

Attachment A

Well Logs for Existing Authorized Points of Appropriation for Permit G-10000

Well Name	Well Log Numbers
Well 1 (Tuscarora)	DESC 5462, DESC 5482
Well 2	DESC 5388
China Hat 1	DESC 50740
Conestoga	DESC 5722
Parrel Rd.	DESC 50986
Riverbend 1	DESC 5640
Riverbend 2	DESC 4143
Tekampe 3	DESC 5660
Tekampe 2	DESC 528
Tekampe 1	DESC 5659
Sundance 2	DESC 5725

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JUN 29 2009

WATER RESOURCES DEPT
SALEM, OREGON

T 10918

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.

WATER WELL REPORT
RECEIVED
STATE OF OREGON
(Please type or print)

JUN 1 1978
write above this line)

DESC
5462

State Well No. 18S11E-26bb

State Permit No.

(1) OWNER: WATER RESOURCES DEPT.
OF SALEM, OREGON

Name Deschutes Development Co. Inc
Address P.O. Box 1251 Bend, Ore

(2) TYPE OF WORK (check):
New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 13.

(3) TYPE OF WELL: Rotary Cable Dug Driven Jetted Bored
(4) PROPOSED USE (check): Domestic Industrial Municipal Irrigation Test Well Other community

CASING INSTALLED: Threaded Welded
8" Diam. from + 2 ft. to 26 1/2 ft. Gage 250
6" Diam. from + 1 ft. to 27 1/2 ft. Gage 188

PERFORATIONS: Perforated? Yes No.
Type of perforator used machine
Size of perforations 1/8 in. by 3 in.
456 perforations from 235 ft. to 275 ft.

(7) SCREENS: Well screen installed? Yes 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 No If yes, by whom?
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
Air lifting 18 GPM with 0 DD
Ballor test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.
Temperature of water 56 Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION: Well seal—Material used cement
Well sealed from land surface to 26 1/2 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 30 sacks
How was cement grout placed?
pumped from 25 to 0
Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? Yes No
Type of water? _____ depth of _____ ft.
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 _____
NW 1/4 NW 1/4 Section 26 T. 18S R. 11E W.M.
Bearing and distance from section or subdivision corner
Lot 11 & 12 Block XX Deschutes River Woods
Line Common to Lots 11 & 12

(11) WATER LEVEL: Completed well.
Depth at which water was first found 233 ft.
Static level 233 ft. below land surface. Date 5/16/78
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG: Diameter of well below casing 0
Depth drilled 275 ft. Depth of completed well 275 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
brn soil	0	3	
brn soil & lava rock	3	9	
grey lava	9	32	
tan clay congl	32	35	
brn sand & crs gravel	35	51	
grey congl fine	51	67	
brn rock	67	101	
tan claystone	101	116	
white pumice	116	144	
grey congl fine	144	166	
bldrs & congl	166	174	
med gravel	174	201	
blk tuft	201	233	
med gravel (WB)	233	244	
brn congl med	244	256	
multi color gravel med(WB)	256	261	
blk basalt with seams(WB)	261	275	233
<u>Gravel 2 1/2 - 2 1/2 + ?</u>			

Work started 5/11 1978 Completed 5/16 1978
Date well drilling machine moved off of well 5/16 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] John V. Johnson Date 5/16, 1978
(Drilling Machine Operator)
Drilling Machine Operator's License No. 1039

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 Johnson Well Drilling
(Person, firm or corporation) (Type or print)
Address 3626 NW Coyner Redmond, Ore
[Signed] John V. Johnson
(Water Well Contractor)
Contractor's License No. 595 Date 5/16, 1978

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NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON, within 30 days from the date of well completion.

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APR 8 - 1972
STATE OF OREGON
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT
Please (type or print)
Do not write above this line

DESC
5388

State Well No. 18/11-25ab
State Permit No. _____

(1) OWNER:

Name Deschutes Development Co.
Address 106 Milwaukee Ave, 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
Dug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

CASING INSTALLED:

Threaded Welded
8" Diam. from 0 ft. to 39 ft. Gage 250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

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.
_____ 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) WATER LEVEL: Completed well.

Static level 380 ft. below land surface Date 3/12/72
Artesian pressure _____ lbs. per square inch Date _____

(9) 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.

Baller test 10 gal./min. with 0 ft. drawdown after 2 hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water 50 Was a chemical analysis made? Yes No

(10) CONSTRUCTION:

Well seal—Material used Bentonite & Cement
Depth of seal 2.5' ft.
Diameter of well bore to bottom of seal 12 in.
Were any loose strata cemented off? Yes No Depth 130
Was a drive shoe used? Yes No
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.

(11) LOCATION OF WELL:

County Deschutes Driller's well number 72
NW 1/4 NE 1/4 Section 25 T. 18 S R. 11 E W.M.
Bearing and distance from section or subdivision corner _____

(12) WELL LOG:

Diameter of well below casing 8"
Depth drilled 402 ft. Depth of completed well 402 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 as drilling proceeds. Note drilling rates.

