth, 96 ft; diameter, 12 in.; casing seated 79 ft below land surface with 17 ft of open hole below bottom of casing; 2,500-gpm centrifugal pump and 40-hp electric motor; water level, 8.6 ft below land surface, May 27, 1948.  Well 3. 1,000 ft NW. of well 1; drilled in 1924; depth, 62 ft; diameter, 12 in.; casing seated 52 ft below land surface with 10 ft of open hole below bottom of casing; 2,500-gpm centrifugal pump and 40-hp electric motor; water level, 9.5 ft below land surface, May 27, 1948.  Well 4. 600 ft north of well 1; drilled in 1924; depth, 94 ft; diameter, 12 in.; casing seated 83 ft below land surface with 11 ft of open hole below bottom of casing; 2,500-gpm centrifugal pump and 40-hp electric motor; water level, 8.2 ft below land surface, May 27, 1948.

Table 137.—*Municipal water supplies in Dade County*—Continued

## Miami—Continued

Well 5. 1,700 ft NW. of well 1; drilled in 1924; depth, 100 ft; diameter, 14 in.; casing seated 82 ft below land surface with 18 ft of open hole below bottom of casing; 2,500-gpm centrifugal pump and 40-hp electric motor; water level, 8.8 ft below land surface, May 27, 1948.

Well 6. About 2,500 ft west of well 1; drilled in 1924; depth, 62 ft; diameter, 14 in.; casing seated 49 ft below land surface with 13 ft of open hole below bottom of casing; 2,500-gpm centrifugal pump and 40-hp electric motor; water level, 8.9 ft below land surface, May 27, 1948.

Well 7. About 3,800 ft SE. of well 1; drilled in 1924; depth, 62 ft; diameter, 14 in.; casing seated 48 ft below land surface with 14 ft of open hole below bottom of casing; 2,500-gpm centrifugal pump and 40-hp electric motor; water level, 8.8 ft below land surface, May 27, 1948.

Well 8. About 2,100 ft SE. of well 1; drilled in 1924; depth, 64 ft; diameter, 12 in.; casing seated 50 ft below land surface with 14 ft of open hole below bottom of casing; 2,500-gpm centrifugal pump and 40-hp electric motor; water level, 7.5 ft below land surface, May 27, 1948.

Wells 9 and 10. Moore Park, NW. 36th Street and 8th Avenue; drilled in 1926; depth, 98 and 145 ft; diameter, 14 in.; casing seated 88 and 116 ft below land surface with 10 and 29 ft of open hole below bottom of casing; 2,500 gpm centrifugal pumps and 40-hp electric motors; stand-by wells.

Wells 11, 12, and 13. At Water Plant, Hialeah; drilled in 1928; depth, 55 to 91 ft; diameter, 14 in.; casing seated 43 to 85 ft below land surface with 6 to 12 ft of open hole below bottom of casing; 2,500 gpm centrifugal pumps and 40-hp electric motors.

Wells 14, 15, 16, and 17. Upper well field, approximately 0.2 to 0.6 mile west of Water Plant, Hialeah; drilled in 1936; depth, 73 to 91 ft; diameter, 14 in.; casing seated from 67 to 79 ft below land surface with 6 to 13 ft of open hole below bottom of casing; 2,500-gpm centrifugal pumps and 40-hp electric motors; water level, 6.4 ft below land surface, May 27, 1948.

Wells 18, 19, 20, 21, and 22. Upper well field, approximately 0.6 to 0.9 mile west of Water Plant, Hialeah; drilled in 1945; depth, 90 to 94 ft; diameter, 14 in.; casing seated 80 to 86 ft below land surface with 7 to 10 ft of open hole below bottom of casing; 2,500-gpm centrifugal pumps and 40-hp electric motor.

Average pumpage (gpd)	
1926.....	12,684,000
1927.....	12,631,000
1928.....	10,056,000
1929.....	9,707,000
1930.....	10,253,000
1931.....	11,352,000
1932.....	11,876,000
1933.....	11,520,000
1934.....	12,208,000
1935.....	14,220,000
1936.....	15,147,000
1937.....	16,846,000
1938.....	17,845,000
1939.....	19,574,000
1940.....	22,486,000
1941.....	23,536,000
1942.....	24,508,000
1943.....	27,911,000
1944.....	30,611,000
1945.....	33,903,000
1946.....	36,596,000

## Storage:

Elevated tank; 1,000,000 gals.; four concrete ground reservoirs, 2,500,000 gals. each; and four steel ground reservoirs, 2,500,000 gals. each. Not included are the storage facilities maintained by other municipalities using the Miami supply.

## Treatment:

Chlorination, filtration, lime, and soda-ash.

## Analysis:

See section on Quality of ground and surface waters.

Table 137.—*Municipal water supplies in Dade County*—Continued

## North Miami

Population in 1945:	2,776
Source and date of information:	D. W. Jones, superintendent of Public Works, March 1948.
Ownership:	Municipal.
Source of supply:	Two wells.  Well 1. NE. 125th Street and 200 ft east of 8th Avenue; depth, 60 ft; diameter, 8 in.; 750-gpm centrifugal pump and 15-hp electric motor; type, open; emergency stand-by, 500-gpm pump and Chrysler motor.  Well 2. 55 ft east of well 1; depth, 60 ft; diameter, 8 in.; type, open; 400-gpm centrifugal pump and 7½-hp electric motor.
Pumpage (estimated):	Average 400,000 gpd in 1946.
Storage:	Ground reservoir; 150,000 gals. Elevated tank; 60,000 gals.
Treatment:	Aeration and chlorination, and lime.
Analysis:	See section on Quality of ground and surface waters.

