





# Surficial Geology of the Chester Quadrangle Morris County, New Jersey

New Jersey Geological and Water Survey  
Open-File Map OFM 150  
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Pamphlet with Table 1 to accompany map

**Table 1.** Records of selected wells and borings in the Chester quadrangle. Identifiers indicated by 3-, 4- or 5-digit numbers are N. J. Department of Environmental Protection well permit numbers. All are prefixed by “25-“ except as indicated. Identifiers prefixed by “DOT” are N. J. Department of Transportation borings. Discharge, depth, and geologic log are from drillers’ records as submitted to the N. J. Department of Environmental Protection. Discharge is in gallons per minute, depth is in feet below land surface, and geologic logs are as submitted by the driller, with minor spelling and format changes. A few surficial descriptions, and many bedrock descriptions, are condensed for brevity. “NR” indicates that the information is not reported on the well record. Note that drillers’ descriptive terms, particularly for rock types, are not always geologically accurate. For example, “sandstone” in many cases is used to describe granular gneiss saprolite, and “limestone” and “trap” are used by some drillers to refer to gneiss. For several wells, a geologist’s log based on examination of mud rotary samples is available and is provided after the driller’s log. Comments in brackets are authors’ inferences and observations.

Well Number	Identifier	Discharge	Depth	Geologic Log
1	24351	15	0-25 overburden 25-150 limestone	
2	24356	25	0-28 overburden 28-125 limestone	
3	25081	15	0-35 sand and clay 35-75 limestone 75-250 granite	
4	25083	15	0-30 clay, sand, and gravel 30-100 limestone	
5	25082	10	0-70 overburden 70-200 limestone	
6	25090	25	0-60 overburden 60-225 limestone	
7	24355	30+	0-15 overburden 15-150 limestone	
8	23402	15	0-50 sand and clay 50-250 gray granite	
9	25088	30	0-50 overburden 50-250 sandstone	
10	25089	30	0-40 overburden 40-200 sandstone	
11	24584	6	0-50 sand 50-300 sandstone	
12	24810	5	0-6 overburden 6-500 granite	
13	20138	12	0-13 overburden 13-72 gray granite	

Well Number	Identifier	Discharge	Depth	Geologic Log
14	23934	NR	0-10 10-16 16-19	sand sand with clay broken rock and clay
15	29997	20	0-2 2-15 15-90 90-230	soil clay clay and rotten rock granite
16	10694	20	0-75 75-110	clay and hardpan with limestone boulders granite mixed with iron ore
17	26466	9	0-4 4-323	stony hardpan granite
18	28107-1	1	0-2 2-38 38-101	dirt sand and gravel granite
19	23932	NR	0-10 10-18	sand with clay weathered granite
20	32964	NR		driller's log:  0-10 tan sand, silt and silty clay 10-24.5 tan clay and gravel 24-32 boulders 32-61.5 tan sand, silt and gravel 61.5-62.5 boulder 62.5-67 tan sand, silt and gravel 67-73 boulder 73-150 tan sand, silt, clay and gravel 150-221 heavily weathered dolomite and siltstone with clay layers  geologist's log:  0-10 sandy soil 10-15 rock fragments (quartz), pea gravel, clay 15-20 clay, pea gravel 20-26 clay, smaller gravel 26-32 boulders 32-40 gravel, pebbles, rock fragments 40-45 same as above, with some silt 45-50 gravel, pebbles, some silt 50-55 gravel, pebbles, some sand, some silt 55-61.5 gravel, pebbles, rock fragments, some silt 61.5-62.5 boulder 62.5-65 gravel, pebbles, rock fragments, some silt 65-75 gravel, pebbles, rock fragments (angular pyroxenes, feldspars, quartz), some sand, clay 75-90 rock fragments (angular quartz), gravel, some clay, silt 90-100 medium sand, some clay 100-105 medium to coarse sand, some clay 105-112 clayey sand, clay, fine to medium sand 112-120 fine to medium sand, clay, gravel, rock fragments (angular quartz, pyroxene, biotite?, chert?) 120-130 sand, clay, rock fragments 130-135 sandy clay 135-140 mostly clay, some sand and gravel 145-150 coarse to very coarse sand, clay, rock fragments, gravel

Well Number	Identifier	Discharge	Depth	Geologic Log
			150-155	clay, medium sand, some rock fragments (chert, weathered dolomite, quartz)
			155-160	same as above, more chert and weathered argillaceous, laminated, and shaly dolomite
			160-165	harder weathered yellow dolomite, shaly clay, chert, some sand
			165-170	highly weathered light brown to light gray dolomite (to clay softness), some chert, very little sand or clay
			170-180	weathered yellowish brown dolomite, red siltstone, chert, quartz
			180-185	same as above, but no quartz
			185-195	weathered yellowish brown dolomite, some harder gray-green dolomite fragments, some chert
			195-220	same as above, but fewer hard gray-green fragments, some red siltstone present
			220-225	same as above, more hard gray-green dolomite fragments, and some quartz (harder drilling)
			225-231.5	same as above, more fresh dolomite fragments
			231.5-233	fracture
			233-234	same as above, larger fragments
			234-242	mostly weathered dolomite with some harder gray-green fragments, some clay
21	40731	NR	0-63	medium to coarse sand, gravel and silt
			63-400	rock
22	22071	12	0-8	overburden
			8-30	sandstone
			30-198	granite
23	21707	30+	0-25	overburden
			222	granite
24	33678	10	0-63	sand and clay
			63-69	brown weathered rock
			69-73	hard gray rock
			73-88	dark gray rock
			88-100	weathered blue, brown, gray rock
			100-160	gray blue rock
			160-200	gray with white and black rock
25	21159	10	0-15	clay
			15-120	granite
26	23332	8	0-8	overburden
			8-175	granite
27	20462	25+	0-6	overburden with boulders
			6-30	clay and sand
			30-45	sand and gravel
			45-123	granite
28	32538-8	NR		driller's log:
			0-10	hardpan, topsoil
			10-60	sand, gravel and silt
			60-118	clay
			118-133	till
			133-137	boulders
			137-161	till or cemented gravel and silt
			161-195	sand, silt and gravel
			195-201	hard weathered rock
			201-207	soft weathered rock

Well Number	Identifier	Discharge	Depth	Geologic Log
			207-214	hard cemented gravel or weathered rock
			214-218	soft cemented gravel or weathered rock
			218-227	hard cemented gravel or weathered rock
			227-242	soft cemented gravel or weathered rock
			242-247	boulders
			247-281	till
			281-295	extremely hard till or weathered rock
			295-312	soft gravel, silt
			312-321	hard weathered rock
			321-331	soft weathered rock
			331-355	medium hard weathered rock
			355-376	very soft gravel, sand and silt
			376-382	more dense gravel and silt
			382-386	boulders
			386-409	soft weathered rock, some clay
			409-422.5	soft weathered rock that caved
				geologist's log:
			0-55	sand and gravel
			55-134	clay and sand
			134-138	boulders
			138-180	clayey medium to coarse sand
			180-195	fine to very coarse sand
			195-201	dark dolomite fragments and light brown weathered dolomite fragments
			201-208	same as above, but softer drilling
			208-214	same as above, but harder drilling
			214-218	same as above, but softer drilling
			218-227	hard, light brown weathered dolomite
			227-242	softer, light-colored dolomite, some dark fragments
			242-247	harder, light-colored dolomite fragments, some dark-colored
			247-262	very hard, light-colored clay, some dark dolomite fragments
			262-265	same as above, with some red clay and red rock, but softer drilling
			265-281	same as above, but harder drilling
			281-289	hard dark dolomite with some clay
			289-295	same as above, but no clay
			295-303	soft, light-colored, weathered dolomite and hard, dark-colored, and some white clay
			303-310	weathered dolomite fragments with red and dark bands, darker portions are crumbly
			310-312	same as above, softer drilling
			312-321	same as above, harder drilling
			321-331	same as above, softer drilling
			331-349	uncertain—many rock fragments of brown sandstone, weathered dolomite, quartz, red sandstone, some yellow-brown clay
			349-353	same as above, harder drilling
			353-359	fractures
			359-370	uncertain—too much material circulating with mud to distinguish cuttings—material includes yellow clay, weathered dolomite, red sandstone, quartz
			370-375	same as above, softer drilling
			375-380	larger rock fragments of brown sandstone, weathered dolomite, quartz, red sandstone,

Well Number	Identifier	Discharge	Depth	Geologic Log
				some yellow-brown clay
			380-382	dark and light-colored weathered, crumbly dolomite, less clay, some reddish-brown sandstone
			382-387	weathered dolomite (harder drilling)
			387-395	very soft, weathered dolomite
			395-400	same as above, with some pink sandstone
			400-409	same as above, but with dark reddish brown clay
			409-412	light brown weathered dolomite
			412-415	same as above with brown clay
			415-416.5	fracture
			416.5-422	larger, light brown, rounded, weathered dolomite fragments
29	20566	25	0-102	sand and small gravel
30	20255	20+	0-3	overburden
			3-5	clay and gravel
			5-23	rotten granite
			23-123	granite
31	24802	6	0-21	overburden
			21-250	granite
32	24187	15	0-120	sand and gravel
33	36392	20	0-2	soil
			2-35	tan sandy clay
			35-70	gray sandy clay
			70-110	dirty sand
			110-140	clean sand and gravel
34	17160	12	0-18	hardpan and large stones
			18-155	silty sand with layers of hardpan
			155-172	soft limestone
35	25610	855	0-10	tanish brown sand
			10-20	yellowish sand
			20-30	tan sand and stones
			30-60	soft gray clay
			60-80	sandy brown clay
			80-90	rock and cobbles
			90-100	brown sandy clay and stones
			100-110	hard gray clay
			110-120	hard gray clay with rocks
			120-140	hard brown clay
			140-143	cemented sand and gravel
			143-144	clay and gravel
			144-154	hard clay
			154-160	hardpan
			160-163	clay and cemented hardpan
			163-165	rocks
			165-175	hard packed cemented sand and gravel
			175-177	tan and white clay
			177-181	cemented sand and gravel
			181-183	limestone
			183-189	clay and rocks
			189-196	orange and yellow clay
			196-200	tan clay
			200-205	limestone
			205-209	layers of rock and clay
			209-214	yellow and white clay
			214-243	soft limestone
			243-265	broken limestone
			265-514	weathered limestone

Well Number	Identifier	Discharge	Depth	Geologic Log
36	21002	500	0-4	swamp muck
			4-7	green sand
			7-12	brown tannish sand
			12-19	brown gravel and stones
			19-23	mustard colored sand and gravel
			23-29	tan sand and stones
			29-31	stones
			31-38	grayish clay
			38-41	soft tan clay
			41-42	ledges of hard clay
			42-67	soft clay
			67-73	sandy clay
			73-91	rocks and cobbles
			91-119	clay, broken rocks and boulders
			119-143	hard clay
			143-144	cemented sand and gravel
			144-148	clay and gravel
			148-154	clay and sand
			154-156	hardpan
			156-163	cemented sand and gravel
			163-164	rocks
			164-169	cemented gravel with streaks of brown clay
			169-171.5	cemented gravel
			171.5-178	white and tan clay, orange clay streaks at 178
			178-180	weathered limestone
			180-310	hard rock
37	18614	20+	0-2	overburden
			2-60	fine sand
			60-78	clay
			78-80	gravel and water
38	6412	22	0-20	clay and sand
			20-70	soft limestone
			70-106	hard limestone
39	28448	NR	0-15	overburden
			15-60	limestone
40	23836	20	0-2	overburden
			2-25	clay and big gravel
			25-64	soft rotten brown granite
41	23917	40	0-52	clay and broken rock
			52-67	limestone
42	28071	7	0-10	sandy hardpan
			10-198	granite
43	23883	25	0-40	brown clay and gravel
			40-123	limestone
44	23223	40+	0-95	clay and limestone
			95-123	rotten limestone
45	23224	50+	0-110	clay and limestone
			110-120	rotten limestone
46	23882	30	0-32	clay, sand and gravel
			32-123	limestone
47	23225	50+	0-85	clay and gravel
			85-110	rotten limestone
48	21700	20+	0-50	overburden clay with boulders
			50-70	clay
			70-100	soft limestone
49	24100	30+	0-63	hardpan
			63-80	soft brown limestone
50	24101	15+	0-58	clay and hardpan
			58-148	gray limestone

