Oregon
Theodore R. Kulongoski, Governor

Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

INTEROFFICE MEMO

FORWARD TO: Susan DATE: 3/19/07
FIELD **PROCESSOR** WORKING ON THIS TRANSFER

FROM: ____ WATERMASTER, DISTRICT # ____
X GROUNDWATER SECTION

(SIGNATURE) D Miller Dm date signed 4/23/07
signed by injury reviewer

SUBJECT: **WATER RIGHT TRANSFER** # 10268

A change in: **POU** (**POD**) **POA** **USE** of water.

In the name(s) of Sapoose Sand & Gravel

In my opinion (assuming the right is valid), the proposed change

MAY BE MADE WITHOUT INJURY WOULD RESULT IN INJURY* to an existing water right. Dm

*The approval of this transfer application would result in injury to other water rights because

_____

_____

_____

_____

The existing right may not be valid because _____

_____

_____

Headgate notices HAVE HAVE NOT Been issued for diversion from the source(s)which serve(s) this right.

If for change in point of diversion, is there any intervening point(s) for diversion between the authorized and proposed points of diversion? (Yes or No) _____

In my opinion, the order approving the subject transfer application should include the following in regard to the appropriator installing suitable measuring devices in the diversion works:

_____ (1) PRIOR to the diverting of water at the new point of diversion . . .

_____ (2) WHEN IN the judgement of the watermaster it becomes necessary . . .

The enclosed copy of the transfer application and map(s) is for your records.

STATE OF OREGON
Water Resources Department
725 Summer St. N.E., Ste. A
Salem, OR 97301

MEMORANDUM

DATE: 4/23/2007

TO: File T-10268, Scappoose Sand & Gravel
FROM: Donn Miller, Hydrogeologist DM

SUBJECT: Transfer Comments

This transfer request has recently been amended and seeks to add a well (COLU 52760) to the authorized POD from a stream (Scappoose Creek).

The location of the well meets the distance tests of OAR 690-380-2130 and the statute. The well is less than 1000 feet downstream from the original point of diversion and within 500 feet of the surface water source. The well is actually about 900 feet downstream and about 300 feet from the creek.

The proposed transfer will meets the "similarly" test of OAR 690-380-2130. The proposed new well will affect the surface water similarly to the authorized point of diversion. By law, similarly means a stream depletion of at least 50 percent of the rate of appropriation within 10 days of continuous well pumping. The attached calculations show that result.

The affect of the additional well on the stream is very close to 50% after 10 days. Changing parameters much quickly moves from that threshold level. Additional field testing might provide a different conclusion. The current conclusion of 50% is reasonable based on parameters that are found in USGS WSP 2470-A and on local well logs.

It is unclear whether the currently proposed well is capable of producing the 1 cfs that is sought. The well is stove pipe, containing no perforations in the casing. As such, it is not efficient. Well alteration could substantially improve the well's efficiency and yield.

There should be no injury to existing ground water users. Nearby users are exempt users. Any interference for their small uses should be overcome by improving their wells.

Additional TO WELL

COLU 52760

75/B SW

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

(WELL I.D.)# L 70534

(START CARD) # 167028

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

(1) OWNER: Well Number ________

[redacted]

Address 21880 SW [redacted]

City BEAVERTON State OR Zip 97007

(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 105 ft.

Explosives used ☐ Yes ☑ No Type ______ Amount ______

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
10"	0	18	BNTNT CHIPS	0	18	8 SACKS
6"	18	105				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☑ Other POURED

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:	6"	+3	103	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) 103 FEET

(7) PERFORATIONS/SCREENS:

☐ Perforations Method ______

☐ Screens Type ______ Material ______

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

open bottom well

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

☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
100		104	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: ______

(9) LOCATION OF WELL by legal description:

County COLUMBIA Latitude ______ Longitude ______

Township 3 N Range 2 W WM.

