Approved: 

MEMO

To: Kristopher Byrd, Well Construction Manager

From: Tommy Laird, Well Construction Program Coordinator

Subject: Review of Water Right Application G-19448

Date: May 13, 2025

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

Applicant's Well #Roth Well (MARI 55650): Based on a review of the Well Report, Roth Well does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). As indicated on the Well Report, the amount of cement used in the well seal is not provided. In order to meet minimum construction standards, the well must be resealed with an approved grout.

My recommendation is that the Department not issue a permit for Roth Well 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 Roth Well may not satisfy hydraulic connection issues.

Applicant's Well #Kuenzi Well (MARI 61370): Based on a review of the Well Report, Applicant's Well Kuenzi Well seems to protect the groundwater resource.

The construction of Kuenzi Well may not satisfy hydraulic connection issues.

Applicant's Well #Zeek Well (MARI 64807): Based on a review of the Well Report, Applicant's Well Zeek Well seems to protect the groundwater resource.

The construction of Zeek Well may not satisfy hydraulic connection issues.

Applicant's Well #Proposed Well 1 through Proposed Well 3 (Proposed): Proposed Well 1 through Proposed Well 3 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 1 through Proposed Well 3 may not satisfy hydraulic connection issues.

MARI 55650

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WELL ID # L N/A
START CARD # 65257

(1) OWNER:
Well Number: _____
Name: Cecil Roth
Address: 4551 Howell Prarie Rd
City: Silverton State: OR Zip: 97381

(2) TYPE OF WORK: (repair/
☒New Well ☐Deepening ☐Alteration recondition) ☐Abandonment

(3) DRILL METHOD:
☒Rotary Air ☐Rotary Mud ☐Cable ☐Auger
☐Other: _____

(4) PROPOSED USE:
☐Domestic ☐Community ☐Industrial ☒Irrigation
☐Thermal ☐Injection ☐Livestock ☐Other _____

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐Yes ☒No
Depth of Completed Well 240
Explosives Used ☐Yes ☒No Type --- Amount ---

HOLE Diameter	From	To	Material	SEAL From	To	sacks or pounds
14	0	178	Cement	0	178	
10	178	240	---	---	---	---

How was seal placed: Method ☐A ☐B ☒C ☐D ☐E
☐ Other _____
Backfill placed from --- to --- Material ---
from--- to --- Material ---
Gravel placed from--- to --- Size of gravel ---

(6) CASING/LINER:
CASING:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
10	+1.25	178	.250	☒	☐	☒	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐

LINER:

				☐	☐	☐	☐
				☐	☐	☐	☐

Final location of Shoe(s): N/A

(7) PERFORATIONS/SCREENS:
☐ Perforations Method: _____
☐ Screen Type: _____ Material: _____

From	To	Slot Size	No.	Tele/pipe Diameter	size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gpm	Drawdown	Drill Stem at	Time
500	N/A	240	1 hr.

Temperature of water 56 Depth Artesian Flow Found --
Was a water analysis done? --- By whom: ---
Did any strata contain water not suitable for intended use? (explain)

Depth of Strata: ---

(9) LOCATION OF WELL by legal description:
County: Marion Latitude: _____ Longitude: _____
Township: 7S Range: 2W
Section: 34 SE ¼ NW ¼
Tax Lot: N/A Lot: _____ Block: _____ Subdivision: _____
Street Address of Well (or nearest address) _____
6800 State St

(10) STATIC WATER LEVEL:
35 Ft. below land surface Date 9/27/94
Artesian pressure _____ lb. per sq. in. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 84'

From	To	Est. Flow Rate	SWL
84	115	10 GPM	28
135	165	40 GPM	28
186	189	200 GPM	35
199	121	300 GPM	35

(12) WELL LOG: Ground Elevation: _____

Material	From	To	SWL
Top Soil	0	2	
Clay Gray	2	13	
Sandstone Brown & Green Crumbly	13	84	
Sandstone Gray & Green Hard w/ Basalt	84		
Streak		115	28
Basalt Gray Broken	115	125	28
Weathered Basalt Crumbly & Fractured	125	165	
Basalt Black Hard w/Fractures	165	186	
Basalt Black Pourous	186	189	35
Basalt Black Med w/Fractures	189	193	
Basalt Gray Hard	193	199	
Basalt Gray Visichlor Fractured	199	121	35
Basalt Gray Hard	212	217	
Basalt Gray Visichlar Brown w/Claystone	217	234	
Claystone Blue Gray Soft	234	240	

