

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application G-19146
Date: June 3, 2024

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

Applicant's Well #1 (MARI 54600): 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 #2 (MARI 7750): 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 according to the Water Supply Well Report, the well is not sealed to the proper depth. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 158 feet bgs.

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 construction of Well #2 may not satisfy hydraulic connection issues.

Applicant's Well #3 (MARI 16624): Based on a review of the Well Report, Well #3 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that according to the Water Supply Well Report, the well is not sealed to the proper depth. In order to meet minimum construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 104 feet bgs.

My recommendation is that the Department **not issue** a permit for Well #3 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 construction of Well #3 may not satisfy hydraulic connection issues.

Applicant's Well #4 (MARI 15392): 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 and Well #6 (Proposed): Well #5 and Well #6 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 #5 and Well #6 may not satisfy hydraulic connection issues.

Applicant's Well #7 (MARI 58808): Based on a review of the Well Report, Applicant's Well #7 seems to protect the groundwater resource.

The construction of Well #7 may not satisfy hydraulic connection issues.

Applicant's Well #8 (MARI 4414): Based on a review of the Well Report, Well #8 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that according to the Water Supply Well Report, the well is not sealed to the proper depth. 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 bgs.

My recommendation is that the Department **not issue** a permit for Well #8 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 construction of Well #8 may not satisfy hydraulic connection issues.

MARI 54600

FEB 04 2000

Pg 1 of 2

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

WATER RESOURCES DEPT. SALEM, OREGON

WELL I.D. # L 31926 START CARD # 121164

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number Name Myron Kuenzi Address 6500 State St City Salem State OR Zip 97301

(2) TYPE OF WORK [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

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

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

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 400. Explosives used [] Yes [X] No Type Amount

Table with columns: HOLE Diameter, SEAL Material, Sacks or pounds. Includes rows for 14, 13 1/2, 12, 10 diameters and Cement, bent Sacks 5.

How was seal placed: Method [] A [] B [X] C [X] D [] E [] Other

Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Includes rows for 10 in casing and 8 in liner.

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes row for 295 to 395 slot size.

(8) WELL TESTS: Minimum testing time is 1 hour. [] Pump [] Bailer [X] Air [] Artesian. Yield gal/min 450+, Drawdown, Drill stem at 399, Time 1 hr.

Temperature of water 54 Depth of strata: Was a water analysis done? [] Yes [] No Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other

(9) LOCATION OF WELL by legal description: County Marion Latitude Longitude Township 7-S N or S Range 2-W E or W. WM. Section 34 NE 1/4 NE 1/4 Tax Lot 00500 Lot Block Subdivision Street Address of Well (or nearest address) 585 74th Ave SE Salem OR

(10) STATIC WATER LEVEL: 73 ft. below land surface. Date 1-28-00 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 8 ft

Table with columns: From, To, Estimated Flow Rate, SWL. Includes rows for 8, 20, 78, 195 and 8, 40, 84, 397.

(12) WELL LOG: Ground Elevation

Table with columns: Material, From, To, SWL. Includes rows for Top Soil, Red + brown Clay, Decomposed basalt with broken Claystone - caving, Red + brown Clay, Decomposed basalt with brown Clay, Weathered basalt with red + brown clay, Gray basalt Firm, Red + brown cinders with weathered basalt, Black basalt, Weathered basalt, Black basalt, Gray basalt, Black basalt simi-fractured.

Date started 1-10-00 Completed 1-28-00

(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 [Signature] WWC Number 1629 Date 1-28-00

(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 [Signature] WWC Number 1273 Date 1-28-00

RECEIVED

MARI
54600

FEB 04 2000

Pg 2 of 3

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

WELL I.D. # L. 31926
START CARD # 121164

WATER RESOURCES DEPT.
SALEM, OREGON

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____
Name Myron Kuenzi
Address 6500 State St
City Salem State OR Zip 97301

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/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 400 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

How was seal placed: Method A B C D E
 Other

Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem at Time
_____ 1 hr.

