

TO: Water Rights Section

Jan 6, 1999

FROM: Groundwater/Hydrology Section

Don Miller

Reviewer's Name

SUBJECT: Application G-14876

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE Willamette Basin rules, one or more of the proposed POA's is is not within 1/4 feet/mile of a surface water source () and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. will, or have the potential for substantial interference with the nearest
 - b. will not surface water source, namely _____; or
 - c. will if properly conditioned, adequately protect the surface water from interference:
 - i. The permit should contain condition #(s) _____;
 - ii. The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. The permit should be conditioned as indicated in item 4 below; or
 - d. will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. will, or likely be available in the amounts requested without injury to prior rights
 - b. will not and/or within the capacity of the resource; or
 - c. will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. The permit should contain condition #(s) 7C; March Measurement
 - ii. The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. The permit should be conditioned as indicated in item 4 below; or
4.
 - a. THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
 - b. The permit should allow groundwater production from no shallower than 150 ft. below land surface;
 - c. The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
 - d. Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: _____

(Well Construction Considerations on Reverse Side)

G-14876

Water Right Conditions
Tracking Slip

Groundwater/Hydrology Section

FILE ## G-14876

ROUTED TO: ~~G~~ WR

TOWNSHIP/

RANGE-SECTION: 2S/4E-31

CONDITIONS ATTACHED? Yes No

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Dawn Miller

TO: Water Rights Section

Jan 6, 1999

FROM: Groundwater/Hydrology Section

Don Mill

Reviewer's Name

SUBJECT: Application G- 14876

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE Willamette Basin rules, one or more of the proposed POA's is is not within 1/4 feet/mile of a surface water source () and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. ___ will, or have the potential for substantial interference with the nearest
 - b. ___ will not surface water source, namely _____; or
 - c. will if properly conditioned, adequately protect the surface water from interference:
 - i. ___ The permit should contain condition #(s) _____;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. The permit should be conditioned as indicated in item 4 below; or
 - d. ___ will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. ___ will, or likely be available in the amounts requested without injury to prior rights
 - b. ___ will not and/or within the capacity of the resource; or
 - c. will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. The permit should contain condition #(s) 7C; March Measurement
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
4.
 - a. ___ THE PERMIT should allow groundwater production from no deeper than ___ ft. below land surface;
 - b. The permit should allow groundwater production from no shallower than 150 ft. below land surface;
 - c. ___ The permit should allow groundwater production only from the _____ groundwater reservoir between approximately ___ ft. and ___ ft. below land surface;
 - d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: _____

(Well Construction Considerations on Reverse Side)

G-14876

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application 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) _____

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

7. THE WELL construction deficiency is described as follows: _____
- _____
- _____

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

RECOMMENDATION:

- A. ___ I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B. ___ I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C. ___ REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit
_____, 199__
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: _____

_____, 199__
(Signature)

Water Right Conditions
Tracking Slip

Groundwater/Hydrology Section

FILE # G-14876

ROUTED TO: GW

TOWNSHIP/

RANGE-SECTION: 2S/4E-31

CONDITIONS ATTACHED? Yes No

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Don Miller

WATER RESOURCES DEPARTMENT MEMORANDUM

TO: Groundwater/Hydrology Files

Date 12/31/98

FROM: Donn Miller

SUBJECT: Groundwater Application G- 14876

Phone: (503) 668-6000

Name: Patterson Nursery Sales, Bill Patterson

Applicant(s) seek 1200 gpm (240 gpm/well) (s) from five well(s) in the Willamette R. basin

Proposed use: Nursery 100.7 AC Clackamas R. sub basin Eagle CK. sub basin

Pertinent 7 1/2-minute quads

Estacada

Well 1 WRD# CLAC 54178 T 2 S R 4 E S 31 Q 00 ca County Clackamas

Legal Description 2180'S + 440'E fm the SW cor. DLC 38

Well is 1450 ft from Eagle CK (river/stream)

Well is - ft from - (river/stream)

Well elevation 345 +/- ft River/stream elevation 230 +/- ft.

Well elevation - river/stream elevation 115'

Well depth 280 SWL 122 on 12/17/98

Sealed to 193 Depth first water found 35'

Cased to 195 Perforations/screens -

Lined to 180 to 240 Perforations/screens 240' to 280'

Well tests and types 40 gpm / 3' dd / 1 hr

Confined or unconfined? confined Hydraulically connected? yes, probably

Potential to cause substantial interference? NO

Well 2 WRD# (To Be Built) T 2 S R 4 E S 31 Q 00 ca County Clackamas

Legal Description 1720'S + 460'E fm the SW corner DLC 38

Well is 1850 ft from Eagle CK (river/stream)

Well is - ft from - (river/stream)

Well elevation 345 +/- ft River/stream elevation 230 +/- ft.

