

Water Right Conditions
Tracking Slip

Groundwater/Hydrology Section

FILE ## G-17542

ROUTED TO: Water Rights - Jenna
TOWNSHIP/

RANGE-SECTION: 23S/32E-28, 29
32, 33

CONDITIONS ATTACHED? yes no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Mike Zwart

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO: Water Rights Section Date April 12, 2012

FROM: Ground Water/Hydrology Section Michael Zwart
Reviewer's Name

SUBJECT: Application G- 17542 Supersedes review of _____
Date of Review(s)

PUBLIC INTEREST PRESUMPTION; GROUNDWATER

OAR 690-310-130 (1) *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525. Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. This review is based upon available information and agency policies in place at the time of evaluation.*

A. GENERAL INFORMATION: Applicant's Name: Andy Root County: Harney

- A1. Applicant(s) seek(s) 1.3 cfs from five well(s) in the Malheur Lake Basin,
Harney Valley subbasin Quad Map: Poison Creek Slough
- A2. Proposed use: Supp. Irrigation, 102.5 ac. Seasonality: March 1 to October 31
- A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	HARN 601	2	Valley Fill	1.3	23S/32E-28 SW-NW	2000' S, 630' E fr NW cor S 28
2	HARN 607	3	Valley Fill	1.3	23S/32E-29 SE-NE	1690' S, 920' W fr NW cor S 28
3	HARN 606	6	Valley Fill	1.3	23S/32E-29 NW-NW	860' S, 1280' E fr NW cor S 29
4	HARN 51822	7	Valley Fill	1.3	23S/32E-33 NW-NW	250' S, 250' E fr NW cor S 33
5	HARN 615	8	Valley Fill	1.3	23S/32E-32 NE-NE	50' S, 300' W fr NE cor S 32

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	4131	15	18	06/15/55	191	0-30	0-160?	None	50-155	590	50	P
2	4134	15	?		240	0-30	0-160?	None	50-160	1150	57	P
3	4133	?	12	05/04/62	83	0-18?	0-90	None	18-77	?		
4	4130	40	40	12/09/11	650	0-20	0-220	None	None	400		A
5	4130	?	30	06/30/63	224	0-24	0-224	None	90-210	1000	100	P

Use data from application for proposed wells.

A4. **Comments:** The older well logs are not as complete as they could be. Two report perforations below the reported casing depth, so the casing interval is estimated above. HARN 606 does not report a seal, but this constructor sealed the older wells here, so I believe it is likely that this well has a seal to 18 feet, where perforations are reported. However, this is not certain. See additional comments at D4.

A5. **Provisions of the Malheur Lake** _____ Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water are, or are not, activated by this application. (Not all basin rules contain such provisions.)
 Comments: _____

A6. **Well(s) #** _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.
 Name of administrative area: _____
 Comments: _____

C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1. **690-09-040 (1):** Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
All	Valley-fill sediments, Qal of GW Report #16	<input type="checkbox"/>	<input checked="" 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"/>

Basis for aquifer confinement evaluation: Most wells report the static water level near the depth where groundwater was encountered

C2. **690-09-040 (2) (3):** Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Basis for aquifer hydraulic connection evaluation: The local creeks/sloughs are subject to the memo by Ivan Gall, 1/15, 2008: Stream Assessment for Division 9 Review in the Malheur Lakes Basin. They are intermittent and likely contain water only in very wet years. Groundwater likely provides negligible baseflow to these creeks. There is no need to perform a formal assessment of the multiple wells proposed for these creeks.

Water Availability Basin the well(s) are located within: Poison Cr Slough > Ninemile Slough at mouth (31200106).

C3a. **690-09-040 (4):** Evaluation of stream impacts for each well that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Complete only if Q is distributed among wells. Otherwise same evaluation and limitations apply as in C3a above.

SW #	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Comments: This section does not apply.

C4a. **690-09-040 (5):** Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) > (C)													
(E) = (A / B) x 100		%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

D. WELL CONSTRUCTION, OAR 690-200

D1. Well #: 3 Logid: HARN 606

D2. THE WELL does not meet current well construction standards based upon:

- a. review of the well log;
- b. field inspection by _____;
- c. report of CWRE _____;
- d. other: (specify) _____

D3. THE WELL construction deficiency:

- a. constitutes a health threat under Division 200 rules;
- b. commingles water from more than one ground water reservoir;
- c. permits the loss of artesian head;
- d. permits the de-watering of one or more ground water reservoirs;
- e. other: (specify) _____

D4. THE WELL construction deficiency is described as follows: The Well Report does not report a surface seal, however, based on other wells installed by this constructor, I suspect that this was an oversight when he filled out the Well Report. Nonetheless, Enforcement staff should be notified.

