P499

9-255 (Jan. 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

check Brewster with mol!

RECORD OF WELL

Carmel 15' quad
15Y-4.5S-5.7E

Locate well on plat of section.

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

man on rig: Aurytis

2. **Owner:** Richard H. Merrick Address RFD #2 Brewster, N.Y.
   Driller: P. F. Beal & Sons ~~started by Vandusen~~ on rig: Aurytes, Malcolm Beal Address Brewster, N.Y.
3. **Situation:** Is well on upland, in valley, or on hillside? valley
4. **Elevation of top of well:** 648 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:** 165 156-drilled ft.; year in which well was finished Sept. 1949
   Does well enter rock? yes; if so, at what depth? 60 ft.; kind of rock hard granite gneiss top speed was 9 ft. per day.
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 160 156 ft.; thickness of bed ______ ft.
   If other water supplies were found, give depth to each 4 GPM at 130 ft.
9. **Casings:** Kind steel; size 6"; length ~~60~~ ft.; between depths of ~~0~~ and ~~60~~ ft.
   Kind driller =; size ______; length 66 ft.; between depths of 0 and 66 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 5 ft. below surface.
    Pump: Is the well pumped? yes; kind of pump Myers, DW. 100 ft. setting;
    size or capacity of pump 60 GPM; kind of power electric 2HP
    Yield: Natural flow at present (if any) ______ gallons per minute; original flow ______ gallons per minute;
    well has been pumped at 15 GPM gallons per minute continuously for 8 hours; pump test
    quantity of water ordinarily obtained from well 2000-3000 gallons per day.
    Use: For what purpose is the water used? Dairy farm - 1 family + 70 cattle + U.S.G.S. sample taken
    Quality of the water: ~~soft~~ (Hard or soft, fresh or salty, etc.); is there an analysis? yes (over)
    Cost of well, not including pump: ______ Temperature of water less than 51 (meas.) from tank °F.
    Name of person filling blank JG Grossman from Mr. Merrick
    Date 6-6-50 Address U.S. Geol. Survey at Albany + driller's record & Aurytes 8-29-50

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

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Driller's (Augers') **LOG OF WELL** (from memory)

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)
Swampy soil	0	10	10	
Quicksand	10	20	10	
Hardpan - 1 boulder	20	60	40	Glacial till
Granite gneiss	60	156	96	

Pumped 15 GPM for 8 hrs. with less than ~~95'~~ 115' of drawdown. Pumped again for 8 hrs. next day with less than 95' of drawdown. ~~Less drawdown with heat~~ Approx. 13' of drawdown!

Numerous boulders on property (~~geologist?~~) glacial till.

Dug well on hill near house is about 25 ft. deep. It was dry in Oct. 1949. Abandoned now. Is about 100 yrs. old.

U.S. State Health Dept. Analysis: collected 6-7-50 Tap near pump

Dissolved solids	148
Fe	0.03
Mn	< 0.01
HCO_3	118
SO_4	15.3
Cl	4.0
Total hardness	96
~~Hardness~~ CO_3	96
Non CO_3	0
Alk	97
PH	7.7

Color 5

Turbidity Tr

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