

OBSERVATION WELL

DESC 5749

WELL 2

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

WATER WELL REPORT

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

STATE OF OREGON (Please type or print)

State Well No. 19/11-32 N

State Permit No. G-4064

(1) OWNER:

Name Sunriver Properties Inc. Address 264 Irving St. Bend, Oregon

(2) LOCATION OF WELL: Well #2

County Deschutes Section 32 T.19S R.11E W.M. Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

Cleaned Well Deepening Reconditioning Abandonment

(4) PROPOSED USE (check):

Domestic Industrial Municipal Irrigation Test Well Other

(5) TYPE OF WELL:

Rotary Cable Dug Driven Jetted Bored

(6) CASING INSTALLED:

Threaded Welded Diam. from ft. to ft. Gage

(7) PERFORATIONS:

Perforated? Yes No Type of perforator used Size of perforations in. by in. perforations from ft. to ft.

(8) SCREENS:

Well screen installed? Yes No Manufacturer's Name Model No. Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Well seal—Material used in seal Depth of seal ft. Was a packer used? Diameter of well bore to bottom of seal in. Were any loose strata cemented off? Yes No Depth

(10) WATER LEVELS:

Static level 6 1/2 ft. below land surface Date 5-12-67 Artesian pressure lbs. per square inch Date

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level Was a pump test made? Yes No If yes, by whom? Inglis Yield: 1200 gal./min. with 43 1/2 ft. drawdown after 4 hrs.

(12) WELL LOG:

Diameter of well below casing 12" Depth drilled 266 ft. Depth of completed well 266 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.

Table with columns MATERIAL, FROM, TO. Entries include: Cleaned debris out of well, About 254ft casing in well, Finished in course sand and fine gravel.

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WATER RESOURCES DEPT SALEM, OREGON

Work started 5-10-67 19 Completed 5-11-67 19 Date well drilling machine moved off of well 5-12-67 19

(13) PUMP:

Manufacturer's Name Type: H.P.

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 Reed's Well Drilling (Person, firm or corporation) (Type or print)

Address 1142 Galveston Ave., Bend, Oregon

Drilling Machine Operator's License No. 400

[Signed] Lloyd Reed (Water Well Contractor)

Contractor's License No. 443. Date 5-20-67, 19

19/11-32 N
Dschutu

GROUND WATER IN THE BEND AREA

C. Occurrence and Use of Ground Water

Well No. 12

Source of information: R. J. Strasser

Drilled for: Camp Abbott

Drilled by: R. J. Strasser

Date: January 1943

Location: Camp Abbott (Same as No. 11)

Elevation: Approximately 4200 feet above sea level

Total Depth: 312 feet

Casing 254' to 312' - 12" diameter

Aquifer: Sand and gravel

Yield: Ample

DRILLERS LOG

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>
0	3	Top soil
3	6	Sand, Clay
6	8	Clay
8	54	Sand and Gravel
54	63	Black lava
63	71	Gray lava
71	76	Sandy lava
76	85	Black lava
85	93	Gray sandy lava
93	95	Hard rock
95	97	Clay and gravel
97	108	Blue lava
108	111	Red clay
111	117	Black lava
117	120	Red lava, soft
120	131	Sandstone and black lava
131	135	Black lava
135	147	Blue lava
147	150	Sandy lava
150	165	Black lava
165	175	Clay and gravel
175	186	Lava, sandy
186	202	Black lava hard
202	207	Black lava soft
207	212	Black lava hard
212	213	Red clay
213	222	Black lava hard
222	231	Hard sand
231	240	Sand and lava
240	312	Sand and gravel

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WATER RESOURCES DEPT
SALEM, OREGON

1011672

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

APR 20 1985

PLEASE TYPE OR PRINT IN INK

WATER RESOURCES DEPT

DESC 5744

WELL 9

(for official use only)

(1) OWNER:

SALEM, OREGON

Name Sunriver Utilities Company
 Address Water Department
 City Sunriver State Oreg. 97707