Well Number	Identifier	Discharge	Depth	Geologic Log
51	34690	30	0-2	soil
			2-15	fractured rock and clay
			15-30	fractured rock
			30-225	limestone
52	8674	15	0-30	overburden
			30-90	highly weathered limestone
53	13314	25	0-34	overburden
			34-85	limestone
54	1520	6	0-31	hardpan
			31-40	clay and boulders
			40-58	sandy streaks and clay
			58-61	gravel
55	24130	100	0-2	soil
			2-12	fractured rock
			12-450	limestone
56	6747	167	0-27	yellow clay
			27-300	limestone
57	9856	12	0-76	clay and hardpan
			76-142	limestone
58	28001	20	0-40	overburden
			40-100	limestone
59	25288	506	0-68	sand, clay and gravel
			68-264	weathered limestone
60	25522	NR	0-73	overburden
			73-113	limestone
61	13051	464	0-1	top soil
			1-5	tight clay and sand mixture
			5-35	yellow clay
			35-67	decomposed limestone
			67-104	hard limestone
			104-110	large open seam
62	10455	15	0-65	clay and hardpan
			65-110	limestone
63	18359	5	0-20	clay and sand
			20-45	sand mixed with clay and boulders
			45-77	clay and gravel
			77-80	boulder
			80-90	gravel and clay
			90-98	boulders, gravel, clay and water
64	35639	NR	0-2	top soil
			2-44	orange silt
			44-90	cobbles and silty sand
			90-101	silty clay
			101-115	weathered rock
			115-118	lightly weathered rock
65	26754	100	0-66	gravel and clay
			66-140	limestone
66	33869	NR	0-2	coarse black sand
			2-6	light brown medium sand with gravel
			6-8.5	medium to coarse gray organic sand
			8.5-12	medium gray sand
			12-16	medium to fine light brown sand
67	19340	60	0-165	sand, gravel and boulders
68	20841	20+	0-40	gravel and sand
			40-135	clay and boulders
			135-140	sand, gravel and water
69	33896	50	0-15	sand, silt and small gravel
			15-28	sand, large gravel and water



Well Number	Identifier	Discharge	Depth	Geologic Log
70	21748	20	28-110	hardpan and gravel
			110-133	dry hardpan and gravel
			133-138	dry clay, sand and gravel
			138-158	silt, sand, clay and water
			158-162	weathered gray limestone
71	29034	20	0-10	overburden with gravel
			10-140	hard brown clay
			140-153	clay and gravel
			153-175	soft limestone with clay and sand
72	27058	10	0-58	clay
			58-60	dry gravel
			60-61	boulder
			61-143	clay and gravel
73	19089	5	0-2	soil
			2-18	fractured rock
			18-280	granite
74	21140	6	0-25	sand
			25-75	clay and sand
			75-100	hardpan
			100-185	white sandstone, water at 175 feet
75	20503	20+	0-136	sand and gravel
			136-198	white rotten granite
76	13583	5	0-82	sand and clay
			82-98	gravel and decomposed rock
77	16392	2	0-12	overburden
			12-90	sand, boulders and clay
			90-101	coarse sand, gravel, boulders and clay
			101-123	rotten limestone, water and white sandstone
			123-220	white sandstone and water
78	26154	30+	0-50	overburden
			50-125	white, pink sandstone
79	28708	NR	0-45	sandy hardpan
			45-173	soft white sandstone
80	26506	20	0-50	overburden
			50-150	sandstone
81	24646	NR	0-40	clay and hardpan
			40-222	white and pink sandstone
82	20042	3	0-2	fill
			2-18	hardpan with sand and gravel
			18-255	weathered limestone
83	27889	200+	0-20	sand and clay
			20-170	white sandstone
84	24098	20	0-120	clay and gravel
			120-400	limestone
85	20043	10	0-96	clay hardpan
			96-100	gravel and sand
86	18806	10	0-22	sand, clay and gravel
			22-190	soft white sandstone
87	20536	10	0-41	clay and boulders
			41-60	gray sand
			60-80	gray silt and sand
			80-92	gray sand
			92-96	gray limestone and water
88	16801	50	0-28	red sandstone
			28-190	soft white sandstone
89	16801	50	0-45	overburden
			45-56	gravel and brown clay
			56-62	sand and gravel



Well Number	Identifier	Discharge	Depth	Geologic Log
89	24133	12	0-105 105-198	soft brown to red sandstone white sandstone
90	26650	16	0-35 35-373	sandy hardpan white sandstone
91	23782	8	0-44 44-173	clay, sand and gravel soft red sandstone
92	25599	16	0-30 30-223	sandy hardpan white and pink sandstone
93	24134	25	0-84 84-198	soft brown loose sandstone red and brown sandstone
94	18601	4	0-110 110-114 114-298	overburden with boulders rotten granite granite
95	21958	8	0-40 40-80 80-87 87-96 96-130 130-348	red clay sand gravel sand and gravel brown rotten rock soft red rock
96	25180	8	0-70 70-292	clay, sand and gravel soft white sandstone and white clay
97	25412	12	0-65 65-95	sandy hardpan with some gravel white sandstone
98	25178	15	0-66 66-90	sand, clay and gravel soft brown sandstone
99	25413	10	0-74 74-123	sand, clay and gravel soft white sandstone
100	25558	14	0-42 42-120	brown clay and gravel white sandstone
101	25557	40+	0-65 65-200	clay, sand and gravel brown clay and sand
102	20229	2	0-30 30-40 40-60 60-80 80-248	brown clay sand gravel and clay clay red rock
103	20267	12	0-30 30-173	brown clay and sand white sandstone
104	35919	NR		driller's log:  0-120 glacial till 120-290 saprolite 290-345 weathered rock  geologist's log:  0-115 yellow silty coarse sand, sand consists of fragments of purple and gray quartzite, gray sandstone and shale, gneiss, feldspar, quartz 115-126 yellow clayey silt with sand grains as above 126-140 same as above, but siltier and sand grains are finer 140-274 yellow clayey silt with chert chips, several intervals of coarse sand consisting of chert and quartz 274-380 dolomite chips
105	19396	20	0-40 40-70	gravel and boulders sand



Well Number	Identifier	Discharge	Depth	Geologic Log
			70-105	sand and gravel
106	18955	10	0-8	overburden
			8-35	clay and gravel
			35-40	gravel
			40-80	sand
			80-98	sand and gravel
107	17846	15	0-116	overburden with clay
			116-173	granite
108	22084	16	0-115	clay, gravel and sand
			115-135	sandstone
			135-173	granite
109	18414	5	0-50	overburden with clay
			50-173	granite
110	25596	NR	0-130	sand and gravel
111	21752	2	0-2	overburden
			2-32	clay, gravel and boulders
			32-300	granite
112	20546	20+	0-7	overburden
			7-9	boulder
			9-130	sand, gravel and clay
			130-140	rotten rock
			140-198	granite
113	20465	5	0-25	overburden
			25-38	sand
			38-41	boulder
			41-48	clay
			48-50	boulder
			50-148	shale
114	18032	15	0-30	red clay
			30-90	red clay with boulders
			90-220	yellow clay
			220-237	hard clay
			237-243	red clay (gravel at 243 feet)
115	18886	20+	0-50	overburden, sand and clay
			50-98	granite
116	33188	65	0-54	sand and gravel
			54-122	yellow clay
			122-130	broken limestone
			130-603	gray limestone
			603-607	broken limestone and open voids
117	18700	20+	0-6	overburden
			6-73	granite
118	20817	NR	0-20	sand and gravel
			20-50	big gravel
			50-75	sand
			75-131	sand and clay
119	26964	20	0-20	sand
			20-75	sand and gravel
			75-95	sandstone
120	15271	7	70-38	brown sand
			38-140	gray silt
			140-150	brown sand
			150-152	gravel and water
121	33680	7	0-23	sand and gravel
			23-27	fine brown sand
			27-31	coarse sand
			31-37	fine dirty black sand
			37-82	fine gray sand



Well Number	Identifier	Discharge	Depth	Geologic Log
			82-87	gray silt
			87-120	gray silty clay
			120-127	brown sand and clay
			127-130	clay
			130-133	brown to gray sand and clay
			133-137	brown sand
			137-146	coarse gravel
			146-155	fine sand with gravel
			155-157	brown sand and clay
			157-160	clay
			160-189	brown clay and gravel
			189-201	gravel with little clay
			201-203	gravel with less clay
			203-205	gravel
			205-208	gravel and brown clay
			208-210	clay
			210-223	broken limestone
122	21016	20+	0-5	overburden
			5-18	sand
			18-30	sand and gravel
			30-80	fine sand
			80-121	clay
			121-180	clay and gravel
			180-290	red and brown clay
			290-325	brown shale
123	35999	20	0-40	sand
			40-100	clay
			100-150	red rock
124	38874	20	0-4	overburden
			4-40	sand and gravel
			40-100	clay and gravel
			100-175	red rock
125	22500	100+	0-45	sand and gravel
			45-100	clay
			100-130	sand and gravel
126	19201	8	0-18	sand
			18-25	sand and gravel
			25-60	sand
			60-72	fine sand
			72-150	clay
			150-202	gravel, clay and sand
127	18061	10	0-32	choice sand
			32-155	silty fine sand
			155-168	clay
			168-175	conglomerated limestone
128	24174	20	0-39	sand and gravel
			39-60	weathered conglomerated rock
129	18970	12	0-20	sand and gravel
			20-60	sand
			60-132	clay
			132-135	sand and gravel
			135-150	sand
			150-154	gravel and sand
			154-175	brown sand
			175-196	sand
			196-347	silt
130	27446	NR	0-2	asphalt, fill
			2-5	orange to brown coarse sand, trace of silt and fine gravel



Well Number	Identifier	Discharge	Depth	Geologic Log
			5-15	olive to brown very coarse to medium sand, trace of silt and fine gravel
			15-24	olive to tan very coarse to medium sand, little medium to fine gravel, trace of silt
131	30934	20+	0-40	sand
			40-150	clay
			150-204	fine sand
			204-220	clay with gravel
			220-225	limestone with clay and water
132	24511	25	0-8	overburden
			8-235	sand and gravel
133	27758	15	0-208	sand and gravel
134	20771	20+	0-80	sand, gravel and clay
			80-148	sandstone
135	23551	100+	0-35	sand
			35-195	sand and gray clay
			195-230	brown clay, sand and gravel
			230-242	granite
136	10769	40	0-12	stones and sand
			12-45	yellow clay and stones
			45-76	yellow clay and gravel
			76-91	gray clay and gravel
			91-117	gray clay mixed with soft gray rock
			117-223	gray rock
137	16995	20+	0-42	overburden
			42-65	sand, gravel and water
			65-150	clay and silt
			150-154	hard clay
			154-160	sand, gravel and water
138	12296	4	0-2	overburden
			2-49	sand with small gravel
			49-127	fine sand
			127-139	fine sand with clay
			139-181	clay
			181-195	sand and very small gravel
139	20193	30	0-33	sand
			33-180	gray clay
			180-190	sand, water and gravel
140	23552	40	0-28	sand
			28-171	gray clay
			171-178	brown clay and gravel
			178-180	sand and gravel
141	9535	NR	0-5	fill dirt
			5-15	yellow sandy clay
			15-25	coarse sand and medium gravel
			30	medium sand, very little gravel
			30-35	medium sand and gravel seams
			35-40	medium sand, no gravel
			40-75	medium fine sand
			75-80	medium sand, very little gravel
			80-85	medium and coarse sand
			85-91	medium and coarse sand and gravel
			91-103	fine sand and some clay
142	21006	NR	0-1	top soil
			1-4	clay and rocks
			4-20	boulders and cobbles
			20-34	clay and small stones
			34-37	tan soft sandy clay
			37-42	hardpacked clay and stones