- D5. THE WELL
- a. was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.
 - b. I don't know if it met standards at the time of construction.

D6. Route to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

D7. Well construction deficiency has been corrected by the following actions: _____

_____, 200_____
(Enforcement Section Signature)

D8. Route to Water Rights Section (attach well reconstruction logs to this page).

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

WATER WELL REPORT

STATE ENGINEER STATE OF OREGON
(Please type or print)
SALEM, OREGON

State Well No. 23/32-32
State Permit No. _____

615
HARNEY

(1) OWNER:

Name T.J. DUHAIME
Address BURNS OREGON

(2) LOCATION OF WELL:

County HARNEY Driller's well number 17
NE 1/4 Section 32 T. 235 R. 32E W.M.
Bearing and distance from section or subdivision corner
300' WEST 50' SOUTH OF THE
NORTH EAST CORNER OF SEC 32

(3) TYPE OF WORK (check):

Well Deepening Reconditioning Abandon
Abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):

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

(5) TYPE OF WELL:

(6) CASING INSTALLED:

Threaded Welded
1 1/2" Diam. from 0 ft. to 224 ft. Gage 1/4"
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? Yes No
Type of perforator used TORCH CUT
Size of perforators 3/16 in. by 4 in.
1300 perforations from 90 ft. to 210 ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

(8) SCREENS:

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

(9) CONSTRUCTION:

Well seal—Material used in seal 24'-30" x 3/8" Conductor
Depth of seal _____ ft. Was a packer used? No Casing
Diameter of well bore to bottom of seal _____ in.
Were any loose strata cemented off? Yes No Depth _____
Was a drive shoe used? Yes No
Was well gravel packed? Yes No Size of gravel: 3/4 Minus
Gravel placed from 0 ft. to 224 ft.
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(10) WATER LEVELS:

Static level 30 ft. below land surface Date JUNE 30-63
Artesian pressure _____ lbs. per square inch Date _____

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? MCGUIRE
Yield: 1000 gal./min. with 100 ft. drawdown after 10 hrs.
" " " "
" " " "
Bailer test gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes No

(12) WELL LOG:

Diameter of well below casing _____
Depth drilled 224 ft. Depth of completed well 224 ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
TOP SOIL	0	8
SAND FINE	8	22
CLAY BLUE	22	60
GRAVEL MED	60	62
CLAY BLUE	62	96
GRAVEL MED	96	98
CLAY BLUE	98	200
GRAVEL MED	200	210
CLAY BLUE	210	224

A 30" X 3/8" X 24' CONDUCTOR CASING
WAS INSTALLED TO SEAL TOP WATER
CONDUCTOR CASING WAS INSTALLED
IN 30" HOLE AND STOPPED IN CLAY
SEALED WITH PUDDLED BENTONITE

Work started 6-19 1963 Completed 6-28 1963
Date well drilling machine moved off of well 6-29 1963

(13) PUMP:

Manufacturer's Name _____
Type: _____ H.P. _____

Water Well Contractor's Certification:

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

NAME MCGUIRE DRILLING Co.
(Person, firm or corporation) (Type or print)
Address Box 909 BURNS ORE
Drilling Machine Operator's License No. 81
[Signed] J.H. McGuire
(Water Well Contractor)
Contractor's License No. 383 Date 7-2, 1963

ORIGINAL
File Original, and
Duplicate with the
STATE ENGINEER,
SALEM, OREGON

JUN 4 1956
STATE ENGINEER

WATER WELL DRILLERS REPORT
STATE OF OREGON

Do Not State Well No. 23/32 - 28E(1)
Fill In State Permit No. U 731

(1) OWNER: SALEM, OREGON
Name T.J. Duhaime & Bessie Duhaime
Address Burns Oregon

(2) LOCATION OF WELL:
County Harney Owner's number, if any no 2
R. F. D. or Street No. _____
Bearing and distance from section or subdivision corner
Well No 2 is located 2138
S. and 650 ft. E. from NW corner
Section 28 Twp. 23 S. Range 32 E. W.M.