Section 1 SE 1/4 SE 1/4

Tax Lot 602 Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) 33485 E CROWN ZELLERBACH SCAPPOOSE OR 97056

(10) STATIC WATER LEVEL:

27 ft. below land surface. Date 06/26/2004

Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:

Depth at which water was first found 55 FEET

From	To	Estimated Flow Rate	SWL
55	90	30	27
90	105	100	27

Not listed as WBZ

(12) WELL LOG:

Ground Elevation ______

Material	From	To	SWL
CRUSHED ROCKS	0	2	
BROWN SILTY GRAVEL	2	6	
GRAY SILT	6	16	
SILTY GRAVEL	16	55	
MULTICOLORED SM-MD ROUND GRAVEL	55	90	27
MULTICOLORED MD-LG ROUND GRAVEL	90	105	27

model (bal) 27 } 27-55 } 28'

RECEIVED
NOV 17 2006
WATER RESOURCES DEPT
SALEM, OREGON

Date started 06/26/2004 Completed 06/26/2004

(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 ______

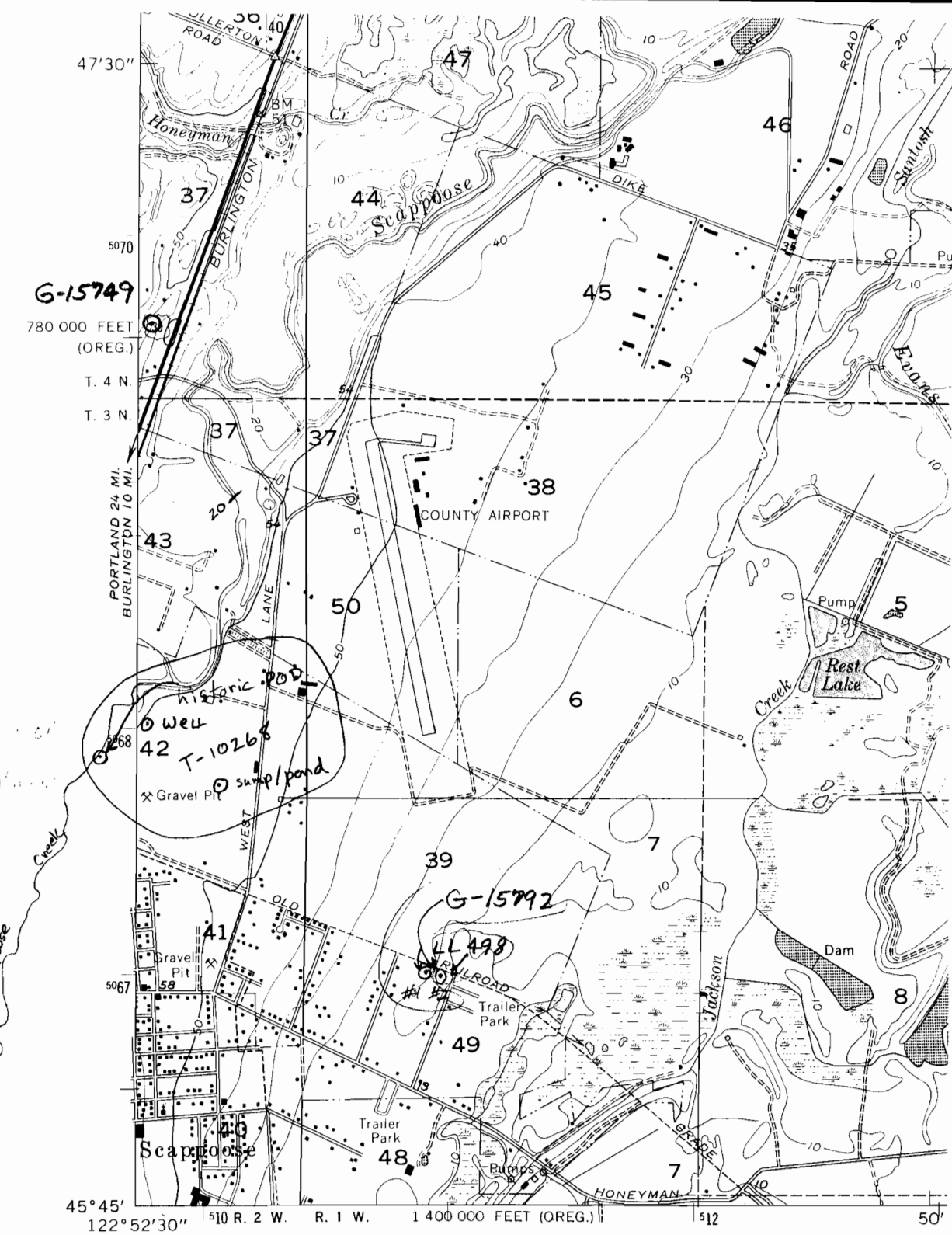
(bonded) Water Well Constructor Certification:

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 1679

Signed [signature] Date 06/30/2004

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



Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, USCE, and State of Oregon

Topography from aerial photographs by Kelsh plotter
and by planetable surveys 1954. Aerial photographs taken 1951

Polyconic projection. 1927 North American datum
10,000-foot grids based on Oregon coordinate system, north zone
and Washington coordinate system, south zone

Hydrography compiled from USC&GS charts 6153 (1952) and 6154 (1952)

1000-meter Universal Transverse Mercator grid ticks,
zone 10, shown in blue

Red tint indicates areas in which only landmark buildings are shown

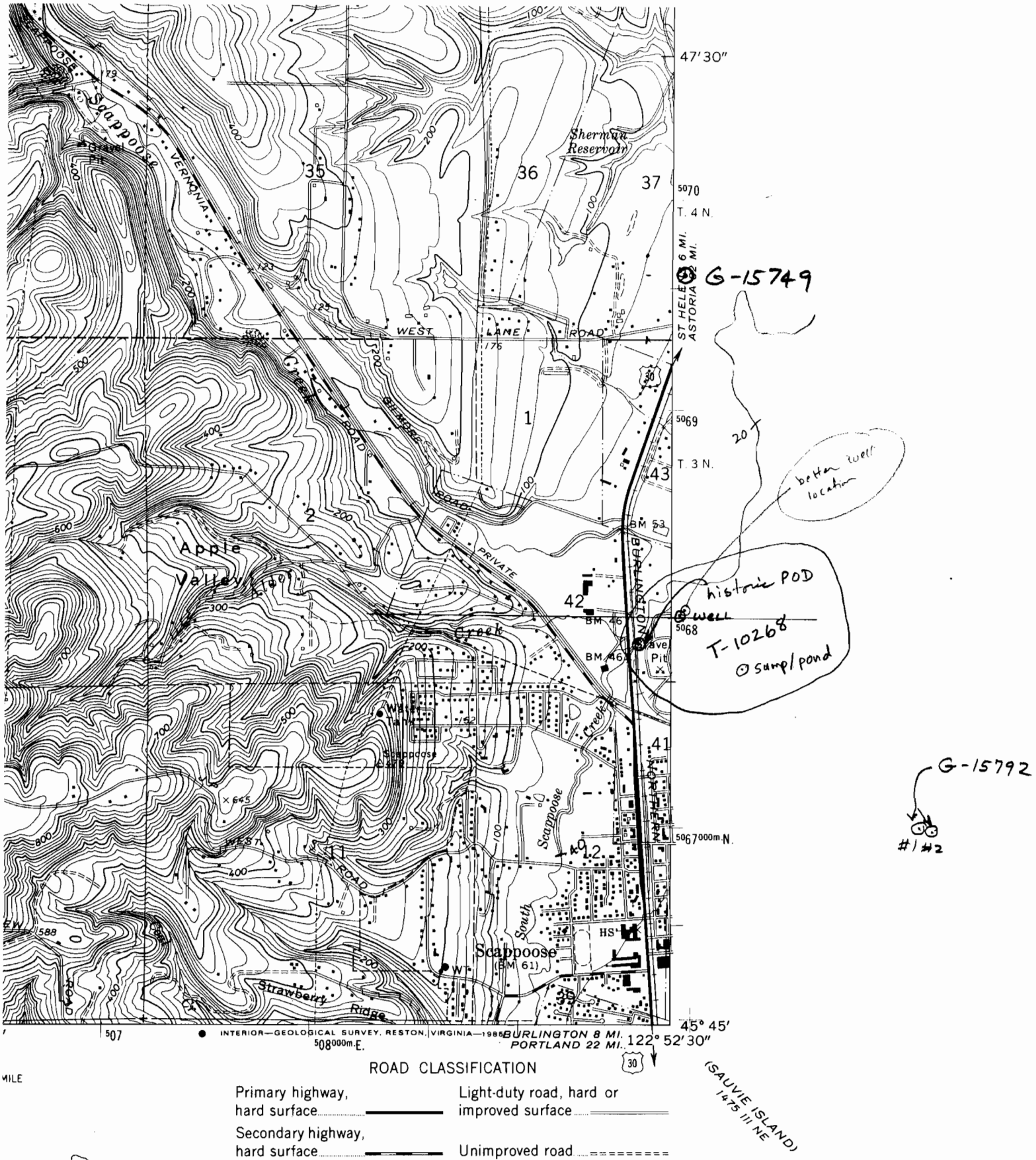
Purple tint indicates extension of urban areas