Well Number	Identifier	Discharge	Depth	Geologic Log
			42-44	soft brown clay and stones
			44-48	sandy clay
			48-53	orange clay and stones
			53-105	brown clay
			105-112	tight, light tan clay
			112-122	very hard brown clay
			122-123	rock
143	25791	8	0-39	sand
			39-67	sand and clay
			67-124	sand and gravel
144	21669	10+	0-2	overburden
			2-20	sand
			20-80	clay
			80-95	sand
			95-100	sand and gravel
145	14790	NR	0-1	vegetation
			1-13	brown sand
			13-22	clay
			22-35	sand, gravel and large stones
			35-44	clay
			44-50	sandy clay
			50-70	sand, gravel and stones
			70-94	clay
			94-99	sand and clay mixed
			99-102	sand and gravel mixed with clay
			102-106	clay
			106-108	sand and gravel mixed with clay
146	14791	100	0-3	marl vegetation
			3-11	sand
			11-22	gray clay
			22-31	sand and clay mixed
			31-45	sand and gravel
			45-49	sandy clay
			49-60	coarse sand
			60-64	sandy clay
			64-82	coarse sand and gravel
			82-93	clay
			93-102	sand and gravel
			102-108	hard layer of crust
			108-138	coarse sand, gravel, 20% clay
			138-140	clay
			140-161	silty clay
			161-172	orange medium to fine sand
			172-174	hard clay
			174-178	weathered material
147	20386	10	0-2	overburden
			2-70	sand
			70-183	clay
			183-184	gravel
148	21008	NR	0-3	fill
			3-4	muck
			4-13	medium to coarse sand
			13-24	large gravel
			24-26	green clay and gravel
			26-33	soft sandy clay
			33-68	soft gray clay
			68-99	supersoft gray clay
			99-102	hardpan
			102-116	gravel and fine clayey sand



Well Number	Identifier	Discharge	Depth	Geologic Log
149	17050	700	116-131	tan clay
			131-134	brown clay
			134-150	brown clay with streaks of rock
150	21004	NR	0-2	fill
			2-3	muck
			3-12	dirty sand with water
			12-34	clay
			34-37	sand and gravel
			73-43	clay and hardpan
			43-48	hard sandy clay and rocks
			48-52	hardpan and stones
			52-56	large gravel and sand
			56-73	sand and gravel
			73-74	fine sand and some gravel
			74-75	clay
			75-78	fine sand and clayey silt
			0-2	brown sand
			2-13	stone and boulders
151	23443	9	13-14	clay and stones
			14-36	tight-packed clay
			36-48	tight-packed sandy clay
			48-49	hardpan
			49-50	tight sandy clay
			50-62	hard laminated clay
			62-69	reddish brown clay
			69-73	hard, tight, dry, brown clay
			73-149	reddish clay
			149-152	cemented sand
			152-157	clay
			157-159	sandy clay
			159-160	lenses of cemented sand
			160-162	very fine sand
			162-180	sand- and clay-filled rock ledges
152	14800	5	180-184	cracked rock
			0-2	overburden
			2-14	sand and gravel
			14-30	sand
			30-118	clay
153	31624	NR	118-122	sand and gravel
			0-2	vegetation and dirt
			2-11	brown sand
			11-23	gray clay
			23-25	sandy clay
			25-37	sand, gravel and stones mixed with clay
			37-44	sandy clay
			44-50	sand, gravel and stones
			50-59	sandy clay
			59-68	sand and gravel with streaks of clay
			68-74	clay
			74-95	sand and gravel mixed with clay
			95-97	hard layer of crust
			97-132	sand and gravel with 20% clay
			132-134	clay
155	31624	NR	134-188	sand, gravel, clay and layers of hardpan
			188-198	weathered zone
			0-10	brown medium to coarse sand
			10-30	brown clayey, medium to coarse sand
156	31624	NR	30-40	brown gravel, slightly clayey
			40-50	brown clayey gravel



Well Number	Identifier	Discharge	Depth	Geologic Log
			50-60	orange brown gravel
			60-80	clayey orange brown sand
			80-120	orange brown clay, some fine sand
			120-150	gray brown clay, some sand
			150-180	gray brown sand
			180-190	light medium gray dolomite
			190-210	brown sand
			210-260	yellow brown shale and siltstone
			260-265	yellow brown dolomite and shale
			265-270	yellow brown shale and siltstone
			270-340	light gray dolomite
			340-350	orange brown sand
			350-390	light gray to tan dolomite
			390-440	orange brown clay
			440-450	yellow brown dolomite and shale
154	22600	NR	0-11	coarse yellow to brown sand and gravel
			11-27	coarse gray sand and gravel
			27-91	gray silt and clay
			91-95	medium gravel
			95-99	clay
			99-101.5	gravel
			101.5-103	clay
			103-114	sand and gravel with clay lenses
			114-127	fine to coarse sand and gravel
			127-135	gravel
			135-143.5	coarse sand and gravel
			143.5-156	coarse sand and fine gravel
			156-157	cobbles with trace of clay
			157-161.5	rock (conglomerate)
155	21005	NR	0-1	pine needles and marsh
			1-2	black soil
			2-5	yellow sandy clay
			5-12	rusty brown sand
			12-20	gray sand and stones
			20-27	gray clay
			27-36	tight clay, streaks of stones
			36-39	dirty gray sand
			39-43	gray clay with streaks of fine sand
			43-72	very soft, light gray clay
			72-73	sand
			73-93	light brown clay
			93-94	hardpan or cemented sand
			94-95	clay
			95-96	cemented hard sand
			96-99	clay with some stones
			99-128	clay with rocks and small stones
			128-134	clay
			134-137	clay and sand
			137-138	clay and coarse sand
			138-140	gravel and sand with some clay
			140-153	clay
			153-154	hardpan
			154-155	clayey fine sand
			155-157	large stones and sand
			157-183	hard rock
156	21007	NR	0-1	top soil
			1-7	orange sand
			7-15	clay and stones
			15-17	boulders



Well Number	Identifier	Discharge	Depth	Geologic Log
			17-19	sand and clay
			19-20	green clay
			20-23	black clay and sand
			23-34	sand
			34-89	gray clay
			89-97	brown clay
			97-99	hardpan
			99-110	red cemented sand
			110-114	hardpan
			114-122	hardpacked sand
			122-131	streaks of cemented clayey sand
			131-145	streaks of clayey sand
			145-169	hardpacked laminated clay
			169-170	rock or hardpan
			170-181	laminated clay
			181-187	broken rock
			187-197	rock
157	26977	545	0-2	topsoil
			2-10	fine to medium sand
			10-12	fine sand and coarse gravel
			12-18	fine to medium sand'
			18-26	very fine hardpacked sand
			26-32	soft clay and sand
			32-34	clay
			34-38	clay with coarse sand
			38-40	medium to coarse sand
			40-41	fine sand
			41-42	clay and coarse gravel
			42-62	gravel, large rocks and yellow clay
			62-70	fine to medium gravel
			70-79	boulders with sand and gravel
			79-102	fine sand with clay streaks
			102-130	brown clay
			130-131	rock
158	26999	20	0-202	sand, gravel and clay
159	20580	50+	0-30	fine sand
			30-151	gray clay and silt
			151-160	sand and medium gravel
160	31153	15	0-8	overburden
			8-250	granite
161	27311	25	0-55	clay
			55-70	granite
162	28886	NR	0-30	sandy clay
			30-61	granite
163	19265	10	0-14	overburden
			14-30	soft granite
			30-110	granite
164	18989	20	0-20	clay
			20-44	sand and clay
			44-80	granite
165	27610	5	0-18	overburden
			18-50	yellow granite
			50-225	granite
166	21840	50	0-20	overburden
			20-285	granite
167	30313	10	0-8	overburden
			8-300	granite
168	22096	1	0-55	overburden with gravel and clay
			55-247	granite



Well Number	Identifier	Discharge	Depth	Geologic Log
169	21341	12	0-18 18-22 22-153	sandy clay sandstone granite
170	22254	10	0-5 5-140	sandstone granite
171	28070	5.5	0-8 8-648	hardpan granite
172	23749	5	0-2 2-5 5-274	overburden clay granite
173	20564	12	0-38 38-124	sandy overburden granite
174	31324	7	0-37 37-250	overburden granite
175	19422	0	0-3 3-270	overburden granite
176	16728	3	0-8 8-10 10-40 40-173	overburden boulder clay and boulders granite
177	22013	20	0-2 2-5 5-45 45-173	overburden clay rotten granite granite
178	13802	60	0-14 14-280	overburden hard granite
179	16617	1	0-5 5-340	overburden granite
180	12791	2.5	0-5 5-340	overburden clay granite
181	25378	30	0-20 20-30 30-77	clay, boulders sandstone granite
182	18413	3.5	0-9 9-220	overburden granite
183	28384	NR	0-14 14-150	overburden granite
184	28385	8	0-16 16-200	overburden granite
185	26611	20	0-24 24-250	overburden granite
186	15919	60	0-65 65-100	sand and loose rocks sandstone and granite
187	22533	20	0-16 16-148	overburden granite
188	22807	20	0-14 14-98	hardpan granite
189	26904	32	0-17 17-173	sand, clay, gravel granite
190	26905	5	0-16 16-198	sand, clay, gravel granite
191	27528	20	0-18 18-298	hardpan granite
192	27529	8	0-16 16-173	hardpan granite
193	19032	20	0-35 35-73	sandy hardpan granite
194	25704	30	0-35	hardpan



Well Number	Identifier	Discharge	Depth	Geologic Log
			35-48	soft sandstone
			48-123	granite
195	26567	60	0-8	stony hardpan
			8-647	granite
196	26566	100	0-9	stony hardpan
			9-485	granite
197	15700	5	0-5	overburden
			5-198	granite
198	30083	14	0-20	hardpan and rocks
			20-499	granite
199	27606	15	0-75	clay
			75-95	granite
200	28090	50	0-26	overburden
			26-272	granite
201	25677	7	0-29	overburden
			29-275	granite
202	23141	5	0-12	clay, rock
			12-400	granite
203	25099	10	0-15	overburden
			15-150	granite
204	25147	21	0-18	sandy hardpan
			18-148	granite
205	24048	5	0-15	overburden
			15-300	granite
206	24972	7	0-40	clay hardpan
			40-298	granite
207	24973	9	0-15	sandy hardpan
			15-298	granite
208	25584	22	0-10	sandy hardpan
			10-285	granite
209	25585	20	0-22	sandy hardpan
			22-123	granite
210	25586	10	0-22	sandy hardpan
			22-148	granite
211	25587	35	0-18	sandy hardpan
			18-73	granite
212	25588	7	0-17	sandy hardpan
			17-323	granite
213	25589	8	0-14	sandy hardpan
			14-298	granite
214	25590	3	0-22	sandy hardpan
			22-498	granite
215	25280	5	0-16	sandy hardpan
			16-430	granite
216	25735	29	0-23	sandy hardpan
			23-98	granite
217	25736	7	0-19	sandy hardpan
			19-198	granite
218	25737	5	0-14	sandy hardpan
			14-523	granite
219	25738	3	0-9	sandy hardpan
			9-50	granite
220	25739	12	0-12	sandy hardpan
			12-298	granite
221	25740	10	0-10	sandy hardpan
			10-323	granite
222	25741	40	0-8	sandy hardpan
			8-380	granite