(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
 Community Thermal: Irrigation Withdrawal ReInjection
 Other: Piezometric Grounding Test

(5) CASING INSTALLED:

Steel Plastic
 Threaded Welded
 14" Diam. from 2 ft. to 170 ft. Gauge 250
 " Diam. from 161 ft. to 484 ft. Gauge 250

LINER INSTALLED:

see above
 Steel Plastic
 Threaded Welded

(6) PERFORATIONS:

Perforated? Yes No
 Size of perforations 1/8 in. by 3 in.
 1850 perforations from 484 ft. to 384 ft.
 370 perforations from 364 ft. to 344 ft.
 370 perforations from 304 ft. to 284 ft.

(7) SCREENS:

710 1/8 by 3" 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.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? Yes No If yes, by whom? Contractor
1900 gal./min. with 93 ft. drawdown after 2 hrs.
 Air test _____ gal./min. with drill stem at _____ ft. _____ hrs.
 Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Artesian flow _____ g.p.m.
 Temperature of water 52* Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Special standards: Yes No

Well seal—Material used Portland Cement
 Well sealed from land surface to 55 ft.
 Diameter of well bore to bottom of seal 19 in.
 Diameter of well bore below seal 16 in.
 Amount of sealing material 70 sacks pounds
 How was cement grout placed? Pressure Grout

Was pump installed? NO Type _____ H _____ 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 OCT 09 2013
 Method of sealing strata off _____
 Was well gravel packed? Yes No
 Gravel placed from _____ ft. to SALEM, OREGON

(10) LOCATION OF WELL by legal description:

County Deschutes SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 of
 Township 19S Range 11E WM.
 (Township is North or South) (Range is East or West)
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 MAILING ADDRESS OF WELL (or nearest address) unknown

(11) WATER LEVEL of COMPLETED WELL:

Depth at which water was first found 35 ft.
 Static level 27 ft. below land surface. Date 7-25-85
 Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 8"

Depth drilled 558 ft. Depth of completed well 558 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
Top-Soil	0	2	
Boulders & Clay	2	32	
Gravels (Black)	32	35	
Black Lava	35	42	
Broken Lava	42	50	
Black Lava	50	70	
Black Sand	70	83	
Red Lava	83	105	
Broken Black Lava	105	140	
Black Lava	140	148	
Red Clay & Rocks	148	160	
Black Gravels	160	170	
Black Lava	170	180	
Grey Lava	180	218	
Black Sand & Gravel	218	240	
Sand & Gravel-Yellow Clay	240	265	
Yellow Pumice	265	277	
Black Lava	277	291	
Broken Black Lava	291	298	
Mild Black Lava	298	330	
Red Cinders	330	340	

Date work started 5-4-85 /completed 7-25-85
 Date well drilling machine moved off of well 7-25 19 85

(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] Carl Salishan Date 8-6, 19 85

(bonded) Water Well Constructor Certification:

Bond 10596951 Issued by: AMWEST
 (number) (Surety Company Name)

On behalf of Buckner Pump Service
 (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] Robert Buckner
 (Water Well Constructor)

(Dated) 8-6-85

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*46866-890

1011672

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STATE OF OREGON
WATER WELL REPORT
(as required by ORS 637.765)

AUG 25 1985

PLEASE TYPE or PRINT IN INK

WATER RESOURCES DEPT

(for official use only)

(1) OWNER: SALEM, OREGON
Name Sunriver Utilities Company
Address Water Department
City SunRiver State OR. 9 7707

(2) TYPE OF WORK (check):
New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):
Rotary Air Driven Domestic Industrial Municipal
Rotary Mud Dug Irrigation Thermal: Withdrawal ReInjection
Cable Hored Other: Piezometric Grounding Test

(5) CASING INSTALLED: Steel Plastic
Threaded Welded
see pg. 1
Diam. from ft. to ft. Gauge
Diam. from ft. to ft. Gauge

LINER INSTALLED: Steel Plastic
Threaded Welded
see above
Diam. from ft. to ft. Gauge

(6) PERFORATIONS: Perforated? Yes No
Size of perforations in. by in.
see pg. 1 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? Contractor
at 1900 gal./min. with 93 ft. drawdown after 2 hrs.
Air test gal./min. with drill stem at ft. hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
temperature of water 52* Depth artesian flow encountered ft.