Well elevation - river/stream elevation 115'

Well depth 300 SWL E 120 on -

Sealed to ? Depth first water found -

Cased to 200 Perforations/screens ?

Lined to ? Perforations/screens ?

Well tests and types -

Confined or unconfined? confined Hydraulically connected? yes, probably

Potential to cause substantial interference? NO

Conditioned water rights in area: yes

Other nearby water rights of record: yes

Density of nearby wells of record: low

Comments: The head in the lower aquifer in Patterson well #1 is the source that all 5 wells would develop. The thickness is 8' +/-, It is unlikely that each of the five wells could produce the desired rate of 240 gpm for more than the first minutes of pumping. Interference with each other and other wells will be a problem. The depth of the WB zone make the mechanism of interference with the rock unclear.

References used: Logs, USGS OFR-90-126, OFR 90-496, USGS WSP 2470-A

No gw/sw hit on 2570 after 30 days.

15E ~ 345

300 top of ~~unit~~, Fine-grained sediments

-300 top of older rocks

WATER RESOURCES DEPARTMENT MEMORANDUM

TO: Groundwater/Hydrology Files Date 12/31/98

FROM: Donna Miller

SUBJECT: Groundwater Application G- 14876 Phone: _____

Name: Patterson Nursery Sales

Applicant(s) seek 1200 gpm (_____ cfs) from 5 well(s) in the _____ basin

Proposed use: Nursery 240 gpm/well Willamette R sub basin

100.7 AC Clackamas R sub basin

100.7 AC Eagle CK sub basin

Pertinent 7 1/2 - minute quads Estacada

Well 3 WRD# To Be Built T 2S R 4E S 31 00 bd County Clackamas

Legal Description 1320'S + 320'E from the SW Cor DLC 38

Well is 2200 ft from Eagle CK (river/stream)

Well is _____ ft from _____ (river/stream)

Well elevation 345 +/- ft River/stream elevation 230 ft.

Well elevation - river/stream elevation 115

Well depth 300 SWL E 120 on _____

Sealed to ? Depth first water found _____

Cased to 200 Perforations/screens _____

Lined to ? Perforations/screens _____

Well tests and types _____

Confined or unconfined? confined Hydraulically connected? yes, probably

Potential to cause substantial interference? NO

Well 4 WRD# To Be Built T 2S R 4E S 31 00 bd County Clackamas

Legal Description 950'S + 160'E from the SW Cor DLC 38

Well is 2350 ft from Eagle (river/stream)

Well is _____ ft from _____ (river/stream)

Well elevation 340 ft River/stream elevation 220 ft.

Well elevation - river/stream elevation 120

Well depth 300 SWL E 115 on _____

Sealed to ? Depth first water found ?

Cased to 200 Perforations/screens ?

Lined to ? Perforations/screens ?

Well tests and types _____

Confined or unconfined? confined Hydraulically connected? yes, probably

Potential to cause substantial interference? NO

Conditioned water rights in area: _____

Other nearby water rights of record: _____

Density of nearby wells of record: _____

Comments: _____

References used: _____

WATER RESOURCES DEPARTMENT MEMORANDUM

TO: Groundwater/Hydrology Files

Date 1/6/98

FROM: Donna Miller

SUBJECT: Groundwater Application G- 14876 Phone: _____

Name: Patterson Nursery Sales

Applicant(s) seek 1200 gpm (_____ cfs) from 5 well(s) in the

Proposed use: Nursery 240 gpm/well Willamette R basin

100.7 AC Clackamas R sub basin

Eagle CK sub basin

Pertinent 7 1/2 - minute quads Estacada

Well 5 WRD# To Be Built T 2S R 4E S 31 Q bd County Clackamas

Legal Description 560'S + 10'E from the SW Cor DLC 38

Well is 2600 ft from Eagle CK (river/stream)

Well is _____ ft from _____ (river/stream)

Well elevation 335 +/- ft River/stream elevation 220 ft

Well elevation - river/stream elevation 115

Well depth 300' SWL 110 on _____

Sealed to ? Depth first water found ?

Cased to 200' Perforations/screens ?

