

ORIGINAL TO COMMISSION

Well No. 40221
(on preliminary report)

State of New York
Department of Conservation
Division of Water Power and Control
COMPLETION REPORT—LONG ISLAND WELL

LOG
Ground Surf., El. ft. above sea

A ft.
V ft.
Top of Well

Owner KANAWA COLLEGE, CANTON, N.Y.

Address 111 Country Road, E., Mendon

Location of well 111

Depth of well below surface 150 feet

Depth to ground water from surface 44 feet

CASINGS:

Diameter 6 in. in. in. in.

Length 111 ft. ft. ft.

Sealing Screw joint

Casings removed None

SCREENS: Make Johnson, Everdur Openings 1/8 slot

Diameter 4 in. in. in. in.

Length 40 ft. ft. ft. ft.

Depth to top from top of casing 110 ft.

PUMPING TEST: Date 11/20/60 Test or permanent pump? T

Duration of Test 4 days 4 hours

Maximum Discharge 120 gallons per minute

Static level prior to test 44 ft. in. below top of casing

Level during Max. Pumping 74 ft. in. below top of casing

Maximum Drawdown 30 ft.

Approx. time of return to normal level after cessation

of pumping hours minutes

PUMP INSTALLED: At later date

Type DWT Make Tebaster Model No. 605

Motive power E.C.S. Make 11.5 H.P. 7 1/2

Capacity 120 g.p.m. against } 70 ft. of discharge head

No. bowls or stages 12 } 136 ft. of total head

DROP LINE:

Diameter 3 in. 3

Length 60 ft. 10

Use of water G221112

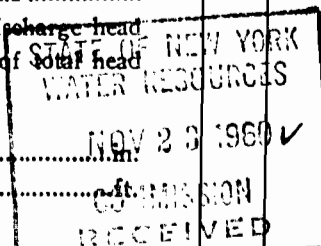
Work started 11/11/60 Completed 11/20/60

Date 11/22/60 Driller C. W. Lauman & Co., Inc.

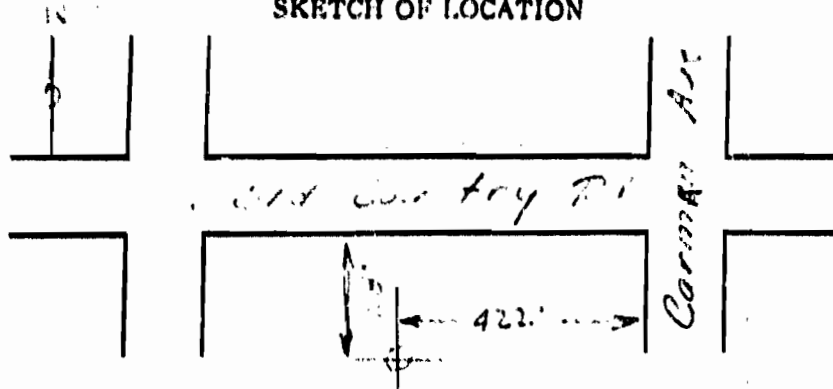
License No. 13

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.



SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

- 0-10 Pit
- 10-43 Silty Grvl
- 43-56 Fi-cse sd
- 56-75 Fi sd, str sd, cl
- 75-100 Fi clayey sd
- 120-123 Fi-med cse clayey sd
- 123-160 Fi sd, some cl
- 160-165 Grayish brn fi clayey sd
- 165-175 Reddish fi clayey sd, bdpr, lyr cl.

OFFICIAL RECORD

To Remain in the Custody of the Water Resources Commission W-1964

STATE OF NEW YORK CONSERVATION DEPARTMENT DIVISION OF WATER RESOURCES

COMMISSIONERS

HAROLD E. WILM
JOHN C. THOMPSON
J. BUNCH H. MORRAN
LOUIS J. LEIKOWITZ
HERMAN E. HILFORD, M.D.
LION J. WICKHAM



JOHN C. THOMPSON
EXECUTIVE ENGINEER
AND SECRETARY

WATER RESOURCES COMMISSION
373 MAPLE AVENUE, WESTBURY, NEW YORK

LONG ISLAND WELL APPLICATION NO. W-1964 DECISION

In the Matter of the Application

- of the -

COUNTY OF NASSAU

for approval of the installation
of one well at the Nassau County
Children's Court Building,
East Meadow, Town of Hempstead,
Nassau County, New York.

Nassau County Children's
Court Building

Approved

August 23, 1960

Petition verified by Charles V. Smith, Commissioner of Public Works for the County of Nassau, on July 6, 1960, filed on July 8, 1960. Notice of hearing published in the Long Island Daily Press of Jamaica. Hearing before Walter G. Waterman, Senior Engineer of the Commission, in the office of the Commission in Westbury, on July 27, 1960, at 10 A. M. Applicant represented by Henry L. Frauenthal, Assistant Hydraulic Engineer in the Nassau County Department of Public Works. No objections were filed and no one appeared at the hearing in opposition to approval of the project.

The County of Nassau is constructing a Children's Court on the south side of Old Country Road, west of Carman Avenue, in East Meadow, New York.

Well water is desired for cooling air-conditioning machinery in the building. Water for drinking and sanitary purposes will be secured from the public supply of Bowling Green Water District.

The supply well is to be sunk 118 feet south of Old Country Road and 422 feet west of Carman Avenue, with 6-inch diameter casing and screen, to a depth of about 100 feet, and equipped with an electrically operated deep well turbine pump of 120 gallons a minute capacity.

The use of water will be during the summer season of about 100 days and will not exceed 57,000 gallons a day. The annual use will not exceed 5.7 million gallons.

Water is to pass from the well through the cooling system without contamination and with no outlets or connections which would permit use of the water for other purposes, to a diffusion well to be located approximately 125 feet southwest of the supply well.

This diffusion well is to be constructed in accordance with the standards for such structures adopted by the well drillers, and details will be submitted for approval after the supply well has been put down. It will be used for no other purpose.

It appears that to approve the above application will prevent added draft on the water supply resources of the Bowling Green Water District and will have no perceptible effect on the ground water levels of Long Island.