(9) CONSTRUCTION: Special standards: Yes No
Well seal - Material used Portland Cement
Well sealed from land surface to 55 ft.
Diameter of well bore to bottom of seal 19 in.
Diameter of well bore below seal 16 in.
Amount of sealing material 70 sacks pounds
How was cement grout placed? Pumped Down
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 Deschutes SE 1/4 NE 1/4 of Section 29 of
Township 19S Range 11E WM.
(Township is North or South) (Range is East or West)
Tax Lot Lot Block Subdivision
MAILING ADDRESS OF WELL (or nearest address)

(11) WATER LEVEL OF COMPLETED WELL:
Depth at which water was first found 35 ft.
Static level 27 ft. below land surface. Date 7-25-85
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 8"
Depth drilled 558 ft. Depth of completed well 558 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
Black Lava	340	347	
White Pumice	347	352	
Coarse Sand (Black)	352	357	
Black Lava	357	385	
Red Cinders & Clinkers	385	400	
Black Sand & Gravel	400	442	
Red Cinders	442	448	
Brown Sandstone	448	477	
Brown Sand	477	484	
Hard Basalt	484	487	
Broken, Decomposed Rock, W/B	487	489	
Hard Basalt	489	512	
Broken Rock/Cinder Gravels, W/	512	556	
Hard Basalt	556	558	

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WATER RESOURCES DEPT
SALEM, OREGON
Date work started 5-4-85 /completed 7-25-85

Date well drilling machine moved off of well 7-25 19 85
(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] Carl Salas Date 8-6-19 85

(bonded) Water Well Constructor Certification:
Bond 10596951 Issued by: AMWEST
(number) (Surety Company Name)
On behalf of Buckner Pump Service
(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] Robert Buckner
(Water Well Constructor)
(Dated) 8-6-85

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

1011672

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

(1) OWNER: Sunriver Water, LLC.
Address P.O. Box 3699
City Sunriver
State OR zip 97707
Well Number: #14

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

(3) DRILL METHOD:
 Rotary Air
 Rotary Mud
 Cable
 Auger

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

(5) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No
 Depth of Completed Well 555 ft.
 Explosives used Yes No
 Type _____ Amount _____

SEAL
 Diameter From To Material From To
 28 0 34 Cement Slurry 0 34 132 sacks
 21 34 177 _____
 20 177 560 _____

HOLE
 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: 22 in +2 34 375
 Liner: 18 in 0 495 375
 Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
 Perforations
 Screens
 Method Factory Type Slotted
 Material Stainless
 Slot From To Diameter size Number Diameter size
 395 495 .093 18 in pipe
 495 555 .125 18 in pipe
 Liner
 Casing

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump
 Bailor
 Air
 Flowing Artesian
 Yield gal/min 2150
 Drawdown 10.3
 Drill stem at 250
 Time 23 Hr.

(9) LOCATION OF WELL by legal description:
 County Deschutes
 Township 20S
 N or S Range 11E
 Section 5 NE
 Lot 101 NE
 Block _____
 Subdivision _____
 Street Address of Well (or nearest address) 17981 South Century
 Dr., Sunriver, OR 97707
 (10) STATIC WATER LEVEL:
 122 ft. below land surface.
 Artesian pressure _____ lb. per square inch.
 Date 9/23/2006

(11) WATER BEARING ZONES:
 Depth at which water was first found 157'