(3) TYPE OF WORK (check):
New well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic Industrial Municipal
Irrigation Test Well Other

(5) EQUIPMENT:
Rotary
Cable
Dug Well

(6) CASING INSTALLED:
Threaded Welded
FROM 1 ft. to 70 ft. 8" Diam. 3/8 Gage or Wall
" 65 " 95 " 6 " 3/8 "
" " " " " "
" " " " " "
" " " " " "
" " " " " "
Type and size of shoe or well ring well
Describe joint welded

If gravel packed
Diameter of Bore from ft. to ft.
Size of gravel:

(7) PERFORATIONS:
Type of perforator used cut by torch
SIZE of perforations in., length, by in.
FROM 50 ft. to 65 in. 8" casing part per foot No. of rows
" 115 " 155 " 6 " " " " " " "
" rows vertical alternating rows
" rows approximately four inches
" apart

SCREENS:
Give Manufacturer's Name, Model No. and Size none

(8) CONSTRUCTION:
Was a surface sanitary seal provided? Yes No To what depth 30 ft.
Were any strata sealed against pollution? Yes No
If yes, note depth of strata
FROM _____ ft. to _____ ft.

METHOD OF SEALING ring was welded to casing to prevent surface
water from running into well

(9) WATER LEVELS:
Depth at which water was first found 15 ft.
Standing level before perforating Put in before pipe was ft.
Standing level after perforating cut in well 18 ft.

Log Accepted by:
[Signed] T.J. Duhaime Dated June 15, 1955
Owner

(10) WELL TESTS:
Was a pump test made? Yes No If yes, by whom? SWNER
Yield: 590 gal./min. with 50 ft. draw down after 100 hrs.
" " " " " "
" " " " " "
Artesian flow _____ g.p.m.
Shut-in pressure _____ lbs. per square inch.
Bailer test _____ g.p.m. with _____ ft. drawdown
Temperature of water _____ Was a chemical analysis made? Yes No
Was electric log made of well? Yes No

(11) WELL LOG:
Diameter of well, 8" x 6" inches.
Total depth 191 ft. Depth of completed well 191 ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.
1 ft. to 30 ft.
30 " 55 " blue shale.
55 " 65 " gravel sand water flow
65 " 115 " blue shale
115 " 145 " gravel & water flow
145 " 150 " blue clay
150 " 155 " " "
155 " 160 " " "
160 " 165 " " "
165 " 170 " " "
170 " 175 " " "
175 " 180 " " "
180 " 189 " sand
189 " 191 " gravel water flow

Ground elevation at well site 4140 feet above mean sea level.
Work started June 10 1955 Completed June 15 1955

Well Driller's Statement:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
NAME PAUL M. CHRISLEY
(Person, firm, or corporation) (Typed or printed)
Address BURNS OREGON
Driller's well number _____
[Signed] Paul M. Chrisley
(Well Driller)
License No. NO Dated June 15, 1955

(1) OWNER: ALEM, OREGON
 Name T.J. Duhaime & Benie Duhaime
 Address Burns Oregon

(2) LOCATION OF WELL:
 County Harney Owner's number, if any— THREE
 R. F. D. or Street No.
 Bearing and distance from section or subdivision corner
 Well No 3 is located 182.6 ft S. and 10.40 ft W. from NE corner Sec 29 Twp 2 S. R. 32 E. W. 11.

(3) TYPE OF WORK (check):
 New well Deepening Reconditioning Abandon
 At abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
 Domestic Industrial Municipal
 Irrigation Test Well Other
 (5) EQUIPMENT:
 Rotary
 Cable
 Dug Well

(6) CASING INSTALLED:
 Threaded Welded
 FROM 1 ft. to 7.5 ft. 12" Diam. 3/8 Gage or Wall
 " 7.5 " 11.5 " 3/4 "
 " " " " " "
 " " " " " "
 " " " " " "
 Type and size of shoe or well ring 1 1/2" collar Size of gravel:
 Describe joint Welded