The Commission finds it to be necessary to protect the interests of the applicant and of the people of the State to impose the following conditions:


1. By authority of this decision and approval applicant is authorized to use water pumped from this well or wells for airconditioning or cooling in the above described building but for no other purpose whatsoever. This water may be used only in a completely closed system and all the water must be returned through the proposed diffusion well or wells or some other equivalent satisfactory structure to the same aquifer from which it was pumped.
2. No overflows or connections to sewers or cross-connections to any other source of water supply may be installed or maintained.
3. Detailed plans showing each part of this project must have been submitted to and approved by this Commission before work is started on such part. Plans of a diffuser will be considered only after the stratification has been revealed by the sinking of the well. The entire project must be fully completed in accordance with approved plans.
4. Applicant must install suitable connections to enable the discharge of the pump to be measured. Such fittings and the locations thereof will be specified by the Commission.
5. No chemical or polluting substance may be discharged in this water or into the diffusion well and the material used in this piping of the cooling system shall be of a nature reasonably resistant to corrosion which would pollute the water and tend to clog the diffusion well.
6. This entire plant and the apparatus connected therewith must at all reasonable hours be open to inspection and test by duly accredited agents of this Commission and of the local water authorities.
7. This decision and approval shall not be held to grant exemption from general restrictions of the use of water for this particular purpose which may at any time be imposed by competent authority.
8. The Commission reserves the right to reconsider this approval at any time and, after due notice and hearing, at that time to continue, rescind or modify this decision in such manner as may be found to be just and equitable.
9. Unless these works shall have been completely constructed prior to **September 1, 1963**, or within such extended time as may have been applied for and granted by the Commission, this approval shall be deemed to have lapsed.

In view of the above, the Water Resources Commission determines and decides that approval of this application will protect the public health and public welfare in conserving the supply of water of Long Island for domestic consumption.

WHEREFORE, the Water Resources Commission does hereby approve the said application, maps and plans as thus modified.

IN WITNESS WHEREOF, the Water Resources Commission has caused this determination and approval to be signed and has caused its official seal to be affixed hereto and has filed the same with all maps, plans, reports and other papers relating thereto in its office in the city of Albany this 23rd day of August . 1960 .

WATER RESOURCES COMMISSION


[Signature]

Conservation Commissioner, Chairman

[Signature]
Deputy Chief Engineer, Dept. of Public Works, Alternate

[Signature]
Assistant Attorney General, Alternate

[Signature]
Counsel to the Department of Agriculture and Markets, Alternate

[Signature]
Assistant Commissioner, Division of Environmental Health Services, Dept. of Health, Alternate

Att-1

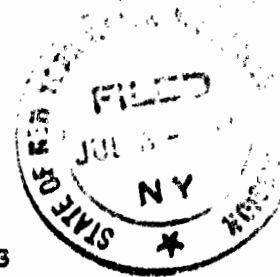
[Signature]
Secretary to the Commission

8/27/60
affirmed
Albany office
James W. [unclear]

CHARLES V. SMITH
COMMISSIONER OF PUBLIC WORKS



DEPARTMENT OF PUBLIC WORKS
OLD COUNTY COURT HOUSE
MINEOLA, N. Y.



July 7, 1960

Water Resources Commission
373 Maple Avenue
Westbury, New York

Attention: Arthur H. Johnson, Associate Engineer

Re: Supply and diffusion wells at the Children's Court

Gentlemen:

Enclosed are two copies of an application of the County of Nassau for approval of the installation of a supply well and a diffusion well for the air conditioning system at the new Nassau County Children's Court.

The supply and diffusion wells have been indicated on the accompanying map entitled, "Department of Public Works, Nassau County, N.Y., Division of Sanitation and Water Supply, Proposed Water Supply & Diffusion Wells For Children Court, East Meadow, N.Y." dated July 5, 1960.

Very truly yours,

Charles V. Smith
Commissioner of Public Works

Henry L. Frauenthal
Henry L. Frauenthal
Assistant Hydraulic Engineer

HLF:FEB:mc
Encls.

STATE OF NEW YORK
Department of Conservation
Water Resources Commission



In the Matter of
the application of the County of
Nassau for approval of the instal-
lation of one well at the Nassau
County Children's Court Building,
East Meadow, Town of Hempstead,
Nassau County, New York

P E T I T I O N

PETITION

To the Water Resources Commission of the State of New York.

The petition of the County of Nassau, through its
Commissioner of Public Works, respectfully shows:

FIRST: That the County of Nassau is a municipal
corporation of the State of New York.

SECOND: That Charles V. Smith, who signs and verifies
this Petition, is the duly appointed Commissioner of Public Works
of the County of Nassau who has charge and supervision of the
Department of Public Works.

THIRD: This is an application for the approval of the
installation of one (1) well on the property of the County of
Nassau at the Nassau County Children's Court, East Meadow,
bounded on the north by Old Country Road and on the east by
Carman Avenue in the Town of Hempstead, Nassau County, New York,
as shown on the accompanying map entitled: "Department of Public
Works, Nassau County, N.Y., Division of Sanitation and Water
Supply; Proposed water Supply and Diffusion Wells for Children's
Court, East Meadow, New York" dated July 5, 1960.

FOURTH: Applicant proposes to construct one (1) supply
well unit and diffusion unit on the property as shown on the ac-
companying map. The supply well is to be constructed as a double

cased well with gravel filter surrounding the well screen, either by artificially introducing gravel or by development of the natural formation. The supply well is to have a capacity of not less than 120 gallons per minute, with permanent well screen not less than six (6) inches in diameter. It is estimated that suitable water-bearing strata exists approximately 100 feet below the ground surface at the proposed well location, and the development of this well will be made in the Magothy formation. It is proposed to install an electrically operated deep well turbine pumping unit with a capacity not less than 120 gallons per minute. The diffusion well will be approximately 125 feet southwest of the supply well.

FIFTH: The water from this supply well unit will be utilized for air-conditioning, and will be a closed system entirely separate from any other water system. There will be no cross connections to any water supply used for drinking or washing purposes. It is estimated that during the period of operation, about 100 days, the pumpage will not exceed 57,000 gallons per day, nor annually more than 5.7 million gallons. All water will be returned to the ground by means of a diffusion well, so that there will be no net draft on the water table from the proposed supply well. All water pumped from the supply well will be returned to the ground with no change in its chemical or sanitary characteristics.

SIXTH: The County of Nassau and the United States Geological Survey have maintained an observation well in Hicksville approximately 3 miles easterly from the proposed supply well in the Magothy formation. This well, N-1461, is located on New South Road near the Long Island Railroad, Hicksville. Since 1943, there has been no permanent lowering of the water table in the vicinity as shown on the accompanying hydrograph of well N-1461. The nearest public supply wells are those of the Westbury Water District (N-5655 and N-6819)

approximately 2,000 feet from the proposed well. These wells are in the Magogby formation.


Seventh: Applicant believes that this project can be carried out without injury to other interests, that the proposed works will be safe and suitable, and that the quality of the water from the proposed well will be suitable for the purposes for which it is to be used.

WHEREFORE, your Petitioner prays that the Water Resources Commission approve the application and plans herewith submitted and presented.

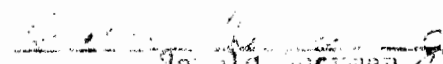
Dated at Mineola, Nassau County,

New York, _____, 1960.