Lined to ? Perforations/screens ?

Well tests and types _____

Confined or unconfined? confined Hydraulically connected? yes, probably

Potential to cause substantial interference? NO

Well _____ WRD# _____ T _____ R _____ S _____ Q _____ County _____

Legal Description _____

Well is _____ ft from _____ (river/stream)

Well is _____ ft from _____ (river/stream)

Well elevation _____ ft River/stream elevation _____ ft

Well elevation - river/stream elevation _____

Well depth _____ SWL _____ on _____

Sealed to _____ Depth first water found _____

Cased to _____ Perforations/screens _____

Lined to _____ Perforations/screens _____

Well tests and types _____

Confined or unconfined? _____ Hydraulically connected? _____

Potential to cause substantial interference? _____

Conditioned water rights in area: _____

Other nearby water rights of record: _____

Density of nearby wells of record: _____

Comments: _____

References used: _____

15 1/4 N 11 W
(DAMASCUS)

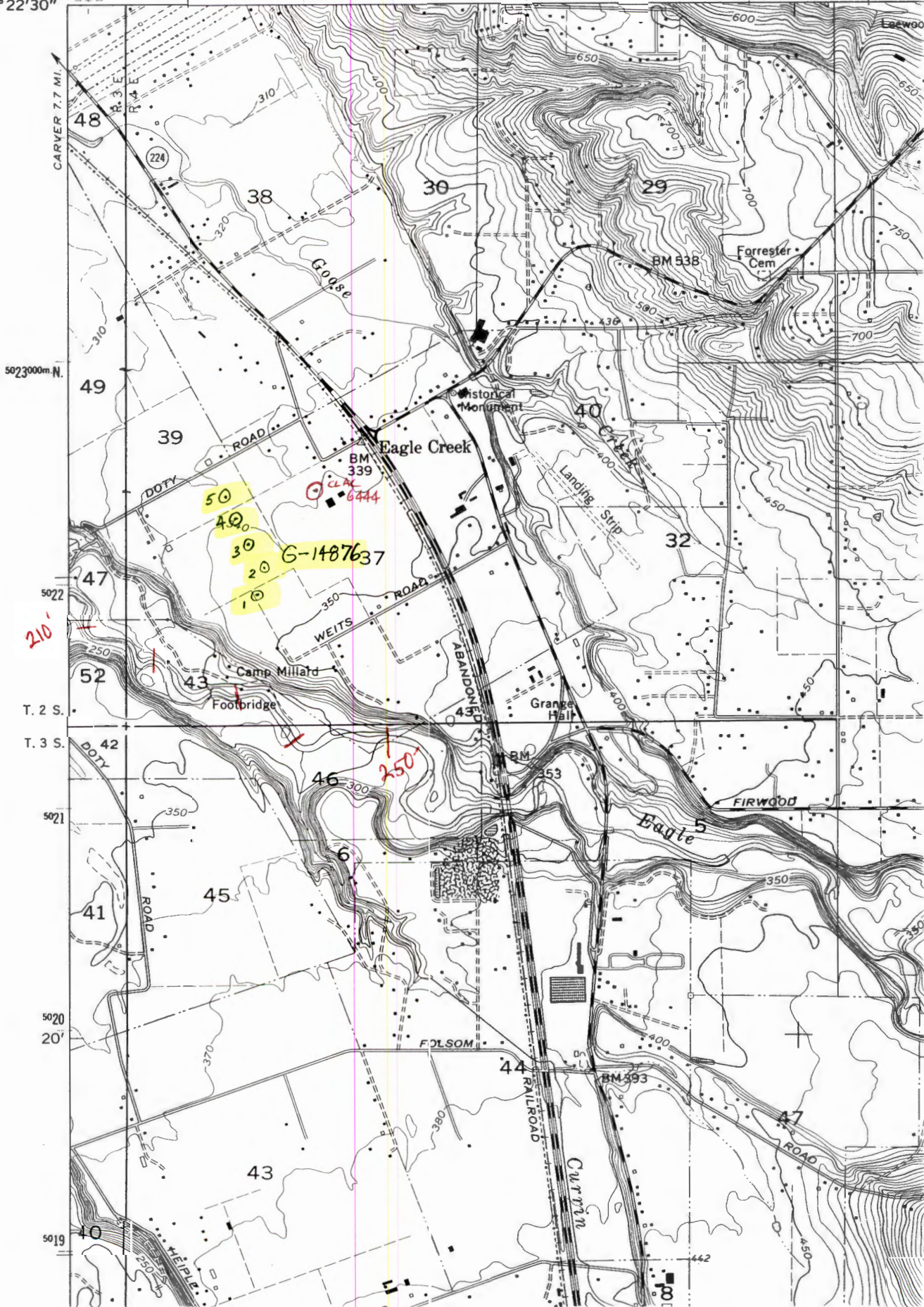
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

122° 22' 30"
45° 22' 30"

550000m E.

