

NOTICE TO WATER WELL CONTRACTOR

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.

RECEIVED WATER WELL REPORT

STATE OF OREGON

APR 12 1978 (Please type or print)

WATER RESOURCES DEPT. (Do not write above this line)

Handwritten notes: P... 13E, H... 135/13E-226a, State Well No. G-9284, APRC-6-10208

(1) OWNER: (WAGON WHEEL DEVELOPMENT) Name: Ernie Simpson & Associates Address: 63970 Sunset Dr. Beav. Ore. 97101

(2) TYPE OF WORK (check): New Well [X] Deepening [] Reconditioning [] Abandon []

(3) TYPE OF WELL: Rotary [X] Cable [] Dug [] (4) PROPOSED USE (check): Domestic [] Industrial [] Municipal [] Irrigation [] Test Well [] Other [X]

CASING INSTALLED: 8" Diam. from +1 ft. to 20 ft. Gage 025

PERFORATIONS: Perforated? [] Yes [X] No Type of perforator used Size of perforations in. by in.

(7) SCREENS: Well screen installed? [] Yes [X] No Manufacturer's Name Type Model No. 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 [X] No If yes, by whom? Bailer test 5 gal./min. with 0 ft. drawdown after 1 hrs. Artesian flow g.p.m. Temperature of water 52 Depth artesian flow encountered ft.

(9) CONSTRUCTION: Well seal—Material used CEMENT Well sealed from land surface to 20 ft. Diameter of well bore to bottom of seal 12 in. Diameter of well bore below seal 8 in. Number of sacks of cement used in well seal 7 sacks How was cement grout placed? POUR DOWN Was a drive shoe used? [] Yes [X] No Plugs Size: location ft. Did any strata contain unusable water? [] Yes [X] No Type of water? depth of strata Method of sealing strata off Was well gravel packed? [] Yes [X] No Size of gravel: Gravel placed from ft to ft.

(10) LOCATION OF WELL: County Deschutes Driller's well number NE 1/4 NW 1/4 Section 22 T. 18 S R. 18 E W.M. Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well. Depth at which water was first found 800 ft. Static level 800 ft. below land surface. Date 2-11-78 Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing Depth drilled 840 ft. Depth of completed well 840 ft. Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated.

Table with columns: MATERIAL, From, To, SWL. Rows include: LOOSE LAVA, BOULDERS + SAND (0-4), LAVA (4-40), BROKEN LAVA + CONG. (40-65), LAVA (65-66), CONG. (66-85), LAVA (85-110), BROKEN LAVA (110-120), LAVA (120-147), RED CINDERS + BROKEN LAVA (147-152), LAVA (152-240), RED CINDERS (240-242), LAVA-2 TO 4 FT. CONG. - 2" x 4" (242-390), LAVA (390-443), SANDSTONE (443-469), LAVA (469-580), RED CINDER CONG. (580-595), LAVA (595-630), SANDSTONE CONG. (630-637), LAVA (637-800), WATER-BEARING SANDSTONE (800-840). Work started 1-29-1978 Completed 2-11-1978 Date well drilling machine moved off of well 2-11-1978

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. Nixon Date 2-27, 1978 Drilling Machine Operator's License No. 503

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 ORVAIL BUCKNER Address 16816 N.E. NEGUS RD. REDMAN, ORE. 97156 [Signed] Orvail Buckner Contractor's License No. 608 Date 2-27, 1978

(USE ADDITIONAL SHEETS IF NECESSARY)

BP 46466-119

DEC 07 2011 T 11324 WATER RESOURCES DEPT

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

WATER WELL REPORT

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

STATE OF OREGON

State Well No. 185/12E-21AD

State Permit No. _____

RECEIVED

DESC
538

(1) OWNER:

APR 24 1979

Name **AVION WATER COMPANY WATER RESOURCES DEPT.**
Address **60813 Parrell Road SALEM, OREGON**
Bend, Oregon 97701

(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 Driven Domestic Industrial Municipal
Cable Jetted Irrigation Test Well Other
Dug Bored

CASING INSTALLED:

see page 1

Threaded Welded
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? Yes No.