Nassau County Department of Public Works


Charles V. Smith
Commissioner of Public Works

Attest:-


Harold Sherman
Deputy Commissioner of Public Works

STATE OF NEW YORK)
COUNTY OF NASSAU } s.s.

CHARLES V. SMITH being duly sworn, deposes and says:

That he is the duly appointed Commissioner of Public Works of the County of Nassau, the Petitioner above named; that he has read the foregoing petition and knows the contents thereof; that the same is true of his own knowledge except as to the matters therein stated to be alleged on information and belief, and as to those matters he believes it to be true.

Charles V. Smith

Sworn to before me this

10 day of April 1960.

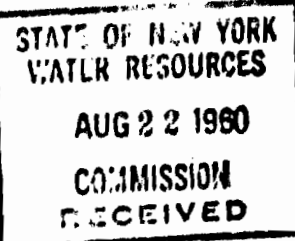
Wm. J. McSmith
Notary Public, Nassau County
3/20/60

CHARLES V. SMITH
COMMISSIONER OF PUBLIC WORKS



DEPARTMENT OF PUBLIC WORKS
OLD COUNTY COURT HOUSE
MINEOLA, N. Y.

1104-1964



August 18, 1960

Mr. Arthur H. Johnson
Associate Engineer
Water Resources Commission
373 Maple Avenue
Westbury, New York

Dear Mr. Johnson:

We are enclosing herewith the receipted bill from the Long Island Daily Press in the amount of \$12.48 which has been forwarded to us in connection with the recent Nassau County Well Application Number W1964.

Very truly yours,

Charles V. Smith
Commissioner of Public Works

Henry L. Frauenthal
Henry L. Frauenthal
Assistant Hydraulic Engineer

CVS/HLF/pd
Enc.

August 27, 1960

Long Island Well Application No. W-1904
County of Nassau
(Nassau County Children's Court Building)

Mr. Henry L. Braventhal
Assistant Hydraulic Engineer
Nassau County Department of Public Works
Old County Court House
Mineola, New York

Dear Sir:

We send you herewith a certified copy of the decision of the Water Resources Commission in the above entitled matter. This application was approved by the Water Resources Commission on August 23, 1960.

Permit to Operate finished wells must be obtained before wells legally may be used.

Very truly yours,

WATER RESOURCES COMMISSION

By

ARTHUR H. JOHNSON
Associate Engineer

AHS:JC
Enclosure

December 13, 1960

Long Island Bell Application No. W-1964
County of Nassau
(Nassau County Children's Court Building

C. W. Lauman & Co. Inc.
Lauman Lane
Ratonsburg, New York

entitlement:

Enclosed please find duplicate of plans (a) for
disposal (a) to be installed for County of Nassau,
at Nassau County Children's Court Building, East Meadow.

This design has been approved for the return to
ground of water pumped from supply well (a) Nos. (a) N-6991

Very truly yours,

ANTHONY W. J. LAUMAN

ANTHONY W. J. LAUMAN
Associate Engineer

W. J. kb
not.

May 31, 1961

Long Island Well Application No. W-1964
County of Nassau
(Nassau County Children's Court Building)

C. W. Leuman & Co., Inc.
Leuman Lane
Bethpage, New York

Sir:

Your Completion Report on diffusion well No. N-7024D, installed for the County of Nassau located in the Children's Court Building in East Meadow, has been reviewed.

We would like to bring to your attention that the well as installed does not conform with the design submitted by you and approved by this Commission on December 9, 1960. Therefore, should this well fail to operate satisfactorily, the applicant will be required to install an additional diffusion well in order to fulfill the requirements of the decision.

Very truly yours,

WATER RESOURCES COMMISSION

By

ARTHUR H. JOHNSON
Associate Engineer

RJL:mb

cc: County of Nassau

C.W. LAUMAN & CO. INC.

Water supply contractors

GUARANTEED WATER WELLS • PUMPING EQUIPMENT • WATER TREATMENT
100 CHURCH STREET NEW YORK 7, N.Y.

BETHPAGE, LONG ISLAND, N.Y.

ADDRESS REPLY TO

STATE OF NEW YORK
WATER RESOURCES

JUL 6 1961

COMMISSION

Bethpage, N.Y.
July 5th, 1961

Water Resources Commission
373 Maple Avenue
Westbury, L.I. N.Y.

Gentlemen:

Re: Diffuser Well N 7024 D- W-1964
Nassau Childrens Court Bldg.
Old Country Rd. E. Meadow

With regard to the above installation, please be
advised that the well was gravel packed to a diameter of
30". This will clarify the apparent deviation in the
originally submitted and approved design.

Very truly yours,

C.W. LAUMAN & CO., INC.

A. Kreitman
A. Kreitman

/hs

October 31, 1961

Long Island Well Application No. W-1964
County of Nassau
(Nassau County Children's Court Building)

C. W. Lauman & Co., Inc.
100 Lauman Lane
Bathpage, New York

Gentlemen:

Enclosed please find duplicate of revised plan for diffusion well No. N-7024D installed for the County of Nassau at the Nassau County Children's Court Building in East Meadow.

The revised plan, as presented, shows that the construction of the diffusion well has been modified wherein the screen diameter was increased from 6 to 8 inches; the screen slot size has been increased from 3/16 to 1/4 inch and the length of the screen has been reduced from 30 to 25 feet. In addition, the diameter of the gravel packing around the screen has been increased from 24 to 30 inches.

This revised plan has been approved for the return to the ground of water pumped from the supply well.

Very truly yours,

WATER RESOURCES COMMISSION

By

JAS:kb
Encl.
cc: County of Nassau

ARTHUR H. JOHNSON
Associate Engineer

July 9, 1962

Long Island Well Application No. W-1964
County of Nassau
(Children's Court Building)

County of Nassau
Children's Court Building
Old Country Road
East Meadow, New York

Gentlemen:

We are sending you herewith formal approval of wells and a permit to operate the same, issued by the Water Resources Commission on July 6, 1962.

Please note that this Operating Permit must be posted on the premises near the supply well.

Very truly yours,

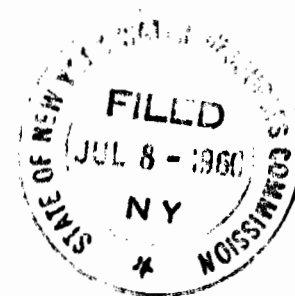
WATER RESOURCES COMMISSION

By

ARTHUR H. JOHNSON
Associate Engineer

AHJ:omb
Enclosure

110 W-1964



STATE OF NEW YORK DEPARTMENT OF CONSERVATION
WATER RESOURCES COMMISSION

PUBLIC NOTICE

A public hearing will be held in the office of the Commission,
373 Maple Avenue, Westbury,

on July 27, 1960, at 10 A. M. on the application of the
COUNTY OF NASSAU,
made under Section 476 of the Conservation Law, for approval of a
well project at the Nassau County Children's Court Building,
East Meadow, Town of Hempstead.

