9-[illegible]
(Jan. 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Lake Carmel 7½' quad

P509

Carmel 15' quad
15Y-5.15-3.8E

Locate well on plat of section.

RECORD OF WELL

1. **Location:** State New York County Putnam
   Nearest P. O. Carmel Direction from P. O. ____
   Distance from P. O. ____ miles; ____ ¼ sec. ____, T. ____, R. ____
   If in city, give street and number In Carmel (village) Tel. Carmel 5-3636

2. **Owner:** Carmel Central School Address Carmel, N.Y.
   Driller: L. F. Beal & Sons Address Brewster, N.Y.
   Man on rig: Tommy Hughes - in shop.

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

4. **Elevation of top of well:** 512 ft. above (Above or below) the level of sea (Sound, lake, or stream)

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

6. **Depth of well:** 207? 180 ft.; year in which well was finished 1929 (23 yrs. ago)
   Does well enter rock? yes; if so, at what depth? less than 25-30 ft.; kind of rock ____
   Cornish present water level
   core is in Board's office

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

8. **Principal water bed:** very hard rock (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 ____; length ____ ft.; between depths of 0 and ____ ft.~~
   Kind steel; size 8"; length 21 ft.; between depths of 0 and 21 ft.
   Kind ____; size ____; length ____ ft.; between depths of ____ and ____ ft.
   Cornish
   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? yes; did it overflow when new? yes "always overflowed."
    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 surface ft. below surface.
    flowing 7-11-50; " 12-14-50

11. **Pump:** Is the well pumped? no; kind of pump —
    size or capacity of pump taken out; kind of power —

12. **Yield:** Natural flow at present (if any) ____ gallons per minute; original flow ____ gallons per minute;
    well has been pumped at 15-20 never failed gallons per minute continuously for 24 hours; pump test
    quantity of water ordinarily obtained from well ____ gallons per day. formerly 20's

13. **Use:** For what purpose is the water used? formerly used for 500-600 pupils & teachers now: not used

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

15. **Cost of well,** not including pump: ____ Temperature of water 50-55° reported °F.

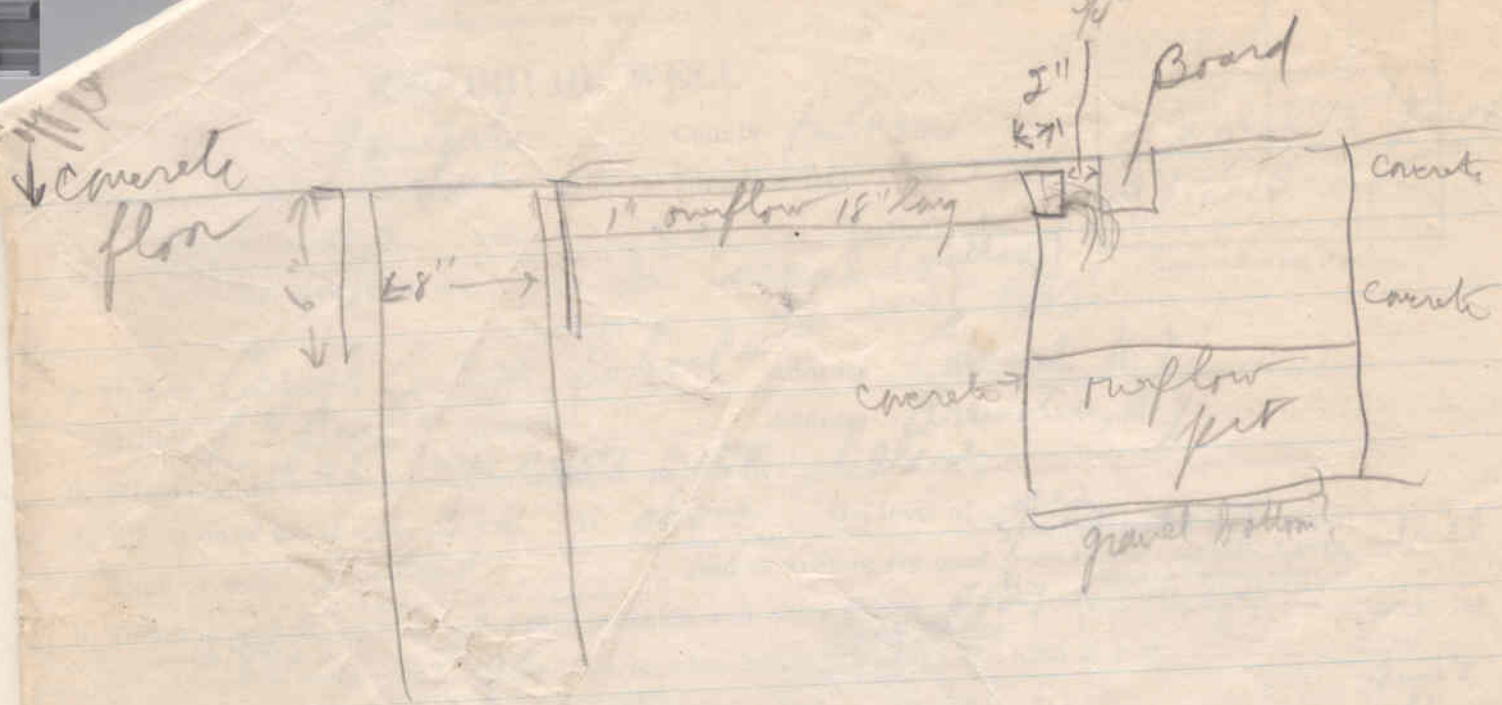
Name of person filling blank H. H. Grossman from Edgar Cole (custodian) & Mr. Cornish (12-14-50) & on school board, present when well drilled