MATERIAL	From	To	SWL
Top Soil	0	7	
Brown Clay	7	65	
Pumice	65	80	
Black Rock (Broken)	80	105	
Red Cinders	105	130	
Brown Clay	130	160	
Black Clay	160	170	
Grey Clay	170	205	
Brown Rock	205	205	
Grey Rock	205	305	
Brown Rock	305	310	
Grey Rock	310	330	
Red Rock	330	335	
Red Cinders	335	350	
Pink Rock	350	360	
Grey Rock	360	385	
Red Cinders	385	402	

Work started Jan 4 1972 Completed March 8 1972
Date well drilling machine moved off of well March 8 1972

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] Lloyd J. Mathers Date 3/31, 1972
(Drilling Machine Operator)

Drilling Machine Operator's License No. 134

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 Mathers Drilling Co.
(Person, firm or corporation) (Type or print)
Address Murphy Rd, Bend, Ore
[Signed] Lloyd J. Mathers
(Water Well Contractor)
Contractor's License No. 231 Date 3/31, 1972

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WELL I.D.# 204580

STATE OF OREGON WATER SUPPLY WELL REPORT

DESC 50740

MAR - 3 1997

(START CARD) # 89248

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

(1) OWNER: Avion Water Company Well Number 50740
Name: Avion Water Company
Address: 60813 Parrell Road
City: Bend State: OR Zip: 97702

(9) LOCATION OF WELL by legal description:
County: Deschutes Longitude:
Township: 18S N or S Range: 18E E or W. WM.
Section: 29 NE 1/4 NE 1/4
Tax Lot: UNKNOWN Block: Subdivision:
Street Address of Well (or nearest address): China Hat Rd

(2) TYPE OF WORK:
[X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment
(3) DRILL METHOD:
[X] Rotary Air [] Rotary Mud [] Cable [] Auger [] Other

(10) STATIC WATER LEVEL:
499 ft. below land surface. Date: 2/24/97
Artesian pressure: lb. per square inch. Date:

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

(11) WATER BEARING ZONES:
Depth at which water was first found: 523

(5) BORE HOLE CONSTRUCTION:
Special Construction approval [] Yes [X] No Depth of Completed Well: 622 ft.
Explosives used [] Yes [X] No Type: Amount:

Table with 4 columns: From, To, Estimated Flow Rate, SWL. Row 1: 523, 617, 500+, 499

Table with 6 columns: HOLE Diameter, From, To, SEAL Material, From, To, Sacks or pounds. Row 1: 24, 0, 30, cement, 0, 30, 16 sacks

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

(12) WELL LOG:
Ground Elevation:

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

(6) CASING/LINER:
Table with 8 columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing: 20, +1, 30, 250, [X], [], [], []. Liner: 14, 0, 622, 250, [X], [], [X], [].

Table with 4 columns: Material, From, To, SWL. Rows include: Sand coarse brown (0-3.5), Lava rock brown gray (3.5-6), Lava rock brown gray (6-22), Lava rock brown gray (22-25), Lava rock gray hard (25-73), Cinders black red (73-76), Lava rock brown gray red (76-81), Lava rock gray hard (81-140), Lava rock porous red (140-154), Lava rock gray hard (154-197), Lava rock gray & black red (197-203), Lava rock brown gray red (203-280), Lava rock gray red (280-292), Lava rock red gray (292-298), Andesite gray hard (298-360), Lava rock red gray porous (360-400), Streaks of cinders red (400-400), Lava rock gray hard (400-449), Lava gray red slightly brown (449-452)

Final location of shoe(s):

(7) PERFORATIONS/SCREENS:
[X] Perforations Method: Factory
[] Screens Type: Material:
Table with 8 columns: From, To, Slot size, Number, Diameter, Tube/pipe size, Casing, Liner. Row 1: 522, 622, 1/4 x 3/32, 30, 14, [], [X]

(8) WELL TESTS: Minimum testing time is 1 hour
[] Pump [] Bailer [X] Air [] Artesian
Yield gal/min: 500+ Drawdown: 620 Drill stem at: 1 hr. Time: 1 hr.

Date started: 2-4-97 Completed: 2-24-97
(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.

Temperature of water: 51 Depth Artesian Flow Found:
Was a water analysis done? [] Yes By whom:
Did any strata contain water not suitable for intake? [] Salty [] Muddy [] Odor [] Colored [] Other:
Depth of strata: JUN 29 2009

Signed: [Signature] WWC Number: 1672 Date: 2-24-97
(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: 1258 Date: 2-28-97

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

Page 2 of 2

MAR - 3 1997 (START CARD) # 89048

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

WATER RESOURCES DEPT.

