

| Point No. | Point Description |
|-----------|---|
| N-250030 | Firehouse, Hicksville Rd. |
| N-250030 | Firehouse, Front St., M.Pk. |
| N-250040 | Birch Lane School Birch Ln., M.Pk. |
| N-250050 | N.E. Well Field Maryland Ave. |
| N-250060 | Carvel Hicksville Rd. and Hamilton Ave. |
| N-250070 | MWD Garage, Brooklyn Avenue |
| N-250090 | Beach Club, Rivera Drive E. |
| N-250100 | Beach Club Rivera Drive S. |
| N-250110 | 7-11 at 4350 Merrick Road, Massapequa |
| N-250120 | Library, Harbor Lane |
| N-250130 | Delicatessen 1-F Park Ln., M.Pk. |
| N-250140 | East Lake School East Lake Ave., M.Pk. |
| N-250160 | Buttered Bagel, 4917 Merrick Road |
| N-250170 | American Legion Parkside Ave |
| N-250190 | Ames School Pittsburgh Ave |
| N-250200 | Delicatessen 4646 Merrick Road |
| N-250210 | Stevens Drycleaners, 4127 Merrick Road |
| N-250220 | 7-11 at 711 Broadway |
| N-250230 | Massapequa Funeral Home, 1050 Park Blvd |
| N-250240 | Florist, 1036 Park Blvd |
| N-250250 | MWD District Office, 84 Grand Avenue |

Legend

- Water District
- 300 Scale Map Grid
- Tank
- Building
- Shoreline
- Inland Water
- Local
- County
- State
- Water Facilities
 - Valve
 - Hydrant
 - Chlorine Residual Sampling Point
 - Interconnection
 - NY-WATER
- Pipe Diameter
 - 6 Inch
 - 8 Inch
 - 10 Inch
 - 12 Inch
 - 14 Inch
 - 16 Inch
 - 18 Inch



Distribution System Sampling Points of Massapequa Water District



MASSAPEQUA WATER DISTRICT



GEOGRAPHIC INFORMATION SYSTEM

Exhibit 1



Note; the three red digits on the map correspond to the last three digits of the sampling point I.D. number

| NYSDEC Well No. | Local Well ID | Latitude | Longitude | Site Elevation | Authorized Capacity | Actual Capacity | Terminal Well Depth | Well Screen Diameter | Well Screen Length | Split Screen Intervals |
|------------------------|----------------------|----------------------|----------------------|-----------------------|----------------------------|------------------------|----------------------------|-----------------------------|---------------------------|-------------------------------|
| - | - | <i>deg, min, sec</i> | <i>deg, min, sec</i> | <i>MSL</i> | <i>GPM</i> | <i>GPM</i> | <i>ft.</i> | <i>in.</i> | <i>ft.</i> | <i>ft.</i> |
| N-4602 | 1 | 40°41'54.45" | 73°26'19.18" | 42 | 1400 | 1352 | 451 | 8 | 65 | - |
| N-9173 | 2R | 40°41'54.37" | 73°26'18.61" | 42 | 2000 | 2205 | 845 | 12 | 82 | - |
| N-5703 | 3 | 40°41'56.77" | 73°26'18.51" | 42 | 1400 | 1377 | 458 | 6 | 60 | 30 & 30 |
| N-6442 | 4 | 40°41'23.61" | 73°28'51.04" | 33 | 1400 | 1438 | 618 | 12 | 67 | 40 & 27 |
| N-6443 | 5 | 40°41'23.98" | 73°28'51.10" | 33 | 1400 | 1001 | 825 | 10 | 80 | - |
| N-6866 | 6 | 40°40'39.33" | 73°28'34.34" | 29 | 1400 | 1375 | 626 | 12 | 60 | - |
| N-6867 | 7 | 40°40'39.57" | 73°28'34.37" | 26 | 1400 | 1376 | 492 | 12 | 60 | 31, 14, & 15 |
| N-8214 | 8 | 40°41'56.40" | 73°26'17.78" | 42 | 1400 | 1523 | 685 | 12 | 81 | - |
| N-13338 | 9 | 40°40'33.45" | 73°28'40.99" | 23.58* | 1400 | 1090 | 645 | 12 | 66 | Yes see dwg |

* Top of well casing

ORIGINAL TO COMMISSION

Well No. N-6443
(on preliminary report)

County... NASSAU.....