Temperature of water _____ Depth Artesian _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County Marion Latitude _____ Longitude _____
Township 7-S N or S Range 2-W E or W. WM.
Section 34 NE 1/4 NE 1/4
Tax Lot 00500 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 585 74th Ave SE Salem

(10) STATIC WATER LEVEL:
73 ft. below land surface. Date 1-28-00
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found _____

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
Gray basalt Simi-fractured	177	195	
Weathered basalt	195	226	
Black basalt soft	226	230	
Fractured black basalt with claystone layers	230	266	
Black basalt fractured	266	290	
Weathered basalt	290	309	
Soft black basalt with weathered seams	309	366	
Black basalt Simi-fractured	366	378	
Black basalt with fractured seams	378	392	
Gray basalt very fractured	392	397	
Soft gray basalt	397	400	

Date started 1-10-00 Completed 1-28-00

(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 1629
Date 1-28-00

(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 Floyd G. Sipe WWC Number 1273
Date 1-28-00

RECEIVED

MAR 24 2000

WATER RESOURCES DEPT.
SALEM, OREGON

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

RECEIVED MAR 7 7:50

JUL - 2 1986 PLEASE TYPE or PRINT IN INK

7/3/2W-27dc

WATER RESOURCES DEPT
SALEM, OREGON

(for official use only)

(1) OWNER:

Name Carl Jensen Jr.
 Address 6532 Howell Prairie Rd. NE
 City Salem State Or.

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air Driven
 Rotary Mud Dug
 Cable Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
 Irrigation Thermal:
 Other: Withdrawal Reinjection
 Piezometric Grounding Test

(5) CASING INSTALLED:

Steel Threaded Plastic Welded
 12" Diam. from + 1 ft. to 160 ft. Gauge .250
 " Diam. from ft. to ft. Gauge

LINER INSTALLED:

Steel Threaded Plastic Welded

(6) PERFORATIONS:

Perforated? Yes No
 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: Air 500-600 gal./min. with ft. drawdown after hrs.
 Air test 500-600 gal./min. with drill stem at 350 ft. 2 hrs.
 Bailer test gal./min. with ft. drawdown after hrs.
 Artesian flow g.p.m.
 Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes No
 Well seal—Material used Cement grout
 Well sealed from land surface to 20 & 12 bags @ 150-160' ft.
 Diameter of well bore to bottom of seal 16" in.
 Diameter of well bore below seal 12" in.
 Amount of sealing material 47 sacks pounds
 How was cement grout placed? Pumped with dia. pump thru 2" pipes, up to 150', gravel 3/4" from 150 up to 20' Cement to 1s
 Was pump installed? NO Type HP Depth ft.
 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 by legal description:

County Marion SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 27 of
 Township T7S, Range 2W, WM.
 (Township is North or South) (Range is East or West)

Tax Lot Lot Block Subdivision

MAILING ADDRESS OF WELL (or nearest address) 1 1/2 miles west of Howell Prairie Rd. on North side of State St.

(11) WATER LEVEL OF COMPLETED WELL:

Depth at which water was first found 55 ft.
 Static level 70 ft. below land surface. Date 6-27-86
 Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 12"
 Depth drilled 400 ft. Depth of completed well 400 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
Soil med brown	0	2	
Clay med brown	2	20	
Clay brwn, gravel mix	20	39	
Clay med brown	39	55	
Cemented gravel tight	55	81	H2o
Sand med gray	81	86	
Conglomerate grey	86	147	
Decomposed cap rock red	147	153	
Basalt hard grey	153	162	
Weatherd basalt brn-red	162	201	
Basalt hard grey-fract	201	206	H2O
Basalt med hard blk	206	242	H2O
Basalt hard grey	242	291	
Basalt hard semi fract	291	325	H2O
Basalt hard gry-fract	325	338	H2O
Basalt visic gry	338	375	H2O
Basalt hard gry	375	398	
Basalt fract grey	398	400	

Date work started 6-13-86 /completed 6-27-86
 Date well drilling machine moved off of well 6-27-86 19

(unbonded) Water Well Constructor Certification (if applicable):

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

[Signed] Date , 19

(bonded) Water Well Constructor Certification:

Bond (number) Issued by: (Surety Company Name)
 On behalf of Staco Well Services, Inc. (type or print name of Water Well Constructor)

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

(Signed) Chuck Stadeli (Water Well Constructor)

(Dated) 6-30-86

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

WATER RESOURCES DEPARTMENT,
 SALEM, OREGON 97310
 within 30 days from the date of well completion.

SP*46866-690

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

RECEIVED
 JUN 8 1989

RECEIVED
 MAR 21 1989
 16621
 7/20/356

WATER RESOURCES DEPT

(START CARD) # 9141

(1) OWNER: Well Number: **EM. OREGON**

Name **PFENNIG FARMS**
 Address **6092 Macleay Road S.E.**
 City **Salem** State **Oregon** Zip **97301**

(2) TYPE OF WORK:

New Well Deepen Recondition Abandon

(3) DRILL METHOD

Rotary Air Rotary Mud Cable
 Other

(4) PROPOSED USE:

Domestic Community Industrial Irrigation
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well **258** ft.
 Yes No XX

Explosives used Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
12"	0'	79'	Cement	0'	79'	38
8"	79'	258'				

How was seal placed: Method A B C D E

Other _____

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 8"	+1'	79'	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 6"	-4'	258'	PVC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			SDR 26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method **Electric Drill**
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
223'	258'		250	1/2" Round		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
250		252 Ft	1 hr.