551

552 20'



CLAC
54178

STATE OF OREGON
WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

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

WELL I.D. # L 28524
START CARD # 120449

(1) OWNER: Well Number #1
Name Bill Patterson
Address P.O. Bx. 99
City Boring State Or. Zip 97009

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

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
12"	0	65	Cement	0	193	51 Sacks
10"	65	193				
8"	193	280				

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

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 8"	+2	195	258	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 6"	180	240	200	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type 1026T Material PUL

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
240	280	1026T		6"	4-10'	<input type="checkbox"/> Screen	<input type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
40+	3'		1 hr.

Temperature of water 56 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 Clatsop Latitude _____ Longitude _____
Township 25 N or S Range 4E E or W. WM.
Section 31 NW 1/4 SE 1/4
Tax Lot 3900 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 29105 SE WEITZ Ln, Eagle creek Or. 97022

(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date 12-17-98
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 248

From	To	Estimated Flow Rate	SWL
35	58	Sealed OFF	22
248	256	40+	

RECEIVED
DEC 22 1998

(12) WELL LOG:
Ground Elevation 345' WATER RESOURCES DEPT. SALEM, OREGON

Material	From	To	SWL
Top Soil	0	2	
Clay + Boulders	2	35	
Gravel + Boulders	35	58	22
Clay Blue	58	65	
Clay Gray	65	160	
Clay Blue	160	170	
Clay Gray	170	210	
Clay Blue	210	215	
Clay Gray	215	235	
Clay Blue	235	248	
Sand Multi Colored	248	256	12-2
Clay Gray	256	270	
Clay Blue	270	280	

Date started 11-25-98 Completed 12-17-98

(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 Thomas Young WWC Number 1512 Date 12-17-98

(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 W. O. Young WWC Number 257 Date 12-17-98

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

(1) OWNER:
Name David TIMM
Address Box 101 Eagle Creek, OR 97022

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

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

(5) CASING INSTALLED:
8" Diam. from 0 ft. to 220 ft. Gage 250
6" Diam. from 212 ft. to 310 ft. Gage 160 - PWC

(6) PERFORATIONS:
Type of perforator used Sdw cut Perforated? Yes No.
Size of perforations 1/8 in. by 6 in.
600 perforations from 214 ft. to 250 ft.
200 perforations from 250 ft. to 300 ft.

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

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
a pump test made? Yes No If yes, by whom? driller
: 60 gal./min. with 32 ft. drawdown after 1/2 hrs.
: 66 " " 40 " " " "
: 94 " " 100 " " " "
Ballow test 30 gal./min. with 20 ft. drawdown after 1 hrs.
in flow _____ g.p.m.
Temperature of water 53 Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:
Well seal—Material used Best cement
Well sealed from land surface to 65 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal driven pipe
Number of sacks of cement used in well seal 20 sacks
How was cement grout placed? Tremie pipe Pumped, 20 sacks cement with 0.2% bentonite.
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: 1/2" minus
Gravel placed from 212 ft. to 300 ft.

(10) LOCATION OF WELL:
County Clack. Driller's well number _____
1/4 Section 31 T. 2S R. 4E S.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.
Depth at which water was first found 220 ft.
Static level 98 ft. below land surface. Date July 12-79
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG: Diameter of well below casing 6" liner.
Depth drilled 305 ft. Depth of completed well 300 ft.
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Top soil	0	2	
red porous clay	2	5	
cement & gravel	5	50	
blue clay	50	70	
dark clay	70	120	
blue sticky clay	120	140	
brown clay	140	158	
blue clay	158	210	
sandy stone - clay	210	215	
sandy stone & clay layers water bearing	215	238	
water bearing	220	238	97'
blue clay	238	305	
12" surface pipe to 20'			
3" 10" pipe to 37'			

Work started June 19 1979 Completed July 12 1979
Date well drilling machine moved off of well July 12 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] C. O. Olsen Date July 14, 1979
(Drilling Machine Operator)
Drilling Machine Operator's License No. 214