Type of perforator used _____ see page 1
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 _____ see page 1
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: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " " " "
" " " " " "
Bailer test page 1 gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.
Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used _____ see page 1
Well sealed from land surface to _____ ft.
Diameter of well bore to bottom of seal _____ in.
Diameter of well bore below seal _____ in.
Number of sacks of cement used in well seal _____ sacks
How was cement grout placed? _____

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:

County **Deschutes** Driller's well number _____
_____ Section _____ T. _____ R. _____ W.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found **374** ft.
Static level **374** ft. below land surface. Date **4-4-79**
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG: Diameter of well below casing **12 in.**

Depth drilled **435** ft. Depth of completed well **435** 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
Coarse, brown conglomerate	412	424	
Med, red cinders	424	433	
Red rock	433	435	

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DEC 07 2011

WATER RESOURCES DEPT
SALEM, OREGON

Work started **Feb. 12** 19 **79** Completed **April 4** 19 **79**
Date well drilling machine moved off of well **April 5** 19 **79**

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] *Della R. Tim* Date **4-5**, 19 **79**
(Drilling Machine Operator)
Drilling Machine Operator's License No. **415**

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 **Orvail Buckner Well Drilling, Inc.**
(Person, firm or corporation) (Type or print)
Address **1686 N.E. Negus Way, Redmond, Ore, 97756**
[Signed] *Orvail Buckner*
(Water Well Contractor)
Contractor's License No. **608** Date **4-5**, 19 **79**

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

DESG
 51660
 51660

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DEC 07 2011

18-12E-21ad

JUN 12 1987

WATER RESOURCES DEPT

(1) OWNER:
 Name Avion Water Co.
 Address 60813 Parrell Rd.
 City Bend State Ore Zip 97701

(9) LOCATION OF WELL by legal description:
 County Des Latitude ' Longitude '
 Township 18S N or S, Range 12E E or W, WM.
 Section 21 SE NE
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 60615 Tekampe Rd Bend, Oregon

(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

BORE HOLE CONSTRUCTION:
 Depth of Completed Well 435 ft.
 Special Standards date of approval _____

HOLE Diameter	From	To	SEAL		Amount sacks or pounds	
			Material	To		
16"	0	27 1/2	cem	0	27 1/2	37 sacks
12"	27 1/2	35				

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	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
					<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	12"	+2	27 1/2	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	10"	35	435	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10"	+1	435	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

PERFORATIONS/SCREENS:

Perforations Method machine
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
370	435		1160	1/8 by 3		<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailor Air Flowing Artesian
 Yield gal/min 475 Pumping level 371 Drill stem at _____ Time 1/4 hr
 _____ _____ _____ Time _____ hr

Temperature of water 52 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: _____

(10) STATIC WATER LEVEL:
375 ft. below land surface. Date 5/16/87
 Artesian pressure _____ lb. per square inch. Date _____

(11) WELL LOG: Ground elevation _____

Material	From	To	WB?	SWL
sandy soil	0	2		
brn congl fine	2	9		
gray vesicular basalt	9	14		
redish congl med	14	16		
gray basalt	16	24		
redish gray congl	24	29		
gray basalt	29	62		
no return hd brkn	62	73		
gray basalt	73	87		
redish brn congl	87	98		
gray basalt	98	150		
brn congl med	150	173		
gray basalt	173	195		
brn ss congl med	195	221		
gray basalt	221	234		
brn congl crse	234	243		
gray basalt	243	298		
brn congl very crse	298	307		
gray basalt	307	328		
brn basalt	328	340		
gray basalt	340	351		
red cindery rubble	351	363		
gray basalt fractured	363	381	WB	375
gray basalt rubble	381	386	WB	
gray basalt rubble	386	389	WB	
gray brkn basalt	389	406	WB	
redish brn congl	406	409	WB	
brn congl	409	428	WB	
gray basalt	428	435		

Date started 4/20/87 Completed 5/16/87

(unbonded) Water Well Constructor Certification:
 I constructed this well in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
 Signed John Miller Date 5/19/87

(bonded) Water Well Constructor Certification:
 I accept responsibility for construction of this well and its compliance with all Oregon water well standards. This report is true to the best of my knowledge and belief.
 Signed John Johnson Date 5/19/87
 Company Johnson Well Drilling Co. Job No. _____

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

WATER WELL REPORT

STATE OF OREGON
(Please type or print)

STATE ENGINEER, SALEM, OREGON 97320
within 30 days from the date
of well completion.