Papers filed may be consulted at Office of Commission,
373 Maple Avenue, Westbury, New York.

Objectors may be heard only on written objections,
specifying the grounds thereof, filed in the above office
not later than July 26, 1960.

Westbury, New York

July 8, 1960.

John C. Thompson
Executive Engineer.

Copy of notice of hearing sent to:

Nassau County Dept. of Health
A. M. Barr, Dist. Engr.
Bowling Green Estates Water District
Westbury Water District

July 8, 1960

Long Island Well Application No. L-1964
County of Nassau

Mr. Henry L. Frauenthal
Assistant Hydraulic Engineer
Nassau County Dept. of Public Works
Old County Court House
Mineola, New York

Dear Sir:

In connection with the above project it will be necessary for you to publish the enclosed legal notice of the hearing in the July 19th issue of the LONG ISLAND DAILY PRESS of Jamaica - Nassau Edition.

You are directed to notify this office by July 19th that you are making arrangements to:

1. Have present at the hearing either the applicant, an officer of the concern or a representative with power of attorney.
2. Present to the Commission's representative at the hearing an affidavit of publication from the newspaper.
3. Present to the Commission's representative at the hearing a receipted bill from the newspaper covering the cost of publication.

Very truly yours,

WATER RESOURCES COMMISSION

By

ARTHUR H. JOHNSON
Associate Engineer

AHJ:EB
Encl. (1)

Long Island Daily Press

Published Daily and Sunday
Press Building, Jamaica 33, N. Y.
OLympia 8-1234

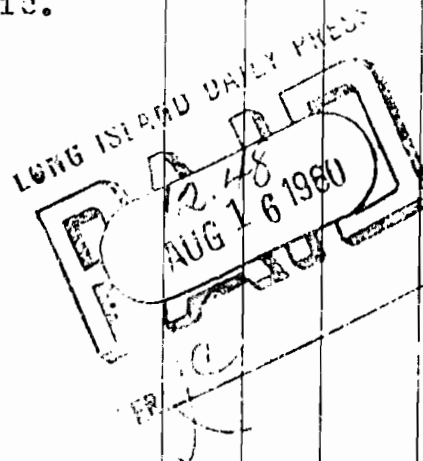
MEMO
BILL

100-1964

Dept. of Public Works
Old County Court House
Mineola N.Y.
ATT: Henry L. Frauenthal
Ass't. Hydraulic Engineer



DATE	RATE	DESCRIPTION	TIMES RUN		LINES		CHARGES
			D	S	D	S	
Jul 19/60	.48	Public Notice (L.I. Well Applic. W-1964)	1		26		12.48



NQ-508

Affidavit of Publication
Furnished upon payment
of this invoice

LONG ISLAND DAILY PRESS

STATE OF NEW YORK
DEPARTMENT OF CONSERVATION
WATER RESOURCES COMMISSION

PUBLIC NOTICE

A public hearing will be held in the office of the Commission, 275 Madison Avenue, Westbury, New York, July 27, 1960, at 10 A. M. on the application of the COUNTY OF ... made under Section 174 of the Conservation Law, for approval of a ... project at the ... County ... East Meadow, Town of ...

Papers filed may be ... office of Commission, 275 Madison Avenue, Westbury, New York ...

Objections may be heard on written applications, specifying the grounds thereof, filed in the above office not later than July 26, 1960.

Westbury, New York.
July 4, 1960.

JOHN C. THOMPSON,
Executive Engineer.

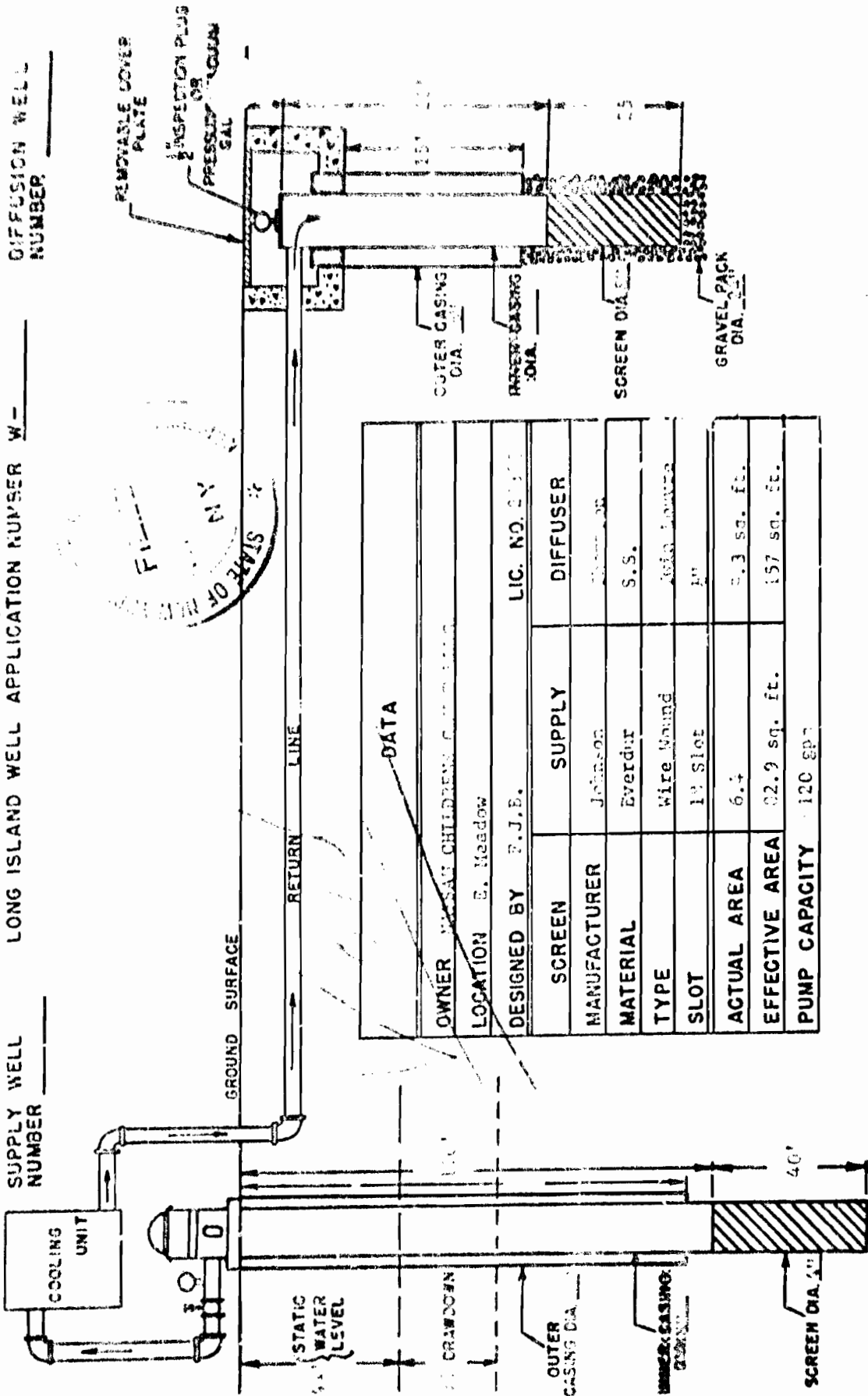
2020S-10213, 1960-11.

