

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application G-19240
Date: August 27, 2024

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Stacy Garrison and Travis Brown reviewed the application. Please see Stacy's and Travis' Groundwater Review and the Well Reports.

Applicant's Well #1 (LANE 12773): Based on a review of the Well Report, Well #1 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that the Well Report indicates that there is no annular space or well seal; the steel casing gauge is not 0.244 inches or greater; and the well head is not one foot above the local surface runoff. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 18 feet below ground surface, and the well head must be at least one-foot above the local surface runoff.

My recommendation is that the Department **not issue** a permit for Well #1 unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is constructed to meet current minimum well construction standards.

The repair of Well #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (LANE 52059/LANE 12757): Based on a review of the Well Report, Well #2 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that the Well Report indicates that there is no annular space or well seal; the well head is not one foot above the local surface runoff; and the casing wall thickness between 0 ft and 107 ft is unknown. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 18 feet below ground surface, and the well head must be at least one-foot above the local surface runoff.

My recommendation is that the Department **not issue** a permit for Well #2 unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is constructed to meet current minimum well construction standards.

The repair of Well #2 may not satisfy hydraulic connection issues.

Applicant's Well #3 and Well #4 (Proposed): Well #3 and Well #4 are proposed wells, therefore they cannot be reviewed for construction. Construction of these proposed wells shall be completed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240. During construction of these wells, specific attention should be paid to ensure sealing requirements are met and that the wells do not commingle aquifers.

The construction of proposed Well #3 and Well #4 may not satisfy hydraulic connection issues.

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OCT 31 1958

WATER WELL REPORT
STATE OF OREGON

17/5W-3A

File Original and
First Copy with the
STATE ENGINEER,
SALEM, OREGON

State Well No. _____
State Permit No. **LANE 12773**

(1) OWNER:
Name Gillette Nursery
Address Alvador, Oregon

(2) LOCATION OF WELL:
County LANE Owner's number, if any—
1/4 Section T. R. W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):
New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 11.

PROPOSED USE (check):
Domestic Industrial Municipal
Irrigation Test Well Other
(5) TYPE OF WELL:
Rotary Driven
Cable Jetted
Dug Bored

(6) CASING INSTALLED:
5" Diam. from 0' ft. to 77' ft. Gage 11#
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:
Perforated? Yes No
Type of perforator used Worch
SIZE of perforations 5/16 in. by 4 in.
Torch perforations from 60 ft. to 75 ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

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

(9) CONSTRUCTION:
Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.
Was a surface seal provided? Yes No To what depth? _____ ft.
Material used in seal—
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(10) WATER LEVELS:
Static level 12 ft. below land surface Date 1952
Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by:
[Signed] C.R. Gillette Date 9-29, 1958
7-29 58
(Owner)

(11) 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.
" " " " "
" " " " "
Bailer test 20 gal./min. with 48 ft. drawdown after 2 hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

(12) WELL LOG: Diameter of well 5 inches.
Depth drilled 77 ft. Depth of completed well 77 ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil	0	7
Sand and Gravel- Mixed with Clay	7	65
Black Water Sand	65	77

Work started 19 Completed 19

(13) PUMP:
Manufacturer's Name _____
Type: _____ H.P. _____

Well Driller's Statement:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME _____ (Person, firm, or corporation) (Type or print)
Address _____
Driller's well number _____
[Signed] _____ (Well Driller)
License No. _____ Date _____, 19_____

GILLETTE NURSERY
ALVADORE, OREGON

LOCATION OF THESE WELLS

NE. CORNER OF LOT. 21. BLOCK 29
SECOND AMENDED PLAT OF FERN RIDGE. *Alvadore*

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JUL 31 1958

STATE ENGINEER
SALEM, OREGON

17/5W- 3A

U.S. Geological Survey
Willamette RASA
Located Well

LANE 175/5W-3aad
52059 State Well No.
State Permit No.

ID = 39000117

TESTS: Drawdown is amount water level is lowered below static level
made? Yes No If yes, by whom?