(Do not write above this line)

185-13E-31
RECEIVED

State Well No. _____

JAN 15 1976

State Permit No. _____

WATER RESOURCES DEPT.

DESC
5135

RECEIVED

(1) OWNER:

Name JARY CLAWSON
Address Rt 1 Box 607
BEND 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
Pig Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

8" Diam. from 0 ft. to 30 ft. Gage 250
6" Diam. from 0 ft. to 925 ft. Gage 250

(6) PERFORATIONS:

Type of perforator used Saw
Size of perforations 3/16 in. by 8 in.
180 perforations from 850 ft. to 925 ft.

(7) SCREENS:

Well screen installed? Yes No
Manufacturer's Name _____ Model No. _____
Type _____ 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?
Flow: _____ gal./min. with _____ ft. drawdown after _____ hrs.
Bailer test 4 gal./min. with 0 ft. drawdown after 2 hrs.
Artesian flow _____ g.p.m.
Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used READY M.I. CEMENT
Well sealed from land surface to 30 ft.
Diameter of well bore to bottom of seal 12 in.
Diameter of well bore below seal 8 in.
Number of sacks of cement used in well seal _____ sacks
Number of sacks of bentonite used in well seal _____ sacks
Brand name of bentonite _____
Number of pounds of bentonite per 100 gallons _____
of water _____ 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? _____ 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:

SALEM, OREGON
County DESCHUTES Driller's well number _____
NE 1/4 Section 31 T. 18S R. 13E W.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 855 ft.
Static level 855 ft. below land surface. Date SEPT 15 74
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 8"
Depth drilled 925 ft. Depth of completed well 925 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
OVER BURDEN	0	2	
BROKEN LAVA	2	20	
HARD LAVA	20	30	
CLAY LAVA	30	35	
BROKEN LAVA	35	230	
RED LAVA (CYLINDERS)	230	250	
BROKEN LAVA	250	300	
RED CYLINDERS	300	400	
"	400	405	
BROKEN SANDSTONE	405	575	
BROKEN LAVA	575	630	
BLACK SAND (WATER)	630	760	
"	760	820	
FINE BLACK SAND	820	850	
			855

Work started APR. 12 1974 Completed 1-1-76
Date well drilling machine moved off of well 1-5-76

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] _____ Date 1-2, 1976
(Drilling Machine Operator)

Drilling Machine Operator's License No. 557

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 WOERNER DRILLING & PUMP
(Person, firm or corporation) (Type or print)
Address REDMOND, ORE
[Signed] _____
(Water Well Contractor)

Contractor's License No. 499 Date 1-2, 1976

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*48066-119

T 11324

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

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JUL 26 1993

RECEIVED
SEP - 7 1993

8/12E/19ac
14780

Desc
4143

WATER RESOURCES DEPT. (START CARD)
WATER RESOURCES DEPT. (LOCATION OF WELL)

(1) OWNER:
Name AURON WATER CO.
Address 60813 PARRELL RD
City BEND State OR. Zip 97702

Well Number: SALEM, OREGON legal description:

County DESCHUTES Latitude _____ Longitude _____
Township 18 S North Range 12 E (E or W, WM.)
Section 19 SW 1/4 NE 1/4
Tax Lot 201 Lot 92 Block _____ Subdivision _____
Street Address of Well (or nearest address) ROCKING HORSE RD
REVER BEND STATES WEST 1/2 OF LOT 92, BEND, OR

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

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds
18"	0	30'	CEMENT	0	30'	83 SKS.
19 1/2"	+2	447				

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:	14"	+2	30'	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:	12"	-3	447'	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

(7) PERFORATIONS/SCREENS:
 Perforations Method MILLS KNIFE
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
407	447	1/8" x 3/16"	600	12"		<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min 506 GPH. Drawdown _____ Drill stem at _____ Time 1 hr.