State of New York
Department of Conservation
Division of Water Power and Control

LOG
Ground Surf., El.....ft. above sea

COMPLETION REPORT—LONG ISLAND WELL
WELL #5

A
.....ft.
v
Top of Well

Owner...Massapequa Water District.....
Address...84 Grand Ave...Massapequa, L.I., N.Y.....
Location of well...Hancock Street.....
Depth of well below surface...267'6".....feet
Depth to ground water from surface...3'.....feet

Log
on
Reverse
side.

CASINGS:

Diameter...18".....in.12".....in.in.in.
Length...186'11".....ft. 61'2-3/4".....ft. (inner casing plus riser)
Sealing...12" Casing is welded to screen. Top of 12" casing
Casings removed...is 128'6" below grade.....

SCREENS: Make Johnson Everdur.....Openings...#50 slot.....
Diameter...12".....in.in.in.in.
Length...67'5-1/4".....ft.ft.ft.ft.
Depth to top from top of casing...189'8-3/4".....ft.

PUMPING TEST: Date...6/11/58.....Test or permanent pump? Test
Duration of Test.....days.....4.....hours
Maximum Discharge...1.725.....gallons per minute
Static level prior to test...3 ft.....in. below top of casing
Level during Max. Pumping...40' ft.....in. below top of casing
Maximum Drawdown...37'.....ft.
Approx. time of return to normal level after cessation
of pumping.....hours.....minutes
Water temperature 52°.

12"
Inner
Casing plus
riser.

PUMP INSTALLED:

Type...D.W.T. Make...Johnston Model No. 12BC.....
Motive power...Diesel Engine...G.M. H.P. 100.....
Capacity...1.400.....g.p.m. against }173.....ft. of discharge head
No. bowls or stages...5 }210.....ft. of total head

12"
Screen

DROP LINE:

SUCTION LINE:

Diameter...10".....in.10".....in.
Length...60'.....ft.10'.....ft.

12"
Blank

Use of water...Public Supply.....

Work started...4/24/1958..... Completed...7/3/58

Date...7/9/58..... Driller...C.W. Lauman & Co., Inc.

12"
Screen

STATE OF NEW YORK
WATER POWER AND
CONTROL COMMISSION

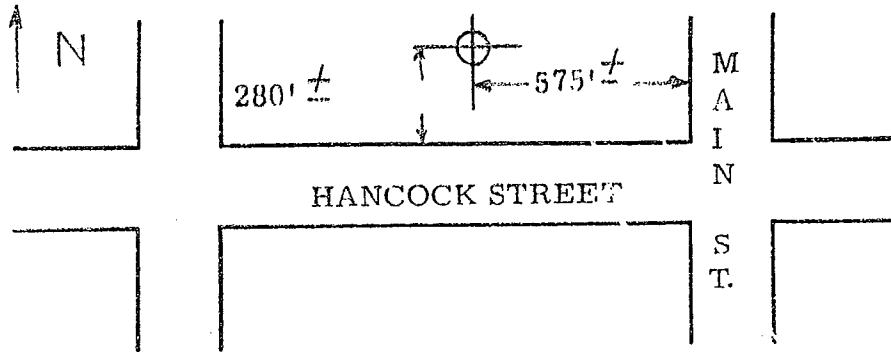
JUL 11 1958

CONTROL COMMISSION
RECEIVED

License No...13.....
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.