(1) OWNER: Avion Water Company Well Number: 00813 Farrell Road Bend OR Zip: 97706

(9) LOCATION: SALEM, OREGON County: Deschutes Latitude: 42 N or S Range: 105 E or W. WM. Township: 18S Section: 29 NE 1/4 NE 1/4 Tax Lot: UNKNOWN Block: Subdivision: Street Address of Well (or nearest address): China Hat Rd

(2) TYPE OF WORK: [] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment (3) DRILL METHOD: [] Rotary Air [] Rotary Mud [] Cable [] Auger [] Other

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

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

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

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

Table with columns: From, To, Estimated Flow Rate, SWL

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 _____

(12) WELL LOG: Ground Elevation _____

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

Well Log Table with columns: Material, From, To, SWL. Includes entries like 'Lava gray hard', 'Lava brown brkn w/clay', 'Basalt med brkn', 'wired claystone'.

(7) PERFORATIONS/SCREENS: [] Perforations Method _____ [] Screens Type _____ Material _____

Date started 2/3/97 Completed 2/24/97

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

(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. WWC Number 1672 Signed July 17 1997 Date

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? [] 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. WWC Number 1358 Signed _____ Date 2-28-97

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

RECEIVED WATER WELL REPORT

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

STATE OF OREGON, APR 12 1978 (Please type or print)

State Well No. 185/13E-226a, State Permit No. G-7284

WATER RESOURCES DEPT.

APPL - G-10208

(1) OWNER: (WAGON WHEEL DEMENT) DEMENT

Name: ERNIE SIMPSON & ASSOCIATES

Address: 63970 SUNSET DR., BELL OREGON 97101

(2) TYPE OF WORK (check):

New Well [X] Deepening [] Reconditioning [] Abandon []

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary [X] Driven [] Cable [] Jetted [] Dug [] Bored []

(4) PROPOSED USE (check):

Domestic [] Industrial [] Municipal [] Irrigation [] Test Well [] Other [X]

CASING INSTALLED:

8" Diam. from +1 ft to 20 ft Gage 0.25

PERFORATIONS:

Perforated? [] Yes [X] No

Type of perforator used

Size of perforations in. by in. perforations from ft. to ft.

(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?

Flow rate in gal./min. with ft. drawdown after hrs. Bailer test 5 gal./min. with 0 ft. drawdown after 1 hr. 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. 18S R. 1PE 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 4 columns: MATERIAL, From, To, SWL. Entries include LOOSE LAVA, Boulders & SAND, LAVA, BROKEN LAVA & CONG., LAVA, CONG., LAVA, BROKEN LAVA, LAVA, RED CINDERS & BROKEN LAVA, LAVA, RED CINDERS, LAVA-2' TO 4' FT. CONG., LAVA, SANDSTONE, LAVA, RED CINDER CONG., LAVA, SANDSTONE CONG., LAVA, WATER-BEARING SANDSTONE.

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 J. H... Date 2-27 1978

Drilling Machine Operator's License No. 403

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 ORVAL BUCKNER (Person, firm or corporation) (Type or print) Address 1686 N.E. NEGUS RD., REDMOND ORE. 97156

[Signed] Orval Buckner (Water Well Contractor)

Contractor's License No. 608 Date 2-27 1978

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USE ADDITIONAL SHEETS IF NECESSARY)

SP-4688-119

JUN 29 2009

WATER RESOURCES DEPT SALEM, OREGON

T 10918

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

JUL 15 1997

DESC 50986

Desc 50986

Page 1 of 2

(START CARD) # 77916

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

(1) OWNER: Well Number _____
Name Avion Water Co.
Address 60813 Farrell Rd
City Bend State OR Zip 97702

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

HOLE		SEAL		Sacks or pounds	
Diameter	From To	Material	From To		
14	0 30	Cement	0 30	60	SACKS
17	30 430				
13	430 506				

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: 18	+1	30	915	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 14	7	427	188	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	390	470		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type _____

From	To	Slot size	Number	Diameter	Tele/plpe size	Casing	Liner
390	470	1/8 x 3/16	2136	12		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
700			1 hr.

Temperature of water 53 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 18S N or S Range 10E E or W. WM.
Section 17 SW 1/4 SW 1/4
Tax Lot 2214 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) same as mailing

(10) STATIC WATER LEVEL:
387 ft. below land surface. Date 6/12/95
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 387

From	To	Estimated Flow Rate	SWL
387	506	700	387

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
sandy dirt brown	0	2	
lava gray brkn	2	6	
lava gray hrd some brn	6	30	
lava gray brnsh red	30		
med some brn		57	
lava gray brn	57		
highly w/ hrd		70	
lava gray hrd	70	89	
unders red w/ brn	89		
lava brn s red		94	
lava gray hrd some brn	94	129	
unders red loose	129	137	
lava gray med brn	137	154	
unders red loose	154	161	
lava brn med soft	161	165	
lava brn brkn	165	171	
lava gray hrd some brn	171	214	
lava gray hrd	214	216	

- CONTINUED -

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 water supply well construction standards. Materials used and information reported above are true to the best of my 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 1523
Signed _____ Date 7/14/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

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-JUN 29 2009

WATER RESOURCES DEPT
SALEM, OREGON

T 10916

NOTICE TO WATER WELL CONTRACTOR

The original and true copy of this report shall be filed with the

WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310

within 30 days from the date

WATER RESOURCES DEPT SALEM, OREGON

DESC WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No. 17s/12E-19a

State Permit No.