Temperature of water 58° 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: _____

(10) STATIC WATER LEVEL:
390 ft. below land surface. Date 7-5-93
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 430'

From	To	Estimated Flow Rate	SWL
430	445	506 GPH.	390

(12) WELL LOG: Ground elevation _____

Material	From	To	SWL
BRN. SANDY SOIL	0	8'	
BROKEN LAVA (MED.)	8'	19'	
GRAY ROCK (MED.)	19'	45'	
BRN. CONG.	45'	110'	
BROKEN LAVA (HLD)	110'	125'	
RED CINDER CONG.	125'	170'	
GRAY SANDSTONE	170'	220'	
BRN. SANDSTONE	220'	290'	
(HARD) GRAY ROCK	290'	325'	
CRUSSES BROKEN ROCK	325'	350'	
RED CINDER CONG.	350'	370'	
BRN. SANDSTONE CONG.	370'	390'	
GRAY ROCK (MED.)	390'	415'	
BROKEN LAVA HARD	415'	430'	
RED CINDER GRAVEL (W.B.)	430'	445'	390
HARD GRAY ROCK	445'	447'	

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DEC 07 2011
WATER RESOURCES DEPT.
SALEM, OREGON - 93 Completed 7-5-93

(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. Materials 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 well construction standards. This report is true to the best of my knowledge and belief.
Signed Larry M. Paley WWC Number 1536
Date 7-12-93

1 11324

DESC 57475
 if mended
 DESC 57475
 01/11/07

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

WELL LABEL # L 82816
 START CARD # 186487

(1) LAND OWNER Owner Well I.D. 19860 RockingHorse Rd
 First Name _____ Last Name _____
 Company Avion Water Company
 Address 60813 Parrell Rd
 City Bend State OR Zip 97702

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

(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

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
 Depth of Completed Well 450 ft.

BORE HOLE			SEAL			sacks/ lbs
Dia	From	To	Material	From	To	
16	0	455	Cement	0	45	45 S
			Cement	315	327	6 S

How was seal placed Method A B C D E
 Other
 Backfill placed from 327 ft to 330 ft. Material Bentonite Chips
 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

<input checked="" type="checkbox"/>	<input type="checkbox"/>	12	0	430	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Shoe Inside Outside Other Location of shoe(s) 450
 Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS
 Perforations Method Factory
 Screens Type _____ Material _____

Perf	Casing/Screen Liner Dia	From	To	Scr/slot width	Slot length	# of slots	Tele/ pipe size
Perf	Liner	12	430	450	.188	3	960

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

200			440	1
-----	--	--	-----	---

Temperature 57 °F Lab analysis Yes By _____
 Water quality concerns? Yes (describe below)
 From _____ To _____ Description _____
RECEIVED
JAN 18 2007

(9) LOCATION OF WELL (legal description)
 County DESCHUTES Twp 18 S N/S Range 12 E E/W WM
 Sec 19 SW 1/4 of the NE 1/4 Tax Lot 201
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address
 19860 Rocking Horse Rd, Bend, OR 97702

(10) STATIC WATER LEVEL
 Date SWL(psi) + SWL(ft)
 Existing Well / Predeepening _____
 Completed Well 06-06-2006 _____ 386
 Flowing Artesian? Dry Hole?

WATER BEARING ZONES
 Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
06-30-2006	360	440	200		386

(11) WELL LOG
 Ground Elevation _____

Material	From	To
Soil	0	6
Black basalt - vesicular	6	20
Red cinders - vesicular	20	45
Black basalt - vesicular	45	190
Brown sandstone - soft	190	260
Black and red basalt - vesicular w/ gravel	260	275
Red basalt - vesicular and hard cinders	275	320
Red vesicular cinders	320	340
Black vesicular basalt	340	455

RECEIVED
JAN 07 2011
 WATER RESOURCES DEPT
 SALEM, OREGON

Date Started 05-17-2006 Completed 06-07-2006

(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 1702 Date 1-11-07
 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 1523 Date 1-11-07
 Password: (if filing electronically)
 Signed _____
 Contact Info (optional) Board Longear Company / Geo-Tech Explorations