From	To	Estimated Flow Rate	SWL
157	560	3000+	122

(12) WELL LOG:
 Ground elevation _____

Material	From	To	SWL
Compacted Backfill Large Rock	0	3	3
Loose Pumice	3	15	15
Black Sand	15	17	17
Broken Gray Basalt	17	20	20
Gray Basalt	20	23	23
Gray & Brown Basalt	23	28	28
Very Hard Gray Basalt	28	40	40
Broken Gray Basalt	40	60	60
Blue Gray Basalt	60	75	75
Red Cinder	75	83	83
Brown Sandstone	83	96	96
Gray Basalt	96	105	105
Brown & Gray Basalt	105	157	157
Vesicular Basalt & Red Cinder WB	157	183	129
Brown Sandstone	183	187	129
Broken Brown & Red Basalt WB	187	218	129
Brown Sandstone	218	242	129
Hard Gray Basalt	242	248	129
Broken Fractured Gray & Red	248	259	129
Basalt WB	259	292	129
Soft Red Basalt with Sandstone	292	292	129
Lenses WB	292	292	129

 Continued on next page
 Date started 4/28/2006
 Completed 9/23/2006
 (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. Material used and information reported above are true to my best knowledge and belief.
 Signed _____
 WWC Number _____
 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 water supply well construction standards. This report is true to the best of my knowledge and belief.
 Signed _____
 WWC Number 1385
 Date 9/24/2006
 Robert Buckner

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 SEP 27 2006
 WATER RESOURCES DEPT
 SALEM OREGON

1011622

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

DESC 57644

WELL ID # L **84233**

(START CARD) # **187106**

Page **2**

(1) OWNER: Well Number: **#14**
 Name Sunriver Water, LLC.
 Address P.O. Box 3699
 City Sunriver State OR Zip 97707

(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 _____ ft.
 Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount 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"/>
					<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"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tel./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 Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time

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 Deschutes Latitude _____ Longitude _____
 Township 20S N or S. Range 11E E or W. of WM.
 Section 5 NE 1/4 NE 1/4
 Tax lot 101 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 17991 South Century Dr., Sunriver, OR 97707

(10) STATIC WATER LEVEL:
 _____ ft. below land surface. Date _____
 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
Blue Green Basalt with Tuff	292		
Lenses WB		347	129
Gray Vesicular Basalt WB	347	364	129
Hard Gray Broken Basalt with Cinder Lenses WB	364	398	129
Red Cinders WB	398	406	129
Soft Brown Sandstone with Pumice Lenses WB	406	502	129
Medium Hard Brown Basalt with Pumice & Tufted Ash Lenses WB	502	537	129
Multi Colored Basalt & Gravel	537		
Highly Porous WB		560	123

Bottom caved back to 540' prior to casing placement. Cleaned back to 555' & lowered casing and screen assembly accordingly.

WESTERN WATER DEVELOPMENT
 P.O. Box 1670
 REDMOND, OR 97756

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OCT 09 2006

WATER RESOURCES DEPT
 SALEM, OREGON

Date started 4/28/2006 Completed 9/23/2006

(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 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 water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1385
 Signed Robert Buckner Date 9/24/2006

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SEP 27 2006

WATER RESOURCES DEPT
 SALEM, OREGON

1011672

11

DESC 8484

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20S/11E/86

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

DEC 27 1993

JAN - 7 1994

Page 1 of 2 WATER RESOURCES DEPARTMENT (START CARD) # 35362 P 6-11598

(1) OWNER: Sunriver Utilities, SALEM, OREGON, Well Number

(9) LOCATION OF WELL by legal description: Deschutes County, Township 20 S, Range 11 E, Section 8 NW, Intersection of Spring River Road & Huntington

(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

(10) STATIC WATER LEVEL: 8.4 ft. below land surface. Date 12/9/93

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No, Depth of Completed Well 307 ft.

(11) WATER BEARING ZONES: Depth at which water was first found 4

Table with columns: HOLE Diameter, SEAL From, SEAL To, Material, Amount sacks or pounds. Row 1: 24, 0, 82, Cement, 9 yards. Row 2: 19, 82, 307, -, 243 sacks.