SALEM, OREGON

(1) OWNER:

Name Avion Water Company
Address 60813 Parrell Rd, Bend, Oregon 97701

(2) TYPE OF WORK (check):

New Well [X] Deepening [] Reconditioning [] Abandon []
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary [X] Driven []
Cable [X] Jetted []
Pug [] Bored []

(4) PROPOSED USE (check):

Domestic [] Industrial [] Municipal []
Irrigation [] Test Well [] Other [X]

(5) CASING INSTALLED:

12" Diam. from +1 ft. to 26 ft. Gage .250
Threaded [] Welded []

(6) 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?
Ball test 10 gal./min. with 0 ft. drawdown after 1 hrs.

(9) CONSTRUCTION:

Well seal—Material used Cement
Well sealed from land surface to 26 ft.
Diameter of well bore to bottom of seal 16 in.

Was a drive shoe used? [] Yes [X] No Plugs Size: location ft.
Did any strata contain unusable water? [X] Yes [] 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

(10) LOCATION OF WELL:

County Deschutes Driller's well number
NE 1/4 Section 19 T. 18S R. 12E. W.M.
Bearing and distance from section or subdivision corner
West 1/2 of Lot 92, River Bend Estates

(11) WATER LEVEL: Completed well.

Depth at which water was first found 388 ft.
Static level 388 ft. below land surface. Date 2-18-80
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Table with columns: MATERIAL, From, To, SWL. Rows include Sandy Pumice Conglom., Lava, Mild, Brown Conglomerate, Broken Blk. & Red Cinder Congl., Basalt, Soft & Broken-Crevice, Lava, Soft, Mild Lava, Soft, Lava- Returns Back, Brown Conglomerate, Mild Lava, Red Cinder Conglomerate, Lava, Brown Sandstone Conglomerate, Soft & Crevice.

Work started 1-22 19 80 Completed 2-18 1980
Date well drilling machine moved off of well 2-18 1980

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 2-18, 1980
Drilling Machine Operator's License No. 962

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.
Address 1686 N.E. Negus Way, Redmond, Ore. 97756
[Signed] Date 2-18, 1980
Contractor's License No. 608 Date 2-18, 1980

RECEIVED

JUN 20 2009

The original and true copy of this report shall be filed with the

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97300
Within 30 days from the date
WATER RESOURCES DEPT
SALEM, OREGON

WATER WELL REPORT

STATE OF OREGON
(Please type or print)

(Do not write above this line)

Page 2 of 3
State Well No. 185/12E-19a
State Permit No. _____

(1) OWNER:

Name Avion Water Company
Address 60813 Parrell Rd.
Bend, Oregon 97701

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 11.

(3) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

Threaded Welded
12" Diam. from +1 ft. to 26 ft. Gage .250
" Diam. from _____ ft. to _____ ft. Gage _____
" 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

Was a pump test made? Yes No If yes, by whom?
_____ gal./min. with _____ ft. drawdown after _____ hrs.
Pg. 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 Cement (Pg. 1)
Well sealed from land surface to 26 ft.
Diameter of well bore to bottom of seal 16 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 26 sacks
How was cement grout placed? Pressure Grout

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 _____
1/4 NE 1/4 Section 19 T. 18S R. 12E W.M.
Bearing and distance from section or subdivision corner
West 1/2 of Lot 92, River Bend Estates

(11) WATER LEVEL: Completed well.

Depth at which water was first found 388 ft.
Static level 388 ft. below land surface. Date 2-18-80
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 12"

Depth drilled 447 ft. Depth of completed well 440 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
Lava	120	121	
Brown Sandstone Conglomerate	121	132	
Lava	132	133	
Brown Sandstone Conglomerate	133	135	
Lava	135	139	
Brown Conglomerate	139	141	
Broken Lava	141	156	
Lava	156	157	
Brown Conglomerate	157	158	
Lava	158	163	
Conglomerate	163	165	
Lava	165	167	
Brown Sandstone Conglomerate	167	169	
Lava	169	170	
Brown Sandstone	170	180	
Pumice	180	192	
Brown Sandstone Conglomerate	192	210	
Dark Brn. Sandstone	210	260	
Hard Lava	260	320	