DESC 57475

WATER SUPPLY WELL REPORT -
continuation page

WELL I.D. # L 82816

START CARD # 186487

(5) BORE HOLE CONSTRUCTION

BORE HOLE			Material	SEAL		Amt	sacks/ lbs.
Dia	From	To		From	To		

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	Sern/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

Water Bearing Zones

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

(11) WELL LOG

Material	From	To

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Comments/Remarks

Backfill-

- Bentonite chips 327 - 330 (3 sacks)
- concrete backfill placed from 45 - 315 feet (3 yards)

Air Test:

- could not maintain consistent discharge rate in order to accurately test
- estimate flow at approximately 200 gpm



DESC 57475
Boart Longyear Company
Geo-Tech Explorations Division

19700 SW Teton Ave
Tualatin, OR 97062
Toll free 1-800-275-3885
(503) 692-6400 Fax (503) 692-4759
www.geotechinc.com / www.boartlongyear.com

BOART LONGYEAR

January 11, 2007

Oregon Water Resources Department
North Mall Building
725 Summer St. NE, Suite A
Salem, OR 97301-1271

Re: Amendments to DESC 57475

The Attached well report has been amended to make corrections in regards to the boring diameter, filter pack and backfill material. The boring diameter was 16" and not 15". No filter pack was installed. And the backfill material and intervals have been changed in accordance with the work performed.

Thanks,

Keith Vidos

Contract Drilling Services

www.geotechinc.com

Geo-Tech Division-Tualatin,OR

ISO 14001 Certified

800 275 3885 Office

503 692 4759 Fax

Offices: AL,AZ,IN,GA,MA,MN,OH,OR,UT,VA,WA,WI

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SALEM, OREGON**

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DESC 58007

DESC 58007

05-17-2007

AMENDED
6/14/07

STATE OF OREGON

WATER SUPPLY WELL REPORT

(as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L 84181

START CARD # 191737

(1) LAND OWNER Owner Well I.D. L84181

First Name _____ Last Name _____
Company AVION WATER CO.
Address 60813 PARREL RD
City BEND State OR Zip 97702

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

(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

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
Depth of Completed Well 854.00 ft.

BORE HOLE			SEAL			Amt	sacks/ lbs
Dia	From	To	Material	From	To		
24	0	19	Cement	0	19	30	S
20	19	620	Cement	19	31	10	S
20	620	645	Cement	620	645	20	S
20	645	854					

How was seal placed: Method A B C D E
 Other _____
Backfill placed from 31 ft. to 620 ft. Material Concrete
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
<input checked="" type="checkbox"/>	<input type="checkbox"/>	20		0	19	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	16		2.5	854	.375	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Shoe Inside Outside Other Location of shoe(s) 854
Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS
Perforations Method Factory Milled
Screens Type _____ Material _____

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrm/slot width	Slot length	# of slots	Tele/ pipe size
Perf	Casing	16	754	834	.125	3	5,120	

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
1,500 20.5 820 1.5

Temperature 56 °F Lab analysis Yes By _____
Water quality concerns? Yes (describe below)
From _____ To _____ Description _____ Amount _____ Units _____

(9) LOCATION OF WELL (legal description)

County Deschutes Twp 17.00 S N/S Range 12.00 E E/W WM
Sec 14 NE 1/4 of the SE 1/4 Tax Lot 805
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address

63365 HAMEHOOK RD

(10) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+	SWL (ft)
Completed Well	05-10-2007			694

Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL (psi)	+	SWL (ft)
05-07-2007	715	784	200			694
05-07-2007	791	798	200			694
05-07-2007	807	813	200			694
05-07-2007	822	828	200			694

(11) WELL LOG

Material	From	To
See Attached	0	854
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WATER RESOURCES DEPT SALEM, OREGON		
RECEIVED		
JUN 18 2007		
WATER RESOURCES DEPT SALEM, OREGON		
Date Started	05-05-2007	Completed 05-11-2007