STATE OF NEW YORK WATER RESOURCES COMMISSION

SUPPLY WELL NUMBER _____

LONG ISLAND WELL APPLICATION NUMBER W- _____

DIFFUSION WELL NUMBER _____



DATA			
OWNER	MRS. J. CHILDRESS		
LOCATION	E. Meadow		
DESIGNED BY	E. J. E.		
SCREEN	SUPPLY	DIFFUSER	
MANUFACTURER	Johnson	S.S.	
MATERIAL	Everdur	Wire Wound	
TYPE	Wire Wound	12 Slot	
SLOT	12 Slot	6.3 sq. ft.	
ACTUAL AREA	6.4	157 sq. ft.	
EFFECTIVE AREA	62.9 sq. ft.	120 gpm	
PUMP CAPACITY	120 gpm		

HORIZONTAL SPACING 150'

DATE 11/22/60

(OVER)

Apr 20, 1960
O.R.

County of Nassau
Ranch Co Childrens Cent Bldg.
Supply Well

N.C. 150 ft 120 gpm

Screen 4 x 40 Johnson #17 slot (23.6 sq in/ft)

Area of opening = $40 \times 23.6 = \frac{9440}{144} = 65.6 \text{ sq ft}$

Eff Area = $\frac{\pi}{12} \times 3.14 \times 40 = 83.7 \text{ sq ft}$

Diffusion well 45 ft

Screen 5" x 25 Thompson Twin L. (18% of area opened.)

Area of opening = $\frac{\pi}{12} \times 3.14 \times 25 \times 1.18 = 9.4 \text{ sq ft}$

Eff Area: $\frac{\pi}{12} \times 3.14 \times 25 = 15.7$

Requirements

1. Area of opening of diff. well must be 25% of supply.
 $\frac{9.4}{65.6} \times 100 = 14.3\%$ ok
2. Eff area of diff. well must be 2x that of supply.
 $\frac{15.7}{83.7} = 1.87 \text{ N.G.}$
3. Water must be returned to same aquifer pumped. ok
4. Depth to water must be 7 ft drawdown.
Depth to water = 44 ft } ok
Drawdown @ 120 gpm = 30 ft.

11/2/60 Informal C.W.C. via Telephone discussion will
soon not meet requirement #2. To select new
design. O.R.

STATE OF NEW YORK WATER RESOURCES COMMISSION

SUPPLY WELL
NUMBER N-2234

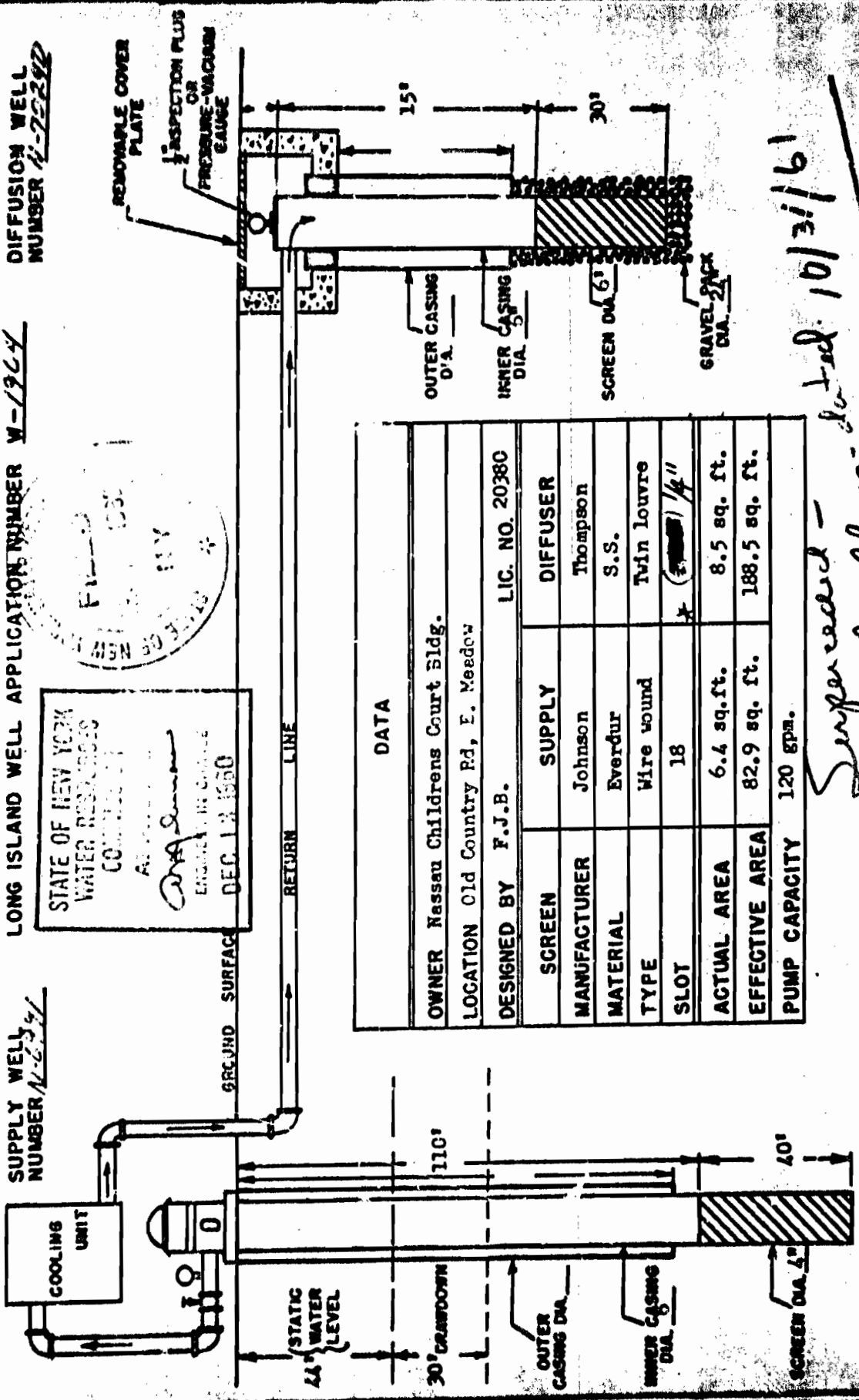
LONG ISLAND WELL APPLICATION NUMBER W-1964