Work started 1-22 19 80 Completed 1-24 1980
Date well drilling machine moved off of well 1-24 19 80

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 1-25 19 80
(Drilling Machine Operator)

Drilling Machine Operator's License No. 967

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. Megus Way, Redmond, Ore. 97756

[Signed] _____
(Water Well Contractor)

Contractor's License No. 608 Date 1-25 19 80

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.745)

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JUL 26 1993

SEP - 7 1993

18S/12E/19ac
14780

WATER RESOURCES DEPARTMENT

(START CARD) 14780

(1) OWNER:

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

Well Number: SALEM, OREGON LOCATION: SALEM, OREGON legal description:

County: DESHUTES Latitude _____ Longitude _____
Township: 18 S North Range: 12 E Dr W. W.M.
Section: 19 SW NE
Tax Lot: 201 Lot: 92 Block _____ Subdivision _____

Street Address of Well (or nearest address): ROCKING HORSE RD
LOWER BEND STATES WEST 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.	
1 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:

Casing:	Diameter	From	To	Gauge	Steel		Plastic		Welded		Threaded	
					□	□	□	□	□	□	□	□
	14"	+2	30'	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:	12"	-3	447'	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of sheets: _____

(7) PERFORATIONS/SCREENS:

Perforations Method: MILLS KNIFE
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tel./pipe size	Casing	Liner
457	447	1/32"	640	12"		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Pump Bailor Air Flowing Artesian

Yield gal/min _____ Drawdown _____ Drill stem at _____ Time _____

506 GPH.			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? Yes _____

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:

Material	From	To	SWL
BROWN SANDY SOIL	0	8'	
BROKEN LAVA (MED)	8'	19'	
GRAY ROCK (MED)	19'	45'	
BROWN CONG.	45'	110'	
BROKEN LAVA (HARD)	110'	125'	
RED SANDER CONG.	125'	170'	
GRAY SANDSTONE	170'	220'	
BROWN SANDSTONE	220'	290'	
(HARD) GRAY ROCK	290'	325'	
CRUSHERS BROKEN ROCK	325'	380'	
RED SANDER CONG.	380'	390'	
BROWN SANDSTONE CONG.	390'	590'	
GRAY ROCK (HARD)	590'	415'	
BROKEN LAVA HARD	415'	445'	
RED SANDER GRAVEL (W.B.)	445'	445'	390
HARD GRAY ROCK	445'	447'	

Date started: 5-10-93 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.

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.

WWC Number 1536

Signed Ray M. Paly Date 7-12-93

JUN 29 2009

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Desk
4143

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

DESG
 51660

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18-12E-21ad

JUN 12 1987

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

(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	435				

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	Steel		Plastic		Welded		Threaded	
					Steel	Plastic	Welded	Threaded				
Casing	12"	+2	27 1/2	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10" x x x		435	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner	10"	+1	435	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

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 Baller Air Flowing Artesian
 Yield gal/min 475 Pumping level 371 Drill stem at _____ Time 1 hr

Temperature of water 52 Depth Artesian Flow Found _____
 Was a water analysis done? Yes No By whom _____
 Did any strata contain water not suitable for intended use?
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

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JUN 20 2009

(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 4 NE 4
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 60615 Tekampe Rd Bend, Oregon

(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 cavin	351	363		
gray basalt fractured	363	381	WB	375
gray basalt fractured	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 Just 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

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

STATE OF OREGON
Please type or print)
(Do not write above this line)
RECEIVED
APR 24 1979

DESC
538

State Well No. 185/12E-21AD
State Permit No. _____

(1) OWNER:

Name AVION WATER COMPANY SALEM, OREGON
Address 60819 Parrall Road
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:

Rotary Driven
Cable Jetted
Dug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

CASING INSTALLED:

Threaded Welded
12 I.D. Start from +1 1/2 ft. to 33 1/2 ft. Gage .250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

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

Was a pump test made? Yes No If yes, by whom?
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
_____ gal./min. with _____ ft. drawdown after _____ hrs.
Bailer test 24 gal./min. with 0 ft. drawdown after 1 hrs.
Artesian flow _____ g.p.m.
Temperature of water 58 Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used sement
Well sealed from land surface to 33 1/2 ft.
Diameter of well bore to bottom of seal 17 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 70 sacks
How was cement grout placed? pumped under pressure
down the annular space drilled for the grout
until it flowed out of the top
Was a drive shoe used? Yes No Plug _____ 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.

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(10) LOCATION OF WELL:

County Deschutes Driller's well number _____
SE 1/4 NE 1/4 Section 21 T. 18S R. 12E W.M. _____
Bearing and distance from section or subdivision corner
Tecampe Rd.