(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 1530 Date 05-17-2007
Electronically Filed
Signed STEVEN VIBBARD (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. 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 1523 Date 05-17-2007
Electronically Filed
Signed ROBERT STADELI (E-filed)
Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT

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

T 11324

DESC 58007

WATER SUPPLY WELL REPORT -
continuation page

DESC 58007

WELL I.D. # L 84181

Page 2 of 4

05-17-2007

START CARD # 191737

(5) BORE HOLE CONSTRUCTION

BORE HOLE			SEAL				sacks/ lbs
Dia	From	To	Material	From	To	Am	

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<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"/>
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<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<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"/>

(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

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	

(11) WELL LOG

Material	From	To

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SALEM, OREGON

Comments/Remarks

Bentonite sand and gravel installed on steel ring on 16" casing used to land lower seal.

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Map of well



Boart Longyear Company.
19700 SW Teton
Tualatin, OR 97062
Ph: (503) 692-6400, Fax: (503) 692-4759

Well Name: Avion Production Well
Start Card #: 191737
Label #: L84181

Material Description	From:	To:
Basalt Hard Gray	0'	21'
Cinders Red	21'	24'
Basalt Gray Med Hard	24'	31'
Cinders Red	31'	44'
Basalt Gray Hard	44'	81'
Cinders Red	81'	86'
Basalt Gray Med Hard Vesicular	86'	99'
Cinders Red	99'	105'
Basalt Gray & Brown Med Hard Vesicular	105'	115'
Basalt Gray Red & Brown Soft Vesicular	115'	126'
Basalt Gray & Brown Med Hard	126'	131'
No Return	131'	136'
Basalt Gray Broken	136'	144'
Conglomerate	144'	160'
Basalt Gray Med Hard with some Brown Clay Binder	160'	163'
Conglomerate	163'	167'
No Return	167'	173'
Conglomerate Med Hard	173'	186'
Basalt Gray Med Hard	186'	196'
Basalt Brown Med Hard	196'	215'
Basalt Gray & Red Soft Vesic	215'	224'
Basalt Gray Hard	224'	235'
Basalt Gray Broken Vesic	235'	243'
Basalt Gray Hard	243'	250'
Brown Conglomerate Med Hard	250'	265'
No Return 8 Yards Cement	265'	281'
Basalt Red & Gray Vesicular	281'	285'
Conglomerate Brown	285'	298'
Basalt Red & Gray Vesicular Med Hard	298'	305'
Conglomerate Brown	305'	309'
Basalt Gray Hard	309'	318'
Lava Red	318'	323'
Basalt Gray Hard	323'	355'
Lava Cinders Red Soft	355'	360'
Basalt Gray Med Hard Some Fractures	360'	365'
Basalt Gray Hard	365'	386'
Lava Rock Red & Gray Badly Broken	386'	395'
Basalt Gray Med Hard	395'	400'
Basalt Gray & Red Hard	400'	405'
Basalt Gray & Red Badly Broken	405'	409'
Lava Rock Red Vesicular Pour Return	409'	415'
Basalt Gray Hard	415'	421'
Basalt Gray Med Hard	421'	446'
No Return Pour Cement	446'	470'
Basalt Gray Med Hard	470'	480'

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SALEM, OREGON

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SALEM, OREGON

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Map of well



Boart Longyear Company.
19700 SW Teton
Tualatin, OR 97062
Ph: (503) 692-6400, Fax: (503) 692-4759