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 Olsen Well Drilling Inc.
(Person, firm or corporation) (Type or print)
Address Rt 1, Box 208-B Eagle Creek, Oreg 97022
[Signed] C. O. Olsen
(Water Well Contractor)
Contractor's License No. 282 Date July 12 1979

APR 30 1990

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

WATER RESOURCES DEPT.
OREGON

0643
LAC 032
(START CARD) # W-17120
2S/4E/31A

(1) OWNER: Well Number: _____
Name Eagle Sports Center
Address 2303 S.E. Eagle Creek Rd
City Eagle Creek State Ore Zip 97022

(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 500 ft.
Explosives used Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
8"	0	55'	Cement	0	55'	34

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
8"	1 1/2'	332'	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Liner: _____

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method mills knife
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
192	210	3/8x2	40	8"	8"	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Depth at pump set at	Time
45	Total	210'	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: 70' shallow

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT

(9) LOCATION OF WELL by legal description:
County Clatsop Latitude _____ Longitude _____
Township 2 Nbr S, Range 4 E or W, WM.
Section 31A 34 34
Tax Lot 2990 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 2303 S.E. Eagle Creek Rd 97022

(10) STATIC WATER LEVEL:
105 ft. below land surface. Date 4-26-90
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 39'

From	To	Estimated Flow Rate	SWL
39	49	Cas. off	8'
194	207	45 gpm	105

(12) WELL LOG: Ground elevation 340'

Material	From	To	SWL
Top Soil	0	2	
clay Brown - boulders - gravel	2	10	
Cemented Gravel + boulders	10	49	8
clay Gray	49	55	
clay Blue	55	160	
clay Gray	160	177	
clay Blue-sandy	177	194	
Sandstone	194	196	105
Sand + Pumice	196	207	
clay Blue	207	223	
clay Gray sandy	223	255	
Shale Blue	255	283	
clay Lt. Gray	283	287	
clay Lt. Brown	287	295	
clay Red	295	315	
Decomposed Rock	315	351	
clay Gray with Gravel	351	354	
clay Gray	354	361	
Shale multi colors - hard stable	361	409	
Lava Black	409	430	
Mud Stone	430	500	

Date started 2-27-90 Completed 4-4-90

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
Signed Thomas Youngberg WWC Number 1512
Date 4-27-90

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
Signed W.O. Youngberg WWC Number 257
Date 4-27-90