(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
Brown sandy soil	0	6	
Grey, broken lava	6	35	
Red, broken rock	35	44	
Grey lava	44	51	
Med., red cinders	51	58	
Grey, broken lava	58	105	
Crevices (no return)	105	127	
Med., brown conglomerate	127	174	
Coarse, red cinders	174	189	
Med., brown sandstone	189	220	
Grey lava	220	231	
Med., brown sandstone	231	238	
Crevices (no return)	238	247	
Grey, broken lava	247	278	
Med. brown conglomerate	278	352	
Red, coarse cinders	352	371	
Coarse, black cinders-water-bearing	371	397	374
Med. brown conglomerate	397	412	

Work started Feb. 12 1979 Completed April 4 1979

Date well drilling machine moved off of well April 5 1979

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] Bellet R. Linn Date 4-5, 1979
(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, 1979

(USE ADDITIONAL SHEETS IF NECESSARY)

WATER RESOURCES DEPT
SALEM, OREGON

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-214D

State Permit No. _____

RECEIVED

DESC 538

(1) OWNER:

APR 24 1979

Name AVION WATER COMPANY WATER RESOURCES DEPT.
Address 60813 Parrell Road SALEM, OREGON
Band, Oregon 97781

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

CASING INSTALLED:

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 _____

_____ 1/4 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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JUN 29 2009

WATER RESOURCES DEPT
SALEM, OREGON

Work started Feb. 12 1979 Completed April 4 1979

Date well drilling machine moved off of well April 5 1979

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] Belle R. Tim Date 4-5, 1979
(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. 408 Date 4-5, 1979

T 10918

STATE OF OREGON
WATER WELL REPORT
 (as required by ORS 537.785)

DESC
 5659

RECEIVED

JUN 28 1989

18S/12E/21 ad

(START CARD) # 5306

(1) **OWNER:**
 Name Avion Water Company, Inc.
 Address 60813 Parnell Road
 City Bend State OR Zip 97702

WATER RESOURCES DEPT
LOCATION OF WELL by legal description:
 County Desch Latitude _____ Longitude _____
 Township 18S Nor S. Range 12E E or W. WM. _____
 Section SE 14 NE 14
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) _____

(2) **TYPE OF WORK:**
 New Well Deepen Recondition Abandon

(3) **DRILL METHOD**
 Rotary Air Rotary Mud Cables
 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	pounds
18"	0 -20	cement	0 -19	23	
16"	-20 -426				
10"	-426 -430				

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"	+1	-19	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner: 12"	-3	-426	.188	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) **PERFORATIONS/SCREENS:**
 Perforations Method factory
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Telco/pipe size	Casing	Liner
-366	-426		2160	1/4"		<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) **WELL TESTS: Minimum testing time is 1 hour**
 Pump Bailor Air Flowing Artesian
 Yield gal/min 8 gpm Drawdown no 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 _____
 Depth of strata: _____

(10) **STATIC WATER LEVEL:**
373 ft. below land surface. Date 6-16-89
 Artesian pressure _____ lb. per square inch. Date _____

(11) **WATER BEARING ZONES:**
 Depth at which water was first found 378

From	To	Estimated Flow Rate	SWL
378	421		373

(12) **WELL LOG:** Ground elevation _____

Material	From	To	SWL
topsoil	0	3	
sandstone & boulders	3	12	
grey hard rock	12	20	
soft brown broken rock	20	89	
lost return	89	378	373
soft broken rock WB	378	421	
black hard rock	421	430	

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JUN 29 2009

WATER RESOURCES DEPT
 SALEM, OREGON

Date started 5-8-89 Completed 6-17-89

(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.

WWC Number 570
 Signed [Signature] Date 6-25-89

T 10918

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

STATE ENGINEER, SALEM, OREGON 97300
within 30 days from the date
of well completion.

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

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State Well No. _____

JAN 15 1976

State Permit No. _____

WATER RESOURCES DEPT.

SALEM, OREGON

(1) OWNER:

Name JARY CLAWSON
Address RT 1 BOX 607
RENO OREG.

(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
Pug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

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

(6) PERFORATIONS:

Perforated? Yes No.

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

(7) SCREENS:

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?
_____ gal./min. with _____ ft. drawdown after _____ hrs.
_____ gal./min. with _____ ft. drawdown after _____ hrs.
_____ 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 MIX 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 6 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 Flugs _____ 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 _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County DESCHUTES Driller's well number _____
NE 1/4 Section 31 T. 185 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 76
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 such 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	30	35	
LAVA	35	230	
BROKEN LAVA	230	250	
RED LAVA (CYANITE)	250	300	
BROKEN LAVA	300	400	
RED CYANITE	400	405	
"	405	575	
BROKEN SANDSTONE	575	680	
BROKEN LAVA	630	760	
BLACK SAND	760	880	
(WATER)	820	850	
FINE BLACK SAND	850	925	855

Work started APR. 12 1974 Completed 1-1-1976

Date well drilling machine moved off of well 1-5-1976

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] [Signature] Date 1-2-1976
(Drilling Machine Operator)