GN MN
0°08'
2 MILS
21°
373 MILS

UTM GRID AND 1970 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

Map photoinspected 1975
No major culture or drainage changes observed

FOR



MILE

ROAD CLASSIFICATION

Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road

Interstate Route U. S. Route State Route

QUADRANGLE LOCATION

CHAPMAN, OREG.

SW/4 ST. HELENS 15' QUADRANGLE

45122-G8-TF-024

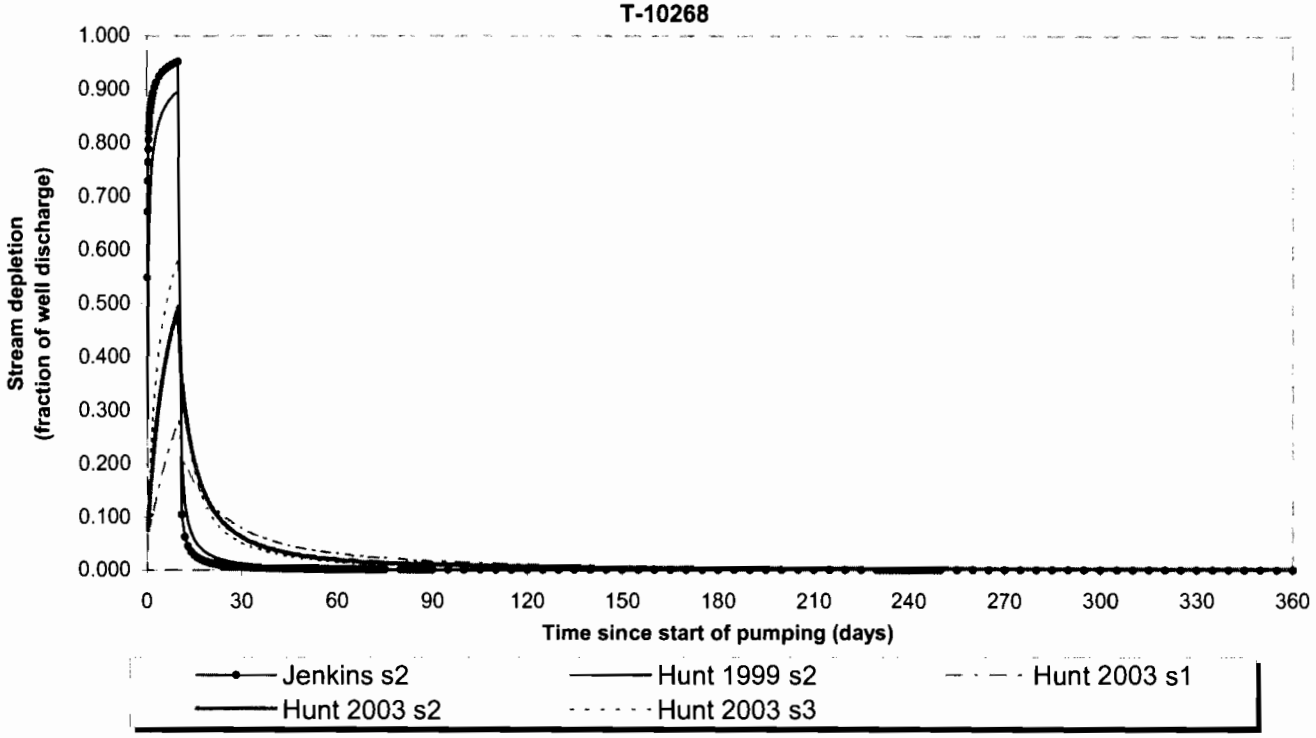
1971

PHOTOREVISED 1985

DMA 1475 IV SW—SERIES V892

Transient Stream Depletion (Jenkins, 1970; Hunt, 1999, 2003)