OWNER:

Name Gillette Nursery
Address Alvadore, Oreg n

(2) LOCATION OF WELL:

County _____ Owner's number, if any—
¼ Section T. R. W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(6) CASING INSTALLED:

Threaded Welded

8" Diam. from 0 ft. to 107 ft. Gage stand
" Diam. from _____ ft. to _____ ft. Gage
" Diam. from _____ ft. to _____ ft. Gage

(7) PERFORATIONS:

Perforated? Yes No

Type of perforator used

SIZE of perforations in. by in.
perforations from 27 ft. to 107 ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed Yes No

Manufacturer's Name _____ Model No. _____
Type _____
Diam. Slot size Set from _____ ft. to _____ ft.
Diam. Slot size Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

Was well gravel packed? Yes No Size of gravel:
Gravel placed from _____ ft. to _____ ft.
Was a surface seal provided? Yes No To what depth? _____ ft.
Material used in seal—
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(10) WATER LEVELS:

Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by:

[Signed] _____ Date _____, 19____
(Owner)

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " " " "
" " " " " "
Ballor test 40 gal./min. with 17 ft. drawdown after ½ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

(12) WELL LOG:

Diameter of well 8 inches

Depth drilled 107 ft. Depth of completed well 107 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	2
Yellow clay	2	56
Yellow clay & gravel	6	62
Coarse sand & gravel	6	68
Cemented gravel	9	77
Sand & gravel	4	81
Cemented gravel	11	92
Loose sand & gravel	3	92
Cemented sand & gravel	5	107/10

Stretch bottom of well to 110
Hand log of Dealer
Leave hanging for Benton
Impound - Park

Work started 7/17/59 19____ Completed 7/29/1959

(13) PUMP:

Manufacturer's Name _____
Type _____

Well Driller's Statement:

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

NAME W. W. Drilling & Pump Service
(Person, firm, or corporation) (Type or print)
Address _____

Driller's well number 7459
[Signed] *Walt Wilson*
(Well Driller)
License No. 268 Date 7/31/59 19____

(USE ADDITIONAL SHEETS IF NECESSARY)

Gravel placed from _____ ft. to _____ ft.

Contractor's License No. _____ Date _____, 19____

(USE ADDITIONAL SHEETS IF NECESSARY)

NOTICE TO WATER WELL CONTRACTOR

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

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

RECEIVED
STATE ENGINEER
SALEM OREGON
FEB 28 1968

WATER WELL REPORT

STATE OF OREGON
(Please type or print)
(Do not write above this line)

RECEIVED
STATE ENGINEER
SALEM OREGON
FEB 28 1968

State Well No. 17/5w-3
State Permit No. LANE

(1) OWNER:

Name Deckers Nursery
Address ALVADORE - ORE.

(2) TYPE OF WORK (check):

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

(3) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

CASING INSTALLED:

Threaded Welded
8" Diam. from ~~10~~ ft. to ~~10~~ ft. Gage ~~1~~
8" Diam. from 107 ft. to 114 ft. Gage .250
" Diam. from ft. to ft. Gage

PERFORATIONS:

Perforated? Yes No.
Type of perforator used Mills
Size of perforations 3/4 in. by 2 in.
350 perforations from 30 ft. to 114 ft.
..... perforations from ft. to ft.
..... 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) WATER LEVEL: Completed well.

Static level 3 ft. below land surface Date 2/14/68
Artesian pressure lbs. per square inch Date

(9) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom?
Yield: 110 gal./min. with 85 ft. drawdown after 1 hrs.
" " " " " "
" " " " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes No

(10) CONSTRUCTION:

Well seal—Material used NOT Disturbed
Depth of seal ft.
Diameter of well bore to bottom of seal in.
Were any loose strata cemented off? Yes No Depth
Was a drive shoe used? Yes No
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.

(11) LOCATION OF WELL:

County Lane Driller's well number 12757
1/4 1/4 Section 3 T. 173R. 5 W. W.M.
Bearing and distance from section or subdivision corner

(12) WELL LOG:

Diameter of well below casing 9
Depth drilled ~~114~~ 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 as drilling proceeds. Note drilling rates.

MATERIAL	From	To	SWL
Started at 110'			
Sand gravel clay	110	120	3'
Blue clay	120	170	
Drill grey clay	120	160	
re-perforated from 30 114			

Work started 2/8 1968 Completed 2/14 1968
Date well drilling machine moved off of well 2/15 1968

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] W.D. John Date 2/15, 1968
(Drilling Machine Operator)

Drilling Machine Operator's License No. 24

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 W.W. DRILLING
(Person, firm or corporation) (Type or print)

Address 2320 MAIN - S. ALVADORE

[Signed] Walt Wilson
(Water Well Contractor)

Contractor's License No. 268 Date Feb. 27, 1968