267'6"

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

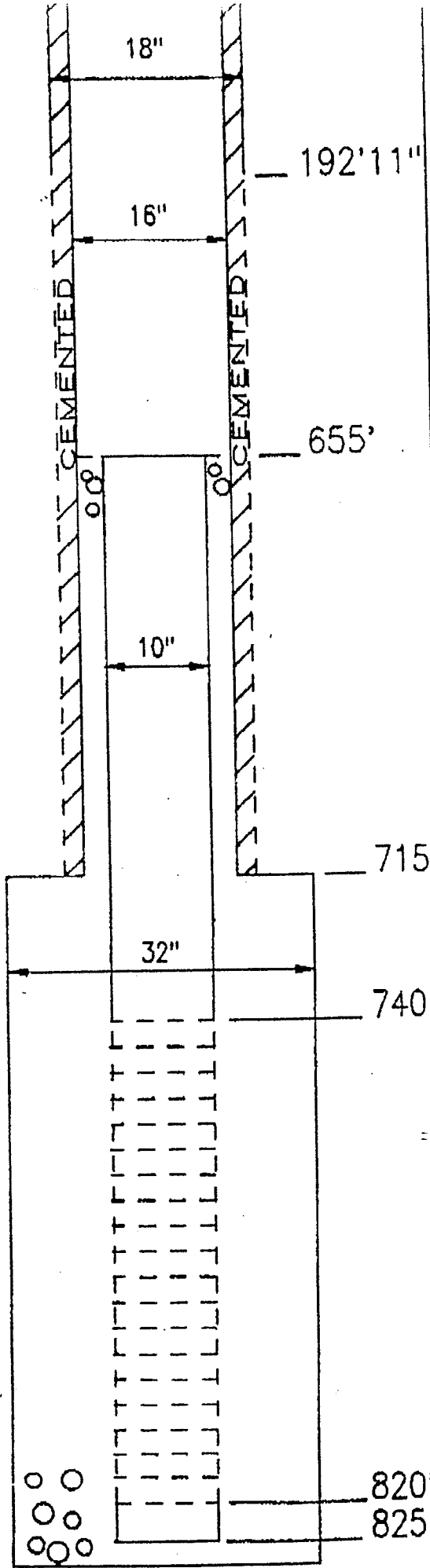
LOG:

| | |
|---------------|--|
| 0 - 6' | Fill |
| 6' - 7' | Top soil and loam. |
| 7' - 74' | Coarse brown sand, grits and gravel. |
| 74' - 175' | Fine gray sand, sandy clay, streaks of clay and lignite. |
| 175' - 226' | Med. coarse sand, streaks of clay, lignite. |
| 226' - 233' | Gray clay, streaks of sand. |
| 233' - 239'6" | Medium gray sand, mica and lignite. |
| 239'6" - 241' | Gray clay and lignite. |
| 241' - 268' | Med. gray sand, some clay and lignite. |
| 268' - 271' | Med. gray sand, pyrite, lignite, streaks of clay. |
| 271' - 273'6" | Clay and lignite. |

Repair

11/17/77 Layne-N.Y. - Replaced Johnston bowl, column + shaft
with Layne.

NO LOG NOT A LAYNE WELL



192'11" UP TO 18" DIA. CASING
 715' OF 16" DIA. .375" WALL, STEEL WELDED
 51' OF 10" DIA. .365 WALL, STEEL WELDED
 15'6" OF 10" DIA. USED S.S. WELDED
 SCREEN
 80' OF 10" DIA., 50 SLOT, JOHNSON WW, 316 ELC
 PLUG 10" P.S. STEEL & SS PLATES WELDED IN BOTTOM OF SUMP
 GRAVEL MIX #1 & #2 75% RETAINED ON U.S. # 18 SIEVE
 SEAL

PUMP

| | | | |
|------------|---------|-------------|------------|
| SIZE | 13" | NUMBER | 104767 |
| STAGES | 4 | TYPE | CL |
| SETTING | 105'-2" | COLUMN | |
| TUBING | | SHAFTING | |
| BOWLS | | IMPELLERS | DR |
| IMP. SHAFT | | SUCTION | 10" OF 10" |
| STRAINER | | PRESS. B.P. | |
| HEAD | TF1018 | AIR LINE | 115' |

MOTOR

| | | | |
|------------|------|------------|------|
| MAKE | U.S. | TYPE | CFU |
| VOLTS | 460 | CYCLE | |
| PHASE | 3 | AMP. | |
| H.P. | 100 | RPM | 1800 |
| FRAME | 504P | NON REV. | |
| MODEL | | SERIAL # | |
| UPPER BRG. | | LOWER BRG. | |