Well Number	Identifier	Discharge	Depth	Geologic Log
223	25742	15	0-13 13-173	sandy hardpan granite
224	25744	20+	0-18 18-173	sandy hardpan granite
225	25745	13	0-21 21-148	sandy hardpan granite
226	25746	23	0-13 13-173	sandy hardpan granite
227	25747	12	0-15 15-145	sandy hardpan granite
228	25749	35	0-9 9-148	sandy hardpan granite
229	25758	20+	0-20 20-173	sandy hardpan granite
230	25759	10	0-17 17-173	sandy hardpan granite
231	25761	19	0-34 34-123	sandy hardpan granite
232	25762	25	0-22 22-148	sandy hardpan granite
233	25765	19	0-20 20-148	sandy hardpan granite
234	25521	30	0-10 10-200	overburden limestone
235	25643	3	0-16 16-448	sandy hardpan granite
236	25644	20	0-30 30-123	sandy hardpan granite
237	25645	17	0-23 23-123	sandy hardpan granite
238	27158	5	0-5 5-140	overburden granite
239	27159	5	0-3 3-170	overburden granite
240	30059	15	0-10 10-248	sand, clay, fractured rock granite
241	30062	40+	0-28 28-148	sandy stony hardpan granite
242	21101	15	0-30 30-50 50-148	clay and boulders soft granite granite
243	27220	20	0-45 45-100	overburden granite
244	21606	17	0-11 11-198	sandy hardpan granite
245	23339	10	0-20 20-150	clay and boulders granite
246	15638	60	0-5 5-15 15-25 25-38	clay, sand, boulders sand and gravel limestone and glacial drift coarse-grained, rudely foliated hornblende granite
247	21902	8	0-8 8-33 33-35 35-198	overburden granite large void granite
248	23618	5	0-20 20-370	overburden granite



Well Number	Identifier	Discharge	Depth	Geologic Log
249	23686	5	0-12 12-398	sand, clay, gravel granite
250	31552	5	0-21 21-250	overburden granite
251	25989	10	0-10 10-40 40-450	overburden fractured rock granite
252	31172	15	0-35 35-305	fractured and rotten rock granite, occasional weathering
253	24291	4	0-9 9-449	sandy hardpan granite
254	27059	15	0-18 18-255	fractured rock granite
255	28836	NR	0-30 30-80 80-260	overburden limestone granite
256	9845	20	0-63 63-110	clay, hardpan, boulders mixture of rock, mostly granite
257	24369	7	0-16 16-197	sandy hardpan granite
258	24532	22	0-9 9-123	sandy hardpan granite
259	24533	20+	0-9 9-548	sandy hardpan granite
260	24534	11	0-15 15-223	sandy hardpan granite
261	24535	6	0-18 18-398	sandy hardpan granite
262	24536	12	0-22 22-323	sandy hardpan granite
263	24537	20	0-22 22-198	sandy hardpan granite
264	24538	7	0-12 12-298	stony hardpan granite
265	24539	20	0-8 8-123	stony hardpan granite
266	24540	8	0-16 16-223	stony hardpan granite
267	24541	50+	0-25 25-123	clay and sand granite
268	24542	50+	0-28 28-148	clay and sand granite
269	24543	35+	0-33 33-98	brown clay and sand granite
270	24544	50+	0-20 20-98	sand, clay, gravel granite
271	24509	15	0-6 6-173	hardpan granite
272	22794	50+	0-23 23-298	hardpan granite
273	22795	50+	0-22 22-298	hardpan granite
274	23257	5	0-24 24-198	stony hardpan granite
275	23258	20	0-8 8-147	overburden granite
276	23259	40	0-6 6-148	stony hardpan granite



Well Number	Identifier	Discharge	Depth	Geologic Log
277	23260	5	0-21 21-396	sandy hardpan granite
278	23420	20	0-7 7-198	stony hardpan granite
279	23867	15	0-15 15-198	stony hardpan granite
280	29794	18	0-7 7-249	hardpan granite
281	29795	20	0-13 13-198	stony hardpan granite
282	29796	25	0-10 10-173	hardpan granite
283	29797	14	0-19 19-199	sandy hardpan granite
284	29985	30	0-16 16-28 28-37 37-348	stony hardpan granite sandstone granite
285	29986	25	0-32 32-41 41-298	hardpan sandstone granite
286	24856	12	0-6 6-198	stony hardpan granite
287	25010	14	0-7 7-148	sandy hardpan granite
288	25011	30	0-19 19-148	stony sandstone granite
289	25012	5	0-8 8-298	stony hardpan granite
290	25014	20	0-8 8-173	stony hardpan granite
291	25016	12	0-9 9-123	sandy hardpan granite
292	25018	9	0-8 8-148	stony hardpan granite
293	25020	14	0-7 7-298	stony hardpan granite
294	25022	10	0-6 6-248	stony hardpan granite
295	25024	18	0-6 6-198	stony hardpan granite
296	22056	17	0-8 8-122	stony hardpan granite
297	16882	10	0-30 30-70 70-90 90-110 110-123	overburden fine sand and clay clay and gravel brown granite black white granite
298	23869	8	0-16 16-148	sandy hardpan granite
299	24037	12	0-7 7-198	stony hardpan granite
300	24040	7	0-6 6-173	stony hardpan granite
301	25996	12	0-5 5-198	sandy hardpan granite
302	25997	40+	0-18 18-123	sandy hardpan granite

Well Number	Identifier	Discharge	Depth	Geologic Log
303	25999	12	0-14 14-173	sandy hardpan granite
304	26000	3	0-13 13-523	sandy hardpan granite
305	26002	20+	0-6 6-123	stony hardpan granite
306	26004	9	0-12 12-198	sandy hardpan granite
307	26005	5	0-20 20-44 44-55 55-448	NR granite very soft loose sandstone granite
308	26125	7	0-8 8-373	stony hardpan granite
309	26214	15	0-21 21-348	stony hardpan granite
310	30437	30	0-19 19-123	stony hardpan granite
311	23184	5	0-5 5-298	stony hardpan granite
312	23445	12	0-8 8-198	stony hardpan granite
313	23448	20	0-6 6-223	stony hardpan granite
314	23730	14	0-8 8-123	stony hardpan granite
315	24117	5	0-7 7-423	sandy hardpan granite
316	24283	8	0-6 6-399	stony hardpan granite
317	24286	12	0-8 8-423	stony hardpan granite
318	24563	15+	0-7 7-172	hardpan granite
319	29662	15	0-11 11-298	stony hardpan granite
320	29791	6	0-20 20-297	stony hardpan granite
321	29792	18	0-16 16-25 25-197	stony hardpan sandstone granite
322	30859	15	0-21 21-298	sandy hardpan and rock granite
323	23168	20	0-15 15-98	stony hardpan granite
324	23868	10	0-16 16-173	sandy hardpan granite
325	27494	10	0-6 6-150	overburden granite
326	29790	6	0-10 10-248	stony hardpan granite
327	20774	6	0-22 22-148	overburden granite
328	DOT B0022164	NR	0-11 11-28	orange-brown to brown sand, some clayey silt and gravel gneiss, highly weathered
329	2807	12	0-30 30-90	hardpan and slabby boulders yellow clay



Well Number	Identifier	Discharge	Depth	Geologic Log
			90-272	blue and gray sticky clay, red clay at 260
			272-276	slabby loose limestone
330	15524	50+	0-128	sand, clay, water, gravel
331	21038	15	0-89	clay and gravel
			89-250	granite
332	18956	15-20	0-20	overburden
			20-40	clay, gravel
			40-45	gravel
			45-100	sand, clay
			100-101	sand, gravel
333	15173	20+	0-23	overburden
			23-60	gravel, no water
			60-130	sand, gravel
334	21041	20+	0-75	overburden with boulders
			75-198	granite
335	24793	20+	0-55	sand, clay, gravel
			55-60	sand, gravel
336	25179	18	0-118	sand, clay, gravel
337	27245	14	0-206	sand, clay, gravel
338	28683	10	0-90	layers of clay and gravel
			90-200	soft conglomerate
339	7195	12	0-51	clay, boulders, hardpan
			51-142	red and white silica rock
340	8046	15	0-44	clay and hardpan
			44-210	white and red silica rock
341	24-5674	15	0-33	overburden and gravel
			33-75	sand
			75-110	brown clay and gravel
			110-119	green white granite
			119-150	soft limestone
			150-153	sand gravel
342	24-5675	22	0-16	clay and sand, boulder
			16-92	stone and clay
			92-105	fractured limestone, dark gray
343	31132	8	0-150	sand, gravel, clay
344	15455	20+	0-12	overburden
			12-30	sand gravel
			30-190	brown sand and clay
			190-240	white and pink sandstone
345	23866	50+	0-240	sand, clay, gravel
346	6880	NR	0-192	boulders, hardpan, boulders, limestone, well screened in sand and gravel from 183-192
347	12337	5-10	0-20	top soil, clay and sand
			20-40	loose rocky boulders, hard sandstone
			40-125	spots of hard sandstone, caves, clay, sand
348	29616	15	0-120	overburden
			120-175	granite
349	24367	12	0-14	sandy hardpan
			14-148	granite
350	2905	12	0-120	clay, boulders, and hardpan
			120-134	white and red silica rock
351	24417	10	0-95	layers of clay with gravel
			95-100	soft rock
352	13624	20+	0-60	sand and gravel
			60-75	white sandstone
			75-100	soft spots
			100-130	white sandstone with white clay
353	31952	20	0-4	clay

Well Number	Identifier	Discharge	Depth	Geologic Log
			4-177	sandstone
354	23232	10	0-18	clay
			18-25	boulders
			25-62	clay and gravel
			62-68	boulders
			68-75	gravel and clay
			75-97	boulder
355	25544	6	0-160	overburden with layers of clay and silty sand and gravel
356	17304	10	0-28	overburden
			28-40	white granite
			40-122	red, brown, tan sandstone
357	24199	15	0-85	hardpan and soft sandstone
			85-298	white and red sandstone
358	15182	15	0-100	yellow hardpan and boulders
			100-103	sand
359	10533	15	0-70	yellow hardpan and boulders
			70-106	fine sand, coarse sand at 106
360	19600	6	0-5	overburden
			5-18	sand and gravel
			18-20	boulder
			20-40	sand and gravel
			40-130	sand, gravel, clay, water
361	19601	10	0-5	overburden
			5-30	sand and gravel
			30-126	sand, gravel, clay
			126-130	sand, gravel, water
362	13267	2	0-38	overburden with clay
			38-42	boulder
			42-75	hardpan
			75-77	side of boulder
			77-138	gravel and clay
			138-323	purple shale or red shale with sandstone
363	13630	5-7	0-23	hard pack sand and large gravel
			23-37	white clay and sand
			37-98	brown clay
			98-101	fine sand and fine gravel
			101-105	hard fractured limestone, clay and sand
364	20226	8	0-180	sand, clay, gravel
			180-248	red and white sandstone
365	28053	5	0-40	sandy hardpan
			40-298	granite
366	7304	45	0-80	clay and hardpan
			80-232	blue and gray clay, very sticky and gummy
			232-250	orange clay and hardpan
			250-265	sandstone rock
367	24561	10	0-40	layers of gravel and sand
			40-50	fine sand
			50-87	clay
			87-100	soft rock
368	16801	40-50	0-45	overburden
			45-56	gravel, brown clay
			56-62	sand, gravel
369	24098	20	0-96	clay hardpan
			96-100	gravel and sand
370	17353	50	0-100	sand and clay
			100-144	sand
			144-160	sand, 50 gpm



Well Number	Identifier	Discharge	Depth	Geologic Log
371	19495	5	0-5 5-20 20-190 190-200 200-212 212-215 215-223	overburden clay rotten rock white rock white rotten rock brown, some water white rotten rock
372	21394	30-40	0-3 3-20 20-40 40-75 75-80	overburden clay and gravel boulder, very hard clay and gravel sand, gravel, some clay
373	21889	8	0-40 40-80 80-85 85-97 97-185 185-298	red clay sand and clay gravel sand and gravel brown rotten rock red rock
374	23783	17	0-41 41-148	sandy hardpan red and white sandstone
375	24036	30	0-47 47-91 91-272	soft brown hardpan soft brown sandstone medium red-brown sandstone
376	24334	15	0-55 55-198	hardpan and soft sandstone white and red sandstone
377	24335	20+	0-85 85-173	sandy hardpan and soft sandstone red sandstone
378	19960	8-10	0-25 25-35 35-43 43-80 80-88 88-105 105-107 107-172	overburden white sandstone brown soft sandstone white pink sandstone soft brown sandstone hard white sandstone soft brown sandstone soft and hard white pink sandstone
379	24603	18	0-12 12-173	sandy hardpan granite
380	28413	6	0-6 6-35 35-323	stony hardpan soft sandstone granite
381	28069	30	0-23 23-123	sandy hardpan granite
382	28422	10	0-7 7-35 35-323	soft hardpan soft sandstone granite
383	20936	20	0-120 120-130 130-148 148-150	clay and gravel rotten limestone limestone soft, water
384	23871	6	0-180	sand, clay, gravel
385	24646	NR	0-2 2-18 18-64 64-90 90-130 130-134	muck fill hardpan with lenses of sand and gravel, brown conglomerated decomposed limestone, light brown, darker below 59 conglomerated limestone with very fine silica sand, brown, water bearing same as above, with fine sand clay, light brown

