

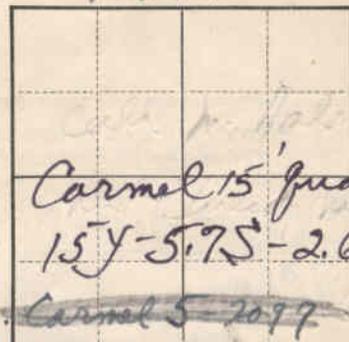
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WATER RESOURCES BRANCH

P510

Lake Carmel 7 1/2' quad

RECORD OF WELL

1. Location: State N.Y. County Putnam  
Nearest P. O. Carmel Direction from P. O. SW  
Distance from P. O. 1 miles; 1 1/4 sec., T. \_\_\_\_\_, R. Tel. Carmel 5-2077  
If in city, give street and number Town of Carmel



2. Owner: Tyler Halstad Address Carmel, N.Y.  
Driller: P. F. Deal & Sons Address Brewster, N.Y.

3. Situation: Is well on upland, in valley, or on hillside? upland

4. Elevation of top of well: 610 ft. above the level of sea  
(Above or below) (Sea, depot, lake, or stream)

5. Type of well: drl; kind of drilling rig used Core drill  
(Dug, driven, bored, or drilled) (Solid tool, jetting, rotary, etc.)

6. Depth of well: 177 ft.; year in which well was finished 1935  
Does well enter rock? Yes; if so, at what depth? 4 ft.; kind of rock granite

7. Diameter: At top 6" inches; at bottom 6" inches.

8. Principal water bed: granite  
(Gravel, sand, clay, or rock. If rock, state kind)  
Depth to principal water bed 170 ft.; thickness of bed \_\_\_\_\_ ft.

If other water supplies were found, give depth to each little water higher up at 30'

Casings: Kind steel; size 6; length \_\_\_\_\_ ft.; between depths of 0 and \_\_\_\_\_ ft.

Kind \_\_\_\_\_; size \_\_\_\_\_; length \_\_\_\_\_ ft.; between depths of \_\_\_\_\_ and \_\_\_\_\_ ft.

Kind \_\_\_\_\_; size \_\_\_\_\_; length \_\_\_\_\_ ft.; between depths of \_\_\_\_\_ and \_\_\_\_\_ ft.

Packers (if any): Depth at which packers were used none; kind \_\_\_\_\_

Screen or Strainer: Was well finished with screen? no; kind of screen \_\_\_\_\_;  
length of screen \_\_\_\_\_ ft.; diameter \_\_\_\_\_ inches; size of openings \_\_\_\_\_

Head: Does well at present overflow without pumping? no; did it overflow when new? no;  
if flowing, give pressure \_\_\_\_\_ lb. per sq. inch; or height water will rise in a pipe \_\_\_\_\_ ft. above surface;  
original pressure or head \_\_\_\_\_; if not flowing, give water level in well \_\_\_\_\_ ft. below surface.

Pump: Is the well pumped? yes; kind of pump DW - mouse;  
size or capacity of pump \_\_\_\_\_; kind of power electric

Yield: Natural flow at present (if any) \_\_\_\_\_ gallons per minute; original flow \_\_\_\_\_ gallons per minute;  
well has been pumped at 3 1/2 (approx) - Mrs. Halstad gallons per minute continuously for \_\_\_\_\_ hours;  
quantity of water ordinarily obtained from well 200 or more gallons per day.

Use: For what purpose is the water used? Dom. - 3 people

Quality of the water: Very hard. Softener used.; is there an analysis? yes (over)  
(Hard or soft, fresh or salty, etc.)

Cost of well, not including pump: \_\_\_\_\_ Temperature of water \_\_\_\_\_ ° F.

Name of person filling blank J. Grossman from Mrs. Halstad & Deal's records

7-11-50 Address V.S. & S. Albany

# LOG OF WELL

(from lead)  
Permutit Analysis - drilled well  
from tank - 3-14-45  
REMARKS  
(Especially information as to water found)

KIND OF ROCK OR OTHER MATERIAL (Give color and tell whether hard or soft)	DEPTH, IN FEET		THICKNESS, IN FEET	REMARKS	
	From—	To—			
Topsoil	0	1	1	Total hardness	64 ✓
Clay	1	4	3	alk A	39 ✓
Granite	4	177	173	Ca	10
				Cl	24 17 ✓
				SO <sub>3</sub>	25 26
				Fe	2.5 ✓
				Turbidity	5 ✓
				Color	30 ✓
				PH - - - - -	7.0 ✓
				Total comp. hardness =	4

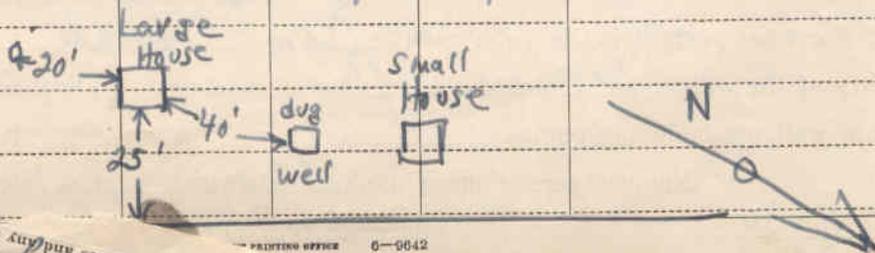
no taste or odor. Not clear. →

Bedrock outcrop about 150 ft. uphill from drilled well. It consists of a nearly vertical granite gneiss.

Road cut on main road about 1/4 mile east of Halstad house shows about 10 ft. of interbedded sand, gravel, clay, & till. Only a few large boulders. A few drill cores still on property show a dark gray speckled granite.

After blasting for the aqueduct took place, water got full of sand & well had to be cleaned out.

A dug well on property not used. It ran dry in summer near overflows. Dug well water was softer. Mrs. Halstad reports a cinder in pipes & pots before softener was installed.



PRIVATE