T-10268



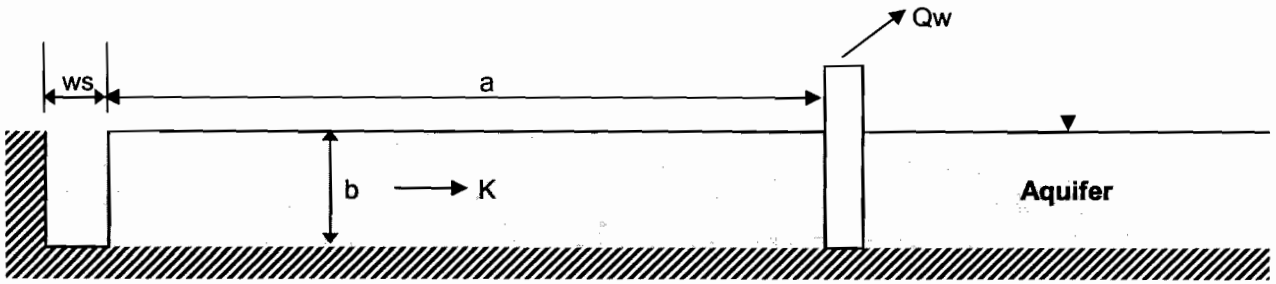
Output for Stream Depletion, Scenerio 2 (s2):						Time pump on (pumping duration) = 10 days						
Days	30	60	90	120	150	180	210	240	270	300	330	360
J SD	0.6%	0.2%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
H SD 1999	1.3%	0.4%	########	########	########	########	########	########	########	########	########	########
H SD 2003	6.24%	1.93%	1.10%	0.73%	0.52%	0.40%	0.31%	0.26%	0.22%	0.18%	0.16%	0.14%
Qw, cfs	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
H SD 99, cfs	0.013	0.004	########	########	########	########	########	########	########	########	########	########
H SD 03, cfs	0.062	0.019	0.011	0.007	0.005	0.004	0.003	0.003	0.002	0.002	0.002	0.001

Parameters:		Scenario 1	Scenario 2	Scenario 3	Units
Net steady pumping rate of well	Qw	449.00	449.00	449.00	gpm
Time pump on (pumping duration)	tpon	10	10	10	days
Perpendicular from well to stream	a	300	300	300	ft
Well depth	d	105	105	105	ft
Aquifer hydraulic conductivity	K	10	25	50	ft/day
Aquifer saturated thickness	b	100	150	200	ft
Aquifer transmissivity	T	1000	3750	10000	ft*ft/day
Aquifer storativity or specific yield	S	0.003	0.003	0.003	
Aquitard vertical hydraulic conductivity	Kva	1	3	5	ft/day
Aquitard saturated thickness	ba	28	28	28	ft
Aquitard thickness below stream	babs	4	4	4	ft
Aquitard porosity	n	0.1	0.1	0.1	
Stream width	ws	30	30	30	ft
Streambed conductance (lambda)	sbc	7.500000	22.500000	37.500000	ft/day
Stream depletion factor	sdf	0.270000	0.072000	0.027000	days
Streambed factor	sbf	2.250000	1.800000	1.125000	
input #1 for Hunt's Q_4 function	t'	3.703704	13.888889	37.037037	
input #2 for Hunt's Q_4 function	K'	3.214286	2.571429	1.607143	
input #3 for Hunt's Q_4 function	epsilon'	0.030000	0.030000	0.030000	
input #4 for Hunt's Q_4 function	lamda'	2.250000	1.800000	1.125000	