GEAR DRIVE

| | | | |
|--------------|--|----------|--|
| MFG. | | MODEL | |
| RATIO | | SERIAL # | |
| H.VY. THRUST | | NON REV. | |

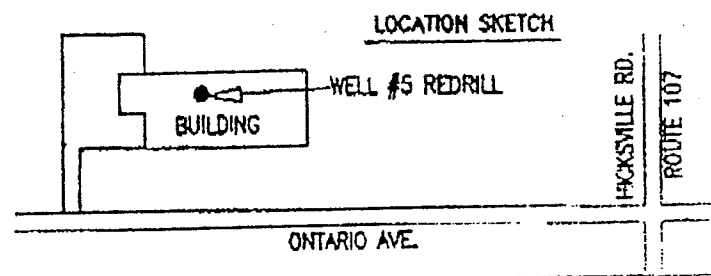
ENGINE

| | | | |
|------|--|-----------------|--|
| MFG. | | MODEL | |
| PRM | | CONTINUOUS H.P. | |
| FUEL | | SERIAL # | |

WELL

| | | | |
|---------------|---------|-------------|--------------|
| STARTED | 8-23-88 | CLEAR DEPTH | |
| FIRST TEST | | METHOD | REV. ROT. |
| FINAL TEST | | GUAR. CAP. | |
| ACCEPTED | | GUAR. PRESS | |
| B.P. ELEV | | FORMATION | |
| DIST. TO G.W. | | DRILLER | S.D. BARTOLO |

| | | | | |
|--------------|---------|--|--|--|
| DATE | 9-19-89 | | | |
| STATIC LEVEL | 12'-6" | | | |
| PRODUCTION | 1461 | | | |
| PUMP LEVEL | | | | |
| WATER TEMP. | | | | |



HYDRO GROUP MASSAPEQUA WATER DISTRICT
 MASSAPEQUA, N.Y. WP-0
 LAYNE WELL & PUMP DIVISION.

DRAWN BY: MAS STATE # N-64423
 LAYNE WELL # CUSTOMER WELL # 5

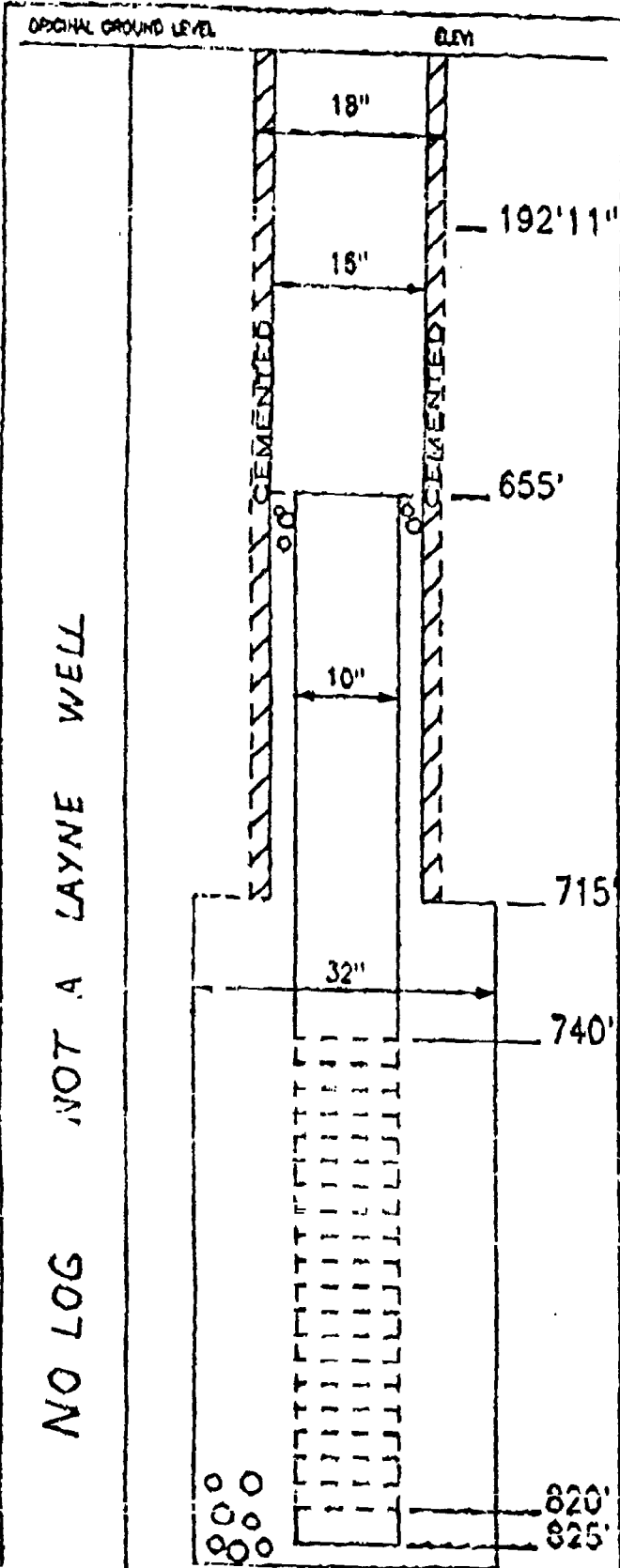
| Soil Boring data | Date Completed | As-Built Drawing |
|-------------------------|-----------------------|-------------------------|
| <i>(y/n)</i> | | <i>(Y/N)</i> |
| Y | 2002- redrill | Y |
| Y | 1977 - redril | Y |
| Y | 1956 | Y |
| Y | 1958 | Y |
| Y | 1989- redrill | Y |
| N | 1960 | Y |
| N | 1961 | Y |
| N | 1968 | N |
| Y | 2004 | Y |