## North Miami Beach

Population in 1945:	1,082.
Source and date of information:	W. Oeffler, water plant superintendent, March 1948.
Ownership:	Sunny Isles Water Company.
Source of supply:	Two wells.  Located 1 mile west of Sunny Isles water plant; depth, 80 ft; diameter, 8 in. and 6 in. (stand-by); 8-in. well semi-gravel-packed for 7 ft; 6-in. well open; deep-well 500-gpm turbine pump and 20-hp electric motor; emergency stand-by, 500-gpm centrifugal pump and gasoline motor; static water level, 10 ft below land surface, March 29, 1948.
	<i>Average pumpage (gpd)</i>
	1939..... 88,000      1945..... 103,500
	1940..... 66,000      1946..... 135,000
	1944..... 87,000
Storage:	Ground reservoir; 150,000 gals.
Treatment:	Chlorination, lime, soda, silica, and sulfuric acid.
Analysis:	See section on Quality of ground and surface waters.

## Opalocka

Population in 1945:	1,855
Source and date of information:	H. C. Weber, water plant superintendent, March 1948.

Table 137.—*Municipal water supplies in Dade County*—Continued

## Opalocka—Continued

Ownership:	Municipal.
Source of supply:	Two wells.  Well 1. Northeast corner of aerator, between Burlington St. and Seaboard Air Line Railroad; depth, 59 ft; diameter, 6 in.; 4-in. drop line to 20 ft; 500-gpm centrifugal pump and 7½-hp electric motor; static water level, 7.5 ft below land surface, March 30, 1948.  Well 2. East side of aerator, 30 ft south of well 1; depth, 58 ft; diameter, 6 in.; 4-in. drop line to 20 ft; 300-gpm centrifugal pump and 10-hp electric motor; static water level same as well 1.  Emergency stand-by, 500-gpm centrifugal pump and gasoline motor.
Pumpage (estimated):	Average 200,000 gpd, in 1946.
Storage:	Elevated tank, 75,000 gals.
Treatment:	Aeration, chlorination, ammoniation, and lime alum.
Analysis:	See section on Quality of ground and surface waters.

Table 138.—*Municipal water supply in Glades County*

## Moore Haven

Population in 1945:	599
Source and date of information:	E. Lundy, water plant superintendent, March 1948.
Ownership:	Municipal.
Source of supply:	Lake Okeechobee; approximately 1,000 ft north of water plant; intake line in dredged channel extending into Lake Okeechobee; intake, centrifugal pump and 15-hp electric motor; discharge, 180-gpm centrifugal pump and electric motor.
Pumpage (estimated):	Average 100,000 gpd in 1946.
Storage:	Elevated tank, 50,000 gals.
Treatment:	Aeration, chlorination, hydrated lime, aluminum sulfate, and filtration.
Analysis:	See section on Quality of ground and surface waters.

Table 139.—*Municipal water supplies in Hendry County*

## Clewiston

Population in 1945:	1,917
Source and date of information:	W. L. Brantley, Jr., city engineer; and S. J. Finley, water plant operator, March 1948.
Ownership:	Municipal.
Source of supply:	Lake Okeechobee; 500 ft north of water plant; 12-in. intake line extends approximately $\frac{1}{2}$ mile into Lake Okeechobee; two 180-gpm centrifugal pumps with 5-hp motors connected to intake line; discharge, two 180-gpm centrifugal pumps and 15-hp motors.
Pumpage (estimated):	Average 170,000 gpd in 1946.
Storage:	Elevated tank, 75,000 gals.
Treatment:	Chlorination, aeration, aluminum sulfate, hydrated lime, and activated carbon.
Analysis:	See section on Quality of ground and surface waters.

## LaBelle

Population in 1945:	848
Source and date of information:	Mrs. Hall, and R. W. Davenport, Mayor, March 1948.
Owner:	Mrs. Hall.
Source of supply:	Well 0.4 mile north of Florida Highway 80, one block east of Florida Highway 78, and 250 ft south of Caloosahatchee River; drilled between 1915 and 1920; depth, 602 ft; diameter, 6 in.; flowing well; flows directly into distribution main under its own pressure.
Pumpage (estimated):	5,000 gpd in 1946. This is supplemented by several private wells.
Storage:	None.
Treatment:	None.
Analysis:	See section on Quality of ground and surface waters.

Table 140.—*Municipal water supplies in Martin County*

## Hobe Sound

Population in 1945:	749
Source and date of information:	Albert King, water plant superintendent, March 1948.
Owner:	Hobe Sound Company.
Source of supply:	Three wells.  Wells located 200 ft east of U. S. Highway 1 and 0.25 mile northwest of pumping station; depth 78 to 117 ft; diameter, 12 in.; type, open; 250-gpm deep-well turbine pumps and electric motors; two booster pumps (275-gpm centrifugal pumps) and 5-hp electric motors; static water level, approximately 10 ft below land surface, March 24, 1948.
Pumpage (estimated):	Average 200,000 gpd in 1946.
Storage:	Ground reservoir: 440,000 gals. Elevated tank: 75,000 gals.
Treatment:	None.
Analysis:	See section on Quality of ground and surface waters.