Temperature of water _____ Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County **Marion** Latitude _____ Longitude _____
 Township **7 South** N or S, Range **2 West** E or W, WM.
 Section **35** SW 1/4 NW 1/4
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) _____
7505 Babcock Salem, Oregon

(10) STATIC WATER LEVEL:

105 ft. below land surface. Date **6-3-89**
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found **136 Feet**

From	To	Estimated Flow Rate	SWL
136 Ft	252 Ft	250 GPM	105'

(12) WELL LOG:

Ground elevation _____

Material	From	To	SWL
Soil	0	2	
Brown Clay	2	14	
Large Boulder	14	21	
Weathered Rock	21	70	
Gray Basalt Firm	70	86	
Multi-Colored Weathered Rock	86	99	
Black Basalt	99	124	
Gray Basalt Firm	124	136	
Black Basalt Medium WB	136	187	
Black Broken Basalt	187	203	
Gray Basalt Very Firm	203	246	
Gray Broken Basalt WB	246	252	
Gray Basalt Firm	252	258	105'

Air Test May Fluctuate.
 5% Bentonite Used To Seal Well.

Date started **5-31-890** Completed **6-3-89**

(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 well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number _____
 Signed _____ Date _____

(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 well construction standards. This report is true to the best of my knowledge and belief. **MONDERS DRILLING, INC.** WWC Number **1325**

Signed **D. Monders** Date **6-3-89**

OCT - 5 1990

WATER RESOURCES DEPT. SALEM, OREGON

Marion 15392

MS/20/25cb

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

(START CARD) # 24858

(1) OWNER: Name Randall Steffen Well Number: Address 5041 Strand Dr. City Silverton State OR Zip 97381

(2) TYPE OF WORK: [X] New Well [] Deepen [] Recondition [] Abandon

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

(4) PROPOSED USE: [] Domestic [] Community [] Industrial [X] Irrigation [] Thermal [] Injection [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval Yes No Depth of Completed Well 347 ft. Explosives used [] [X] Type Amount

Table with columns: HOLE Diameter, From, To, SEAL Material, From, To, Amount sacks or pounds

How was seal placed: Method [] A [] B [X] C [] D [] E Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded

Final location of shoets)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner

(8) WELL TESTS: Minimum testing time is 1 hour. Table with columns: Yield gal/min, Drawdown, Drill stem at, Time

Temperature of water Depth Artesian Flow Found Was a water analysis done? Did any strata contain water not suitable for intended use? Depth of strata:

(9) LOCATION OF WELL by legal description: County Marion Township 7S N or S. Range 2W E or W, WM. Section 25 NW 1/4 SW 1/4

(10) STATIC WATER LEVEL: 55 ft. below land surface. Date 9-28-90

(11) WATER BEARING ZONES: Table with columns: From, To, Estimated Flow Rate, SWL

(12) WELL LOG: Table with columns: Material, From, To, SWL

Date started 9-25-90 Completed 9-28-90

(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 well construction standards.

(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.

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

36728 S. Kropf Rd. Molalla, OR 97038

WELL ID. # L 71454

829-2526

START CARD # 171839

Instructions for completing this report are on the last page of this form.

(1) LAND OWNER Name Carl Jensen Farms Well Number Address 6532 Howell Prairie Rd. NE City Silverton State OR Zip 97381

(2) TYPE OF WORK [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment [] Conversion

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

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

(5) BORE HOLE CONSTRUCTION Special Construction: [] Yes [X] No Depth of Completed Well 239 ft. Explosives used: [] Yes [X] No Type Amount

Table with columns: BORE HOLE (Diameter, From, To, Material, Sacks or Pounds) and SEAL (From, To, Sacks or Pounds). Row 1: 16" diameter, 0-58 ft, Cement, 48 sacks.

How was seal placed: Method [] A [] B [X] C [] D [] E Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing: 12" diameter, +1.5 ft, 238 ft, .250 gauge, Steel [X], Plastic [], Welded [X], Threaded [].