MASS WP # 5

N-64423

APR-12-90 THU 8:53

P. 01



PIPE
 192'11" OF 18" DIA. (EXISTING)
 715' OF 18" DIA. 375 WALL STEEL WELDED
 81' OF 10" DIA. 305 WALL STEEL WELDED
 15'6" OF 10" DIA. USED B.S. WELDED
 SCREEN
 80' OF 10" DIA. 50 SLOT JOHNSON W.W. 316 S.G.
 PLUS 10" P.S. STEEL & SS PLATES WELDED TO BOTTOM OF SUMP
 GRAVEL MAX #1 & #2 75% RETAINED ON U.S. # 18 SIEVE
 SEAL

PUMP
 SIZE 13"
 STAGES 4
 SETTING 105'-2"
 TUBING
 BOWLS
 IM. SHAFT
 STRAINER
 HEAD 771018

MOTOR
 MAKE U.S.
 VOLTS 460
 PHASE 3
 H.P. 100
 FRAME 904P
 MODEL
 UPPER BRG.

GEAR DRIVE
 MFG.
 RATIO
 M.V. THRUST

DIGINE
 MFG.
 PRIM
 FUEL

WELL
 STARTED 8-23-88
 FIRST TEST
 FINAL TEST
 ACCEPTED
 B.P. ELEV
 DIST. TO G.W.
 DATE
 STATIC LEVEL
 PRODUCTION
 PUMP LEVEL
 WATER TEMP.

MATERIAL
 NUMBER 104767
 TYPE CL
 COLLUM
 SHAFING
 IMPELLERS OR
 S. STATION 10" OF 10"
 PRESS. B.P.
 AIR LINE 115'

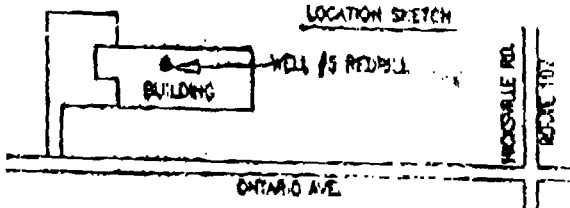
MOTOR
 TYPE CPU
 CYCLE
 AMP.
 RPM 1800
 NON REV.
 SERIAL #
 LOWER BRG.

GEAR DRIVE
 MODEL
 SERIAL #
 NON REV.