Date 7-11-50 Address U.S.G.S. at Albany

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

+ Tommy Hughes 8-7-50

P50P


3/4"
1"
Board
concrete floor
1" overflow 18" long
8"
concrete
concrete
concrete
overflow pit
gravel bottom

Carmel New York
May 9, 1956

United States Department of Interior
Ground Water Branch

Mr. Irving C Grossman

Dear Sir.

Recieved your letter of May 7, 1956
Will you be here Sat May 12 or Mothers
Day Sun May 13th. I would understand your
letter to mean that you will be here
Sat May 12th at 4 PM. I will be at the
school to oblige you.

Yours Truly

Charles H Shield
Head Custod
Carmel Central S

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Room 332 Federal Bldg.
Post Office Box 590
Albany 1, New York

Ground Water Branch

May 7, 1956

Mr. Cornish
Carmel Central School
Carmel, New York

Dear Sir:

I should like to visit Carmel Central School on Saturday, May 13, for the purpose of collecting a water sample from your unused well.

It is hoped that someone will be present, so that I can enter the building for the collection of a water sample (at about 4:00 p. m.). If it is impossible to have someone unlock the door, please advise by return mail in the enclosed self-addressed envelope, so that the trip will not be made needlessly.

Your kind cooperation is appreciated.

Yours very truly,

Irving G. Grossman

Irving G. Grossman
Geologist

cc: Mr. Edgar Cole, Superintendent

Mr. Chas Shields, Head custodian will be present Saturday May 12 at 4 p.m. for you

Yours,
Robert Trustee Supt Bus.

1933's - **LOG OF WELL** (by synchesis, c...)

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)
Glacial till	0	20?	20?	cut about 25 ft from well down boulders
Precambrian gneiss	20?	180-207	160-187	water from rock, not near bottom

Drill deflected about 2 wy down so rotary bit in not slip.

Test pumped at 20 GPM for 24 hours with ~~with 170 feet of drawdown~~ feet of drawdown

Had colon bacilli in last analysis & Cornish so not used now. Do not publish info on colon bacilli

Permut Analysis (from Bore) 9-29-41 - at pump tap

Total hardness	390	✓
Alk. A	307	✓
CO_2	19	
Cl	41	29 ✓
SO_3	32	36
Fe	0.1	✓
Turbidity	10	✓
Color	20	✓
PH	7.5	✓
Total compensated hardness	23	

32
1.2
64
3
38.4
X.96
3
42364
36.86

pump end flow is about 15-18" long.
not threaded at pump end.