Well Number	Identifier	Discharge	Depth	Geologic Log
			134-178	conglomerated limestone mixture of silica sand and pieces of rock, small lenses of clay, brown
			178-183	humus mixed with clay, very dark brown
			183-199	water bearing coarser broken limestone mixture with fine silica sand, brown
			199-220	fine and coarse silica sand mixed with clay, brown
			220-255	large pieces of broken limestone and silica sand, dark brown
386	17406	15	0-50	gravel, clay, boulders
			50-64	clay, boulders
			64-66	boulder
			66-90	clay
			90-104	clay and boulders
			104-124	layers of rock and clay
387	42357	650	0-3	soil
			3-10	yellow clay
			10-165	soft broken tan limestone
			165-245	gray limestone with openings
388	41497	2035	0-6	overburden
			6-37	fine to coarse brown and white sand
			37-46	cobbles
			46-88	hard cobbles, brown, gray and white sand
			88-98	fine to medium sand streaks with clay
			98-113	clay, streaks sand and limestone
			113-121	soft streaks clay
			121-210	hard clay and soft limestone
			210-258	hard limestone with voids
389	41592	2016	0-6	overburden
			6-37	fine, coarse white sand, some clay
			37-46	cobbles, hard rock, brown sand
			46-88	cobbles, brown, gray, white sand
			88-98	fine-medium sand with clay
			98-113	brown clay, water, sand, and limestone
			113-297	hard and soft limestone
390	15550	10	0-25	overburden with gravel
			25-60	brown clay with gravel
			60-71	sand, stone
			71-72	brown water
			72-94	white sandstone
			94-102	brown white sandstone
			102-123	white sandstone
391	16103	10	0-40	red clay
			40-80	sand, clay
			80-87	gravel (10 gpm)
392	16106	5	0-25	red clay
			25-41	sand
			41-46	boulder
			46-80	sand, gravel
			80-85	gravel (5 gpm)
393	24855	6	0-106	sand and gravel
394	25367	15	0-192	sand and clay
395	27338	10	0-200	sand, clay and gravel
396	31942	20	0-30	sand
			30-60	clay
			60-68	sand and gravel
			68-125	red rock
397	13268	50+	0-40	sand gravel



Well Number	Identifier	Discharge	Depth	Geologic Log
			40-79	fine sand
			79-141	gray clay
			141-150	brown clay with gravel
			150-210	brown clay
			210-229	looks like brown clay and granite
			229-230	brown granite
398	16768	20+	0-20	sand
			20-35	sand, gravel
			35-70	fine sand
			70-148	gray clay
			148-152	sand, gravel
399	18705	15	0-20	muck
			20-50	brown sand
			50-90	gray silt
			90-92	gravel, sand, water
			92-106	sand, silt
			106-109	boulder, water at 109
400	17453	5	0-3	fill
			3-86	fine brown sand
			86-168	fine clay and sand
			168-210	granite, silty, rotten rock
401	28426	12	0-17	soft hardpan
			17-34	sandstone
			34-298	granite
402	14992	7.5	0-20	clay and gravel
			20-30	boulder
			30-75	clay, gravel, boulders
			75-80	gravel
403	20238	4	0-25	clay
			25-35	gravel
			35-38	boulder
			38-50	clay
			50-80	sand
			80-102	sand, gravel
			102-104	boulder
			104-110	sand gravel
404	25671	5	0-150	sand, clay, and gravel
405	5279	100	0-4	black muck
			4-48	blue clay
			48-49	very fine gray sand
			49-99	clay
			99-118	hardpan
			118-128	silica rock
			128-160	rotten rock
406	18304	20	0-20	overburden
			20-43	clay boulder
			43-45	boulder
			45-57	clay
			57-59	boulder
			59-71	clay
			71-77	boulder
			77-81	clay
			81-84	boulder
			84-90	clay
			90-93	boulder
			93-114	clay
			114-116	boulder
			116-130	clay with gravel
			130-142	gravel, clay

Well Number	Identifier	Discharge	Depth	Geologic Log
407	31280	10	142-146	gravel, clay, water
			0-116	sand, gravel, clay
			116-125	white rock
408	20229	2	0-30	brown clay
			30-40	sand
			40-60	gravel, clay
			60-80	clay
			80-201	red rock
			201-220	brown area
			220-248	red rock
409	3775	10	0-96	red sandy clay with gravel
			96-98	gravel and sand
410	20255	20+	0-5	clay and gravel
			5-23	rotten granite
			23-123	granite
411	20375	10+	0-24	dirt
			24-123	trap rock
412	9387	NR	0-20	coarse sand
			20-37	fine sand
			37-40	fine sand and clay
			40-80	clay
413	20800	35	0-21	hardpan and rocks
			21-298	granite
414	20301	20+	0-147	sand and gravel
415	20466	7	0-8	overburden
			8-248	granite
416	27824	15	0-20	overburden
			20-40	soft granite
			40-245	granite
417	38211	NR	0-35	sand
			35-110	clay and sand streaks
			110-130	sand, fine to very coarse, with pea gravel and cobbles
			130-370	brown clay with decomposed dolomite fragments
			370-450	weathered grayish-tan dolomite
			450-575	light gray dolomite
418	64783	603	0-7	coarse brown sand
			7-21	brown sand, clay, cobbles
			21-44	fine brown sand
			44-56	cobbles, boulders
			56-69	medium cobbles
			69-158	brown tan clay
			158-170	fine-coarse white sand gravel
			170-175	very fine sand
			175-180	fine-coarse sand
			180-183	bedrock
419	21003	NR	0-4	sand, clayish
			4-10	stones
			10-20	clayish sand, brown
			20-26	clay, lam[inated?], brown
			26-42	clay, gray
			42-51	sandish clay
			51-58	clay
			58-68	sand, clayish and hard
			68-73	clay, lam[inated?], hard
			73-86	hard clay
420	20430	4	86-86.5	rock
			0-50	overburden



Well Number	Identifier	Discharge	Depth	Geologic Log
			50-298	granite
421	17732	602	0-18	brown sand
			18-31	brown clay with stones
			31-63	sand with gravel streaks
			63-85	brown clay
			85-90	sand and gravel
			90-97	brown clay
			97-99	gravel
			99-102	brown clay
			102-104	sand and gravel
			104-147	brown clay
			147-149	brown sand
			149-151	brown clay
			151-155	brown sand
			155-163	brown clay
			163-175	sand and gravel
			175-177	brown clay
			177-180	sand and gravel
			180-181	brown clay
			181-182	sand and gravel
			182-183	hard rock
422	26521	18	0-106	sand, clay, gravel
423	21683	4	0-30	dirt
			30-225	granite
424	26756	8	0-12	overburden
			12-25	fractured rock
			25-453	granite
425	20687	4	0-68	dirt, sand, boulders
			68-108	limestone
			108-147	trap rock
426	23840	7	0-20	clay
			20-200	granite
427	25386	12	0-5	hardpan
			5-398	granite
428	29735	35	0-8	hardpan
			8-148	granite
429	23884	30+	0-31	sandy hardpan
			31-122	granite
430	20315	3	0-8	overburden
			8-472	granite
431	21079	10	0-10	overburden
			10-123	granite (soft 64-65)
432	21967	0.5	0-7	hardpan
			7-350	granite
433	27724	4	0-14	sandy clay
			14-352	granite
434	30120	35	0-35	overburden
			35-150	granite
435	27068	15	0-22	fractured rock
			22-230	granite
436	27373	15	0-12	fractured rock
			12-260	granite
437	21448	5	0-10	hardpan and sand
			10-398	granite
438	21729	6	0-6	stony sand
			6-373	granite
439	25201	4	0-15	sandy hardpan
			15-498	granite

Well Number	Identifier	Discharge	Depth	Geologic Log
440	26507	40+	0-60 60-105	fractured rock granite
441	20613	5	0-6 6-348	stony overburden gray granite
442	28430	7	0-7 7-298	stony hardpan granite
443	19154	15	0-7 7-300	overburden gray granite
444	19171	30	0-11 11-98	sand hardpan gray granite
445	19172	30	0-18 18-73	hardpan and sand gray granite
446	19173	8	0-54 54-215	hardpan-sandstone granite
447	24757	10	0-40 40-175	overburden sandstone
448	22319	5	0-68 68-448	clay, sand, gravel granite
449	22748	40	0-100	sand, clay, lime gravel
450	23549	55	0-57 57-73	clay, sand, gravel soft fractured limestone
451	23639	26	0-100	clay, sand, lime gravel
452	22622	44	0-120	clay, sand, gravel, hardpan, limestone gravel
453	23630	50+	0-140 140-145	clay, sand, gravel rotten lime
454	27523	30	0-20 20-60 60-230	soil rotten limestone granite
455	18875	20	0-20 20-125	overburden with gravel granite
456	23310	5	0-41 41-106 106-198	clay and boulders clay granite
457	24995	5.5	0-10 10-174	brown granite granite
458	25569	10	0-10 10-175	overburden granite
459	21598	5	0-7 7-248	stony hardpan granite
460	29754	30	0-15 15-98 98-105 105-150	sandy soil and boulders clay and gravel broken limestone limestone
461	30219	30	0-10 10-14 14-126 126-132	overburden gravel, water clay gravel, water
462	8486	16	0-30 30-80 80-204 204-237 237-280	broken rock with some boulders clay with some boulders clay clay with some streaks of soft rock limestone rock
463	28001	20	0-40 40-100	overburden limestone
464	20152	20+	0-25 25-92	clay and stone mixed brown granite
465	21912	25+	0-2 2-35	overburden sand and heavy gravel, some small boulders



Well Number	Identifier	Discharge	Depth	Geologic Log
466	21910	5	35-95	sand and clay
			95-100	sand and gravel
			0-2	overburden
			2-40	sand and gravel
			40-60	clay
467	8016	380	60-95	clay and gravel
			95-100	sand and gravel
			0-45	yellow clay
			45-49	boulders
			49-68	clay
468	9170	NR	68-72	sand
			72-198	limestone rock
			0-5	sand and gravel, very dirty
			5-15	fine yellow sand
			15-22	very fine sand
469	24977	7	22-30	fine sand with a few large boulders
			30-50	fine yellow sand with thin streaks of clay
			50-70	clay with sand streaks
			70-78	hardpan with broken granite mixed in
			78-85	soft rotten rock
470	26425	8	85-90	yellow clay
			90-105	brownish yellow clay
			105-115	soft clay with gravel
			115-171	broken and weathered rock with clay seams
			0-20	overburden
471	31028	20	20-40	soft granite
			40-250	granite
			0-20	overburden
472	28212	NR	20-250	granite
			0-70	fractured rocks, clay
			70-105	granite
473	20390	5	0-30	overburden
			30-50	granite
			0-6	overburden
474	24794	18	6-148	granite
			0-13	stony hardpan
			13-173	granite
475	22425	20	0-25	overburden
			25-80	brown granite
			80-123	granite
476	28118	NR	0-30	overburden
			30-475	granite
			0-30	fractured rock
477	21226	12	30-275	granite
			0-350	overburden
			350-375	limestone
478	28062	50	0-30	overburden
			30-98	granite
			0-30	overburden, clay, sand
479	21837	20	30-98	granite
			0-3	overburden
			3-525	granite
480	24032	25-30	0-30	sand, brown clay
			30-80	brown granite
			80-100	brown granite gradually turning gray
481	21830	7	100-398	gray granite
			0-30	fractured
			30-135	granite
482	28600	8	0-30	overburden, dirt, sand, rotten rock with water
			30-122	gray granite, brown and rotten 72-112

