

STATE ENGINEER
Salem, Oregon

WASH
011594

OBSERVATION WELL
Well-Record

STATE WELL NO. 310-4E(2)
COUNTY Washington
APPLICATION NO. GR-616

OWNER: Tigard Water District

MAILING ADDRESS: C.E. Janoe
8900 Burnham Ave. (S.W.)

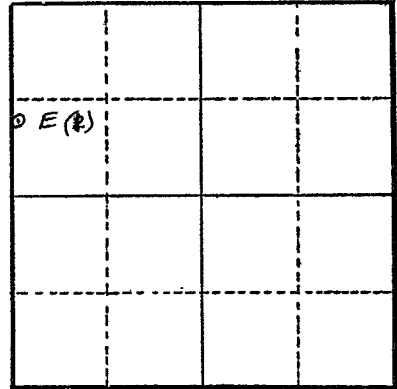
LOCATION OF WELL: Owner's No. #1

CITY AND STATE: Tigard, Oregon

SW 1/4 NW 1/4 Sec. 11 T. 2 S., R. 1 W., W.M.

Bearing and distance from section or subdivision

corner S. 1625 ft. & E. 30 ft.
from N.W. cor. sec. 11



Altitude at well 403

TYPE OF WELL: drilled Date Constructed April 25, '47

Depth drilled 381 DEEPENED 4-2-66 Depth cased

Section 11

CASING RECORD:
12 inch

FINISH:

AQUIFERS:

WATER LEVEL:
185

PUMPING EQUIPMENT: Type Peerless Turbine H.P. 15
Capacity 250 G.P.M.

WELL TESTS:
Drawdown 76 ft. after hours 170 G.P.M.
Drawdown 97 ft. after hours 210 G.P.M.

USE OF WATER municipal Temp. °F. 19
SOURCE OF INFORMATION GR-616

DRILLER or DIGGER
ADDITIONAL DATA:

Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

2/1W-11E(1)

WELL #1
November 18, 1947 Sounded

R. J. STRASSER DRILLING CO.

R 3, Box 594
Portland 6, Oregon

Log of 12" well drilled for Tigard Water District, Completed April 25, 1947 by R. J. Strasser Drilling Company.

Surface	to	2 ft.	Top soil
2 ft.	"	11 "	Yellow clay
11 "	"	22 "	Hard pan with some sand
22 "	"	47 "	Silt and yellow clay
47 "	"	64 "	Soft lava rock
64 "	"	84 "	Gray and green lava rock
84 "	"	168 "	Black, gray, red rock medium hard
168 "	"	192 "	Black and red rock medium hard
192 "	"	202 "	Black hard rock
202 "	"	212 "	Red and black soft porous rock with some water
212 "	"	220 "	Hard black rock
220 "	"	230 "	Hard black rock
230 "	"	260 "	Gray and black medium hard rock
260 "	"	272 "	Gray porous rock with water
272 "	"	309 "	Hard black rock some crevices
309 "	"	315 "	Red rock not so hard
315 "	"	325 "	Yellow and gray soft rock showing water
325 "	"	345 "	Gray hard rock
345 "	"	370 "	Medium hard gray rock
270 "	"	381 "	Hard gray rock

Well cased with 12" pipe to a depth of 71 feet and a cement grout placed to prevent surface water from entering the well.

Static water level 188 feet from the surface.

Pump test showed	60 G.P.M.	with	20 feet	draw down.
" " "	120 "	" "	30 "	" "
" " "	170 "	" "	46 "	" "
" " "	210 "	" "	97 "	" "

Would recommend pump setting of 250 feet column, bowls and 35 feet of suction capacity 176 G.P.M. Your pumping level would be 240 feet which would be the most practicable level to pump from as the next 40 feet of draw down only adds 40 G.P.M. of water and all of your water would need to be pumped that extra depth.

