

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

WATER WELL REPORT

STATE OF OREGON (Please type or print)

RECEIVED APR 14 1975

State Well No. 65/3W-33

STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

(Do not write above) STATE ENGINEER SALEM OREGON State Permit No.

(1) OWNER:

Name City of Salem, Salem, Oregon Address Willow Lake Sewage Treatment Plant

(2) TYPE OF WORK (check):

New Well [x] Deepening [] Reconditioning [] Abandon [] If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary [] Cable [x] Dug [] Driven [] Jetted [] Bored []

(4) PROPOSED USE (check):

Domestic [] Industrial [] Municipal [] Irrigation [] Test Well [] Other []

CASING INSTALLED:

Threaded [] Welded [x]

12" Diam. from 0' to 150' 6" ft. Gage 375

(5) PERFORATIONS:

Perforated? [] Yes [x] No

Table with columns: Size of perforations, in. by, in. Rows for perforations from 0 to 150 ft.

(7) SCREENS:

Well screen installed? [x] Yes [] No

Manufacturer's Name UOP Johnson Type Stainless Steel Model No. 156 Diam. 12" Slot size 80 Set from 146 ft. to 156 ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? [x] Yes [] No If yes, by whom? Stettle Sup. Yield: 500 gal./min. with 72 ft. drawdown after 400 " 58 " 350 " 52 "

(9) CONSTRUCTION:

Well seal—Material used Cement Grout & 2% Bentonite Well sealed from land surface to 50 ft. Diameter of well bore to bottom of seal 18 in. Diameter of well bore below seal 12 in. Number of sacks of cement used in well seal 30 sacks Number of sacks of bentonite used in well seal Brand name of bentonite International Gel Number of pounds of bentonite per 100 gallons of water Was a drive shoe used? [x] Yes [] No Plugs Size: location ft. Did any strata contain unusable water? [] Yes [x] No Type of water? depth of strata Method of sealing strata off Was well gravel packed? [] Yes [x] No Size of gravel: Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Marion Driller's well number NW 1/4 1/4 Section 33 T. 6 S R. 3 W. W.M. Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found ft. Static level 18 ft. below land surface. Date 3/21/75 Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 12"

Depth drilled 160 ft. Depth of completed well 160 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

Table with columns: MATERIAL, From, To, SWL. Rows: Brown silty clay-occ. silty sand streak, Blue-gray silty clay, occ. fine black sand seam, Black sand & gravel w/occ. cobble, occ. cemented strk., Black & brown sand & gravel, w/layered loose, Cemented black & brown gravel w/brown clay-occ. loose zone, Black & brown gravel and sharp sand--occ. cemented streak, Blue-black silty sand & clay, occ. gravel, Sharp black sand w/gravel-- occ. muddy zones, Gray-black sand w/gravel-- muddy zones, Hard gray black cemented sand

Work started 2/4/75 19 Completed 3/21/75 19 Date well drilling machine moved off of well 3/28/75 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] [Signature] Date 3/28/75, 19 (Drilling Machine Operator)

Drilling Machine Operator's License No. 523

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name A.M. JANNSEN DRILLING CO. (Person, firm or corporation) (Type or print)

Address 21075 S.W. Tualatin Valley Hwy, Aloha, Or.

[Signed] [Signature] (Water Well Contractor)

Contractor's License No. 79 Date 3/28/75, 19

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WATER WELL REPORT

STATE OF OREGON

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State Well No.

State Permit No.

STATE ENGINEER, SALEM, OREGON 97311
within 30 days from the date
of well completion.

MAR 2006

MAR 2006

(1) OWNER:

Name
Address **Willow Lake Sewage Treatment Plant**

(2) TYPE OF WORK (check): page #2

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):

Rotary Driven Domestic Industrial Municipal
Cable Jetted Irrigation Test Well Other
Dug Bored

CASING INSTALLED: Threaded Welded
....." Diam. from ft. to ft. Gage
....." Diam. from ft. to ft. Gage
....." Diam. from ft. to ft. Gage

PERFORATIONS: Perforated? Yes No.
e of perforator used
Size of perforations in. by in.
..... perforations from ft. to ft.
..... perforations from ft. to ft.
..... perforations from ft. to ft.