Well Number	Identifier	Discharge	Depth	Geologic Log
484	20683	5	0-20 20-55 55-198	overburden brown granite granite
485	29405	20	0-30 30-200	overburden granite
486	28427	20	0-36 36-46 46-198	hardpan sandstone granite
487	28094	15	0-23 23-400	rock, sandy lime
488	27178	5	0-8 8-400	overburden granite
489	32098	20	0-94 94-100	sandy clay and brown lime soft brown lime
490	24723	3.5	0-4 4-398	stony hardpan granite
491	24353	65	0-25 25-150	overburden limestone
492	29413	15	0-30 30-250 250-305	sandy overburden granite blue stone
493	24453	20	0-3 3-223	overburden granite
494	23555	30	0-30 30-175	sand and clay gray granite
495	23556	15	0-50 50-175	sandy clay gray granite
496	23401	50	0-70 70-110	sand, clay gray granite
497	30999	15	0-25 25-140	sandy overburden granite
498	20752	7	0-24 24-145	sandy hardpan granite
499	20753	13	0-8 8-123	stony hardpan granite
500	20796	35	0-26 26-97	sandy hardpan granite
501	20952	20	0-67 67-180	sandy hardpan granite
502	20953	7	0-19 19-148	hardpan gray granite
503	21110	16	0-4 4-183	overburden gray granite
504	21378	13	0-7 7-198	sandy hardpan granite
505	20070	17	0-12 12-148	stony overburden gray granite
506	25095	13	0-7 7-18 18-173	sandy hardpan sandstone granite
507	24328	10	0-78 78-150	clay and fractured rock granite
508	22504	20	0-70	sand, clay, gravel
509	20524	25	0-5 5-32 32-110	overburden brown granite gray granite
510	21449	16	0-24 24-148	hardpan and sand and gravel granite



Well Number	Identifier	Discharge	Depth	Geologic Log
511	28097	12	0-4	dirt
			4-104	fractured rock
			104-113	sandstone
			113-116	granite
512	28102	5	0-35	clay and sand
			35-39	broken rock
			39-76	granite
513	25086	20	0-30	overburden
			30-200	sandstone
514	4762	50	0-40	hardpan and sand
			40-44	rotten granite
			44-57	granite
515	21774	40+	0-38	hardpan and sand
			38-73	soft brown granite
516	26072	30	0-40	overburden
			40-50	weathered gneiss
			50-175	gneiss
517	17674	7	0-14	clay, gravel, granite
			14-55	brown gray granite, water 50-55
			55-97	granite
518	24265	20+	0-36	stony hardpan
			36-52	medium brown granite
			52-98	granite
519	25092	20	0-30	overburden
			30-75	sandstone
520	25469	4	0-58	overburden
			58-300	gray rock
521	24580	30	0-50	overburden
			50-150	sandstone
522	24583	30	0-60	overburden
			60-250	sandstone
523	24998	8	0-75	sand and gravel
			75-300	granite
524	25085	20	0-30	overburden
			30-100	sandstone
525	24581	20	0-40	overburden
			40-75	limestone
526	21319	35	0-43	sand, clay
			43-173	granite
527	23569	7	0-15	hardpan
			15-300	granite
528	21804	5	0-15	overburden
			15-198	granite (brown, 29-31, 83-84, 137-138)
529	21456	3	0-30	overburden
			30-420	gneiss
530	30388	NR	0-55	brown sand mixed with clay
			55-295	hard gray granite
531	28610	NR	0-39	overburden
			39-185	granite
532	19009	NR	0-16	stony overburden
			16-199	gray granite
533	21100	50+	0-18	hardpan
			18-73	gray gneiss
534	25833	8	0-39	overburden
			39-200	granite
535	28800	NR	0-20	overburden
			20-80	sandstone
			80-300	granite

Well Number	Identifier	Discharge	Depth	Geologic Log
536	28801	NR	0-20 20-50 50-300	overburden sandstone granite
537	28811	NR	0-20 20-110 110-300	overburden rotten granite granite
538	28817	NR	0-35 35-200	overburden granite
539	28819	NR	0-25 25-325	overburden limestone and granite
540	28468	NR	0-25 25-200	overburden granite
541	25952	30	0-40 40-305	fractured rock granite
542	20006	6	0-16 16-98	sandy overburden granite
543	21302	20+	0-3 3-21 21-38 38-98	overburden clay rotten granite granite, soft 52-55 and 95-98
544	21330	87	0-30 30-390	sand and gravel sandstone
545	24960	NR	0-24 24-100	overburden granite
546	27984	20	0-11 11-173	hardpan granite
547	27985	6	0-11 11-248	sandy hardpan granite
548	27986	50+	0-6 6-273	stony hardpan granite
549	28162	30	0-6 6-33 33-148	clay sandstone granite
550	28163	10	0-28 28-38 38-148	clay hardpan sandstone granite
551	27898	28	0-12 12-148	stony hardpan granite
552	27900	5	0-64 64-373	sandy clay hardpan granite
553	28074	35	0-8 8-248	sandy hardpan gray granite
554	28077	12	0-10 10-27 27-198	sandy hardpan sandstone granite
555	28078	14	0-23 23-122	hardpan granite
556	28164	14	0-6 6-37 37-198	brown hardpan sandstone granite
557	28165	40	0-9 9-24 24-273	hardpan sandstone granite
558	28167	10	0-7 7-373	stony hardpan granite
559	23843	20	0-28 28-200	fractured rock granite
560	23803	5	0-27	sandy hardpan



Well Number	Identifier	Discharge	Depth	Geologic Log
			27-55	soft loose brown granite
			55-398	granite
561	25391	40	0-6	overburden
			6-475	granite
562	29665	6	0-40	overburden
			40-700	limestone
563	30126	6	0-18	fractured rock and soil
			18-305	granite
564	23309	NR	0-11	overburden
			11-23	brown granite
			23-298	granite
565	24141	15	0-15	overburden
			15-125	granite
566	28304	NR	0-40	overburden
			40-290	granite
567	29092	35	0-10	sandy hardpan, gravel
			10-30	sandstone
			30-198	granite
568	29094	20	0-33	sandy hardpan
			33-198	gray granite
569	29096	20	0-21	sandy, clay, gravel
			21-69	brown granite
			69-173	gray granite
570	29098	35	0-29	sandy hardpan
			29-45	sandstone
			45-116	brown granite
			116-198	gray granite
571	29106	40	0-45	sandy hardpan
			45-148	granite
572	29114	30	0-33	stony hardpan
			33-50	sandstone
			50-298	granite
573	29113	22	0-11	sandy hardpan
			11-196	granite
574	25343	15-20	0-15	overburden
			15-55	brown granite
575	9141	57	0-7	earth
			7-15	broken rock
			15-25	sand and clay
			25-200	granite
576	19767	8	0-8	sand, clay, broken rock
			8-98	gray granite
577	21710	25+	0-6	overburden
			6-35	rotten granite
			35-125	granite, soft 120-125
578	16212	15+	0-15	overburden
			15-45	soft brown limestone
			45-73	limestone, soft 63-65
579	14512	9	0-17	overburden with boulders
			17-155	granite
580	15408	15	0-35	overburden
			35-64	brown granite
			64-123	granite
581	21485	NR	0-64	clay hardpan
			64-67	loose fractured rock
			67-248	granite
582	21501	50+	0-18	stony overburden
			18-46	sandstone

Well Number	Identifier	Discharge	Depth	Geologic Log
			46-210	granite
583	22808	25	0-32	fill and clay
			32-200	gray granite
584	27350	30	0-8	fill
			8-26	fractured rock
			26-280	granite
585	10402	50	0-8	earth and clay
			8-30	soft granite
			30-199	hard granite
586	17879	6	0-35	clay
			35-40	boulders
			40-58	clay, sand
			58-70	brown granite
			70-83	brown and gray granite
			83-147	granite
587	31676	4	0-21	overburden
			21-380	granite
588	27218	10	0-55	clay
			55-200	lime
589	27219	12	0-50	clay
			50-250	limestone
590	17876	2.5	0-50	clay, sand, very soft rock
			50-233	granite
591	25167	4	0-40	sandy subsoil
			40-260	blue rock
592	32117	20	0-30	sandy overburden with water
			30-140	fractured granite
593	25168	7	0-30	sandy soil
			30-200	blue stone
594	25733	5	0-30	overburden
			30-45	soft granite
			45-200	granite
595	25734	12	0-20	overburden
			20-40	soft granite
			40-150	granite
596	28414	7	0-41	soft hardpan
			41-61	soft sandstone
			61-298	granite
597	28415	15+	0-24	soft hardpan
			24-57	soft sandstone
			57-173	granite
598	28418	15	0-17	soft hardpan
			17-79	soft sandstone
			79-173	granite
599	28423	40	0-13	stony hardpan
			13-415	granite
600	24-21070	12	0-18	sandy hardpan
			18-70	sandstone
			70-173	granite
601	27826	30	0-39	sandy hardpan
			39-149	granite
602	27828	30	0-14	sandy hardpan
			14-123	granite
603	27830	45	0-21	hardpan
			21-98	granite
604	27832	20	0-42	sandy hardpan
			42-448	granite
605	28412	15	0-23	soft hardpan



Well Number	Identifier	Discharge	Depth	Geologic Log
			23-66	sandstone
			66-198	granite
606	24290	20+	0-23	sandy hardpan
			23-249	granite
607	28420	14	0-16	sandy hardpan
			16-72	sandstone
			72-198	granite
608	30628	3	0-39	sand and clay
			39-49	fractured rock and sand
			49-71	brown granite
			71-398	gray granite
609	26605	30	0-10	sandstone
			19-373	granite
610	20464	7	0-46	hardpan
			46-172	gray granite
611	28321	12	0-30	sandy overburden
			30-320	blue rock
612	28575	15	0-30	sandy with broken rock
			30-200	blue rock
613	28111	10	0-40	sandy with broken rock
			40-360	blue rock
614	29279	15	0-8	hardpan
			8-173	granite
615	21248	5	0-3	overburden
			3-18	brown granite
			18-273	gray granite
616	26478	50	0-30	fractured rock and soil
			30-500	granite
617	22831	24	0-26	sandy hardpan
			26-173	granite
618	24099	8	0-8	sandy hardpan
			8-298	granite
619	22365	10	0-6	clay
			6-40	rotten granite
			40-175	soft granite and water
620	21957	5	0-6	clay and boulders
			6-20	rotten granite
			20-198	granite, soft 100-110, 175-185, 195-198
621	23832	15	0-25	overburden
			25-160	granite
622	21864	55	0-16	stony hardpan
			16-46	granite
			46-58	soft dark brown sandstone
			58-72	medium granite
623	23405	22	0-18	stony hardpan
			18-98	granite
624	22926	10	0-14	hardpan
			14-46	sandstone
			46-148	granite
625	22927	4.5	0-18	sandy hardpan
			18-42	sandstone
			42-50	granite
626	24114	6	0-21	sandy hardpan
			21-148	granite
627	22916	NR	0-8	clay
			8-40	brown granite
			40-273	granite
628	25622	1-1.5	0-40	overburden

Well Number	Identifier	Discharge	Depth	Geologic Log
			40-660	granite
629	25436	10	0-20	clay and hardpan
			20-30	soft rock
			30-150	granite
630	23907	11	0-10	overburden
			10-28	soft brown granite
			28-223	granite
631	25986	30	0-14	fractured rock
			14-440	granite
632	8118	1	0-45	earth, clay, broken rock
			45-239	very hard granite
633	7180	50	0-10	earth, clay, broken rock
			10-50	rotten granite
			50-130	granite
634	7516	50	0-10	earth, clay, stone
			10-156	hard granite
635	20844	2	0-7	overburden
			7-298	gray granite
636	2929	65	0-16	clay and stones
			16-30	soft granite
			30-418	granite
637	22985	27	0-8	hardpan
			8-123	granite
638	22986	7	0-5	NR [surficial material]
			5-160	granite
639	22987	8	0-11	hardpan
			11-198	granite
640	22988	38	0-18	hardpan
			18-60	soft loose sandstone
			60-198	granite
641	24612	15+	0-14	sand, clay, gravel
			14-173	granite
642	23417	15	0-25	fractured rock
			25-175	granite
643	22920	20	0-10	overburden
			10-20	dirt and loose rock
			20-300	gray-white limestone
644	23442	30+	0-12	fractured rock
			12-180	granite
645	22969	50+	0-7	sandy hardpan
			7-98	sandstone
646	28059	12	0-50	clay
			50-250	lime
647	26903	3	0-8	hardpan
			8-573	granite
648	27526	22	0-12	hardpan
			12-198	granite
649	28706	5	0-40	overburden
			40-600	Byram gneiss
650	29987	30	0-20	sandy overburden
			20-300	rock
651	28058	40	0-70	clay
			70-175	lime
652	32034	8	0-7	clay hardpan
			7-58	soft sandstone and clay layers
			58-848	granite
653	28705	15	0-40	overburden
			40-200	gneiss