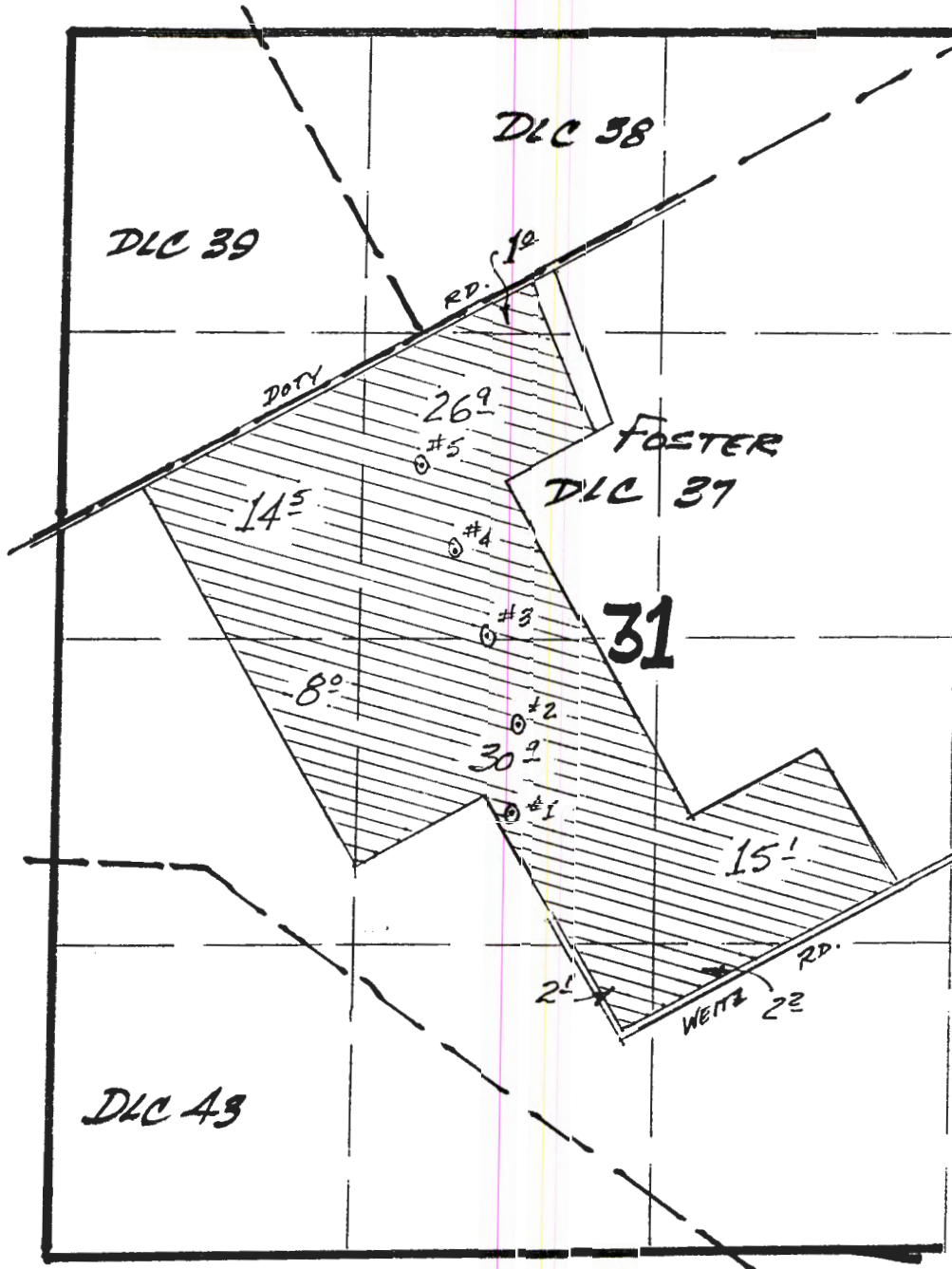
SECOND COPY - CONSTRUCTOR

THIRD COPY - CUSTOMER

DEC 10 1998

WATER RESOURCES DEPT.
SALEM, OREGON

T. 2 S., R. 4 E., W. M.



N

SCALE: 1" = 800ft.

Proposed
Well Locations:

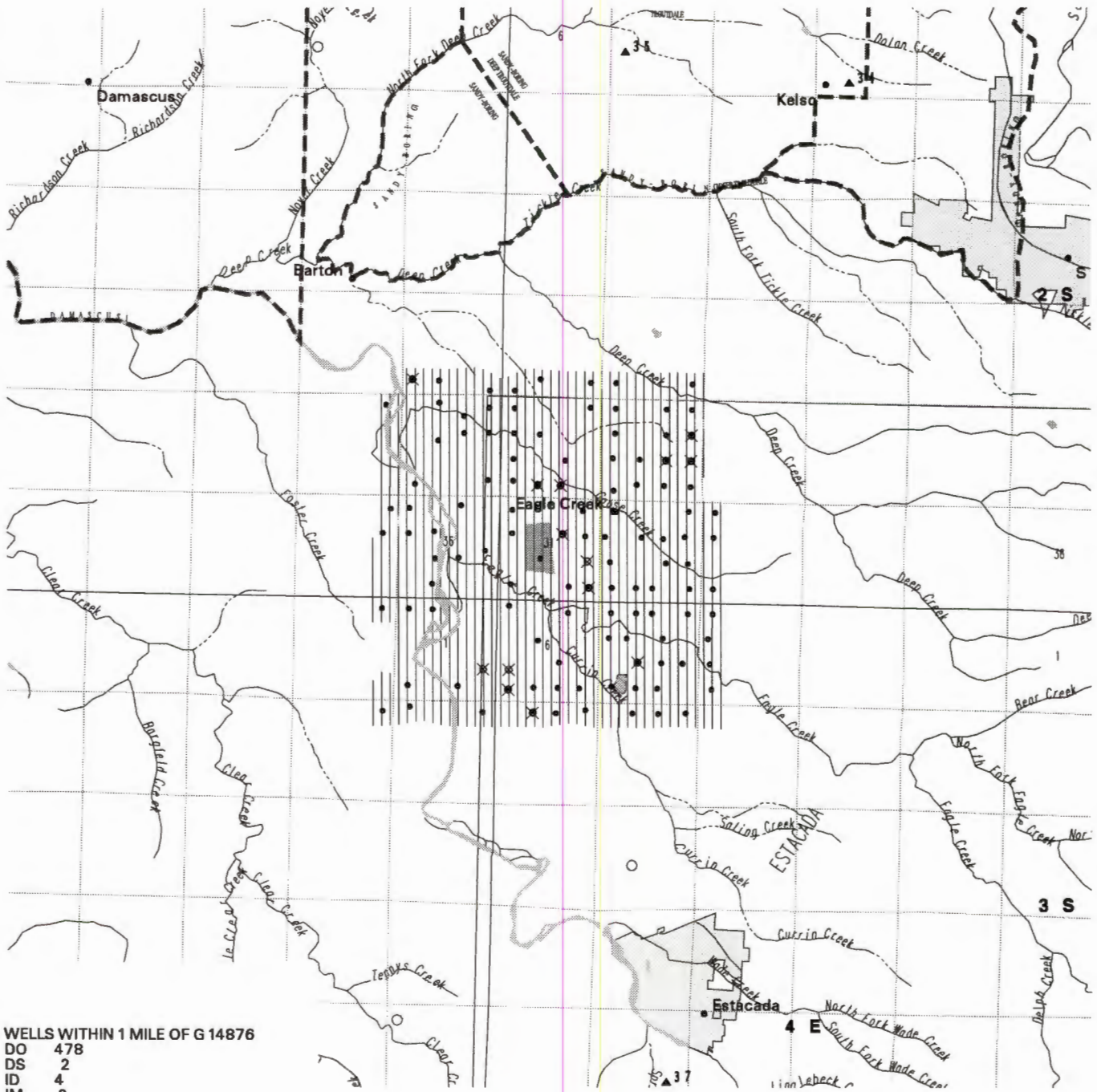
- #1 - 2180'S. & 440'E.
 - #2 - 1720'S. & 460'E.
 - #3 - 1320'S. & 320'E.
 - #4 - 950'S. & 160'E.
 - #5 - 560'S. & 10'E.
- all from the SW
COR. DLC 38.