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SALEM, OREGON

Date Started: 9/24/94 Completed: 9/28/94

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration,, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
Signed _____ WWC Number 1358
Date 10/15/94

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed _____ WWC Number 1358
Date 10/15/94

ORIGINAL & FIRST COPY - Water Resources Department SECOND COPY - Constructor THIRD COPY - Customer

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

WELL LABEL # L 87491
START CARD # 171675

(1) LAND OWNER

Owner Well I.D.
First Name MYRON Last Name KUENZI
Company
Address 6500 STATE ST
City SALEM State OR Zip 97301

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Conversion
[ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD

[X] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger [ ] Cable Mud
[ ] Reverse Rotary [ ] Other

(4) PROPOSED USE

[ ] Domestic [X] Irrigation [ ] Community
[ ] Industrial/ Commericial [ ] Livestock [ ] Dewatering
[ ] Thermal [ ] Injection [ ] Other

(5) BORE HOLE CONSTRUCTION

Special Standard [ ] (Attach copy)
Depth of Completed Well 445 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
12	0	27	Cement	0	27	26	S
10	27	223	Cement	143	223	16	S
8	223	445					

How was seal placed: Method [ ] A [ ] B [X] C [X] D [ ] E
[ ] Other
Backfill placed from 27 ft. to 143 ft. Material cement 18 sacks
Filter pack from ft. to ft. Material Size
Explosives used: [ ] Yes Type Amount

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
(•)	( )	8	[X]	2	223	.250	(•)	( )	[X]	[ ]
( )	( )		[ ]				( )	( )	[ ]	[ ]
( )	( )		[ ]				( )	( )	[ ]	[ ]
( )	( )		[ ]				( )	( )	[ ]	[ ]
( )	( )		[ ]				( )	( )	[ ]	[ ]

Shoe [ ] Inside [ ] Outside [ ] Other Location of shoe(s)
Temp casing [ ] Yes Dia From To

(7) PERFORATIONS/SCREENS

Perforations Method
Screens Type Material

Perf/Screen	Casing/ Liner	Screen 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

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
250		444	2

Temperature 53 °F Lab analysis [ ] Yes By
Water quality concerns? [ ] Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County MARION Twp 7 S N/S Range 2 W E/W WM
Sec 34 NE 1/4 of the SW 1/4 Tax Lot 300
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
(•) Street address of well ( ) Nearest address
1074 62ND AVE NE SALEM OR

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening				
Completed Well	12-28-2007			46.5

Flowing Artesian? [ ] Dry Hole? [ ]

WATER BEARING ZONES Depth water was first found 150

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
12-20-2007	150	171	50			42
12-28-2007	269	445	300			46.5

(11) WELL LOG

Ground Elevation

Material	From	To
Top soil	0	4
Brown clay	4	10
Large broken boulders	10	17
Broken gray basalt	17	22
Red cinders basalt	22	35
Gray basalt	35	43
black basalt	43	47
Gray basalt	47	150
Broken gray basalt	150	171
Gray basalt	171	269
Semi-porous gray basalt	269	329
Medium hard gray basalt with lots of small fractures	329	445

Date Started 12-08-2007 Completed 12-28-2007

(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. Materials used and information reported above are true to the best of my knowledge and belief.

License Number 1629 Date 01-03-2008
Password : (if filing electronically)
Signed

(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. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1273 Date 01-03-2008
Password : (if filing electronically) ****
Signed Floyd Sipe
Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version: 0.89

MARION 64807

Page 1 of 2

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

WELL I.D. LABEL# L 81986
START CARD # 209642
ORIGINAL LOG # MARION

(1) LAND OWNER
Owner Well I.D.
First Name CARL & ANN Last Name JENSEN
Company JENSEN FAMILY FARMS
Address 7157 STATE ST NE
City SALEM State OR Zip 97371

(2) TYPE OF WORK
[X] New Well [ ] Deepening [ ] Conversion [ ] Alteration (complete 2a & 10) [ ] Abandonment(complete 5a)