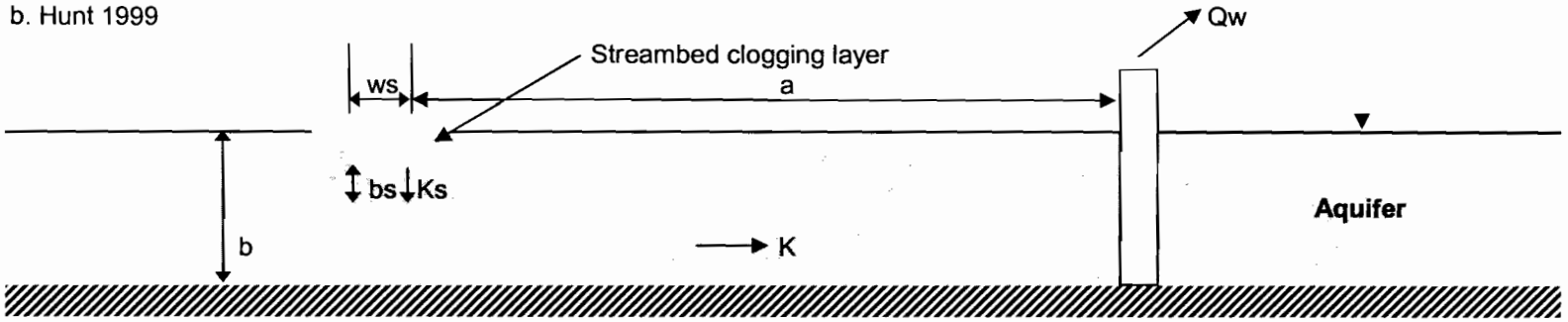
T-10268

Conceptual Models

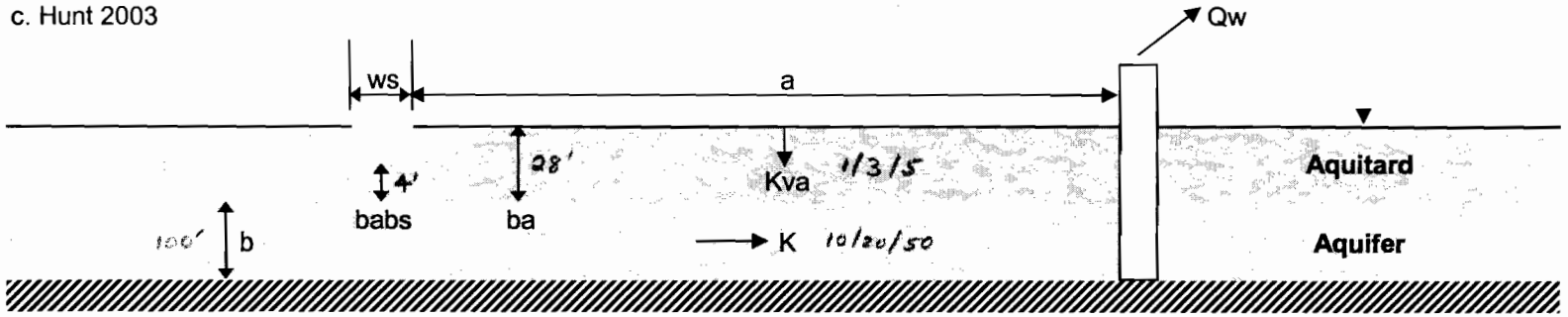
a. Jenkins



b. Hunt 1999



c. Hunt 2003



NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

RECEIVED
FEB 11 1975
STATE ENGINEER
SALEM, OREGON

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

State Well No. 3N/2W-1
State Permit No.

(1) OWNER:
Name Norman Kaufman
Address Rt. #1, Box 654, Scappoose, Oregon

(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 ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒
6" Diam. from 0 ft. to 230 ft. Gage .250
5" Diam. from 225 ft. to 250 ft. Gage .10
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☒ Yes ☐ No
Type of perforator used Burning Torch
Size of perforations 1/4 in. by 6 in.
27 perforations from 225 ft. to 250 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.
" " " "
" " " "
Bailer test 60 gal./min. with 160 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Bentonite
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 10 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 1 1/2 sacks
Brand name of bentonite Yellowstone Western
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Columbia Driller's well number
¼ ¼ Section 1 T. 3N R. 2W W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 225 ft.
Static level 88 ft. below land surface. Date 8-21-74
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing
Depth drilled 250 ft. Depth of completed well 250 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
Clay, brown	0	40	
Sand, brown	40	82	
Basalt, broken, brown	82	175	
Clay, sandy, brown	175	215	
Basalt, broken, brown	215	245	
Basalt, black	245	250	

sed's

Work started 8-19-74 19 Completed 8-21-74 19
Date well drilling machine moved off of well 8-21-74 19