## Indian Town

Population in 1945:	475
Source and date of information:	W. F. Fortune, water plant operator, March 1948.
Owner:	Indian Town Development Corporation.
Source of supply:	10 wells.  Five wells on west side of water plant connected in manifold and five on southwest side connected in manifold; depth, 25 to 30 ft; diameter, 2 in.; type, open; one 140-gpm centrifugal pump with 3-hp electric motor is used to pump all wells; similar pump and motor used as stand-by.
Pumpage (estimated):	75,000 gpd during winter season; 60,000 gpd during summer, in 1946.
Storage:	Ground reservoir: 56,000 gals. Elevated tank: 80,000 gals.
Treatment:	Aeration, chlorination, and lime-soda ash.
Analysis:	See section on Quality of ground and surface waters.

## Stuart

Population in 1945:	2,516
Source and date of information:	F. J. Walton, water plant superintendent, March 1948.
Ownership:	Municipal.

Table 140.—*Municipal water supplies in Martin County*—Continued

## Stuart—Continued

Source of supply:	Three wells.  One well is in water plant, another is 75 ft north of plant, and the third is 75 ft south of plant; depth, 75 to 85 ft; diameter, 6 in.; 6 ft of screen in bottom section of each well; two 200-gpm centrifugal pumps with 5-hp electric motors; static water level, approximately 14 ft below land surface, March 24, 1948.
Pumpage (estimated):	Average 135,000 gpd in 1946.
Storage:	Ground reservoir: 40,000 gals. Elevated tank: 60,000 gals.
Treatment:	Aeration, chlorination, and filtration.
Analysis:	See section on Quality of ground and surface waters.



Table 141.—*Municipal water supply in Monroe County*

## Key West

Population in 1945:	14,246.
Source and date of information:	T. H. Griggs, water plant superintendent, and A. C. Husband, Public Works officer, U. S. Naval Station, Key West, Florida, June 1948.
Ownership:	Key West Aqueduct Commission.
Source of supply:	Three wells.  Located on the mainland adjacent to the pumping station, which is about 2 miles southwest of Homestead, Dade County; two 10-in. gravity-feed wells and one 20-in. well, ranging in depth from 40 to 62 ft; type, open; static water level, 7.5 ft below land surface, April 2, 1948.
Pumpage (estimated):	Average 2,600,000 gpd in 1946. This supply serves several other Keys.
Storage:	20,000-gallon concrete sump with 1,750-gpm turbine pump and 50-hp electric motor.
Treatment:	Chlorination, phosphate, and lime.
Analysis:	See section on Quality of ground and surface waters.

Table 142.—*Municipal water supply in Okeechobee County*

## Okeechobee

Population in 1945:	1,435
Source and date of information:	J. R. Minehan, Jr., water plant operator, March 1948.
Ownership:	Municipal.
Source of supply:	Lake Okeechobee.  Water plant approximately 500 ft north of Lake Okeechobee; 12-in. intake line extends 400 ft into Lake; intake, two 500-gpm centrifugal pumps with 7½-hp electric motors; discharge, two 250-gpm centrifugal pumps with 20-hp motors.
Pumpage (estimated):	Average 225,000 gpd during winter season; 150,000 gpd during summer, 1946.
Storage:	Elevated tank, 150,000 gals.
Treatment:	Aeration, chlorination, activated carbon, and lime.
Analysis:	See section on Quality of ground and surface waters.

Table 143.—*Municipal water supplies in Palm Beach County*

## Belle Glade

Population in 1945:	4,800
Source and date of information:	C. IL Throop, water plant superintendent, March 1948.
Ownership:	Municipal.
Source of supply:	Lake Okeechobee.  Water plant approximately 3½ miles east of Lake Okeechobee and 200 ft south of Hillsboro Canal; 16-in. intake line extends from plant to Lake; intake, 1,500-gpm centrifugal pump (not in use), 2,100-gpm centrifugal pump (not in use), and 1,050-gpm centrifugal pump in service at present time; discharge, 1,000-gpm centrifugal pump and 50-hp electric motor, and 500-gpm centrifugal pump with 25-hp electric motor.
Pumpage (estimated):	Average 650,000 gpd in 1946.
Storage:	Elevated tank: 50,000 gals.
Treatment:	Chlorination, aeration, alum, activated carbon, and filtration.
Analysis:	See section on Quality of ground and surface waters.

## Boca Raton

Population in 1945:	1,387		
Source and date of information:	W. R. Eddinger, water plant operator, March 1948.		
Ownership:	Municipal.		
Source of supply:	Three wells.  Located 75 to 300 ft from water plant; depth, 106 to 115 ft; diameter, 10 in.; type, open; two wells equipped with 300-gpm centrifugal pumps and 7½-hp electric motors and one well with 1,000-gpm deep-well turbine pump.		
<i>Average pumpage (gpd)</i>			
1930.....	105,000	1939.....	157,000
1931.....	101,000	1940.....	149,000
1932.....	86,000	1941.....	149,000
1933.....	75,000	1942.....	265,000
1934.....	121,000	1943.....	483,000
1935.....	119,000	1944.....	366,000
1936.....	117,500	1945.....	438,000
1937.....	134,000	1946.....	564,000
1938.....	147,000		
Storage:	Ground reservoir: 65,000 gals. Elevated tank: 125,000 gals.		
Treatment:	Chlorination, sodium silicate, and filtration.		
Analysis:	See section on Quality of ground and surface waters.		