Drive Shoe used [] Inside [X] Outside [] None Final location of shoe(s) 238'

(7) PERFORATIONS/SCREENS [X] Perforations Method Holte air perforator [] Screens Type Material From 150 To 230 Slot Size 1/4x2 Number 3840 Diameter Tele/pipe size Casing Liner

(8) WELL TESTS: Minimum testing time is 1 hour [X] Pump [] Bailer [] Air [] Flowing Artesian Yield gal/min 960 Drawdown 35' Drill stem at 4 hr. Time

Temperature of water 54 Depth Artesian Flow Found Was a water analysis done? [] Yes By whom Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other Depth of strata:

(9) LOCATION OF WELL (legal description) County Marion Tax Lot 100 Lot Township 6 S Range 2 W WM Section 24 NE 1/4 SE 1/4

Lat Long Street Address of Well (or nearest address) 7832 Howell Prairie Rd. NE Silverton, OR 97381

(10) STATIC WATER LEVEL 58 ft. below land surface. Date 3-1-05

(11) WATER BEARING ZONES Table with columns: From, To, Estimated Flow Rate, SWL. Row 1: 110-230 ft, >1000 gpm, 58'

(12) WELL LOG Table with columns: Material, From, To, SWL. Rows include: Clay silty brown (2-20), Clay silty blue (20-45), Clay grey sticky w/ siltstone (45-64), Siltstone brown (64-85), Cemented sand w/ gravel (85-93), Sand & gravel brown (93-110), Sand & gravel loose (110-116), Brown sand med (116-118), Cemented gravel (118-124), Sand brown w/ gravel (124-128), Cemented gravel brown (128-148), Cemntd gravel brn water bearing (148-175), Cemented gravel brn dry (175-180), Cemntd gravel brn water bearing (180-196)

(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.

WWC Number 1358 Date 3-17-05 Signed [Signature]

(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.

WWC Number 688 Date 3-17-05 Signed [Signature]

RECEIVED

Westerberg Drilling, Inc.
36728 S. Kropf Rd.
Molalla, OR 97038
829-2526

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

WELL I.D. # L 71454

START CARD # 171839

Instructions for completing this report are on the last page of this form.

(1) LAND OWNER
Name Carl Jr. Farms
Address 7157 State St. NE
City Salem State OR Zip 97301

(2) TYPE OF WORK
[] Deepening [] Alteration (repair/recondition) [] Abandonment [] Conversion
[X] New Well

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

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

(5) BORE HOLE CONSTRUCTION Special Construction: [] Yes [X] No
Depth of Completed Well 239 ft.
Explosives used: [] Yes [X] No Type Amount

Table with columns: BORE HOLE (Diameter, From, To), SEAL (Material, From, To), Sacks or Pounds. Row 1: 16" 0 58, Cement 0 58, 48 sacks. Row 2: 12" 58 239.

How was seal placed: Method [] A [] B [X] C [] D [] E
[] Other

Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing: 12" +1.5 238 250. Liner: None.

Drive Shoe used [] Inside [X] Outside [] None
Final location of shoe(s) 238'

(7) PERFORATIONS/SCREENS
[X] Perforations Method Holte air perforator
[] Screens Type Material

Table with columns: From, To, Slot Size, Number, Diameter, Tele/pipe size, Casing, Liner. Row 1: 150 230 1/4x2 3840.

(8) WELL TESTS: Minimum testing time is 1 hour
[X] Pump [] Bailer [] Air [] Flowing Artesian
Yield gal/min 960 Drawdown 35' Drill stem at 4 hr. Time

Temperature of water 54 Depth Artesian Flow Found
Was a water analysis done? [] Yes By whom
Did any strata contain water not suitable for intended use? [] Too little
[] Salty [] Muddy [] Odor [] Colored [] Other
Depth of strata:

(9) LOCATION OF WELL (legal description)
County Marion
Tax Lot 100 Lot
Township 6 S Range 2 W WM
Section 24 NE 1/4 SE 1/4

Lat " or (degrees or decimal)
Long " or (degrees or decimal)

Street Address of Well (or nearest address) 7832 Howell Prairie Rd. NE
Silverton, OR 97381

(10) STATIC WATER LEVEL
58 ft. below land surface. Date 3-1-05

ft. below land surface. Date
Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES
Depth at which water was first found 110'

Table with columns: From, To, Estimated Flow Rate, SWL. Row 1: 110 230 >1000 gpm 58'

(12) WELL LOG Ground Elevation

Table with columns: Soil, Material, From, To, SWL. Rows include Clay silty brown, Clay silty blue, Clay grey sticky w/ siltstone, etc.

Date Started 2-21-05 Completed 3-1-05

(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.

WWC Number 1358 Date 3-17-05
Signed [Signature]

(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.

WWC Number 688 Date 3-17-05
Signed [Signature]



