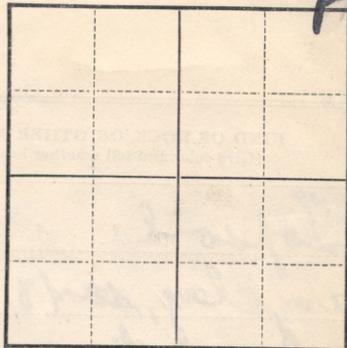


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

#74

P74



Locate well on plat of section.

RECORD OF WELL

15X 10.1 S
West Point 6.7E
15' quad

1. Location: State New York County Putnam

Nearest P. O. _____ Direction from P. O. _____

Distance from P. O. _____ miles; $\frac{1}{4}$ sec. _____, T. _____, R. _____

If in city, give street and number Town of Putnam Valley

2. Owner: Putnam Valley Central School Address R.F.D. Putnam Valley, Put Vall N.Y.

Driller: Carl Elder (for P.F. Bul) Address Bryant, N.Y.

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

4. Elevation of top of well: 530 ft. above the level of sea level
(Above or below) (Sea, depot, lake, or stream)

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

6. Depth of well: 219 ft.; year in which well was finished 1935

Does well enter rock? yes; if so, at what depth? 36 ft.; kind of rock Pochuck diorite and dioritic gneiss (geologic map)

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

8. Principal water bed: Pochuck diorite
(Gravel, sand, clay, or rock. If rock, state kind)

Depth to principal water bed 186 ft.; thickness of bed _____ ft.

If other water supplies were found, give depth to each _____

Casings: Kind steel; size 6; length 44 ft.; between depths of 0 and 44 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? _____; did it overflow when new? _____;

if flowing, give pressure _____ lb. per sq. inch; or height water will rise in a pipe 34 ft. above surface;

original pressure or head _____; if not flowing, give water level in well 36 ft. below surface.

11. Pump: Is the well pumped? yes; kind of pump Meyers Superwell Turbine (unit at);

size or capacity of pump 33 gpm; kind of power Dist 5HP

12. Yield: Natural flow at present (if any) _____ gallons per minute; original flow _____ gallons per minute;

well has been pumped at 40 gallons per minute continuously for 10 hours;

quantity of water ordinarily obtained from well 2000 (est.) gallons 200 children per day.

13. Use: For what purpose is the water used? supply school PWS

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

15. Cost of well, not including pump: _____ Temperature of water _____ ° F.

Name of person filling blank L. M. Piper from Carl Elder & D.P.H.
Date 8-16-50 Address Putnam Valley, N.Y.

LOG OF WELL

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—		
<p>Topsoil 30'</p> <p>Loam clay, sand & boulders</p> <p>Rock - uniform all the way down in hardness</p> <p>average speed 1 ft. per hr. or 6-8 ft. per day.</p>	0	2	2	<p>Topsoil</p> <p>Imped up</p> <p>main water between 186'-196' ft.</p>
<p>36 1/2' of loam, clay, sand & boulders</p> <p>First water encountered at 185 (DPA)</p> <p>at 186 ft. water disapp'd for a day during drilling</p>	2	36 1/2	34 1/2	<p>10. hour pump test - water level pumped -</p> <p>Reported "worky tests" at 180'</p>
<p>Fe 0.03</p> <p>CO₂ 15.0</p> <p>Fl < 0.05</p> <p>NO₂ 0.001</p> <p>NO₃ 1.4 x 4.43 = 6.2</p> <p>Cl 4.8</p> <p>Hardness 96.0</p> <p>Alkalinity 67.0</p> <p>pH 6.7</p>	36 1/2	219	182 1/2	<p>11-6-47</p> <p>Test pump for 10 hrs at 40 RPM</p> <p>Static level 30 ft.</p> <p>Pumping level 216 ft.</p> <p>with less than 180 ft. of drawdown</p> <p>Less Page = S.W.L. 30'</p> <p>from P.W.L. 196'</p> <p>Car Eder 40 RPM</p>