9–255
(Jan. 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

P489

see P490 & P491

Carmel 15' quad

15Y-6S-10.9E

Locate well on plat of section.

RECORD OF WELL

1. **Location:** State N.Y. County Putnam
   Nearest P. O. _____ Direction from P. O. _____
   Distance from P. O. _____ miles; _____ ¼ sec. _____, T. _____, R. _____
   If in city, give street and number Town of Southeast
   Morpha – formerly Joe's Hill Road

2. **Owner:** Cornelius V. Starr Address Federal Hill, Brewster, N.Y.
   Driller: P. J. Beal and Sons Address _____
   Man on rig: Otter

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

4. **Elevation of top of well:** 762 ft. above (Above or below) the level of sea (Sea, depot, lake, or stream)

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

6. **Depth of well:** 156 ft.; year in which well was finished 1947
   Does well enter rock? yes; if so, at what depth? 14? estimated from casing – DLL. ft.; kind of rock _____

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

8. **Principal water bed:** granite gneiss (Gravel, sand, clay, or rock. If rock, state kind)
   Depth to principal water bed _____ ft.; thickness of bed _____ ft.
   If other water supplies were found, give depth to each _____

9. **Casings:** Kind steel; size 6"; length 16 ft.; between depths of 0 and 16 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 4 ft. below surface.

11. **Pump:** Is the well pumped? yes; kind of pump Turbine;
    size or capacity of pump _____; kind of power electric.

12. **Yield:** Natural flow at present (if any) _____ gallons per minute; original flow _____ gallons per minute;
    well has been pumped at 60 / 40 – drilled gallons per minute continuously for _____ hours;
    quantity of water ordinarily obtained from well _____ gallons per day.

13. **Use:** For what purpose is the water used? only to water grounds. Unfit for other uses.

14. **Quality of the water:** Too much iron; is there an analysis? yes (over)
    (Hard or soft, fresh or salty, etc.)

15. **Cost of well,** not including pump: _____ Temperature of water less than 51 ° F.

Name of person filling blank D. Grossman from data from caretaker Mr. Arthur Jones.

Date 6-5-50 Address U.S.G.S. at Albany & Beal's records

6—9642

On the back of this sheet give the record of the beds through which the well passes and any other facts not given above.

LOG OF WELL

KIND OF ROCK OR OTHER MATERIAL (Give color and tell whether hard or soft)	DEPTH, IN FEET From—	DEPTH, IN FEET To—	THICKNESS, IN FEET	REMARKS (Especially information as to water found)
Soil	0	1	1	
Hardpan	1	14?	13?	← My estimate from
Bedrock	14?	156	142	casing. Not sure - DDG.
Micaceous granite gneiss outcrops on property. It takes only 18 hours to fill swimming pool with water from this well (with 3/4" pipe which cut down flow) but large quantities of iron (even with filter) prevent use for pool. (3,000 ppm pH for 18 hrs!) Also a spring (or dug well) on hillside. See P 490				
Permutit Analysis: (Bud) 5-2 7-47 - drl well. from test pump.				
				new well
Total hardness	117	✓		partly clear when
alk A	72	✓		drawn
CO_2	11			
Cl	13	9.1 ✓		For sketch, see
Na	8	3.7 ✓		P 490
Fe	3.0	✓		
Turbidity	50	✓		
Color	turbid			
pH	7.1	✓		
Total compensated hardness	7			

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