(2a) PRE-ALTERATION
	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
Casing:									

	Material	From	To	Amt	sacks/lbs
Seal:					

(3) DRILL METHOD
[X] Rotary Air [X] Rotary Mud [ ] Cable [ ] Auger [ ] Cable Mud
[ ] Reverse Rotary [ ] Other

(4) PROPOSED USE
[ ] Domestic [X] Irrigation [ ] Community
[ ] Industrial/ Commericial [ ] Livestock [ ] Dewatering
[ ] Thermal [ ] Injection [ ] Other

(5) BORE HOLE CONSTRUCTION
Special Standard [ ] (Attach copy)
Depth of Completed Well 505.00 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
17.5	0	50	Bentonite Chips	0	50	61	S
17.5	50	90	Bentonite Chips	50	90	30	S
17.5	90	107	Cement	90	107	50	S
12	107	465					

How was seal placed: Method [ ] A [X] B [X] C [ ] D [ ] E
[X] Other BRADEN METHOD/CHIP Poured
Backfill placed from 50 ft. to 90 ft. Material BENT CHIPS
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

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
●		12	X	3	107	.250	●		X	

Shoe [ ] Inside [ ] Outside [ ] Other Location of shoe(s)
Temp casing [X] Yes Dia 20 From 0 To 18

(7) PERFORATIONS/SCREENS
Perforations Method
Screens Type Material

Perf/ Screen	Casing/ Screen 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

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
500		100	3
500	45	200	4

Temperature 54 °F Lab analysis [ ] Yes By
Water quality concerns? [ ] Yes (describe below) TDS amount 0.04

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)
County MARION Twp 7.00 S N/S Range 1.00 W E/W WM
Sec 28 NW 1/4 of the SW 1/4 Tax Lot 200
Tax Map Number Lot
Lat ° ' " or DMS or DD
Long ° ' " or DMS or DD
( ) Street address of well (●) Nearest address
1291 62 ST SE SALEM OR. 97301

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Pre-Alteration				
Completed Well	5/15/2013			24

Flowing Artesian? [ ] Dry Hole? [ ]

WATER BEARING ZONES Depth water was first found 49.00

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
5/24/2013	49	101	100			14
5/30/2013	116	505	500			24

(11) WELL LOG
Ground Elevation

Material	From	To
Top soil	0	3
Clay sticky brown	3	6
Clay silty brown (old river bed)	6	14
Clay med brown	14	42
Gravel, conglomerate brn & grey dry	42	49
Cemented tight, large conglomerate 2-3"	49	72
Loose sand, some gravel mix brown & grey	72	101
Basalt altered cap rock brn-yellow-blk	101	102
Basalt hard blk	102	116
Basalt altered brn-red (iron innerbeds	116	124
Basalt hard blk	124	231
Basalt med altered brn-blk-red	231	250
Basalt hard blk	250	319
Basalt hard grey	319	330
Basalt med blk	330	337
Basalt blk med	337	342
Basalt blk hard	342	411
Basalt blk med	411	451
Basalt fract med blk	451	465

Date Started 4/10/2013 Complete 5/15/2013

(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. Materials used and information reported above are to the best of my knowledge and belief.

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License Number Date
Signed

(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. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 723 Date 6/18/2013
Signed CHARLES STADELI (E-filed)
Contact Info (optional) Chuck Stadeli 503-551-1930

ORIGINAL - WATER RESOURCES DEPARTMENT
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WATER SUPPLY WELL REPORT - continuation page

WELL I.D. LABEL# L 81986
START CARD # 209642
ORIGINAL LOG # MARION

(2a) PRE-ALTERATION

Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

Material	From	To	Amt	sacks/lbs

(5) BORE HOLE CONSTRUCTION

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/lbs
8	465	505					

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(7) PERFORATIONS/SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn/slot width	Slot length	# of slots	Tele/ pipe size

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

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) WELL LOG

Material	From	To
Basalt more fractured hard blk	465	501
~~Basalt more fractured blk~~ 0.5 gpm	~~465~~	~~501~~
Basalt loose very fracty blk	501	505

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SALEM, OREGON

Comments/Remarks

Air test on 5-14-2013
Pump test on 5-17-2013
L.S.