MAP TO ACCOMPANY APPLICATION # 6 -

IN THE NAME OF
PATTERSON NURSERY SALES

Wells in the vicinity of application G 14876

- Application well(s) in this 1/4-1/4 section
- Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- ⊗ Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s)
- Conditioned, permitted well(s) in this 1/4-1/4 section within 5 mi. radius of application well(s)
- ▲ OWRD Observation well and well-id within 5 mi. radius of application well(s)
- Critical GW Area
- - - Regulated GW Area



WELLS WITHIN 1 MILE OF G 14876

DO	478
DS	2
ID	4
IM	2
IR	12
MU	2

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 14876

\$RECNO	APPLICATION	PERMIT	LOC-QQ	USE	RATE	DIV-UNITS
1	GR 3474	GR 3811	2.00S 3.00E24SWSW	IR	24.0000	G
2	G 12285	G 11189	2.00S 4.00E29SENE	IR	0.2300	C
2	GR 3892	GR 3536	2.00S 4.00E29SENE	IR	100.0000	G
3	G 12704	G 12354	2.00S 4.00E29NWSE	IR	0.2030	C
4	G 1020	G 901	2.00S 4.00E29NESE	IR	0.1300	C
4	G 1708	G 1568	2.00S 4.00E29NESE	IR	0.0800	C
4	G 2329	G 2151	2.00S 4.00E29NESE	IR	0.1300	C
4	G 4256	G 4011	2.00S 4.00E29NESE	IR	0.0700	C
4	G 4256	G 4011	2.00S 4.00E29NESE	IR	0.1700	C
4	GR 1793	GR 1735	2.00S 4.00E29NESE	IR	60.0000	G
5	G 8484	G 7936	2.00S 4.00E30SESW	IR	0.5300	C
6	G 6178	G 5241	2.00S 4.00E30SWSE	IR	0.0500	C
7	G 9011	G 8416	2.00S 4.00E31SWNE	IR	0.2200	C
7	G 9011	G 8416	2.00S 4.00E31SWNE	IR	0.8900	C
8	G 13275	G 11706	2.00S 4.00E31NESE	AG	54.0000	G
8	G 13275	G 11706	2.00S 4.00E31NESE	IR	54.0000	G
9	G 2476	G 2287	2.00S 4.00E31SESE	IR	0.1000	C
10	G 12589	G 11627	3.00S 3.00E 1NESE	CM	0.0100	C
10	G 12589	G 11627	3.00S 3.00E 1NESE	IS	2.9300	C
10	G 12589	G 11627	3.00S 3.00E 1NESE	RC	0.0100	C
11	G 12589	G 11627	3.00S 4.00E 6NWSW	CM	0.0100	C
11	G 12589	G 11627	3.00S 4.00E 6NWSW	IS	2.9300	C
11	G 12589	G 11627	3.00S 4.00E 6NWSW	RC	0.0100	C
12	G 260	G 168	3.00S 4.00E 5NESW	IM	0.1000	C
13	G 12589	G 11627	3.00S 4.00E 6SWSW	CM	0.0100	C
13	G 12589	G 11627	3.00S 4.00E 6SWSW	IS	2.9300	C
13	G 12589	G 11627	3.00S 4.00E 6SWSW	RC	0.0100	C
14	G 13672	G 12002	3.00S 4.00E 7NENW	AG	0.0100	C
14	G 13672	G 12002	3.00S 4.00E 7NENW	AG	0.1000	C
14	G 13672	G 12002	3.00S 4.00E 7NENW	AG	0.1440	C
14	G 13672	G 12002	3.00S 4.00E 7NENW	IR	0.1000	C
14	G 13672	G 12002	3.00S 4.00E 7NENW	IR	0.1440	C