Drilling Machine Operator's License No. 552

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] [Signature]
(Water Well Contractor)

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

SEE ADDITIONAL SHEETS IF NECESSARY

SP-4000-110

JUN 29 2005

WATER RESOURCES DEPT
SALEM, OREGON

T 10918

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Attachment E

Well Logs for Proposed Additional Points of Appropriation

Well Name	Well Log Numbers
China Hat 2	DESC 52881
Deschutes River Woods	DESC 55124
Riverbend 3	DESC 57475
Dyer 1	DESC 58007

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**WATER RESOURCES DEPT
SALEM, OREGON**

T 10918

WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

DESC 52881

Received Date 03/14/2000

Well ID Tag # L 40122

Start Card # 125179

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

(1) OWNER

Name **AVION WATER CO. INC.**

Street **60813 DARRELL RD**

City **BEND** State **OR** Zip **977022507**

Well Number

(2) TYPE OF WORK

New Alter (Recondition) Alter (Repair)

Deepening Abandonment

(3) DRILL METHOD

Rotary Air Rotary Mud Cable Auger

Other

(4) PROPOSED USE

Domestic Community Industrial Irrigation Injection

Livestock Thermal Other

(5) BORE HOLE CONSTRUCTION

Special Standards Depth of completed well **624** ft.

Explosives Used Amount Type

Diameter	From	To	Material	Begin Depth	End Depth	Material Amount	Units
20.00	0.00	624	Cement	0.00	30.00	44.00	S
			Cement	497.0	507.00	12.00	S

How as seal placed: Method **C** Other

Backfill placed from **30** ft. TO **497** ft. Material **SA**

Filter pack from **ft.** TO **ft.** Size **in.**

(6) CASING/LINER

Casing or Liner	Diameter	Begin Depth	End Depth	Gauge	Material	Weld	Threaded	Location Of Shoe
C	14.00	1.00	624.00	.375	S			

(7) PERFORATION/SCREENS

Perforations Method

Screens Type Material

Diameter	From	To	Gauge	Material	Type	Slot Size
14.00	519	624		S	C	.010

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

Type	Yield	Units	Drawdown	Stem at	Duration
Air	500.0	G		550	1.0

Temperature of water **43** °F/C Depth artesian flow found **ft.**

Was water analysis done?

By Whom? **AVION WATER DISTRICT**

Did any strata contain water not suitable for intended use? Too Little Salty

Muddy Odor Colored Other

Depth of strata **ft.**

(9) LOCATION OF HOLE By legal description

County Latitude Longitude

Township **18.00 S** Range **12.00 E** Subdivision

Tax lot **900** Lot **Block**

Section **29 SE 1/4 NE 1/4**

Street Address of Well (or nearest address)
60395 CHINA HAT RD

MAP with location identified must be attached

(10) STATIC WATER LEVEL

501.0 Ft. below land surface. Date **02/28/2000**

Artesian Pressure lb/sq. in. Date

(11) WATER BEARING ZONES

Depth at which water was first found **501** ft.

From	To	Est. Flow Rate	SWL
508	618	500	501

(12) WELL LOG Ground Elevation **ft.**

Material	From	To	SWL
SANDY LOAM	0	6	
LAVA GRAY BROKEN	6	12	
LAVA GRAY POROUS	12	30	
LAVA GRAY FRAC MED	30	50	
LAVA GRAY RED BROKEN	50	55	
LAVA GRAY MED	55	165	
BASALT GRAY FARC	165	202	
LAVA RED FINE	202	223	
BASALT GRAY	223	270	
CINDERS FINE BROWN	270	272	
BASALT GRAY	272	287	
ANDESITE GRAY HARD	287	367	
LAVA GRAY RED	367	388	
ANDESITE GRAY HARD	388	400	
CAVESNOUS LOST SICULATION	400	405	
SOFT NO SICULATION	405	425	
LAVA BLACK MED	425	430	
LAVA VARIOUS	425	624	501

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JUN 29 2009

WATER RESOURCES DEPT
SALEM, OREGON

Date started **02/15/2000** Completed **03/03/2000**

(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 the best knowledge and belief.

Signed By **TERRY M MCCOY JR**
(bonded) Water Well Constructor Certification: WWC Number **1672**

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.