Table with columns: From, To, Estimated Flow Rate, SWL. Rows: 147-153 (N/A, 8.4), 159-166 (N/A, 8.4), 179-186 (N/A, 8.4), 206-214 (N/A, 8.4).

How was seal placed: Method [] A [] B [X] C [] D [] E, Backfill placed from 0 ft. to 82 ft. Material Cement, Gravel placed from 0 ft. to 82 ft. Size of gravel 9 yards.

(12) WELL LOG: Ground elevation

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing: 20, +1, 82, .375, [X], [], [X], []. Liner: 16, +2.5, 307, .375, [X], [], [X], [].

Table with columns: Material, From, To, SWL. Rows: Sandy dirt (0-2), Sand and gravel (2-6, 4), Silty clay green brown (6-20), Silty sand black (20-32, 4), Lava black broken (32-37), Lava black very hard (37-50), Lava green pourous (50-52), Lava black hard (52-79), Lava weathered with clay streaks (79-85), Lava gray hard (85-92), Lava red broken (92-99), Lava brown medium (99-101), Lava brown hard (101-112), Lava brown and red broken (112-116), Lava gray medium (116-131), Lava gray hard (131-147), Lava red fractured with clay WB (147-153), Lava gray medium (153-159), Lava red fractured pourous WB (159-166), Lava gray medium (166-179).

(7) PERFORATIONS/SCREENS: [X] Perforations Method Machine, [] Screens Type

Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Row 1: 207.5, 307.5, 1/8x3, 6080, 16, [], [X].

(8) WELL TESTS: Minimum testing time is 1 hour. [] Pump, [] Bailer, [X] Air, [] Flowing Artesian. Yield gal/min unmeasurable, Drawdown, Drill stem at, Time 09 2013.

Date started Completed (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. Material used and information reported above are true to my best knowledge and belief. Signed [Signature] WWC Number 1523 Date 12/16/93

Temperature of Water 55, Depth Artesian Flow Found, Was a water analysis done? [] Yes [] No, By whom SALEM, OREGON, Did any strata contain water not suitable for intended use? [] Too little, [] Salty, [] Muddy, [] Odor, [] Colored, [] Other, Depth of strata:

(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. Signed [Signature] WWC Number 723 Date 12/16/93

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

DESC
 8484

Page 2 of 2

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205/11E/86

JAN - 7 1994

(START CARD) # 35362

(1) OWNER: Well Number _____
 Name Sunriver Utilities
 Address P.O. Box 3699
 City Sunriver State OR Zip 97707

(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 _____ ft.
 Explosives used Yes No Type _____ Amount _____

HOLE		SEAL		Amount		
Diameter	From	To	Material	From	To	sacks or pounds

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:

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

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type _____ Material _____

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 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 } 011672
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:
 County Deschutes Latitude _____ Longitude _____
 Township 20 S N or S. Range 11 E E or W. WM.
 Section 8 NW 1/4 NW 1/4
 Tax Lot Unknown Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Intersection of Spring River Road & Huntington

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

(11) WATER BEARING ZONES:

Depth at which water was first found _____

From	To	Estimated Flow Rate	SWL
249	307	N/A	8.4

(12) WELL LOG: Ground elevation _____

Material	From	To	SWL
Lava red fractured porous	WB 179	186	
Lava gray medium hard		186	206
Lava gray medium hard			
Lava green gray & red very broken porous	WB 206	214	
Lava gray medium	214	219	
Lava red fractured	219	221	
Lava gray hard	221	234	
Lava gray fractured porous	234	249	
Pumice brown & gray	WB 249	307	

Date started 11/09/93 Completed 12/14/93

(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. Material used and information reported above are true to my best knowledge and belief.

Signed [Signature] WWC Number 1523
 Date 12/16/93

(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.

Signed [Signature] WWC Number 223
 Date 12/16/93