DIGINE
 MODEL
 CONTINUOUS H.P.
 SERIAL #

WELL
 CLEAR DEPTH
 METHOD REV. POT.
 CUR. CAP.
 CUR. PRES.
 FORMATION
 DRILLER S.D. BARTOLO

| | | | |
|---------|----------|--|-----------|
| 8-18-89 | 4-20-89 | | |
| 12'-6" | 17'-2" | | |
| 1461 | 1461 | | |
| | 111' | | |
| | 2.1' m/s | | SC = 50.1 |



HYDRO GROUP MASSAPEQUA WATER DISTRICT
 MASSAPEQUA, N.Y. WP-9
 LAYNE WELL & PUMP DIVISON.

DRAWN BY: [Signature]
 LAYNE WELL #

STATE # N-64423
 CUSTOMER WELLS 3

APR-12-90 THU 7:22

Massapequa WD Well Depths.

[Grade Elev.] NEWF [+ 39 ft]

[NWWF] [+ 30 ft]

[NY Av] [+ 25 ft]

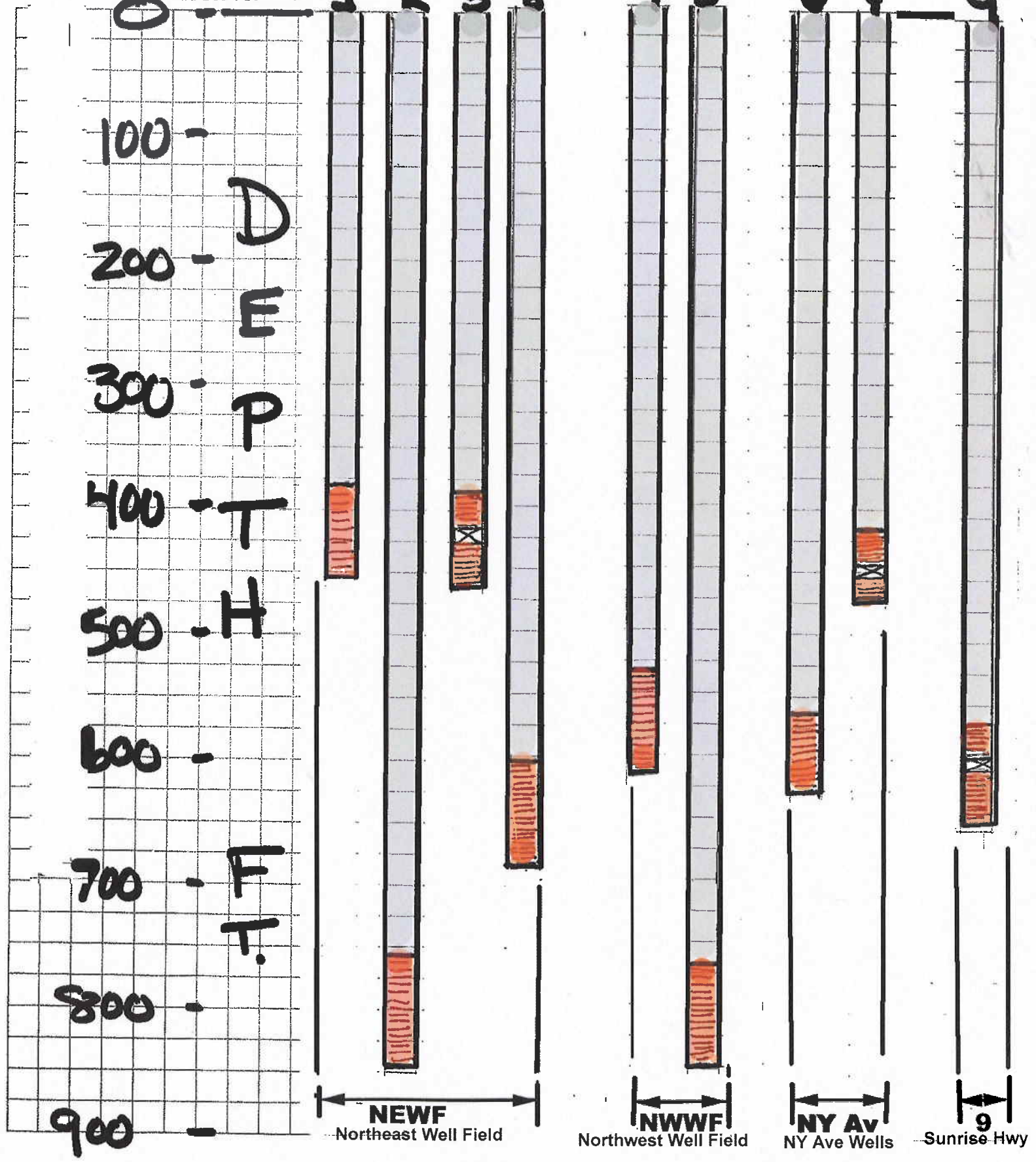
[9] [+21 ft]