WWC Number **1464**
Signed By **GREG MCINNIS** GEO-TECH EXPLORATIONS

T 10918

Amendment
DESC 55124

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 337.765)

(WELL I.D.)# L 88412
(START CARD) # 158230

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

(1) OWNER: Well Number _____
Name Alliance Community Church
Address 18741 Baker Rd
City Bend State OR Zip 97002

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

HOLE SEAL

Diameter	From	To	Material	From	To	Sacks or pounds
20"	0	310	Cement	210	300	11 yards
			Cement	0	30	25 Sacks
16"	310	520				
20" UR	405	415	Cement	400	415	22 Sacks

How was seal placed: Method A B C D E
 Other
Backfill placed from 30 ft. to 210 ft. Material Sand/cement
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 16"	+1	415	0.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 14"	405	415	0.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method Factory Machine Slot
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
415	520	1/8x3	2800	14" 0.375		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Pump Bailor Air Flowing Artesian
Yield gal/min Drawdown Drill stem at Time

(*) MFR		520	1 hr.
---------	--	-----	-------

Temperature of water 68 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 18 S Range 12 E WM
Section 30 NE 1/4 NW 1/4
Tax Lot 5300 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 18741 Baker Rd Bend OR, 97002

(10) STATIC WATER LEVEL:
405 ft. below land surface. Date Jan 13, 2003
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 200

From	To	Estimated Flow Rate	SWL
200	225	150 GPM Plus	187
302	310	100 GPM Plus	187
405	520	800 GPM Plus	405

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
Soil	0	7	
Grey Basalt	7	79	
Brown Lava	79	105	
Broken Lava Black and Brown	105	119	
Black Basalt	119	157	
Red and Brown Lava soft with Clay stone	157	190	
Black Basalt	190	200	
Broken Black Basalt	200	225	
Black Basalt	225	302	
Broken Lava weathered with Pea gravel	302	310	
Grey Lava	310	405	
Lava and Cinders Grey and Red	405	435	
Lava and Cinders Brown and Red	435	443	
Lava Black	443	483	
Lava weathered Caving	483	487	
Lava Grey Fractured	487	520	

* No return - Water could not be measured
in gallons per minute

Date started October 2, 2002 Completed January 13, 2003
(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 1823
Date Jan 27, 2003

(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 1464
Date Jan 27, 2003

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

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JUN 29 2009

WATER RESOURCES DEPT
SALEM, OREGON

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FEB 10 2003
WATER RESOURCES DEPT.
SALEM, OREGON

DESC 57475
 if men 828
 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			secks/	
Dia	From	To	Material	To	Amt	lbs	
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 checked="" type="checkbox"/>	<input type="checkbox"/>

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

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

Pump Bailor 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

(9) LOCATION OF WELL (legal description)
 County DESCHUTE! 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

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
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

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 JUN 29 2009
 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) Boert Longear Company / Geo-Tech Explorations



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
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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WATER RESOURCES DEPT
SALEM, OREGON

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JAN 16 2007

WATER RESOURCES DEPT
SALEM, OREGON

DESC 58007

DESC 58007

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

05-17-2007

AMENDED
6/14/07

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

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

(3) DRILL METHOD

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

(4) PROPOSED USE

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

(5) BORE HOLE CONSTRUCTION

Depth of Completed Well 854.00 ft. Special Standard [] Attach copy

Table with columns: Dia, From, To, Material, SEAL, Amt, lbs. Rows show cement seal details at 0, 19, 31, 620, and 645 ft depths.

How was seal placed: Method [] A [] B [X] 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

Table with columns: Casing Liner Dia, From, To, Gauge, Std, Plstc, Wld, Thrd. Shows casing details for 20" and 16" diameters.

Shoe [] Inside [X] Outside [] Other Location of shoe(s) 854

Temp casing [] Yes Dia From To

(7) PERFORATIONS/SCREENS

Perforations Method Factory Milled

Screens Type Material

Table with columns: Perf/Screen Liner Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/pipe size. Shows perforation details for 16" casing.

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

[X] Pump [] Bailer [] Air [] Flowing Artesian

Table with columns: Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr). Shows test results: 1,500 gal/min, 20.5' drawdown, 820' depth, 1.5 hr duration.

Temperature 56 °F Lab analysis [] Yes By

Water quality concerns? [] Yes (describe below)

Table with columns: From, To, Description, Amount, Units. For water quality concerns.

(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 * 0 * or DMS or DD
Long * 0 * or DMS or DD
[] Street address of well [] Nearest address

63365 HAMEHOOK RD

(10) STATIC WATER LEVEL

Table with columns: Existing Well / Predeepening, Date, SWL(psi), + SWL(ft). Shows completed well on 05-10-2007 with SWL of 694.

Flowing Artesian? [] Dry Hole? []

WATER BEARING ZONES

Table with columns: SWL Date, From, To, Est Flow, SWL(psi), + SWL(ft). Shows water bearing zones with SWL values ranging from 694 to 784.

(11) WELL LOG

Table with columns: Material, From, To. Shows well log details including 'See Attached' for material from 0 to 854 ft.

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JUN 29 2009

JUN 18 2007

WATER RESOURCES DEPT
SALEM, OREGON

Date Started 03-05-2007 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)

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 Cyinders 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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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 #: LB4181

Material Description	From:	To:
Basalt Gray & Red Soft	480'	485'
Cynders Red	485'	506'
Basalt Dark Brown Med Hard Vesicular	505'	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'	854' 854'
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