

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Contract 311
Boring 21

Delaware Aqueduct

RECORD OF WELL

P 614	
Loc. OK.	
Carnel 15' from	
15.7	4.3 S, 1.3 E

Locate well on plat of section.

1. Location: State New York County Dutchess
 Nearest P. O. Hent Direction from P. O. _____
 Distance from P. O. _____ miles; _____ 1/4 sec. _____, T. _____, R. _____
 If in city, give street and number Town of Kent

2. Owner: N.Y. Board of Co. Supply Address _____
 Driller: Freque and Hennessy Inc. Address _____

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

4. Elevation of top of well: 52 x .1 ft. above the level of sea
(Above or below) (Sea, depot, lake, or stream)

5. Type of well: drilled; kind of drilling rig used started 9/20/31
(Dug, driven, bored, or drilled) (Solid tool, jetting, rotary, etc.)

6. Depth of well: 280.9 ft.; year in which well was finished 10/2/31

Does well enter rock? yes; if so, at what depth? 43.3 ft.; kind of rock Gneiss

7. Diameter: At top 2 1/2 inches; at bottom _____ inches.

8. Principal water bed: _____
(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 _____; size 2 1/2; length 43.6 ft.; between depths of 0 and 43.6 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 _____; kind _____

Screen or Strainer: Was well finished with screen? _____; 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 _____ ft. above surface;
 original pressure or head _____; if not flowing, give water level in well _____ ft. below surface.

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

12. Yield: Natural flow at present (if any) _____ gallons per minute; original flow _____ gallons per minute;
 well has been pumped at _____ 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? Test hole

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

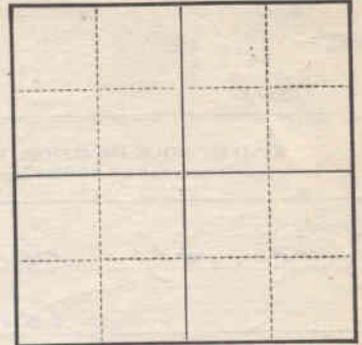
15. Cost of well, not including pump: _____ Temperature of water _____ ° F.
 Name of person filling blank Ed Lemieux & J. J. Hoeman

Date 10-26-50 (222) Address U.S. Geol. Surv 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.

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1. Location: State _____ County _____
Nearest P. O. _____ Direction from P. O. _____
Distance from P. O. _____ miles; _____ 1/4 sec. _____, T. _____, R. _____
If in city, give street and number _____

2. Owner: _____ Address _____
Driller: _____ Address _____

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

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

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

6. Depth of well: _____ ft.; year in which well was finished _____
Does well enter rock? _____; if so, at what depth? _____ ft.; kind of rock _____

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

8. Principal water bed: _____
(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 _____; size _____; length _____ ft.; between depths of _____ and _____ 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 _____; kind _____
Screen or Strainer: Was well finished with screen? _____; 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 _____ ft. above surface;
original pressure or head _____; if not flowing, give water level in well _____ ft. below surface.

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size or capacity of pump _____; kind of power _____

12. Yield: Natural flow at present (if any) _____ gallons per minute; original flow _____ gallons per minute;
well has been pumped at _____ 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? _____

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

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

Name of person filling blank _____

Date _____ Address _____

4137

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—		
Fine sand and a small amount of clay.	0	5.2	5.2	Boulder at 3.8'
Fine sand and a small clay with a few small stones. Compact.	5.2	25.8	20.6	
Hard pan formation, sand, small stones and a little clay.	25.8	42.3	17.5	Boulders at 26.2 & 29.1 dynamited.
Gneiss (greenish, gray, and black) with streaks of milky white quartz, hornblende, and biotite.	43.3	280.9	237.6	
	43.3	54.6		Decayed rock.
		54.6		Slit-sided fractures of serpentine
	72.2	72.5	00.3	Band of hematite
	73.2	75.3	02.1	Mud seam
	97.0	113.3		Gneiss with high % of quartz
		113.3		Hole grouted because of caving.
To prevent further caving hole dynamited and casing driven to 113.3' (2 1/2" casing)				
	179.1	179.8	00.7	soft biotite schist
	200.4	201.2	00.8	Band of quartz
	249.8	249.9		Dip 60° soft biotite schist
	249.9	255.0	5.1	High % of quartz

LOG OF WELL

KIND OF ROCK OR OTHER MATERIAL <small>(Give color and tell whether hard or soft)</small>	DEPTH, IN FEET		THICKNESS, IN FEET	REMARKS <small>(Especially information as to water found)</small>
	From—	To—		
General;	Hole drilled to 43.6' by chap rig.			
	Core the rest of the distance.			
195.2' core recovery	(82.10%)			
water loss;	103.7 to	126.0	Low o/p lost.	
	126.0 to	197.3	High o/p lost	
	197.3 to	280.9	All lost.	
Hole grouted with 6 bags cement.	All casing pulled & hole in core filled with sand.			