CONDITIONED WELLS WITHIN 5 MILES OF APPLICATION G 14876

\$RECNO	APPLICATION	PERMIT	LOC-QQ	CONDITION-CODE
1	G 13526	G 12055	2.00S 3.00E 2NWSW	7BG
1	G 13526	G 12055	2.00S 3.00E 2NWSW	7BR
1	G 13526	G 12055	2.00S 3.00E 2NWSW	7CG
1	G 13526	G 12055	2.00S 3.00E 2NWSW	7CR
1	G 13526	G 12055	2.00S 3.00E 2NWSW	7BG
1	G 13526	G 12055	2.00S 3.00E 2NWSW	7BR
1	G 13526	G 12055	2.00S 3.00E 2NWSW	7CG
1	G 13526	G 12055	2.00S 3.00E 2NWSW	7CR
2	G 12279	G 11185	3.00S 3.00E25NWNW	SS12
3	G 11919	G 12374	3.00S 4.00E17NESW	7JG
3	G 11919	G 12374	3.00S 4.00E17NESW	7JR

APPLICATION G 14876 FALLS WITHIN THESE QUAD(S)

ESTACADA

The following OWRD Groundwater Management Areas are within the map extent:

\$RECNO	NAME1	NAME2	SUB-AREA	STATUS
1	DAMASCUS			LIMI
2	SANDY-BORING			LIMI
3	SANDY-BORING	DEEP TROUTDALE		LIMI
4	SANDY-BORING			LIMI

Clac
53739

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

WELL I.D.# 22557 (START CARD)# 112619

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

(1) OWNER: Well Number _____
Name Bill Shilling
Address 423 NE Gensing Dr
City Estacada State ore Zip 97023

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

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
10"	0	20	Cement	4	20	15
10"	0	20	Bent	0	4	4
6"	20	210				
8"	177	196	Cemett	177	196	10 sacks

How was seal placed: Method A B C D E
 Other No float shoe method A
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

Casing/Liner	Diameter	From	To	Gauge	Material			
					Steel	Plastic	Welded	Threaded
Casing	6 7/8	+3	197	200	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) 197

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type _____ Material _____

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

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

Pump Bailer Air Flowing Artesian
Yield gal/min _____ Drawdown _____ Drill stem at _____ Time _____
35 _____ _____ _____ 1 hr.

Temperature of water 52 Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: Surface

(9) LOCATION OF WELL by legal description:
County Clack Latitude _____ Longitude _____
Township 2 N or S Range 4 W. WM.
Section 31 NW 1/4 NE 1/4
Tax Lot 1700 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Coenec of Oawty + Hwy 224 across from Jack pot

(10) STATIC WATER LEVEL:
149 ft. below land surface. Date 6-16-98
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 20

From	To	Estimated Flow Rate	SWL
20	55	30	12
202	208	35	149

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
2012 Brown w/ gravel	0	2	
Clay Brown w/ gravel + cobbles	2	6	
Gravel + cobbles semi consolidated	6	55	12
Clay Gray Fine	55	128	
Clay Blue Gray sticky	128	202	
SAND Coarse w.r.	202	208	149
Clay Gray Sticky			

Date started 6-3-98 Completed 6-16-98

(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.
WVC 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.
WVC Number 792
Signed Deke Wolcott Date 6/25/98