Well Number 1 2 3 8

4 5

6 7

9



NEWF
Northeast Well Field

NWWF
Northwest Well Field

NY Av
NY Ave Wells

9
Sunrise Hwy

MASSAPEQUA WATER DISTRICT WOULD LIKE TO RECEIVE QUOTES ON THE WORK
NECESSARY TO PULL THE PUMP FROM WELL NO. 5. THE DETAILS ARE DESCRIBED
HEREIN. THE DEADLINE FOR RECEIVING QUOTES IS January 19, 1993.

Original records indicate:

WELL NO. 5 (N-6443)
Total depth 825'
16"dia casing x 715'

Authorized Yield 1400 GPM
Static Water Level 13'
10"dia. screen x 80'

Located at Ontario Ave. west of Hicksville Rd., Massapequa

PUMP

- * Johnston Discharge Head & water lube stuffing box
- * 105 ft. of 10 x 1-1/2" Layne flanged water lube column plasite coated assembly consisting of Layne & Bowler 12TLC-4 stage bronze bowl assembly (Serial # 104767) with flanged discharge and a 10" dia. x 10 ft. long steel threaded suction pipe.
- * A performance test was conducted 9-10-92 and the results indicate a dramatic loss in capacity. It is suspected that there is a leak in the column pipe or possibly the pump has ingested the air line which is broken.

The objectives of proceeding with work outlined are to pull & disassemble the pump so that it can be inspected to determine the overall condition and then perform repairs required to restore the Original Performance. In addition, the condition of the well shall be confirmed through minimal investigation of the well casing and screen. The District would like to have well measured and bailed before proceeding with pump repair.