SEE DEEPENING 4-2-66

ELDEN W. CARTER
CONSULTING CIVIL ENGINEER
PORTLAND TRUST BLDG.
319 S. W. WASHINGTON ST.
PORTLAND 4, OREGON

2/w-10E(1)
WASH
will #1

October 15, 1958

Board of Commissioners,
Tigard Water District,
2241 S.W. Commercial St.,
Tigard 23, Oregon.

RECEIVED
OCT 15 1958
STATE ENGINEER
SALEM, OREGON

Gentlemen:

On October 11, 1958 tests were made on your three wells to determine, primarily, the present static water levels and to observe the drawdown and pumping levels if possible.

At the time of test, both Well No. 1 and No. 2 were in service and under automatic control. The pump in Well No. 1 was running just prior to the test and at No. 2 the pump had been off an undetermined length of time. Well No. 3 had not been in service for at least two weeks.

In each case the pumping level was observed after running the pump 5 to 8 minutes which, except for No. 1, probably did not give the level which might be expected after prolonged continuous operation. This is particularly true of well No. 3.

A tabulation of the test data and comparative data from the original well tests are shown below.

-11E(1)

	Oct. 11, 1958	When Drilled
<u>Well No. 1</u>		11-16-47
Static level (below surface)	214 ft.	188 ft.
Pumping level	266 ft.	234 ft.
Rate	(?)	120 gpm
Drawdown	52 ft.	46 ft.
	* - Pump runs throttled - exact flow not known.	
<u>Well No. 2</u>		7-30-49
Static level	212 ft.	190 ft.
Pumping level	268 ft.	240 ft.
Rate	400 gpm	400 gpm
Drawdown	56 ft.	50 ft.
<u>Well No. 3</u>		2-11-58
Static level	210 ft.	215 ft.
Pumping level	257 ft.	243 ft.
Rate	350 gpm	350 gpm
Drawdown	47 ft.	128 ft.

Very truly yours,
ELDEN W. CARTER

Elden W. Carter, Engineer
Tigard Water District

ELDEN W. CARTER
CONSULTING CIVIL ENGINEER
OREGON BANK BLDG.
319 S. W. WASHINGTON ST.
PORTLAND 4, OREGON

March 17, 1961

Board of Commissioners
Tigard Water District
8841 S.W. Commercial St.
Tigard 22, Oregon

Gentlemen:

Pumping tests were run on the district's three wells on March 8, 1961 to determine the present static water levels, draw down, and pumping levels.

The draw down was measured after pumping 30 minutes on each well.

A tabulation of the test data and comparative data from previous tests are shown below.