Well Number	Identifier	Discharge	Depth	Geologic Log
654	28707	25	0-50	overburden
			50-860	gneiss
655	24293	6	0-12	stony hardpan
			12-473	granite
656	29793	2.5	0-4	hardpan
			4-548	granite
657	25961	12	0-10	sandy hardpan
			10-573	granite
658	29129	30	0-59	overburden
			59-100	limestone
659	29128	20	0-15	overburden
			15-300	limestone
660	29130	12	0-25	overburden
			25-640	limestone
661	29126	18	0-30	overburden
			30-250	limestone
662	30714	15	0-72	sand and clay
			72-138	soft loose sandstone
			138-173	medium sandstone
663	21303	20+	0-3	overburden
			3-6	clay and boulders
			6-12	rotten granite
			12-123	granite, soft 20-22, 120-123
664	20131	11	0-123	sand and gravel
665	20745	9	0-16	sandy hardpan
			16-98	granite
666	20218	10	0-18	overburden
			18-148	granite
667	21298	25	0-3	overburden
			3-8	clay
			8-56	rotten granite
			56-198	granite, soft 195-198
668	26119	25	0-12	stony hardpan
			12-248	granite
669	28405	15	0-28	sandy hardpan
			28-72	rotten sandstone
			72-248	granite
670	29278	35	0-27	hardpan
			27-39	brown fractured rock
			39-198	granite
671	27906	26	0-36	sandy hardpan
			36-123	granite
672	27907	20	0-6	sandy hardpan
			6-248	granite
673	27909	5	0-11	stony hardpan
			11-548	granite
674	27910	7	0-8	stony hardpan
			8-248	granite
675	27911	8+	0-9	hardpan
			9-398	granite
676	27913	18	0-27	hardpan
			27-248	granite
677	27916	8	0-13	hardpan
			13-273	granite
678	27922	15+	0-35	stony hardpan
			35-69	soft green rock
			69-148	granite
679	27923	15+	0-32	sandy hardpan



Well Number	Identifier	Discharge	Depth	Geologic Log
			32-98	granite
680	27924	7	0-17	sandy hardpan
			17-248	granite
681	29298	35	0-30	hardpan
			30-43	soft sandstone
			43-198	granite
682	27812	15	0-26	fractured rock
			26-255	granite
683	20334	3.5	0-5	stony overburden
			5-299	gray granite
684	27627	2	0-19	sandy hardpan
			19-548	granite
685	26717	5	0-16	sandy hardpan
			16-423	granite
686	26718	15	0-38	sandy hardpan
			38-175	granite
687	26719	9	0-38	sandy hardpan
			38-53	soft sandstone
			53-198	granite
688	26720	15	0-38	sandy hardpan
			38-173	granite
689	26723	8	0-18	sandy hardpan
			18-148	granite
690	26725	4.5	0-21	sandy hardpan
			21-298	granite
691	20554	10	0-6	overburden
			6-15	brown granite
			15-400	granite
692	21080	16	0-25	overburden
			25-50	rotten gneiss
			50-498	granite
693	28437	NR	0-20	overburden
			20-400	granite
694	25554	9	0-9	stony hardpan
			9-248	granite
695	25556	12	0-15	sandy hardpan
			15-147	granite
696	24959	8	0-27	sandy hardpan
			27-248	granite
697	24674	9	0-7	stony hardpan
			7-123	granite
698	24831	9	0-5	stony hardpan
			5-273	granite
699	27322	11	0-10	stony hardpan
			10-223	granite
700	25770	15	0-9	sandy hardpan
			9-124	granite
701	25772	30	0-8	stony hardpan
			8-148	granite
702	25774	9	0-11	sandy hardpan
			11-198	granite
703	26006	13	0-8	hardpan
			8-173	granite
704	25300	15	0-10	stony hardpan
			10-273	granite
705	29816	27	0-5	stony hardpan
			5-198	granite
706	30611	40+	0-38	sandy hardpan

Well Number	Identifier	Discharge	Depth	Geologic Log
			38-52	weathered rock
			52-198	granite
707	30617	35	0-13	hardpan
			13-39	weathered rock
			39-198	granite
708	30618	10	0-35	sand, hardpan, fractured rock
			35-298	granite
709	31536	12	0-8	sandy hardpan
			8-15	weathered rock
			15-323	granite
710	31537	18	0-30	sandy hardpan and rock
			30-42	sandstone
			42-223	granite
711	27264	12	0-9	stony hardpan
			9-198	granite
712	28581	18	0-12	stony hardpan
			12-148	granite
713	26734	15	0-5	stony hardpan
			5-198	granite
714	30330	30	0-7	sandy hardpan
			7-398	granite
715	30439	12	0-14	sand, brown clay, rocks
			14-64	sandy hardpan
			64-87	sandstone
			87-273	granite
716	22749	80+	0-77	clay and gravel
			77-98	rotten fractured limestone
717	20455	6	0-56	hardpan, soft decomposed granite
			56-198	gray granite
718	26087	1+	0-7	stony hardpan
			7-548	granite
719	27237	5	0-20	sandy clay
			20-30	sandstone
			30-302	granite
720	24613	8-9	0-11	stony hardpan
			11-198	granite
721	26118	14	0-26	sandy hardpan
			26-123	granite
722	21917	16	0-9	stony hardpan
			9-173	granite
723	27903	5	0-10	overburden
			10-400	granite
724	28559	40	0-23	sandy hardpan
			23-43	sandstone
			43-123	granite
725	28602	12	0-15	clay
			15-60	fractured rock
			60-455	granite
726	20297	10	0-14	sandy overburden
			14-373	gray granite
727	21312	5-6	0-15	stones and dirt
			15-225	granite
728	19710	1	0-5	stony overburden
			5-474	gray granite
729	20490	3	0-2	overburden
			2-148	granite
730	24678	10	0-10	overburden
			10-40	fractured rock

Well Number	Identifier	Discharge	Depth	Geologic Log
			40-205	granite
731	28603	8	0-8	overburden
			8-125	granite
732	29099	25	0-21	sandy hardpan
			21-41	sandstone
			41-248	granite
733	29101	20	0-27	sandy hardpan
			27-35	sandstone
			35-298	granite
734	29942	3.5	0-5	clay
			5-30	gravel and sand
			30-80	broken rock
			80-500	granite
735	27403	7	0-8	sandy hardpan
			8-223	granite
736	27807	20	0-40	conglomerate
			40-200	gray gneiss
737	28892	20	0-35	clay, sand, and gravel
			35-260	gray gneiss
738	28515	10	0-30	conglomerate
			30-240	gray gneiss
739	28516	25	0-20	conglomerate
			20-240	gray gneiss
740	30064	18	0-40	conglomerate
			40-240	gray gneiss
741	21179	NR	0-54	hardpan
			54-63	sandstone
			63-273	gray granite
742	27670	7	0-12	fractured rock
			12-405	granite
743	19445	10+	0-26	overburden
			26-90	brown and gray granite
			90-122	gray granite
744	27404	9	0-7	sandy hardpan
			7-198	granite
745	27862	50+	0-8	fractured rock
			8-150	granite
746	24128	15	0-35	fractured rock
			35-150	rock
747	23207	7	0-18	hardpan
			18-198	granite
748	25549	15	0-40	sandy hardpan
			40-173	granite
749	25550	20	0-8	stony hardpan
			8-198	granite
750	25551	1	0-29	hardpan
			29-62	soft sandstone
			62-673	granite
751	25552	10	0-37	sandy hardpan
			37-198	granite
752	29100	30	0-14	hardpan
			14-32	sandstone
			32-198	granite
753	25067	15	0-16	sandy hardpan
			16-198	granite
754	29104	35	0-38	hardpan
			38-248	granite
755	29109	15	0-46	hardpan



Well Number	Identifier	Discharge	Depth	Geologic Log
			46-297	granite
756	25496	22	0-22	sandy hardpan
			22-148	granite
757	31817	30+	0-5	hardpan
			5-16	weathered rock
			16-223	granite
758	26155	25+	0-12	sandy hardpan
			12-299	granite
759	27926	18	0-10	sandy hardpan
			10-248	granite
760	25387	15	0-36	hardpan
			36-172	granite
761	26626	20	0-20	overburden
			20-225	granite
762	30009	10	0-12	hardpan
			12-50	sandstone
			50-798	granite
763	21042	2	0-65	clay and boulders
			65-70	rotten limestone
			70-298	limestone
764	23827	12	0-18	fractured rock
			18-250	granite
765	27888	2	0-85	overburden
			85-900	limestone
766	27808	8	0-60	overburden
			60-775	limestone
767	21604	11	0-17	stony hardpan
			17-197	granite
768	25094	7	0-5	stony hardpan
			5-40	sandstone
			40-248	granite
769	31725	45	0-8	fractured rock
			8-300	granite
770	19408	15	0-16	sandy overburden
			16-123	gray granite
771	21665	20+	0-2	overburden
			2-223	granite
772	21474	12	0-56	soft sandstone
			56-125	granite
773	28558	40	0-16	hardpan
			16-198	medium brown granite
774	19848	10	0-20	sand, clay
			20-40	rotten trap rock
			40-46	dirt
			46-48	gray trap
			48-70	sand, white stone
			70-75	gray trap
775	26728	15	0-9	stony hardpan
			9-298	granite
776	23293	12	0-35	hardpan and sand
			35-55	soft brown sandstone
			55-123	medium granite
777	26272	90+	0-4	soil
			4-70	fractured rock
			70-280	granite
778	30291	10	0-30	rotten lime and fractures
			30-405	limestone, occasional fractures
779	22792	17	0-16	sandy hardpan

Well Number	Identifier	Discharge	Depth	Geologic Log
			16-199	granite
780	24102	15	0-12	stony hardpan
			12-273	granite
781	28867	15	0-12	overburden
			12-135	granite
782	26641	12	0-8	overburden
			8-475	granite
783	20261	4	0-40	sandy overburden
			40-350	granite
784	29666	15	0-2	overburden
			2-300	limestone
785	25219	25+	0-18	fractured rock
			18-300	granite
786	23886	20	0-25	overburden
			25-200	granite
787	21450	20	0-18	loose sandy rock
			18-225	limestone, gray
788	23206	5	0-24	hardpan
			24-67	soft sandstone
			67-448	granite
789	23656	20	0-2	soil
			2-10	subsoil
			10-18	fractured rock
			18-350	granite
790	29117	12	0-18	sand and gravel
			18-25	sandstone
			25-298	granite
791	24604	20	0-20	sandy hardpan
			20-123	granite
792	24688	12	0-31	sandy hardpan
			31-148	granite
793	24689	15+	0-28	sandy hardpan
			28-147	granite
794	24690	15	0-8	overburden
			8-35	soft rock
			25-225	granite
795	22009	30	0-2	overburden
			2-22	sand and gravel
			22-28	boulder
			28-40	sand and gravel
			40-200	granite, soft 190-200
796	24251	25	0-1	overburden
			1-50	sand
			50-170	clay
			170-175	gravel
797	32791	15	0-171	sand
798	18339	5	0-20	sand and water
			20-40	brown sand
			40-204	gray silt, bed of brown sand at 175
			204-209	gravel and water
799	19967	20	0-50	sand
			50-175	clay
			175-206	sand
			206-209	gravel
800	5732	260	0-35	fine to medium sand and some gravel
			35-40	fine to coarse sand, a little gravel and clay
			40-45	fine to coarse sand and gravel
			45-65	medium and coarse sand, small and large