(7) PERFORATIONS:
 Type of perforator used cut by torch
 SIZE of perforations 6 in., length, by 1/4 in.
 FROM 50 ft. to 65 ft. 12" casing per foot No. of rows
 " 11.5 " 160 " 17 " " " "
 " ang vertical alternating rows " " "
 " rows approximately four inches " " "
 " apart. " " "

SCREENS:
 Give Manufacturer's Name, Model No. and Size none

(8) CONSTRUCTION:
 Was a surface sanitary seal provided? Yes No To what depth 30 ft.
 Were any strata sealed against pollution? Yes No
 If yes, note depth of strata
 FROM ft. to Ring was welded to casing to prevent surface water from running into well
 METHOD OF SEALING

(9) WATER LEVELS:
 Depth at which water was first found 15 ft.
 Standing level before perforating Put in before pipe was ft.
 Standing level after perforating Put in well ft.

Log Accepted by:
 [Signed] T. J. Duhaime Dated June 25, 1955
 Benie Duhaime Owner

(10) WELL TESTS: OBSERVATION WELL

Was a pump test made? Yes No If yes, by whom? Western Pump
 Yield: 1150 gal./min. with 57 ft. draw down after 17 hrs.
 " " " " " "
 " " " " " "
 Artesian flow _____ g.p.m.
 Shut-in pressure _____ lbs. per square inch.
 Bailer test _____ g.p.m. with _____ ft. drawdown
 Temperature of water _____ Was a chemical analysis made? Yes No
 Was electric log made of well? Yes No

(11) WELL LOG:

Diameter of well, 12" 9 1/8" inches.
 Total depth 240 ft. Depth of completed well 240 ft.
 Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.
 1 ft. to 16 ft. surface soil
 16 " 40 " Brown quick sand
 40 " 50 " Blue shale
 50 " 65 " gravel
 65 " 100 " Blue shale
 100 " 105 " gravel & sand
 105 " 125 " " "
 125 " 145 " Blue shale
 145 " 155 " Sandy shale
 155 " 165 " gravel
 165 " 195 " Blue shale
 195 " 200 " gravel & sand
 200 " 215 " " "
 215 " 225 " Sandy shale
 225 " 240 " gravel sand
 " " " " " "
 " " " " " "
 " " " " " "
 " " " " " "
 " " " " " "
 " " " " " "
 " " " " " "
 " " " " " "
 " " " " " "

Ground elevation at well site 4140 feet above mean sea level.
 Work started June 15 1955 Completed June 25 1955

Well Driller's Statement:
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Paul G Chrisley
 (Person, firm, or corporation) (Typed or printed)

Address Burns Oregon
 Driller's well number

[Signed] Paul G Chrisley
 (Well Driller)

License No. N.O. Dated June 25, 1955

RECEIVED
MAY 11 1962

File Original and
First Copy with the
STATE ENGINEER,
SALEM, OREGON

STATE ENGINEER WATER WELL REPORT
SALEM, OREGON STATE OF OREGON

State Well No. 23/32-29D

(1) OWNER: J. J. Duhaime
Name

Address Beune, Oregon

(2) LOCATION OF WELL:
County HARNEY Owner's number, if any—
1/4 1/4 Section 29 T. 23S R. 32E W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):
New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic Industrial Municipal
Irrigation Test Well Other

(5) TYPE OF WELL:
Rotary Driven
Cable Jetted
Dug Bored

(6) CASING INSTALLED: Threaded Welded
12" Diam. from 0 ft. to 90 ft. Gage 1/4"

(7) PERFORATIONS: Perforated? Yes No
Type of perforator used TORCH
SIZE of perforations 1/8" in. by 12 in.
8 perforations from 18 ft. to 20 ft.
18 perforations from 65 ft. to 77 ft.

(8) SCREENS: Well screen installed Yes No
Manufacturer's Name
Type Model No.
Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Was well gravel packed? Yes No Size of gravel:
Gravel placed from ft. to ft.
Was a surface seal provided? Yes No To what depth? ft.
Material used in seal—
Did any strata contain unusable water? Yes No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 12 ft. below land surface Date 5-20
Artesian pressure lbs. per square inch Date 5-4

Log Accepted by:
[Signed] _____ Date _____ 19____
(Owner)

(11) 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	gal./min. with	ft. drawdown after	hrs.
Artesian flow	g.p.m. Date		
Temperature of water <u>50</u>	Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

(12) WELL LOG: Diameter of well 12 inches.
Depth drilled 212 ft. Depth of completed well 83 ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	4
filled sand	4	14
gray clay	14	18
Broken sand	18	20
blue clay	20	65
red binder in gravel	65	83
blue clay	83	110
blue sandy shale	110	140
light blue sand	140	152
blue clay	152	212

This well was plugged off
from 83 ft to 85 ft.
with cement slugs leaving
a depth of 83 ft.
leaving 139 ft. of unusable
hole.