Table 143.—*Municipal water supplies in Palm Beach County*—Continued

## Boynton Beach

Population in 1945:	2,001
Source and date of information:	J. E. Raulerson, water plant operator, March 1948.
Ownership:	Municipal.
Source of supply:	Three wells.  On north side of water plant; depth 55 to 65 ft; diameters, 4 in. (one well) and 6 in. (two wells); type, open; equipped with 150-, 200-, and 300-gpm centrifugal pumps and 10-, 20-, and 25-hp motors.
Pumpage (estimated):	Average 245,000 gpd in 1946.
Storage:	Elevated tank: 500,000 gals.
Treatment:	None.
Analysis:	See section on Quality of ground and surface waters.

## Canal Point

Population in 1945:	464
Source and date of information:	T. W. Griffith, water plant operator, March 1948.
Ownership:	United States Sugar Corporation.
Source of supply:	Lake Okeechobee.  Water plant approximately 300 ft east of Lake Okeechobee and 0.2 mile north of West Palm Beach Canal; 6-in. intake line from water plant with a 4-in. line extending about 400 ft into Lake Okeechobee; intake, two 130- and 180-gpm, centrifugal pumps, with 2½- and 5-hp electric motors; discharge, 130-gpm centrifugal pump and 2½-hp electric motor.
Pumpage (estimated):	Average 155,000 gpd in 1946; 86,000 gpd in 1941, and 45,000 gpd in 1933.
Storage:	Ground reservoir: 20,000 gals. Elevated tank: 70,000 gals.
Treatment:	Chlorination and lime-alum.
Analysis:	See section on Quality of ground and surface waters.

## Delray Beach

Population in 1945:	4,943
Source and date of information:	C. E. Black, City Manager, March 1948.
Ownership:	Municipal.

Table 143.—*Municipal water supplies in Palm Beach County*—Continued

## Delray Beach—Continued

Source of supply:	Seven wells.  Wells located 200 to 600 ft west of Swinton Avenue, in vicinity of aerator and elevated tank; wells 1 to 6 drilled in 1929; well 7 drilled in 1940; depths, 65 to 72 ft; diameters, 4 in. (one well), 6 in. (five wells), and 10 in. (one well); well 7 originally drilled to 216 ft and dynamited at 72 ft; 550- to 750-gpm centrifugal pumps and 25- to 30-hp electric motors; well 7 equipped with deep-well turbine pump and electric motor.
Pumpage (estimated):	Average 1,000,000 gpd in 1946.
Storage:	Ground reservoir: 500,000 gals. Elevated tank: 300,000 gals.
Treatment:	Aeration and chlorination.
Analysis:	See section on Quality of ground and surface waters.

## Lake Park

Population in 1945:	537
Source and date of information:	J. A. Wright, water plant operator, March 1948.
Ownership:	Municipal.
Source of supply:	Two wells.  Wells located on east side of pumping plant, 8 ft apart; depth, 40 ft; diameters, 4 and 6 in.; type, open; equipped with centrifugal pump and 10-hp electric motor and a stand-by centrifugal pump with Diesel motor; static water level, about 8 ft below land surface, March 24, 1948.
Pumpage (estimated):	Average, 100,000 gpd during winter season, and 60,000 gpd during summer season in 1946.
Storage:	Elevated tank: 100,000 gals.
Treatment:	None.
Analysis:	See section on Quality of ground and surface waters.

## Lake Worth

Population in 1945:	10,615
Source and date of information:	J. W. Brock, water plant superintendent, March 1948.
Ownership:	Municipal.

Table 143.—*Municipal water supplies in Palm Beach County*—Continued

## Lake Worth—Continued

Source of supply:	Four wells.
	Adjacent to water plant; drilled 1925-1938; depth, 135 ft; gravel-packed, with 50 ft of screen in bottom section; diameter, 12 in.; 750- to 1,300-gpm deep-well turbine pumps with electric motors; static water level, 19 ft below land surface, March 15, 1941.
	Five new wells located about 700 ft south of water plant were put in operation in 1948.
Pumpage (estimated):	Average 2,000,000 gpd in 1946.
Storage:	Elevated tank; 600,000 gals.
Treatment:	Chlorination.
Analysis:	See section on Quality of ground and surface waters.

## Lantana

Population in 1945:	504
Source and date of information:	R. C. Hilbrant, water plant superintendent, March 1948.
Ownership:	Municipal.
Source of supply:	Three wells.
	Wells located south of pump house, 50 ft apart; depth, 54 ft; diameter, 4 in. (two wells) and 8 in. (one well); type, open; the 8-in. well, with a reported yield of 800 gpm with a 6-ft drawdown, is not in use at the present time; 4-in. wells equipped with 350- and 125-gpm centrifugal pumps and 25- and 7½-hp electric motors.
Pumpage (estimated):	Average 135,000 gpd in 1946.
Storage:	Elevated tank; 125,000 gals.
Treatment:	None.
Analysis:	See section on Quality of ground and surface waters.