Well Number	Identifier	Discharge	Depth	Geologic Log
801	31323	10	0-195	gravel sand and gravel
802	23672	20	0-30	sand
			30-175	gray clay
			175-179	brown clay and gravel
			179-180	gravel
803	23450	50+	0-25	sand
			25-170	gray clay
			170-178	brown clay and gravel
			178-180	gravel and sand
804	893	NR	0-5	brown sand
			5-14	gravel
			14-25	fine salt and pepper sand
			25-35	salt and pepper sand
			35-48	fine sand, some few stones
			48-55	very fine sand
			55-85	fine hard sand
			85-97	sandy clay
			97-140	soft gray clay
805	25990	30	0-6	soil
			6-40	fractured rock
			40-155	granite
806	17130	30	0-2	clay
			2-35	sand
			35-68	clay
			68-70	gravel
807	17274	10	0-40	overburden
			40-90	sand packed clay
			90-120	gravel and clay
			120-125	gravel
808	17930	15	0-3	overburden
			3-75	fine sand
			75-110	clay and sand
			110-112	gravel, water
809	36795	NR	0-36	fine, medium, coarse sand
			36-51	very fine sand and silt
			51-61	silt and clay
810	23348	4	0-40	sandy overburden
			40-400	granite
811	19299	1	0-8	sandy overburden
			8-398	granite
812	28579	5	0-8	overburden
			8-300	granite
813	30684	30	0-30	hardpan, fractured rock
			30-150	granite
814	32434	10	0-11	overburden
			11-175	granite
815	22210	NR	0-35	clay, gravel
			35-55	rotten granite
			55-373	granite
816	20892	20	0-20	fractured rock
			20-325	granite
817	19339	15	0-9	overburden
			9-99	gray granite
818	29371	7	0-18	overburden
			18-45	rotten rock
			45-175	granite
819	28089	20	0-8	overburden

Well Number	Identifier	Discharge	Depth	Geologic Log
820	27565	10	8-124 granite 0-15 overburden 15-200 granite	
821	36085	10	0-15 rotten rock 15-255 granite with occasional seams	
822	43846	20	0-240 sand and gravel	
823	34662	9.5	0-20 clay, sand, gravel 20-500 granite	
824	44284	20	0-175 sand and gravel	
825	23957	3.5	0-4 boulders, clay 4-298 granite	
826	21893	10	0-40 brown sand 40-90 brown silt 90-100 gravel, sand, etc. 100-110 gravel, sand, water area	
827	5595	78	0-15 clay and boulders 15-41 sand and gravel 41-45 decomposed granite rock 45-195 very hard granite rock	
828	27053	6	0-18 fractured rock 18-300 granite	
829	21894	2	0-8 hardpan overburden 8-322 granite	
830	20788	20+	0-20 sand, gravel, clay 20-173 granite	
831	29433	NR	0-39 overburden 39-100 granite	
832	42362	10	0-19 overburden 19-150 granite	
833	8008	20	0-62 yellow hardpan 62-100 tan rock	
834	21092	10	0-38 fractured rock 38-175 granite	
835	21090	10	0-40 fractured rock 40-150 granite, brown seam and water 120-122	
836	23750	15-20	0-10 clay, boulders 10-122 granite	
837	30414	30	0-5 fill dirt 5-29 hardpan 29-198 granite	
838	30723	35	0-30 overburden 30-250 granite 250-270 sandstone	
839	13907	42	0-22 overburden 22-159 granite	
840	26271	5	0-21 fractured rock 21-305 granite	
841	42864	15	0-12 clay 12-300 limestone	
842	33026	30	0-20 overburden 20-500 limestone	
843	26710	7	0-20 fractured rock 20-280 granite	
844	25458	100+	0-10 fractured rock 10-105 limestone	
845	36368	4	0-8 hardpan 8-60 fractured shale 60-1000 Martinsburg shale, gray, red, black, white	



Well Number	Identifier	Discharge	Depth	Geologic Log
846	28546	6	0-8 8-300	cobbles, boulders granite
847	26482	30+	0-35 35-130	fractured rock granite
848	20716	5	0-63 63-92 92-148	sand, gravel, clay rotten granite granite
849	28537	40	0-35 35-200	sand, gravel granite
850	21716	2.5	0-10 10-18 18-26 26-250	sand, boulders sand, clay sandstone gray granite
851	28126	1	0-20 20-39 39-425	overburden clay limestone
852	15286	40	0-27 27-125	overburden limestone, seamy
853	28682	20	0-55 55-80	clay red granite
854	30249	NR	0-20 20-25 25-400	overburden hardpan granite
855	21218	10+	0-3 3-248	overburden granite
856	39030	10	0-13 13-63 63-305	clay weathered rock granite
857	39029	30	0-33 33-56 56-255	clay soft weathered rock granite
858	40592	18	0-12 12-38 38-305	clay weathered rock granite
859	40860	10	0-22 22-37 37-355	clay weathered rock granite
860	40861	18	0-16 16-34 34-305	clay weathered rock granite
861	40593	30	0-21 21-37 37-300	clay weathered rock granite
862	40578	12	0-55 55-430	weathered rock granite
863	40594	15	0-7 7-16 16-405	clay weathered rock granite
864	40591	15	0-18 18-76 76-580	clay weathered rock granite
865	40579	10	0-58 58-305	weathered rock granite
866	24-15374	30	0-5 5-200	overburden granite
867	17068	3	0-20 20-57 57-348	overburden rotten granite granite

Well Number	Identifier	Discharge	Depth	Geologic Log
868	24-14852	20+	0-45	clay
			45-80	limestone, rotten 45-50, soft 75-80
869	24-11807	10	0-27	overburden
			27-325	granite
870	24-17003	7	0-70	clay sand
			70-204	sandstone
871	24-19793	20	0-20	overburden
			20-60	sandstone
			60-120	limestone
872	24-7317	15	0-7	overburden
			7-91	granite, soft 44-47, 83-91
873	24360	30	0-5	topsoil
			5-25	rotten granite
			25-200	granite
874	24676	20	0-18	fractured rock
			18-130	granite
875	24679	10	0-16	overburden
			16-30	hardpan
			30-235	granite
876	27811	16	0-40	clay and rock
			40-95	granite
877	39130	22	0-58	weathered rock
			58-422	granite
878	38738	50	0-9	clay
			9-55	granite
879	31769	20	0-36	hardpan and weathered rock
			36-51	sandstone
			51-298	granite
880	29134	7	0-25	overburden
			25-700	limestone
881	29142	30	0-30	overburden
			30-325	limestone
882	29143	35	0-15	overburden
			15-400	limestone
883	24196	15	0-5	overburden
			5-200	granite
884	35080	8	0-20	overburden
			20-123	granite
885	28431	30	0-40	clay hardpan
			40-55	brown sandstone
			55-198	gray granite
886	22679	22	0-19	hardpan and gravel, water
			19-198	granite
887	34116	45	0-10	hardpan
			10-30	fractured rock
			30-310	granite
888	12208	30	0-36	hardpan and water
			36-72	granite
889	12097	30	0-5	overburden
			5-19	sand, clay, gravel
			19-72	sandstone
890	12596	100	0-40	sand and gravel
			40-65	rotten rock
			65-78	hard and soft seams
			78-135	soft rock
891	17885	20	0-20	overburden
			20-273	granite
892	16079	14	0-15	overburden

Well Number	Identifier	Discharge	Depth	Geologic Log
			15-98	granite
893	18506	34+	0-43	overburden
			43-248	granite
894	19770	2.5-3	0-38	overburden
			38-78	gray hard granite
			78-253	granite
895	18279	8		[anomalous log, not included in thickness mapping]
			0-35	brown sand
			35-100	gray silt
			100-110	brown sand and gravel
			110-120	brown sand
			120-122	gravel and water
896	17313	20+	0-40	sand and gravel
			40-115	gray clay
			115-135	sand and gravel
			135-140	gravel and water
897	19526	15	0-5	overburden
			5-20	sand
			20-50	clay, sand
			50-54	sand
			54-60	sand and gravel
898	22020	15	0-40	sand
			40-60	brown sand
			60-80	gray silt
			80-105	yellow clay
			105	gray shale
			105-122	water
899	13892	18	0-42	sand
			42-121	gray clay
			121-125	sand, gravel
900	16663	20+	0-2	overburden
			2-30	sand
			30-89	fine sand with clay
			89-91	boulders
			91-115	brown clay with gravel
			115-120	red gravel
901	16790	10+	0-40	overburden
			40-223	granite
902	16918	20+	0-20	gravel and sand
			20-45	gray silt
			45-95	yellow clay
			95-104	fine sand and gravel
			104-122	hard packed gravel
903	17693	20	0-29	brown sand
			29-110	gray clay
			110-129	sand and gravel
904	17801	22	0-15	fill
			15-27	clay
			27-200	granite
905	19397	20	0-45	gravel
			45-70	sand, gravel, and boulders
			70-105	coarse sand and gravel
906	20495	1.5	0-61	overburden
			61-296	granite
907	20718	10	0-20	overburden with clay
			20-173	granite
908	21244	12	0-30	sand

Well Number	Identifier	Discharge	Depth	Geologic Log
			30-94	sand and clay
			94-107	soft sandstone
			107-122	gray granite
909	22499	3	0-40	sand
			40-95	clay
			95-102	gravel
			102-107	gravel and water and sand
910	22713	3	0-11	overburden
			11-13	boulder
			13-90	clay
			90-370	granite
911	22714	15	0-65	clay and gravel
			65-123	granite
912	23550	30+	0-29	sand
			29-210	gray clay
			210-268	brown clay and gravel
			268-270	granite, fractured
913	23595	18	0-18	overburden
			18-202	granite
914	27139	120	0-30	rotten rock, till, and overburden
			30-40	weathered granite
			40-285	granite
			285-340	soft granite
			340-342	granite
915	test well on file at NJGWS	NR	0-5	dirty sand
			5-10	sand, some gravel
			10-15	sand and gravel
			15-20	sand, gravel, brown clay
			20-25	sand, egg-size gravel
			25-30	sand
			30-49	fine sand, clay
			49-68	fine to medium sand, gravel
			68-70	medium to coarse sand
			70-100	fine sand, clay
916	DOT 446W-15	NR	0-15	brown sand and silt, trace gravel and clay
			15-16	orange-brown sand and silt, little gravel
			16-28	brown sand, little silt
			28-61	brown, orange-brown clayey silt, some to little sand and gravel
			61-76	gray fractured siliceous limestone
917	60607	50	0-19	clay hardpan and cobbles
			19-41	brown granite
			41-656	gray granite
918	66157	70	0-35	dirt, sand, and gravel
			35-63	broken formation
			63-90	sandstone
			90-507	limestone
919	66156	70	0-30	broken formation and clay
			30-807	granite
920	18429	30+	0-13	overburden
			13-422	granite, soft 64-66
921	64825	65	0-6	boulders and clay
			6-505	granite
922	53774	60	0-16	sand, clay, gravel overburden
			16-472	granite
923	26025	60	0-2	overburden
			2-48	brown clay
			48-170	granite



Well Number	Identifier	Discharge	Depth	Geologic Log
924	44470	640	0-137 137-162 162-168 168-182	boulders, sand, clay limestone clay and sand limestone
925	53713	175	0-50 50-292	overburden granite
926	23162	90	0-55 55-205	overburden granite
927	60756	8	0-2 2-42 42-522	soil rock granite
928	28836	NR	0-30 30-80 80-260	overburden limestone granite
929	48785	40	0-12 12-47 47-515	gritty overburden fractured rock granite
930	53877	120	0-15 15-30 30-450	soil and gravel broken granite granite
931	DOT B0022175	NR	0-6 6-16	orange-brown sand and gravel, little silt gneiss, highly weathered
932	29147	6	0-18 18-320	sandy overburden rock