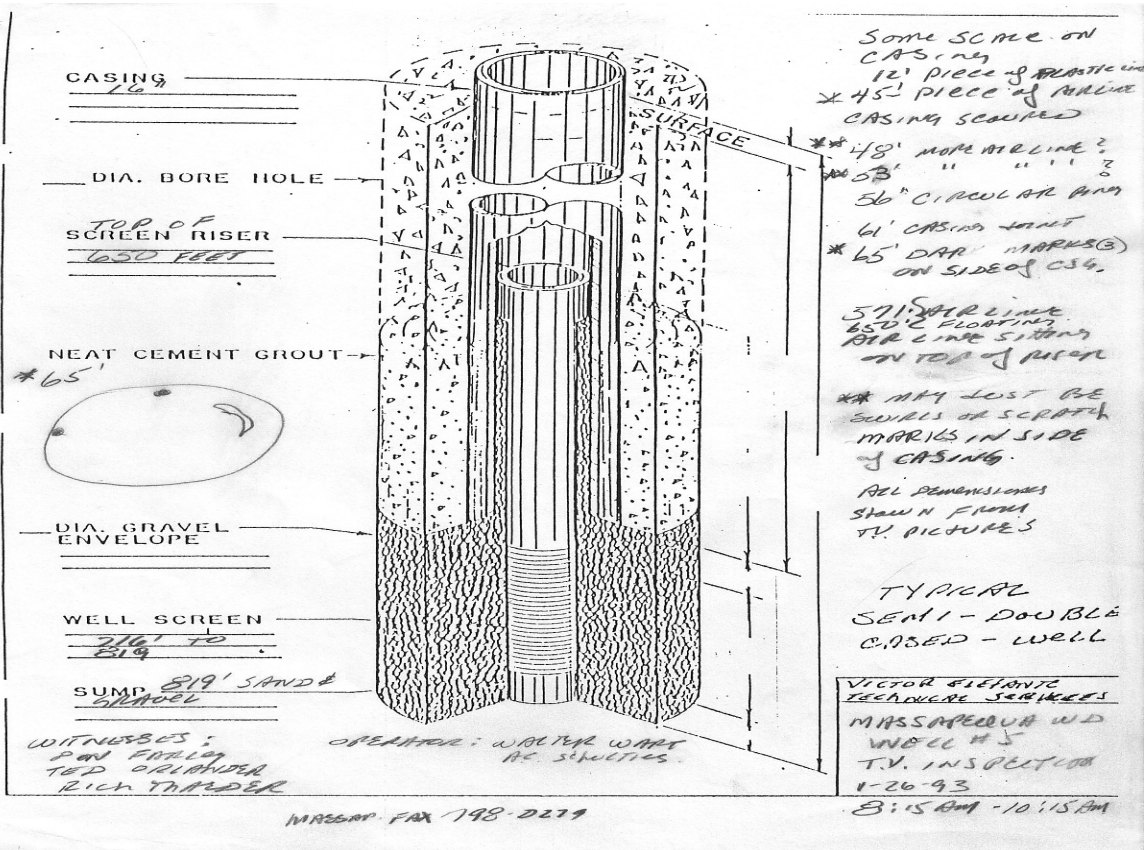
Based on the objectives, the Contractor shall provide a proposal to furnish Labor & Equipment to perform the following:

I. DISASSEMBLY & INSPECTION WORK

The pump shall be disconnected from piping and electric, removed from the well and completely disassembled and inspected.

- a) A complete inspection of the pump shall be performed on site. The District representative in conjunction with the Contractor will inspect to determine whether repair or replacement of the pump is required. Prior to inspection, the pump shall be cleaned and disassembled as follows:
 - 1) Power wash and inspect outside of column pipe, lineshafting and bowl assembly.
 - 2) Disassemble bowl assembly including removal of suction & discharge nozzles, intermediate bowls and impellers. Power wash internal parts to allow for detailed inspection.
 - 3) Thoroughly clean flanged end of column pipe faces to allow inspection for pitting and leaking.
 - 4) Remove from Discharge Head and inspect stuffing box.
- b) Results of inspection shall be documented in a written Field Report to the District from the Contractor.

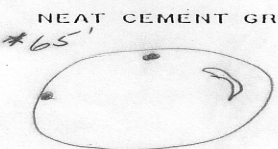
WELL#5(N6443)ONTARIO



CASING _____

DIA. BORE HOLE _____

TOP OF SCREEN RISER
 650 FEET



DIA. GRAVEL ENVELOPE _____

WELL SCREEN
 216 TO 219

SUMP 819' SAND & GRAVEL

WITNESSES:
 PAUL FOLLOP
 TED ORLANDER
 RICH THREDEK

OPERATOR: WALTER WARE
 AC SERVICES

MRECORP. FAX 798-0279

SOME SCALE ON CASING
 12' PIECE OF PLASTIC IN
 X 45' PIECE OF AIRLINE
 CASING SCOURED
 * 45' MORE AIRLINE?
 * 50' CIRCULAR AIRLINE
 4' CASING JOINT
 * 65' DAP MARKS ON SIDE OF CSG.
 57.5' AIRLINE
 650' FLOATING
 AIRLINE SITUATION
 ON TOP OF RISER
 * MAY BE SCRUBS OR SCRATCH
 MARKS IN SIDE
 OF CASING.
 ALL DIMENSIONS
 SHOWN FROM
 TV PICTURES

TYPICAL
 SENT - DOUBLE
 CLOSED - WELL

VICTOR ELEFANTZ
 TECHNICAL SERVICES
 MASSAPESQUA ND
 WELL #5
 T.V. INSPECTION
 1-26-93
 8:15 AM - 10:15 AM