## Pahokee

Population in 1945:	4,413
Source and date of information:	R. J. Schroder, water plant superintendent, March 1948.
Ownership:	Municipal.
Source of supply:	Lake Okeechobee.
	Water plant is located about 100 ft east of Lake Okeechobee and 200 ft west of Florida Highway 15; 14-in. intake line extends 300 to 400 ft into Lake Okeechobee; intake, centrifugal pump and 5-hp electric motor; discharge, centrifugal pump and 15-hp electric motor.

Table 143.—*Municipal water supplies in Palm Beach County—Continued*

## Pahokee—Continued

Pumpage (estimated):	Average 250,000 gpd in 1946.
Storage:	Ground reservoir: 125,000 gals. Elevated tank: 75,000 gals.
Treatment:	Aeration, chlorination, alum, lime, and sodium silicate.
Analysis:	See section on Quality of ground and surface waters.

## Riviera Beach

Population in 1945:	2,512.
Source and date of information:	Charles Dick, water plant operator, March 1948.
Ownership:	Municipal.
Source of supply:	Five wells.  Three wells spaced 30 ft apart located at the town hall; one well is 0.5 mile north and one 0.2 mile south of the town hall; depths, 85 ft; diameters, 6 in.; water is pumped directly into mains from the wells north and south of the town hall; wells at town hall are connected in manifold and equipped with one 175-gpm centrifugal pump with a 10-hp electric motor; emergency stand-by, centrifugal pump and gasoline motor.
Pumpage (estimated):	Average 200,000 gpd in 1946.
Storage:	Elevated tank: 50,000 gals.
Treatment:	None.
Analysis:	See section on Quality of ground and surface waters.

## West Palm Beach

Population in 1945:	44,195
Source and date of information:	J. G. Simmons, water plant superintendent, March 1948.
Ownership:	West Palm Beach Water Company.
Source of supply:	Clear Lake and one well. Water plant on south edge of Clear Lake, 300 ft north of Tamarind Avenue; intake in Clear Lake; three centrifugal pumps, 2,100-, 5,250-, and 10,500-gpm, with 40-, 100-, and 125-hp electric motors; well water used only in chemical make-up of water treatment.

Table 143.—*Municipal water supplies in Palm Beach County—Continued*

## West Palm Beach—Continued

<i>Average pumpage (gpcd)</i>			
1922.....	1,455,000	1935.....	3,645,000
1923.....	1,850,000	1936.....	3,535,000
1924.....	2,460,000	1937.....	4,000,000
1925.....	3,780,000	1938.....	4,455,000
1926.....	5,470,000	1939.....	4,275,000
1927.....	4,600,000	1940.....	4,050,000
1928.....	4,120,000	1941.....	4,140,000
1929.....	3,805,000	1942.....	4,280,000
1930.....	3,840,000	1943.....	4,520,000
1931.....	3,845,000	1944.....	5,370,000
1932.....	3,515,000	1945.....	6,010,000
1933.....	3,090,000	1946.....	6,220,000
1934.....	3,340,000		

Storage: Ground reservoir: 3,000,000 gals. Elevated tank: 2,000,000 gals.

Treatment: Chlorination, filtration, alum, and lime.

Analyses: See section on Quality of ground and surface waters.



Table 144.—*Municipal water supply in St. Lucie County*

## Fort Pierce

Population in 1945:	9,482
Source and date of information:	Harry Gahn, water plant superintendent, March 1948.
Ownership:	Municipal.
Source of supply:	Six wells and Savanna.

Wells located adjacent to the water plant, spaced 300 to 500 ft apart; approximately 2.5 miles south of the downtown area of Fort Pierce and 0.4 mile west of Indian River; drilled in 1939; depths, 118 to 168 ft; diameters, 8 in.; type, gravel-packed, each well having 20 to 60 ft of screen set at varying depths; 300-gpm deep-well turbine pumps and 10-hp electric motors; well water utilized since March 1939.

Savanna. The Savanna, extending south from the water plant, is 12 to 15 miles long and 0.26 to 0.5 mile wide and lies to the west of and adjacent to the Pleistocene beach ridge that borders the western margin of Indian River, a salt-water lagoon; two 1200-gpm and one 750-gpm centrifugal pumps and electric motors.

Average pumpage (gpd)			
1928.....	477,000	1938.....	634,000
1929.....	370,000	1939.....	706,000
1930.....	406,000	1940.....	733,000
1931.....	382,000	1941.....	708,000
1932.....	346,000	1942.....	514,000
1933.....	495,000	1943.....	1,180,000
1934.....	415,000	1944.....	1,865,000
1935.....	468,500	1945.....	2,035,000
1936.....	568,000	1946.....	1,250,000
1937.....	538,000		

Storage:	Ground reservoir: 1,500,000 gals. Elevated tank: 75,000 gals.
Treatment:	Chlorination, aeration, lime, activated carbon, and filtration.
Analysis:	See section on Quality of ground and surface waters.