Work started 4-29 1962 Completed 5-4 1962

(13) PUMP:
Manufacturer's Name
Type: H.P.

Well Driller's Statement:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Paul Christy
(Person, firm, or corporation) (Type or print)
Address
Driller's well number
[Signed] _____ (Well Driller)
License No. 272 Date _____ 19____

STATE OF OREGON

WATER SUPPLY WELL REPORT

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

12-14-2011

WELL LABEL # L 107661

START CARD # 1015411

(1) LAND OWNER Owner Well I.D. First Name Last Name Company ACW Address PO Box 751 City Burns State Or Zip 97720

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

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

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

(5) BORE HOLE CONSTRUCTION Special Standard [] Attach copy Depth of Completed Well 650.00 ft.

Table with columns: Dia, From, To, Material, SEAL From, To, Amt, sacks/lbs. Row 1: 18, 0, 20, Bentonite Chips, 0, 20, 60, S

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

[X] Other poured & tamped

Backfill placed from ft. to ft. Material

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, Stl, Plstc, Wld, Thrd. Row 1: 14, 2, 160, .250, [X]

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

Temp casing [] Yes Dia From To

(7) PERFORATIONS/SCREENS

Perforations Method

Screens Type Material

Table with columns: Perf/S, Casing/Screen, Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/pipe size

Table with columns: Perf/S, Casing/Screen, Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/pipe size

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

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

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

Table with columns: Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr). Row 1: 400, 300, 1

Temperature 70 °F Lab analysis [] Yes By

Water quality concerns? [] Yes (describe below)

Table with columns: From, To, Description, Amount, Units

(9) LOCATION OF WELL (legal description)

County Harney Twp 23.00 S N/S Range 32.00 E E/W WM Sec 33 NW 1/4 of the NW 1/4 Tax Lot 5300

34103 Rye Grass Lane Burns, Or 97720

(10) STATIC WATER LEVEL

Table with columns: Date, SWL(psi), SWL(ft). Row 1: 12-09-2011, 40

Flowing Artesian? [] Dry Hole? []

WATER BEARING ZONES Depth water was first found 40

Table with columns: SWL Date, From, To, Est Flow, SWL(psi), SWL(ft). Row 1: 12-09-2011, 40, 650, 400, 40

(11) WELL LOG

Table with columns: Material, From, To. Rows: Topsoil Clay Loam (0-1), Clay brown (1-30), Clay grey (30-42), Sand medium (42-60), Clay grey (60-80), Sand fine black (80-102), Clay green (102-120), Sand fine black (120-180), Clay green (180-480), Claystone green (480-650)

Date Started 11-21-2011 Completed 12-09-2011

(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.

License Number Date

Electronically Filed

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.

License Number 1424 Date 12-14-2011

Electronically Filed

Signed TIMOTHY K RILEY (E-filed)

Contact Info (optional)