DIFFUSION WELL
NUMBER W-2234

STATE OF NEW YORK
WATER RESOURCES
COMMISSION

[Signature]
ENGINEER IN CHARGE

DEC 18 1960



DATA			
OWNER Nassau Childrens Court Bldg.			
LOCATION Old Country Rd, E. Meadow			
DESIGNED BY F.J.B.		LIC. NO. 20380	
SCREEN	SUPPLY	DIFFUSER	
MANUFACTURER	Johnson	Thompson	
MATERIAL	Everdur	S.S.	
TYPE	Wire wound	Twin Louvre	
SLOT	18	* (1/4")	
ACTUAL AREA	6.4 sq. ft.	8.5 sq. ft.	
EFFECTIVE AREA	82.9 sq. ft.	188.5 sq. ft.	
PUMP CAPACITY	120 gpm.		

Superceded - dated 10/31/61
By Plans

340

County of Fresno
 Fresno City Public Water Supply
 Supply Well

N. 69° 150 ft 120 gpm

Screen 4" x 40' Johnson #13 slot (23.6 sq in/ft)

Area of opening = $40 \times 23.6 = \frac{944}{144} = 6.5 \text{ sq ft}$

Eff Area = $\frac{\pi}{12} \times 3.14 \times 40 = 83.7 \text{ sq ft}$

Diffusion well 45 ft

Screen: 6" x 30' Thompson Screen S. 4" opening (18% of area open)

Area of opening = $\frac{\pi}{12} \times 3.14 \times 30 \times 13.35 =$
 $\frac{\pi}{12} \times 3.14 \times 30 \times 18 = 9.5 \text{ sq ft}$

Eff Area = $\frac{\pi}{12} \times 3.14 \times 30 = 188.4 \text{ sq ft}$

Requirements

1. Area of opening of diff must be 25% of supply.
 $\frac{8.5}{6.5} \times 100 = 130\%$
2. Eff Area of diff must be 2 x that of supply.
 $\frac{188.4}{83.7} = 2.25$
3. Water must be returned to same gauge pump.
4. Depth to water must be 7' drawdown.
 Depth to water = 44 ft } ok.
 Drawdown @ 120 gpm 30 ft.

STATE OF NEW YORK WATER RESOURCES COMMISSION

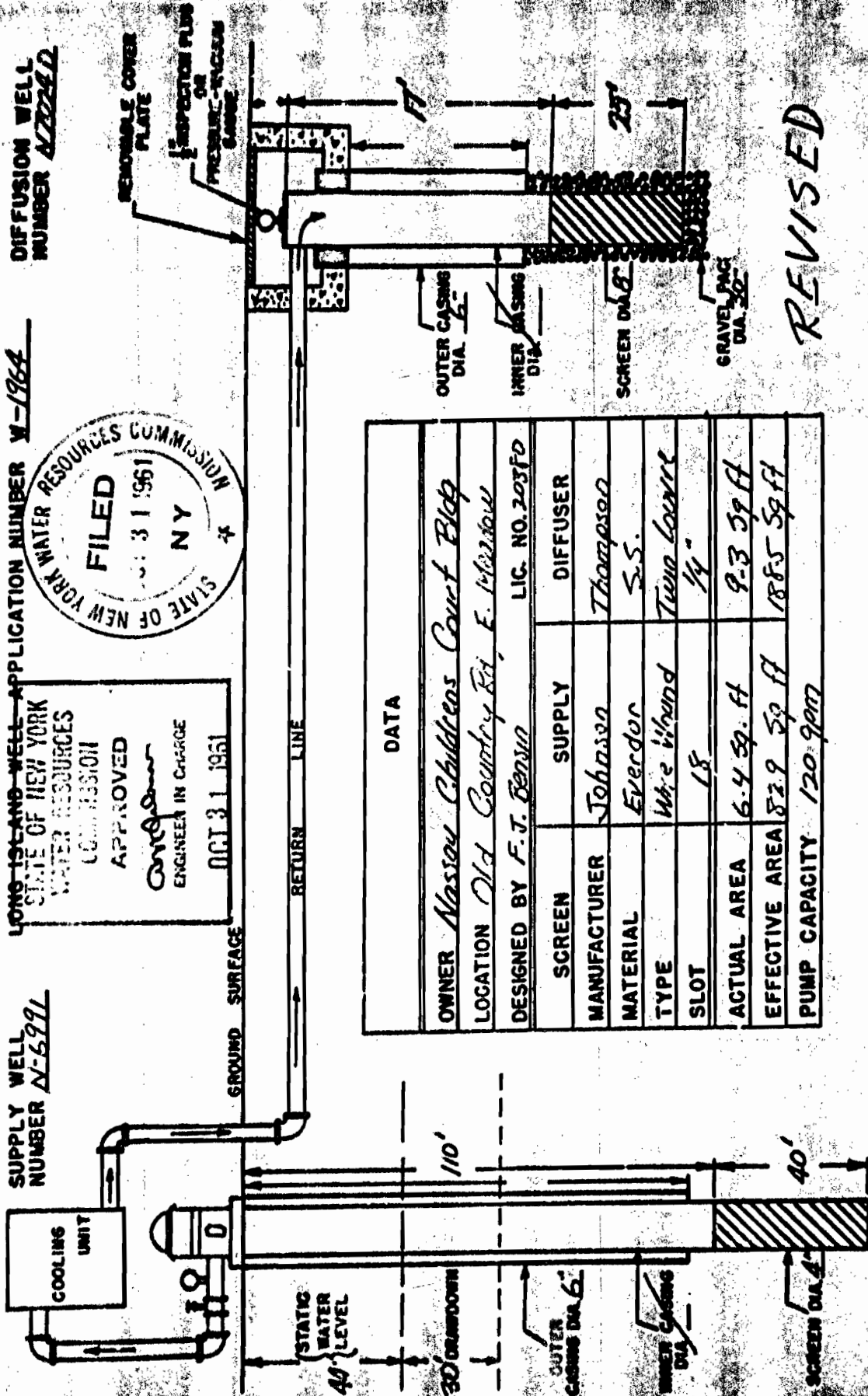
SUPPLY WELL
NUMBER N-5991

LONG ISLAND WELL APPLICATION NUMBER W-1964

DIFFUSION WELL
NUMBER A-2242



STATE OF NEW YORK
WATER RESOURCES
COMMISSION
APPROVED
[Signature]
ENGINEER IN CHARGE
OCT 31 1961



DATA			
OWNER Nassau Childrens Court Bldg			
LOCATION Old Country Rd, E. Massena			
DESIGNED BY F. J. Benson LIC. NO. 20350			
SCREEN	SUPPLY	DIFFUSER	
MANUFACTURER	Johnson	Thompson	
MATERIAL	Everdur	S.S.	
TYPE	Wire Wound	Turn Loose	
SLOT	18	1/4"	
ACTUAL AREA	6.4 sq. ft	9.3 sq ft	
EFFECTIVE AREA	82.9 sq ft	188.5 sq ft	
PUMP CAPACITY	120 gpm		

REVISED

HORIZONTAL SPACING

DATE 10-31-61

10/16/61
OR

County of Nassau

Nassau Cty Children Court Bldg.