## INTERPRETATION OF APPARENT RESISTIVITY CURVES

Table 145.—*Interpretations of apparent resistivity curves at Silver Bluff*

### LINE 1.

*Location:* in Coconut Grove Park, 45 ft east of stone wall at western boundary and about 375 ft north of water's edge, Biscayne Bay. Direction of line-N.  $60^{\circ}$  W.

*Electrical depth profile:*

<i>Feet</i>	
0 — 6	Thin soil layer and dry oolite.
6 — 42	Oolite, sand, and calcareous sandstone saturated with water of low chloride content.
42 — 100	Zone of water of high chloride content; character of formation not identified from curve.

### LINE 2.

*Location:* Along SW. 35th Avenue in center of SW. 9th Terrace. Direction of line-N.  $2^{\circ}$  W.

*Electrical depth profile:*

<i>Feet</i>	
0 — 9	Thin soil layer and dry oolite.
9 — 166	Sand, oolite, and calcareous sandstone with water of low chloride content.
166 — 240	Marl, clay, or possibly sandstone with water of high chloride content.

### LINE 3.

*Location:* 275 ft east of Douglas Road and 390 ft north of Coral Way. Direction of line-N.  $7^{\circ}$  W.

*Electrical depth profile:*

<i>Feet</i>	
0 — 11	Thin sandy soil cover and dry oolite
11 — 145	Sand, oolite, and calcareous sandstone with water of low-chloride content.
145 — 200	Marl, clay, or possibly sandstone with water of high chloride content.

### LINE 4.

*Location:* 27 ft from center of Dixie Highway at SW. 28th Terrace, along F. E. C. Railroad right-of-way. Direction of line-S.  $67^{\circ}$  W.

*Electrical depth profile:*

<i>Feet</i>	
0 — 6.4	Thin sandy soil cover, and dry oolite.
6.4 — 29	Sand and oolite with water of low chloride content.
29 — 100	Sand and calcareous sandstone with water of moderately high chloride content.

Table 145.—*Interpretations of apparent resistivity curves at Silver Bluff*—Continued

## LINE 5.

*Location:* On Boys' Club grounds at SW. 32nd Avenue and S. Dixie Highway. Abandoned because of interference from buried pipes in sprinkling system on the grounds.

## LINE 6

*Location:* Along SW. 31st Avenue, 0.2 mile north of S. Dixie Highway. Direction of line-N, 5° W.

*Electrical depth profile:*

<i>Feet</i>	
0 — 3.2	Thin soil and sand.
3.2 — 14	Dry oolite.
14 — 140	Oolite and calcareous sandstone saturated with water of relatively higher chloride concentration than that of line 4 at this depth.

Table 146.—*Interpretations of apparent resistivity curves at Cutler*

## LINE 1.

*Location:* 324 ft west of sea wall, 390 ft west of water's edge and 35 ft southwest of well G-467 on south side of Richmond Drive offset. Direction of line-N, 84° E.

*Electrical depth profile:*

<i>Feet</i>	
0 — 9	Thin soil layer and dry oolite.
9 — 73	Oolite and calcareous sandstone containing water of moderately high chloride content.
73 — 200	Calcareous sandstone containing water of high chloride content.

## LINE 2

*Location:* 280 ft from center of Cutler Road on south side of Richmond Drive opposite store and gasoline station. Direction of line-N, 86° E.

*Electrical depth profile:*

<i>Feet</i>	
0 — 11	Thin sandy soil and dry oolite.
11 — 69	Oolite and calcareous sandstone containing water of moderately high chloride content.
69 — 200	Calcareous sandstone containing water of high chloride content.

## LINE 3.

*Location:* 0.15 mile west of Cutler Road on Richmond Drive, on south side of road 120 ft west of S.B.T. & T. Co. pole No. 47. Direction of line-E.-W.

*Electrical depth profile:*

<i>Feet</i>	
0 — 10	Thin sandy soil and dry oolite.
10 — 36	Oolite and calcareous sandstone containing water of low-chloride content.
36 — 80	Calcareous sandstone and some limestone containing nearly fresh water.
80 — 300	Limestone and calcareous sandstone with water of higher chloride content than at any other horizon in the well; marl, clay.

Table 146.—*Interpretations of apparent resistivity curves at Cutler*—Continued

## LINE 4.

*Location:* Opposite well G 469 on West Cutler Road north of Richmond Drive.

*Electrical depth profile:*

<i>Feet</i>		
0	— 11	Thin sandy topsoil and dry oolite.
11	— 34	Oolite and calcareous sandstone containing water of moderately low chloride content.
34	— 91	Calcareous sandstone and limestone containing nearly fresh water.
91	— 300	Limestone and calcareous sandstone with water of higher chloride content than at any other place in the depth profile; marl and clay.

## LINE 5.

*Location:* 400 ft east of line 4 and midway between East and West Cutler Roads. Direction of line-N. 85° E.

*Electrical depth profile:*

<i>Feet</i>		
0	— 7.7	Thin soil and dry oolite.
7.7	— 32	Oolite and calcareous sandstone containing water of moderately low chloride content.
32	— 78	Calcareous sandstone and some limestone containing nearly fresh water.
78	— 200	Limestone and some calcareous sandstone containing water of higher chloride content than at any other level in the depth profile; marl and clay.