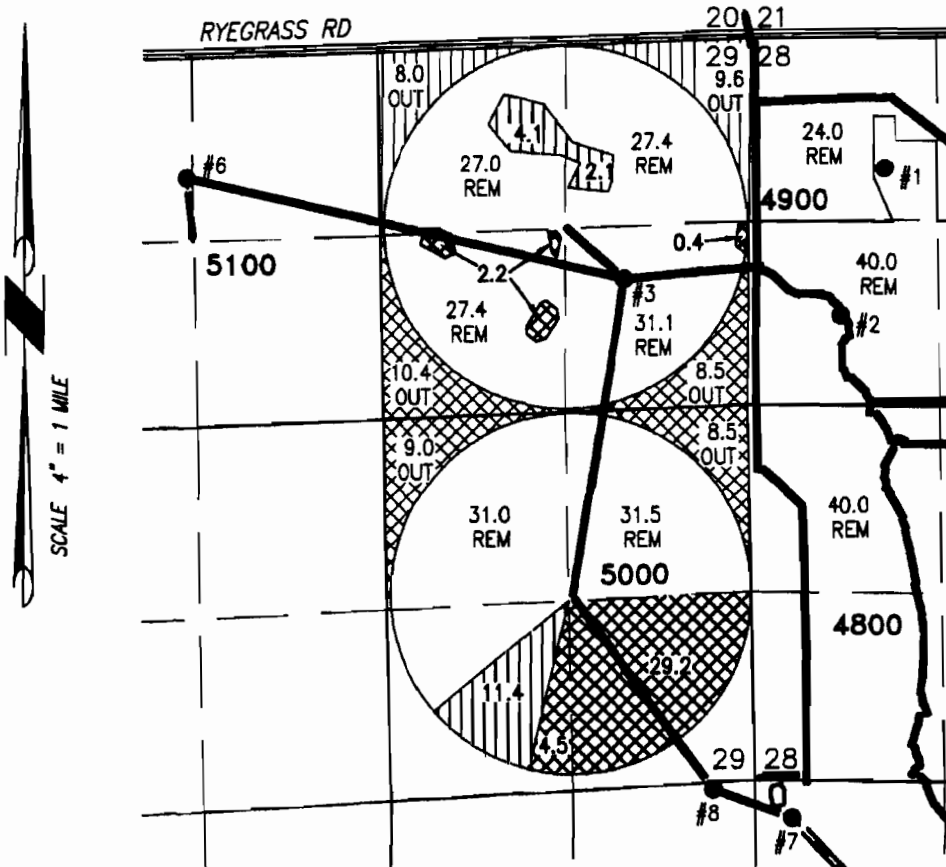
TRANSFER MAP TO ACCOMPANY APPLICATION TO ADD A POINT OF APPROPRIATION AND CHANGE PLACE OF USE FOR ANDY ROOT

TAX LOTS 4900 & 5000
IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 32 EAST, W.M.
HARNEY COUNTY, OREGON

RECEIVED

MAR 28 2012

WATER RESOURCES DEPT
SALEM, OREGON

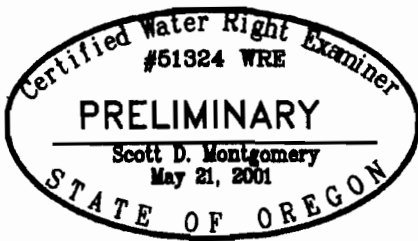


**ALL POINTS ENGINEERING
& SURVEYING, INC.**

P.O. BOX 767 (CRR)
TERREBONNE, OREGON 97760
(541) 548-5833 PH
(541) 585-4602 FX
www.APEandS.com

- #1
WELL #1 (HARN 600) PERMIT: G-16
950' SOUTH & 950' EAST FROM NW CORNER
SECTION 28
- #2
WELL #2 (HARN 601) PERMIT: G-16
2000' SOUTH & 630' EAST FROM
NW CORNER SECTION 28.
- #3
WELL #3 (HARN 607) PERMIT: G-16
1690' SOUTH & 920' WEST FROM
NW CORNER SECTION 28.

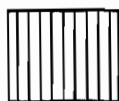
- #6
WELL #6 (HARN 606) PROPOSED
860' SOUTH & 1280' EAST FROM
NW CORNER SECTION 29.
- #7
WELL #7 (HARN 51822) PROPOSED
250' SOUTH & 250' EAST FROM NW
CORNER SECTION 33.
- #8
WELL #8 (HARN 615) PROPOSED
50' SOUTH & 300' WEST FROM NE
CORNER SECTION 32.



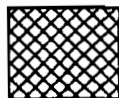
RENEWAL DATE: 12/31/2012

THIS MAP IS FOR THE PURPOSE OF LOCATING A WATER
RIGHT ONLY AND HAS NO INTENT TO PROVIDE LEGAL
DIMENSIONS OR THE LOCATION OF PROPERTY LINES.