(7) SCREENS: Well screen installed? Yes No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " " " "
" " " " " "
Baller test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used
Well sealed from land surface to ft.
Diameter of well bore to bottom of seal in.
Diameter of well bore below seal in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons
of water lbs./100 gals.
Was a drive shoe used? Yes No Plugs Size: location ft.
Did any strata contain unusable water? Yes No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? Yes No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Driller's well number
..... ¼ ¼ Section T. R. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found ft.
Static level ft. below land surface. Date
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing
Depth drilled ft. Depth of completed well ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
& gravel-occ. small boulder	116	122	
Firm sticky gray gritty clay with gravel	122	124	
Hard gray cemented sand and gravel	124	128	
Hard dirty gray sand & gravel			
occ. loose zones of black sharp sand & gravel	128	143	
Black sharp sand & gravel--occ. cemented streak	143	156	
Black sand & gravel w/clay			
dirty	156	157	
Gray cemented sand & gravel--boulders--gray clay	157	160	

Work started 2/4/75 19 Completed 3/21/75 19
Date well drilling machine moved off of well 3/28/75 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Date 3/28/75, 19.....
(Drilling Machine Operator)
Drilling Machine Operator's License No.

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name **A. M. JANNSEN DRILLING CO.**
(Person, firm or corporation) (Type or print)
Address **21075 S.W. Tualatin Valley Hwy., Aloha, Or.**
[Signed]
(Water Well Contractor)
Contractor's License No. **79** Date **3/28/75**, 19.....

WELL TEST DATA SHEET

March 20, 21, 1975

For: Willow Lake Sewage Treatment Plant
Butler Construction-Willow Lake #2 Well

Orifice Dia. 4-1/4"
Test Pump suction set at 109 feet
Well Driller: Preston A. Janssen
Static Water Level 18 feet
Depth of water measured by electronic probe

Test started at 10:00 a.m. March 20, 1975

<u>Time</u> <u>Hr. Min.</u>	<u>To Water</u> <u>Depth Ft.</u>	<u>GPM</u> <u>Flow</u>	<u>Remarks</u>
0 00	18	500	Clear, trace of sand
0 30	84	600	Clear, slight trace sand
1 00	88	520	Clear, slight trace sand
1 30	85	510	Clear, very slight trace sand
2 00	88	510	Clear, very slight trace sand
2 30	89	510	Clear, slight sand
3 00	89	500	Clear, slight sand
3 30	90	500	Clear, slight sand
4 00	90	500	Clear, slight sand
4 30	91	500	Clear, slight sand
5 00	91	500	Clear, slight sand
5 30	91	500	Clear, slight sand
6 00	91	500	Clear, slight sand
6 30	91	500	Clear, slight sand
7 00	91	500	Clear, slight sand
7 30	91	500	Clear, slight sand
8 00	91	500	Clear, slight sand
8 30	91	500	Clear, slight sand
9 00	91	505	Clear, slight sand
9 30	90	500	Clear, slight sand
10 00	90	500	Clear, slight sand
10 30	90	500	Clear, slight sand
11 00	90	500	Clear, trace of sand
11 30	90	500	Clear, trace of sand
12 00	90	500	Clear, trace of sand
12 30	90	500	Clear, trace of sand
13 00	90	500	Clear, trace of sand
13 30	90	500	Clear, trace of sand
14 00	90	500	Clear, trace of sand
14 30	90	500	Clear, trace of sand
15 00	89	500	Clear, trace of sand
15 30	94	525	Clear, trace of sand
16 00	88	500	Clear
16 30	91	500	Clear
17 00	93	525	Clear

<u>Time</u>		<u>To Water</u>	<u>GPM</u>	<u>Remarks</u>
<u>hr.</u>	<u>Min.</u>	<u>Depth Ft.</u>	<u>Flow</u>	
17	30	92	500	Clear
18	00	92	500	Clear
18	30	90	500	Clear
19	00	86	475	Clear
19	30	90	500	Clear
20	00	89	500	Clear
20	30	90	500	Clear
21	00	90	500	Clear
21	30	89	500	Clear
22	00	90	500	Clear
22	30	88	500	Clear
23	00	76	400	Clear
23	30	70	350	Clear, Temperature 53° F
24	00	91	500	

RECOVERY

<u>Minutes</u>	<u>Seconds</u>	<u>Depth to Water</u>
0	0	91
0	15	60
0	18	50
0	30	40
4	03	35
10	02	32-1/2
30	00	30