Supply Well

N. 6991 150 ft 120 gpm

Screen 4" x 40' Johnson #18 slot (23.6 sq ft)

Area of opening = $40 \times 23.6 = \frac{944}{164} = 6.5$ sq ft

Eff Area: $\frac{3}{12} \times \pi \times 3.14 = 83.7$ sq ft

Diff well 42 ft

Screen 8" x 25' Thompson 1/2" opening (1870 sq ft open)

$\frac{\pi}{12} \times 3.14 \times 28 \times .18 = 9.9$ sq ft

Flow = $\frac{30}{74} \times 3.14 \times 25 = 195.75$

Requirements

1 Area of opening of diff must be 25% of supply

$$\begin{array}{r} 9.4 \\ - 6.5 \\ \hline 2.9 \end{array} \quad \frac{2.9}{6.5} \times 100 = 44.6\%$$

2 Eff area of diff. well must be 2x that of supply

$$\frac{195.8}{83.7} = 2.3 \text{ ok}$$

3 Water must be returned to same aquifer ok

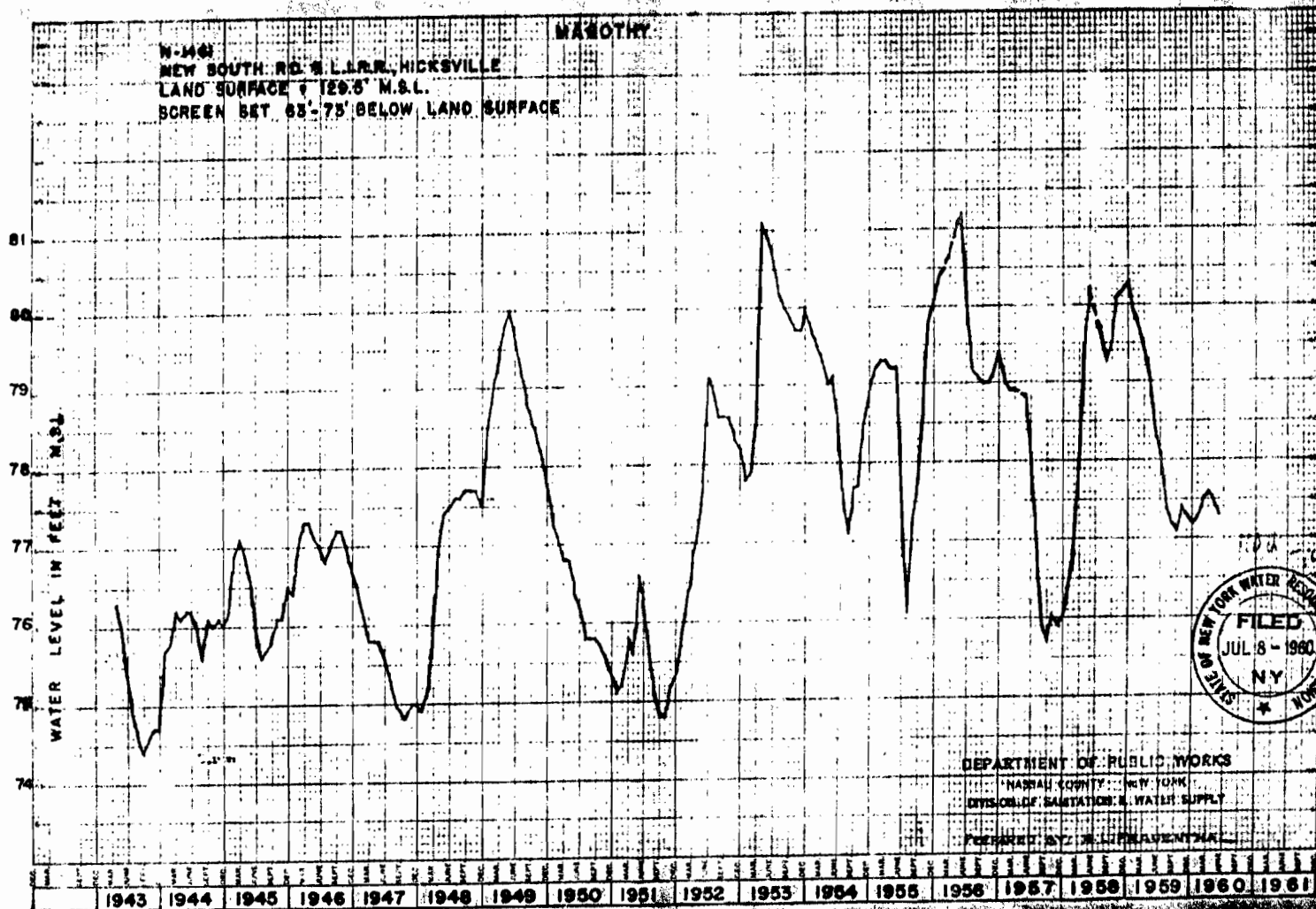
4 Depth to water must be 7 ft down

Depth to water water = 44 ft

Drawdown @ 120 gpm = 3.5 ft } ok

W-461
 NEW SOUTH RD. N. L.A.R.M. HICKSVILLE
 LAND SURFACE 129.5' M.S.L.
 SCREEN SET 65'-75' BELOW LAND SURFACE

WATNOTHY



DEPARTMENT OF PUBLIC WORKS
 NASSAU COUNTY, NEW YORK
 DIVISION OF SANITATION & WATER SUPPLY
 PREPARED BY J. J. LAURENTI

Application No. W-1964

STATE OF NEW YORK

Well No. N-6991
Diff. Well No. N-7024D



DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

APPROVAL OF WELL SYSTEM AND PERMIT TO OPERATE

Owner: County of Nassau (Children's Court Building)

Address: East Meadow, New York

Location: South side of Old Country Road, west of Carman Avenue,
Nassau County

Depth 111 ft. Diameter casings 6 in. Diameter screen 4 in.