## LINE 6.

*Location:* Coral Reef Drive offset, ¼ mile west of Biscayne Bay. Direction of line-S. 52° E.

*Electrical depth profile:*

<i>Feet</i>		
0	— 7.4	Soil and oolite; considerable concentration of chloride.
7.4	— 26	Oolite and calcareous sandstone; lower chloride content in this horizon.
26	— 200	Calcareous sandstone and limestone; very high chloride content.

## LINE 7.

*Location:* Along Ludlum Road, 287 ft north of well G-472. Direction of line-N.-S.

*Electrical depth profile:*

<i>Feet</i>		
0	— 5.8	Sandy topsoil and oolite.
5.8	— 11.8	Hard limestone, rather impervious.
11.8	— 48	Oolite and calcareous sandstone with water of appreciably higher chloride content.
48	— 160	Calcareous sandstone and limestone saturated with water of very high chloride content.

## LINE 8.

*Location:* 0.22 mile west of Ludlum Road on Coral Reef Drive. Direction of line-E. -W.

*Electrical depth profile:* Closely similar to line 7 up to the 50-ft electrode interval. However, the line was abandoned because of evident interference from the metal fence parallel and closely adjacent to the line of electrodes. No further interpretation made.

Table 146.—*Interpretations of apparent resistivity curves at Cutler—Continued*

## LINE 9.

*Location:* 375 ft west of Ludlum Road and 0.1 mile north of Coral Reef Drive. Direction of line—N. 88° E.

*Electrical depth profile:*

<i>Feet</i>		
0	— 15	Dry sandy soil and oolite.
15	— 103	Oolite, calcareous sandstone, and limestone containing water of moderately low chloride content.
103	— 200	Limestone containing water of very high chloride content; marl and clay.

## LINE 10.

*Location:* 0.3 mile south of Coral Reef Drive along west side of Kuhn Drive near well G-450. Direction of line—N.-S.

*Electrical depth profile:*

<i>Feet</i>		
0	— 8.25	Soil and oolite, dry.
8.25	— 44	Oolite, limestone, and calcareous sandstone containing water of low chloride content.
44	— 121	Limestone and calcareous sandstone containing water of very low chloride content.
121	— 200	Marl and clay.

## LINE 11.

*Location:* 0.15 mile north of well G-472, along east side of Ludlum Road. Direction of line—N.-S.

*Electrical depth profile:*

<i>Feet</i>		
0	— 5.8	Dry soil and oolite.
5.8	— 11.8	Hard limestone, impervious.
11.8	— 72	Oolite, limestone, calcareous sandstone, and sand containing water of low chloride content.
72	— 200	Calcareous sandstone containing water of moderately high chloride content; marl and clay.

## LINE 12.

*Location:* 0.35 mile east of U. S. Highway 1 along Coral Reef Drive. Direction of line E.—W.

*Electrical depth profile:*

<i>Feet</i>		
0	— 10.5	Dry sandy soil and oolite.
10.5	— 72	Oolite, limestone, calcareous sandstone, and sand with water of low chloride content.
72	— 122	Limestone, sand, and calcareous sandstone containing water of very low chloride content.
122	— 300	Marl and clay.

Table 146.—*Interpretations of apparent resistivity curves at Cutler*—Continued

## LINE 13.

*Location:* 0.15 mile east of Allapattah Drive along north side of Goulds Canal, 0.15 mile east of well G-518. Direction of line-E.-W.

*Electrical depth profile:*

<i>Feet</i>	
0 — 8	Soil, sand, and oolite.
8 — 39	Hard oolite and calcareous sandstone with water of low chloride content.
39 — 300	Calcareous sandstone with water of moderately low chloride content; marl, clay.

Table 147.—*Interpretations of apparent resistivity curves at Fort Lauderdale*

## LINE 1.

*Location:* 520 ft west of Florida Highway 7 on Rode Road, along north side of North New River Canal. Direction of line-N. 75° W.

*Electrical depth profile:*

<i>Feet</i>	
0 — 2.7	Road fill and sand.
2.7 — 3.1	Black muck or oolite saturated with water of rather high chloride content.
3.1 — 68	Oolite and compact sand of relatively high resistivity, indicating water of low chloride content.
68 — 250	Sand, calcareous sandstone, and limestone of moderately high resistivity, indicating an increase of chloride content over the previous layer.
250 — 300	Sand and marl of low resistivity; water probably of high chloride content.

## LINE 2

*Location:* 0.9 mile west of Florida Highway 7 on Rode Road along north side of North New River Canal. Direction of line-N. 75° W.

*Electrical depth profile:*

<i>Feet</i>	
0 — 2.5	Sandy soil.
2.5 — 14	Black muck or oolite saturated with water of rather high chloride content.
14 — 125	Oolite, compact sand, calcareous sandstone, and limestone; relatively high resistivity, indicating water of low chloride content. Zones of probable salt-water contamination near 40 and 68 ft.
125 — 265	Marl, calcareous sandstone, limestone, sand, and clay; moderately low resistivity, indicating an increase in chloride content with respect to the layer immediately above.
265 — 350	Marl, clay, and sand; very low resistivity with correspondingly high chloride content.