Well Name: Avion Production Well (page 2)
Start Card #: 191737
Label #: L84181

Material Description	From:	To:
Basalt Gray & Red Soft	480'	485'
Cynders Red	485'	506'
Basalt Dark Brown Med Hard Vesicular	506'	530'
Basalt Gray Hard Little Return	530'	535'
Basalt Brown Med Hard Little Return	535'	542'
Basalt Brown Soft	542'	546'
Basalt Brown & Gray Hard Little Return	546'	571'
Basalt Brown Soft Broken Vesicular	571'	585'
Basalt Brown Med Hard Vesicular	585'	605'
Basalt Gray Soft Vesicular	605'	624'
Basalt Gray Med Hard Vesicular	624'	638'
Basalt Gray Med Hard Fractured	638'	643'
Basalt Brown Broken	643'	650'
Basalt Brown Med Hard	650'	654'
Basalt Brown Broken	654'	665'
Basalt Brown Broken with Yellowish Clay Binder	665'	671'
Lava Gray & Red Broken Vesicular	671'	683'
Lava Gray & Red Med Hard Vesicular	683'	705'
Basalt Gray Hard	705'	715'
Lava Red & Gray Vesicular with Broken Streaks	715'	751'
Basalt Gray Med Hard with Broken Streaks Red & Gray	751'	784'
Basalt Gray Hard	784'	791'
Basalt Red & Gray Broken	791'	796'
Basalt Red & Gray Med Hard Vesicular	796'	798'
Basalt Gray Hard	798'	807'
Basalt Gray Broken	807'	813'
Basalt Gray Hard	813'	818'
Basalt Gray Med Hard	818'	822'
Basalt Gray Broken	822'	828'
Basalt Gray Hard	828'	850'
Basalt Gray Broken	850'	861' 854'
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WATER RESOURCES DEPT SALEM, OREGON		

T 11324

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

DESC 5720

WATER WELL REPORT

RECEIVED

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

STATE OF OREGON
(Please type or print)

APR 11 1977

State Well No. 185/135-2006

WATER RESOURCES DEPT.
SALEM, OREGON

(1) OWNER:

Name HALL Pruitt
Address Bt 7 Bt 566
BEAD CREEK

(10) LOCATION OF WELL:

County Deschutes Driller's well number 17177
New W.M. Section 20 T. 15S R. 15E
Bearing and distance from section or subdivision corner

(2) TYPE OF WORK (check):

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

(3) TYPE OF WELL:

Driven Jetted Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

Threaded Welded
" Diam. from 0 ft. to 57 ft. Gage 200
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? Yes No
Type of perforator used
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
a pump test made? Yes No If yes, by whom?
Id: gal./min. with ft. drawdown after hrs.
" " " " " "
" " " " " "
or test 30 gal./min. with 0 ft. drawdown after 2 hrs.
artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Cement
Well sealed from land surface to 57 ft.
Diameter of well bore to bottom of seal 12 in.
Diameter of well bore below seal 8 in.
Number of sacks of cement used in well seal 6 sacks
How was cement grout placed? POURED
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

(11) WATER LEVEL: Completed well.

Depth at which water was first found 890 ft.
Static level 783 ft. below land surface. Date 3/22/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 8 1/2
Depth drilled 140 ft. Depth of completed well 140 ft.
Describe each zone, contact, 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.

Page #	MATERIAL	From	To	SWL
1	BASALT, grey, hard	231	250	
1	CONCRETE, red & black	250	263	
1	BASALT, grey, hard	263	276	
1	CONCRETE, red soft	276	305	
1	SANDSTONE, brown	305	350	
1	CONCRETE, red	350	475	
1	BASALT, hard	475	495	
1	CONCRETE, red	495	595	
1	BASALT, grey, hard	595	600	
1	CLAY, red soft	600	609	
1	BASALT, grey, hard	609	634	
1	SANDSTONE, brown	634	690	
1	BASALT, black	690	719	
1	CONCRETE, red soft	719	729	
1	BASALT, grey, hard	729	808	
1	SANDSTONE, soft brown	808	865	
1	BASALT, grey, hard	865	890	
1	CONG. of Red & black concrete	890	940	783
1	WATER BEARING BASALT, black - WATER STRATUM			

Work started FEB 9 1977 Completed MARCH 28 1977
Date well drilling machine moved off of well MARCH 28 1977

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] Ferry W. Matushko Date 3/28, 1977
(Drilling Machine Operator)

Drilling Machine Operator's License No. EC

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 M-H Well Drilling
(Person, firm or corporation) (Type or print)

Address 1555 NW Civic Blvd. Dr. Corvallis

[Signed] Ferry W. Matushko
(Water Well Contractor)

Contractor's License No. 437 Date March 28, 1977

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SALEM, OREGON

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