

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WATER RESOURCES BRANCH

P545

Lake Carmel  
7 1/2' quad

RECORD OF WELL


Carmel 15' quad  
15y-0.4S-2.1E

Locate well on plat of section.

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

2. Owner: George W. Hyatt Address Locust Dale Farm  
RD 2 - Carmel, N.Y.  
Driller: Davis Bros. Address Halvoo, N.Y.

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

4. Elevation of top of well: 830 ft. above the level of sea

5. Type of well: drilled; kind of drilling rig used core drill

6. Depth of well: 100 - 110 - owner ft.; year in which well was finished July 25, 1947

Does well enter rock? yes; if so, at what depth? 10 ft.; kind of rock granite gneiss

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

8. Principal water bed: granite gneiss  
Depth to principal water bed 90 ft.; thickness of bed \_\_\_\_\_ ft.

If other water supplies were found, give depth to each 1 pint a minute at 40 ft.

9. Casings: Kind steel; size 6"; length 20 ft.; between depths of 0 and 20 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 \_\_\_\_\_

10. 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 20-25 ft. below surface. -memory (driller)

11. Pump: Is the well pumped? yes; kind of pump hand pump;  
size or capacity of pump \_\_\_\_\_; kind of power human

12. Yield: Natural flow at present (if any) \_\_\_\_\_ gallons per minute; original flow \_\_\_\_\_ gallons per minute;  
well has been pumped at 3 gallons per minute continuously for (see over) hours;  
quantity of water ordinarily obtained from well 100 gallons per day.

13. Use: For what purpose is the water used? Dom - 2 families

14. Quality of the water: soft - but has iron - leach; is there an analysis? no

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

Name of person filling blank Dr. Crossman from Mrs. Hyatt

Date 7-19-50 Address U.S. Geol. Survey & Lester Davis - driller  
at Albany

# Driller's - LOG OF WELL (from memory)

KIND OF ROCK OR OTHER MATERIAL (Give color and tell whether hard or soft)	DEPTH, IN FEET		THICKNESS, IN FEET	REMARKS (Especially information as to water found)
	From—	To—		
Hardpan & boulders	0	10	10	
Granite gneiss	10	70	60	1 pint per minute at 40 ft. Light-gray
"Gray, shiny, soft, rock	70	74	4	"cut like soapstone
Granite gneiss	74	76	2	
"Gray, shiny, soft rock again	76	80	4	
Granite gneiss	80	100	20	Main water at ca. 90 ft.

Approximately 75-80 ft. of drawdown in 1/2 hour bailing  
10 GPM - driller.

Banded granite gneiss outcrops 6 ft. from well.  
Drill cores still on property (near well). Cores show  
steeply dipping, banded, light-gray granite gneiss.

Fault zone from 72-74 ft? See geol. map! JGG