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] Eugene Gordon (Drilling Machine Operator) Date 8-21-74 19
Drilling Machine Operator's License No. 607

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 Farrel McGhee Well Drilling (Person, firm or corporation) (Type or print)
Address 1020 Industrial Way, Longview, Wa.
[Signed] Farrel McGhee (Water Well Contractor)
Contractor's License No. 438 Date 8-21-74, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

COLU 52378

STATE OF OREGON

WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Colu 52378

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

WELL I.D. # L 63122
START CARD # 155814

(1) LAND OWNER Well Number 2
Name Young Mechanical Service
Address 5315 NW St Helens Rd
City Portland State OR Zip 97051

(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 320 ft.
Explosives used ☐ Yes ☑ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
10	0	48	cement	0	48	18 Bags
6	48	320				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other
Backfill placed from 0 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:	6	+1	320	250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	0				☐	☐	☐	☐
					☐	☐	☐	☐

Drive Shoe used ☒ Inside ☐ Outside ☐ None
Final location of shoe(s) 320

(7) PERFORATIONS/SCREENS:
☐ Perforations Method 0
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
0						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

Yield gal/min	Drawdown	Drill stem at	Time
30		320	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:

(9) LOCATION OF WELL by legal description:
County Col Latitude Longitude
Township 3N N or S Range 2W E or W. WM.
Section 01 NW 1/4 NW 1/4
Tax Lot 101 Lot Block Subdivision
Street Address of Well (or nearest address) 53303 Col River Hwy 30 Scappoose

(10) STATIC WATER LEVEL:
48 ft. below land surface. Date 15 Sept 03
Artesian pressure lb. per square inch Date

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

From	To	Estimated Flow Rate	SWL
310	320	30	38

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Clay Tan	0	10	
Clay gravel Brn	10	25	
Clay grey gravel	25	60	38
Silt gravel Blue	60	115	
Silt gravel	115	200	
Silt gravel Blue	200	280	
Silt large gravel Brn	280	290	
grey sand	290	310	
Sm cement gravel sand - grey	310	320	

all Solids

RECEIVED
OCT 10 2003

RECEIVED
JAN 21 2004
WATER RESOURCES DEPT
SALEM, OREGON

Date started 10 Sept 03 Completed 16 Sept 03

(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 1823
Signed Jim Nelson Date 16 Sept 03

(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 1480
Signed Date 16 Sept 03

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER

STATE ENGINEER
Salem, Oregon

COLU
3104

Well Record

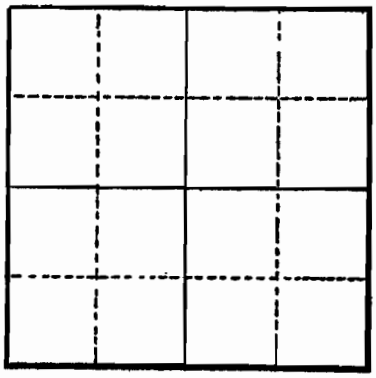
STATE WELL NO. 3N/2W-12J
COUNTY Columbia
APPLICATION NO. GR-926

OWNER: City of Scappoose
MAILING ADDRESS:
CITY AND STATE: Scappoose, Oregon

LOCATION OF WELL: Owner's No.

NE ¼ SE ¼ Sec. 12 T. 3 N. R. 2 W., W.M.

Bearing and distance from section or subdivision corner S. 726.51' & W. 529.78' from E¼ Cor. Sec. 12



Altitude at well 32 ft.

TYPE OF WELL: drilled Date Constructed 1950

Depth drilled 116 ft. Depth cased 116 ft.

Section

CASING RECORD: 8 inch 32' to 116'

FINISH: Gravel filled to 80'
Pipe perf. 50' to 60'

AQUIFERS: --

WATER LEVEL: 50 ft.

