

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application G-19418
Date: March 11, 2025

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Joe Kemper reviewed the application. Please see Joe's Groundwater Review and the Well Reports.

Applicant's Well #1 (DESC 3023): Based on a review of the Well Report, Applicant's Well #1 seems to protect the groundwater resource.

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

Applicant's Well #4 (DESC 62447): Based on a review of the Well Report, Applicant's Well #4 seems to protect the groundwater resource.

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

Applicant's Well #5 (Proposed): Well #5 is a proposed well, therefore it cannot be reviewed for construction. Construction of this proposed well 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 this well, specific attention should be paid to ensure sealing requirements are met and that the well does not commingle aquifers.

The construction of proposed Well #5 may not satisfy hydraulic connection issues.

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the

DESC 3023

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

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

State Well No. 153/10E-9

State Permit No. G-9979

(1) OWNER:

Name City of Sisters
Address Sisters City Hall
Sisters, Oregon 97759

(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
14" Diam. from + 2 ft. to 100 ft. Gage 250
12" Diam. from 25 ft. to 111 ft. Gage 250
10" Diam. from 0 ft. to 195.6 ft. Gage 250

PERFORATIONS:

Perforated? Yes No.
Type of perforator used ACY. and Machine
Size of perforations 1/4 in. by 6" and 1/4" by 2"
1200 perforations from 50 ft. to 100 ft.
1560 perforations from 95.6 ft. to 195.6 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 Davidson
Was a pump test made? Yes No If yes, by whom? Drilling
Yield: 549 gal./min. with 4 ft. drawdown after 1 1/2 hrs.
902 " 7'4" " 4 "
" 1315 " 5'3" " 1 "
~~Water test~~ PUMP TEST 24 hrs.
_____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.
Temperature of water 46 Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used Cement and Bentonite
Well sealed from land surface to 40 ft.
Diameter of well bore to bottom of seal 18 in.
Diameter of well bore below seal 16 in.
Number of sacks of cement used in well seal 58 sacks
Number of sacks of bentonite used in well seal 150 lbs. sacks
Brand name of bentonite Western
Number of pounds of bentonite per 100 gallons of water 5 1/2 gals. water per 100 lbs. Cement 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? Surface depth of strata 3 feet
Method of sealing strata off casing and grout
Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Daschutas Driller's well number _____
NW 1/4 SW 1/4 Section 9 T. 15 S R. 10 E W.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 105 ft.
Static level 85 ft. below land surface. Date 10/2/75
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 10"
Depth drilled 211 ft. Depth of completed well 211 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
Overburden	0	2	
Cong. Gray	2	21	
Clay and Cong. Brown	21	29	
Lava - Mild	29	111	
Sandstone & Cong. Brown	111	175	
Cong. Gray - Waterbearing	175	195	
Basalt	195	211	

RECEIVED

JAN 05 1976

WATER RESOURCES DEPT.
SALEM, OREGON

Work started 4/3/ 19 75 Completed 10/2 19 75
Date well drilling machine moved off of well 10/3/ 19 75

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] William D. Akers Date 10/15 1975.
(Drilling Machine Operator)
Drilling Machine Operator's License No. 803

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 DAVIDSON DRILLING INC. (Type or print)
(Person, firm or corporation)
Address 626 N.W. Parshall Way Redmond, Ore. 97751
[Signed] David Davidson (Water Well Contractor)
Contractor's License No. 548 Date 10/15/ 19 75

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

DESC 62447

WELL I.D. LABEL# L 138648
START CARD # 1049398
ORIGINAL LOG #

1/20/2021

(1) LAND OWNER

Owner Well I.D.
First Name Last Name
Company CITY OF SISTERS
Address PO BOX 39 525 E. CASCADE AVENUE
City SISTERS State OR Zip 97759

(2) TYPE OF WORK

New Well Deepening Conversion
Alteration (complete 2a & 10) Abandonment (complete 5a)

(2a) PRE-ALTERATION

Casing: Dia + From To Gauge Stl Plstc Wld Thrd
Material From To Amt sacks/lbs
Seal:

(3) DRILL METHOD

Rotary Air Rotary Mud Cable Auger Cable Mud
Reverse Rotary Other

(4) PROPOSED USE

Domestic Irrigation Community
Industrial/ Commercial Livestock Dewatering
Thermal Injection Other MUNICIPAL

(5) BORE HOLE CONSTRUCTION

Special Standard (Attach copy)
Depth of Completed Well 293.00 ft.