Pump Johnston DWT or 120 gallons per minute capacity

Water to be used for cooling air-conditioning equipment.

Special conditions: No taps, overflows, or cross-connections may be
installed or maintained. All water must be
returned to the same aquifer pumped.

Driller: C. W. Lauman & Co., Inc., Bethpage, New York

All construction has been completed
in accordance with the provisions of
Decision (6) of August 23, 1960
and the system may be operated subject
to the terms thereof.

Albany, New York

Date July 6, 1962

WATER RESOURCES COMMISSION

(L.S.) By J. C. THOMPSON

Secretary



Post this notice near well

County Nassau

Appl. No. W-1964

Well No. N-6991

WATER RESOURCES COMMISSION

Report on Completed Long Island Well

Owner County of Nassau (Children's Court Building)

Address East Merlow, New York

Location South side of Old Country Road, west of
Carman Avenue, Nassau County

Driller C. W. Leuman & Co., Inc. Date Completed 11/20/60

Casings 111 ft. of 6 in.; ft. of in.; ft. of in.

Screen 40 ft. of 4 in. Johnston Everdur slot Total depth 150 ft.
(below grade)

Pump Johnston DWT Motor U. S. 7-1/2 H.P.

Capacity 120 g.p.m. (Nominal - by test)

Use of water cooling air-conditioning equipment.


Other wells on premises Well No. N-7024D (See attached sheet.)

Well Driller's preliminary report made 9/2/60 final report 11/23/60

Remarks Inspected by Engineer Waterman - All work has been completed
as authorized.

Recommendations Approve with diffusion well and issue Operating
Permit.

Date Inspected 6/20/62 Date Report 6/25/62


Associate Engineer

County Nassau

Appl. No. W-1964

Well No. N-7024D

WATER RESOURCES COMMISSION

Report on Completed Long Island Well

Owner County of Nassau (Children's Court Building)

Address East Meadow, New York

Location South side of Old County Road, west of
Carman Avenue, Nassau County

Driller C. W. Lauman & Co., Inc. Date Completed 12/26/60

Casings 17 ft. of 6 in.; ft. of in.; ft. of in.

Screen 25 ft. of 8 in. ^{Thompson 33} 1/4" Total depth 42 ft.
(below grade)

Pump --- Motor ---

Capacity --- g.p.m. (Nominal - by test)

Use of water ---

Other wells on premises Well No. N-6991 (See attached sheet.)

Well Driller's preliminary report made 12/13/60 final report 12/26/60

Remarks Inspected by Engineer Waterman - All work has been completed
as authorized.

Recommendations Approve with supply well and issue Operating Permit.

Date Inspected 6/20/62 Date Report 6/25/62



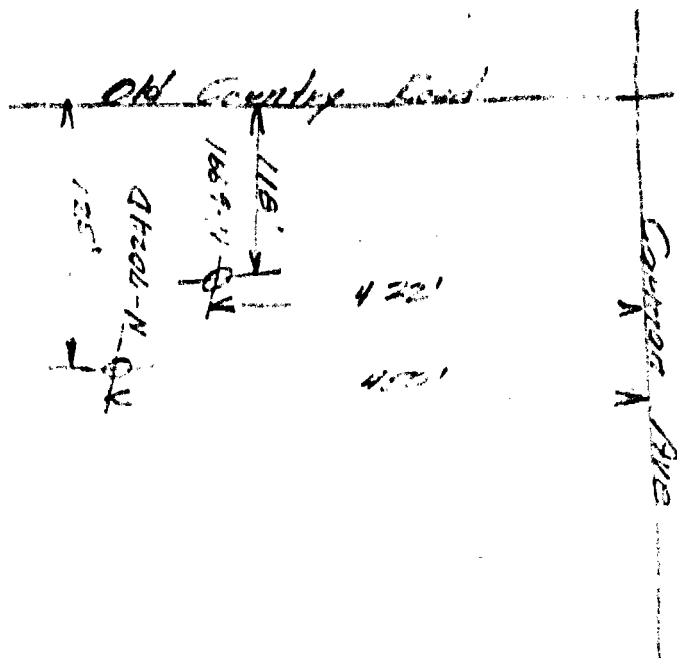
Associate Engineer

State of New York Department of Conservation
WATER RESOURCES COMMISSION
Inspection of Diffusion Installations

Name Nassau County Childress Ford Bldg Supply Well No. N 6991
Address 404 County Road W. of Orman Ave Diff. Well No. N-7024-D
East Meadow Appl. No. N-19644

Date of Inspection	6/20/62				
Inspector	W. W.				
Person contacted	Smith, Bldg M.R.				
Debris at wells	No				
Test nipple	Yes				
Permit posted	Not posted				
Operating pressure	No				
Supply temperature	56°				
Diffusion temperature	80°				
Cross connections	None observed				
HP & pump capacity	7 1/2 HP 150 gpm				
Meters installed	Not required				
Diffuser accessible	Yes				
1/4" inspection plug	Yes				
Back pressure	Just above 0				
Diffuser cleaned	Not				
Use of water	for irrigation				
Period of operation	Summer				
Annual pumpage	57 mg				
S.W.L.					

Remarks: Ed. G. 6/20/62
Issue OK



State of New York
Department of Conservation
WATER CONTROL COMMISSION
RESOURCES
MINUTES OF HEARING
Long Island Well Application No. W-1964
COUNTY OF NASSAU

Place Office of the Commission, Westbury,

Date July 27, 1960

Time 10 AM

Applicant represented by: Harry F. Pincus, Esq. Nassau County

Objectors: NONE

Appearances: NONE

Proof of publication in: Nassau Daily Press Nassau

Location of property: 45 E. 1st Avenue, Nassau

Box 107, East Meadow, L.I.

Owner of property: Nassau County

Building used as: Stables

Well water to be used for: Air conditioning

Amount of water requested:

Summer: No. of days 100 gals./day 5,000 mil.gals./yr. 5.7

Winter: gals./day mil.gals./yr.

Total 5.7

Will there be any cross-connections: No

Will well water be used in a completely closed system: Yes

Securing and disposing of water:

Supply well:

Location: 110' S of CH County Rd. 42.2 W of Garden Ave.

Casing dia. 6 Screen dia. 6 Depth 100 Formation M

Pump type Electric Gal/min. 120

Diffusion well:

Distance and direction from supply well 125' SW Formation M

Other proposed method of disposition: NONE

Water for drinking and sanitary purposes will be secured from:

Public Water Supply

Remarks: One well N-1161 (1 mile E) shows no

appreciable change in water level since 1943