Table 147.—*Interpretations of apparent resistivity curves at Fort Lauderdale—Continued*

## LINE 3.

*Location:* 0.7 mile west of Florida Highway 7 along north side of Peters Road. Direction of line—E.-W.

*Electrical depth profile:*

		<i>Feet</i>	
0	—	8	Loose, very dry sand.
8	—	15	Sand containing organic material moistened with water of low chloride content.
15	—	112	Sand and sandy limestone of relatively higher resistivity than the above layer, indicating low chloride content.
112	~	200	Calcareous sandstone and limestone in the upper part of this layer is of moderately low resistivity, indicating the presence of higher chloride concentrations than in the layer above; lower part, below 175 ft is probably clay and marl of low resistivity and high chloride content.

## LINE 4.

*Location:* 0.85 mile west of Florida Highway 7 on Peters Road. Abandoned because of loose, dry sand at the surface; unable to obtain electrode contact.

## LINES 5 AND 6.

*Location:* 1.2 miles west of Florida Highway 7 along north side of Peters Road. Direction of line—N.-E. (Line 5 was abandoned because of instrument trouble and Line 6 was taken in its place from the same center).

*Electrical depth profile:*

		<i>Feet</i>	
0	—	4.4	Loose, very dry sand.
4.4	—	17	Muck and some sand, probably of relatively high chloride content as its resistivity is low.
17	—	155	Sand, sandy limestone, and calcareous sandstone; water probably of low chloride content.
155	~	250	Sand with some clay and marl; chlorides increasing with depth and becoming high below 250 ft.
~ 250	—	300	Marl, clay, and sand with water of rather high chloride content.

## LINE 7.

*Location:* First street south of Country Club Road at intersection of first street west of Florida Highway 7, along north side of street. Direction of line—E.-W.

*Electrical depth profile:*

		<i>Feet</i>	
0	—	11	Loose, very dry sand.
11	—	145	Sand, sandstone, and sandy limestone; resistivity relatively high, indicating low chloride content.
145	—	300	Clay, marl, and sand; water probably of moderately high chloride content.

## LINE 8.

*Location:* 0.2 mile east of Florida Highway 7 along south side of Broward Blvd. Direction of line—E.-W. Observations taken to the 200-ft interval distance, but results beyond the 15-ft interval distance are of no value; unable to send current through the dry sand cover.

Table 147.—*Interpretations of apparent resistivity curves at Fort Lauderdale—Continued*

## LINE 9.

*Location:* 0.22 mile south of new W. Broward Blvd., along east side of former Broward Blvd.  
*Direction of line—N.-S.*

*Electrical depth profile:*

<i>Feet</i>	
0 — 12.5	Loose, dry sand.
12.5 — 92	Sand with small amount of organic material, calcareous sandstone, and sandy limestone; moderately high resistivity, indicating little or no chloride in the water.
92 — 300	Sandy limestone, sand, calcareous sandstone, and some clay and marl; water in this zone does not have high chloride content.

## LINE 10.

*Location:* 0.9 mile east of Florida Highway 7 along south side of Broward Blvd. *Direction of line—E.-W.*

*Electrical depth profile:*

<i>Feet</i>	
0 — 11.5	Loose, dry sand.
11.5 — 152	Sand with small amount of organic material, calcareous sandstone, and sandy limestone; moderately high resistivity, indicating little or no chloride in the water.
152 — 232	Sandy limestone and calcareous sandstone that is either compact or saturated with relatively fresh water.
232 — 300	Probably clay, marl and sand; the chloride content of this zone is comparatively low, but the apparent resistivity curves indicate an increased salinity west of the center station.

## LINE 11.

*Location:* Along south side of NW. 6th St. at 28th Ave. *Direction of line—E.-W.*

*Electrical depth profile:*

<i>Feet</i>	
0 — 4.5	Dry, loose sand.
4.5 — 12.5	Sand with small amount of organic material; chloride content of water is low, as indicated by the moderately high resistivity.
12.5 — 250	Sand, calcareous sandstone, and sandy limestone of slightly higher resistivity than the previous layer; contains water of low chloride content.
250 — 400	Probably clay and marl with water of rather high chloride content. Because of the variability of $P_1$ and $P_2$ , only a qualitative interpretation is given for this bottom layer.

## LINE 12.

*Location:* 0.22 mile west of Westwood Road and 0.15 mile north of Davie Blvd. *Direction of line—E.-W.*



Table 147.—*Interpretations of apparent resistivity curves at Fort Lauderdale—Continued*

## LINE 12.—Continued

*Electrical depth profile:*

<i>Feet</i>	
0	— 10.2 Sand, loose and very dry.
10.2 — 61	Sand and calcareous sandstone; high resistivity, indicating water of very low chloride content.
61 — 300	Sandy limestone, calcareous sandstone, and sand; medium-high resistivity, indicating water of low chloride content.

## LINE 13.

*Location:* 0.4 mile directly north of resistivity line 12. Direction of line-E.-W.

*Electrical depth profile:*

<i>Feet</i>	
0	— 6.1 Loose, dry sand.
6.1 — 12.5	Moist sand with some organic material.
12.5 — 38	Compact sandy limestone or calcareous sandstone of high-resistivity.
38 — 300	Sandy limestone, calcareous sandstone, and sand; medium-high resistivity, indicating water of low chloride content.