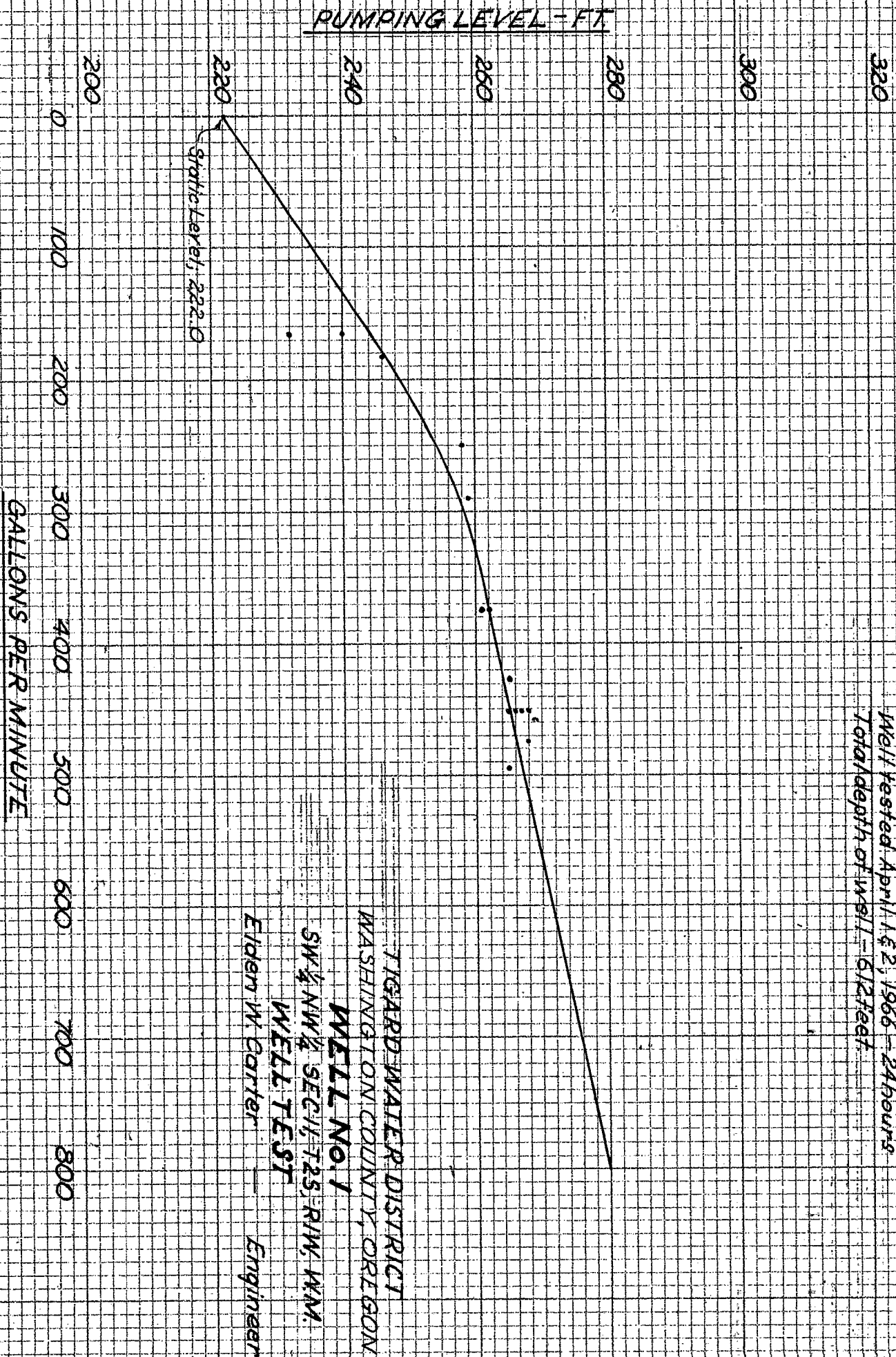
	<u>3/8/61</u>	<u>10/11/58</u>	When drilled <u>11/18/47</u>
<u>Well No. 1</u>			
Static level	223 ft.	214 ft.	188 ft.
Pumping level	275 ft.	266 ft.	234 ft.
Rate (throttled - est.)	(150 gpm)	(?)	170 gpm
Draw down	52 ft.	52 ft.	46 ft.
 <u>Well No. 2</u>			<u>7/30/49</u>
Static level	260 ft.	212 ft.	190 ft.
Pumping level	295 ft.	265 ft.	280 ft.
Rate	400 gpm	400 gpm	400 gpm
Draw down	25 ft.	53 ft.	90 ft.
 <u>Well No. 3</u>			<u>2/11/58</u>
Static level	293 ft.	210 ft.	215 ft.
Pumping level	350 ft.	257 ft.	243 ft.
Rate	350 gpm	350 gpm	350 gpm
Draw down	67 ft.	47 ft.	128 ft.

Very truly yours,

ELDEN W. CARTER

Elden W. Carter, Engineer
Tigard Water District

cc- State Engineer



Note:
 Existing 12" well deepened and tested
 by Hyakon Botner Drilling Co.
 Well tested April 1 & 2, 1966 - 24 hours
 Total depth of well = 612 feet

TIGARD WATER DISTRICT
 WASHINGTON COUNTY, OREGON
WELL No. 1
 SW 1/4 NW 1/4 SEC 11, T25, R1W, W4M.
 Eiden W. Carter — Engineer