BURIED 6 OR 8 INCH STEEL PIPE



17.6 ACRES SUPPLEMENTAL
IRRIGATION, C#35332 (G-16),
TRANSFERRED AS SHOWN



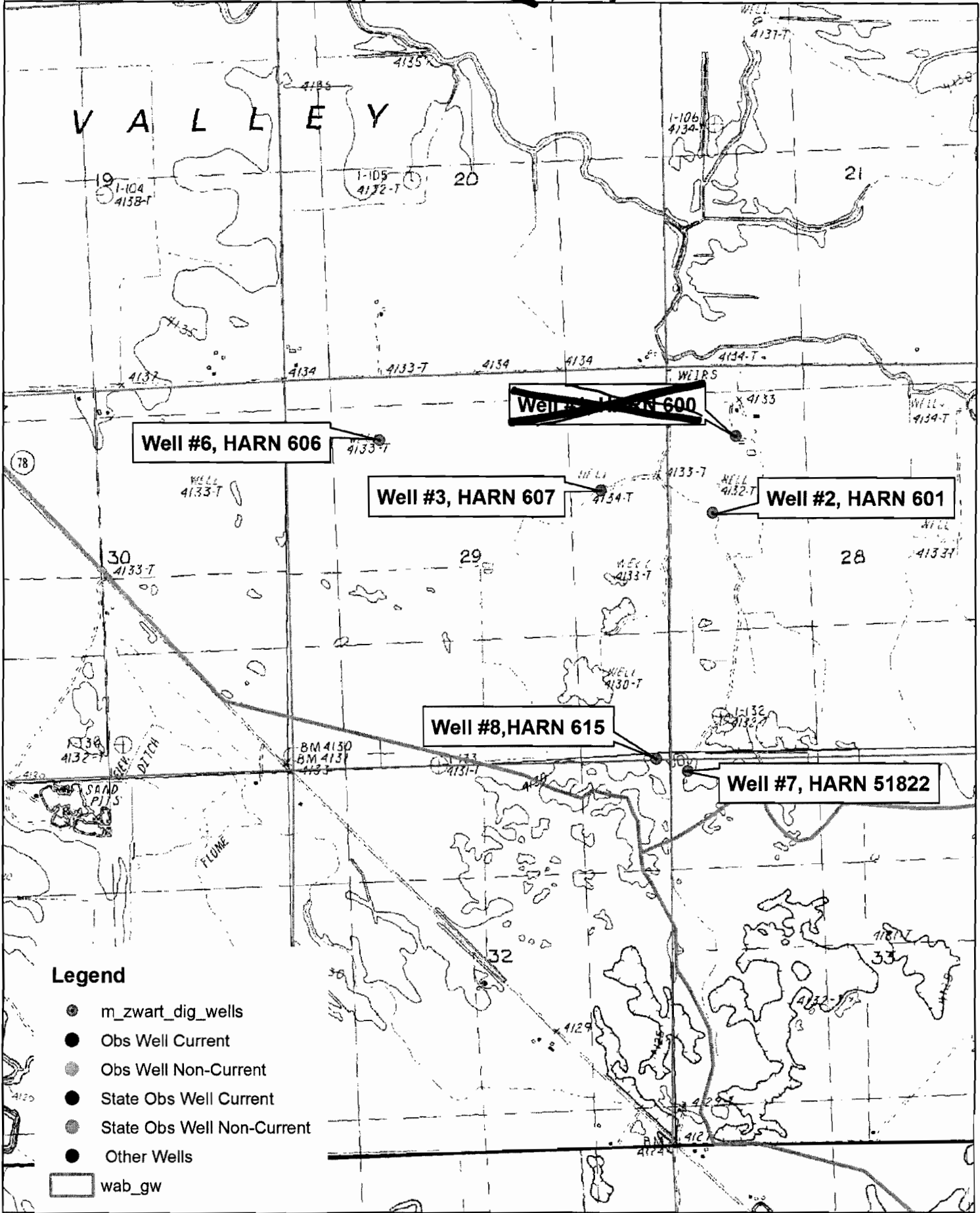
36.3 ACRES SUPPLEMENTAL
IRRIGATION, C#26078 (U-731),
TRANSFERRED AS SHOWN

PROJECT No. 11-040

PREPARED AT THE REQUEST OF:

ANDY ROOT
524 HIGHWAY 20 N
HINES, OR 97738

Application T-41386, Andy Root



Legend

- m_zwart_dig_wells
- Obs Well Current
- Obs Well Non-Current
- State Obs Well Current
- State Obs Well Non-Current
- Other Wells
- ▭ wab_gw