Table with columns: Dia, From, To, Material, From, To, Amt, sacks/lbs. Rows include Bentonite Chips and Cement with 5% Bento.

How was seal placed: Method A B C D E

Backfill placed from ft. to ft. Material

Filter pack from ft. to ft. Material Size

Explosives used: Yes Type Amount

(5a) ABANDONMENT USING UNHYDRATED BENTONITE

Proposed Amount Actual Amount

(6) CASING/LINER

Table with columns: Casing, Liner, Dia, From, To, Gauge, Stl, Plstc, Wld, Thrd. Includes rows for 16 and 12 inch diameters.

Shoe Inside Outside Other Location of shoe(s)

Temp casing Yes Dia 20 From 0 To 200

(7) PERFORATIONS/SCREENS

Perforations Method

Screens Type CONTINUOUS WIRE Material 304 SS

Table with columns: Perf/ Screen, Casing/ Liner, Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/ pipe size.

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

Table with columns: Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr). Row 1: 1970, 13, 160, 24.

Temperature 54 F Lab analysis Yes By

Water quality concerns? Yes (describe below) TDS amount 112 ppm

Table with columns: From, To, Description, Amount, Units.

(9) LOCATION OF WELL (legal description)

County DESCHUTES Twp 15.00 S N/S Range 10.00 E E/W WM
Sec 9 SW 1/4 of the NE 1/4 Tax Lot 401
Tax Map Number Lot
Lat " or DMS or DD
Long " or DMS or DD
Street address of well Nearest address

504 S LOCUST ST CREEKSIDE CAMPGROUND WELL#4

(10) STATIC WATER LEVEL

Table with columns: Existing Well / Pre-Alteration, Date, SWL(psi), SWL(ft). Row 1: 1/19/2021, 76.8.

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 102.00

Table with columns: SWL Date, From, To, Est Flow, SWL(psi), SWL(ft). Rows include dates 10/14/2020, 10/19/2020, 1/11/2021.

(11) WELL LOG

Ground Elevation

Table with columns: Material, From, To. Lists various geological layers like SANDY PUMICE AND GRAVEL, GRAY AND BROWN LAVA, etc.

Date Started 10/12/2020 Completed 1/19/2021

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards.

License Number 1852 Date 1/19/2021

Signed JEB ABBAS (E-filed)

(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above.

License Number 1720 Date 1/20/2021

Signed JACK ABBAS (E-filed)

Contact Info (optional) JACK ABBAS

WATER SUPPLY WELL REPORT - continuation page

DESC 62447

WELL I.D. LABEL# L

138648

START CARD #

1049398

1/20/2021

ORIGINAL LOG #

(2a) PRE-ALTERATION

Table with columns: Dia, +, From, To, Gauge, Stl, Plstc, Wld, Thrd. Includes diagrams of pipe sections and a summary table with columns: Material, From, To, Amt, sacks/lbs.

(5) BORE HOLE CONSTRUCTION

Table for bore hole construction with columns: BORE HOLE (Dia, From, To), SEAL (Material, From, To, Amt), sacks/lbs. Includes rows for Bentonite Chips and Cement with 5% Bentonite.

FILTER PACK

Table with columns: From, To, Material, Size.

(6) CASING/LINER

Table with columns: Casing Liner, Dia, +, From, To, Gauge, Stl, Plstc, Wld, Thrd. Includes diagrams of casing sections.

(7) PERFORATIONS/SCREENS

Table with columns: Perf/Screen, Casing/Screen Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/pipe size.

(8) WELL TESTS: Minimum testing time is 1 hour

Table with columns: Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr).

Water Quality Concerns

Table with columns: From, To, Description, Amount, Units.

(10) STATIC WATER LEVEL

Table with columns: SWL Date, From, To, Est Flow, SWL(psi), +, SWL(ft).

(11) WELL LOG

Table with columns: Material, From, To. Starts with HARD GRAY BASALT from 280 to 293.

Comments/Remarks

Large empty rectangular box for comments and remarks.