PUMPING EQUIPMENT: Type Serial #0L16651 H.P. 30 elec.
Capacity G.P.M. G.E. 1760 rpm

WELL TESTS:
Drawdown 25 ft. after hours 200 G.P.M.
Drawdown 35 ft. after hours 30 ? G.P.M.

USE OF WATER Muncipal Temp. °F. , 19
SOURCE OF INFORMATION Virginia R. Sheldon
DRILLER or DIGGER Steinman Bros.
ADDITIONAL DATA:
Log NA Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

State Printing 80316

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED APR 10 1968 STATE ENGINEER

WATER WELL REPORT
STATE OF OREGON
(Please type or print) (Do not write above this line) 29412

State Well No. 3N/2W-12

State Permit No.

(1) OWNER:
Name Chas. T. Parker Construction Co.
Address 6547 N. E. Columbia Blvd. Portland, 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 ☒
12" Diam. from 0 ft. to 120 ft. Gage .250
10" Diam. from 0 ft. to 20 ft. Gage .250
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? ☒ Yes ☐ No.
Type of perforator used Mills Knife
Size of perforations 3/8 in. by 2 in.
800 perforations from 20 ft. to 120 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 [redacted] ft. below land surface Date 11-16-67
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? A. Owens
Yield: 515 gal./min. with 53 ft. drawdown after 8 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

(10) CONSTRUCTION:
Well seal—Material used Cement Grout
Depth of seal 20 ft.
Diameter of well bore to bottom of seal See note *
Were any loose strata cemented off? ☐ Yes ☒ No Depth
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 Columbia Driller's well number
¼ ¼ Section 1 & 12 3N R. 2W W.M.
Bearing and distance from section or subdivision corner

(12) WELL LOG:
Diameter of well below casing 12"
Depth drilled 120 ft. Depth of completed well 120 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
Clean gravel	0	12	
Gravel & blue clay	12	20	
[redacted]			
Dry gravel	50	70	
[redacted]			
Sand & gravel & water	85	95	
Water in gravel	95	102	
Gravel	102	120	

Sand

How is this possible ?

* The casing was sealed by placing a length of 10" pipe inside the 12" well casing and pressure grouting between the two pipes.

Work started 9-20 1967 Completed 11-16 1967
Date well drilling machine moved off of well 11-16 1967

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] A. O. Owens by E. D. Jannsen (Drilling Machine Operator) Date 4-4, 1968
Drilling Machine Operator's License No. 177

See Memo dated 4/9/68 from Jannsen

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 A. M. Jannsen Drilling Co. (Person, firm or corporation) (Type or print)
Address 21075 SW Tual. Vlly. Hwy. Aloha, Ore.
[Signed] Edward D. Jannsen (Water Well Contractor)
Contractor's License No. 79 Date 4-4, 1968

(USE ADDITIONAL SHEETS IF NECESSARY)

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

RECEIVED SEP 14 1956

WATER WELL DRILLERS REPORT
STATE OF OREGON

Do Not Fill In — State Well No. 3N/2W-12Q(1)
State Permit No. .....

Col. 3081

(1) OWNER:
Name Steinfeld Pickle Co.
Address P.O.Box 2589 Portland,3,Oregon.

(2) LOCATION OF WELL:
County Columbia — Owner's number, if any—
R. F. D. or Street No. Scappoose,Oregon.
Bearing and distance from section or subdivision corner
Well on the south City limits of Scappoose,Oregon.
485'E & 884'N from S¼ corner Section 12 T3N 2W

(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	ft. to	ft.	Diam.	Gage or Wall
0	164	"	8 "	.280 "
"	"	"	"	"
"	"	"	"	"
"	"	"	"	"
"	"	"	"	"

Type and size of shoe or well ring
Describe joint Welded-Steel Shoe

If gravel packed

Diameter of Bore	from ft.	to ft.
none	"	"
	"	"
	"	"
	"	"
	"	"

Size of gravel:

(7) PERFORATIONS:
Type of perforator used Mills Knife
SIZE of perforations 1½ in., length, by ¼ in.

FROM	ft. to	ft.	perf per foot	No. of rows
113	155	4	1 foot apart	
"	"	"	" " "	" " "
"	"	"	" " "	" " "
"	"	"	" " "	" " "

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

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.
Were any strata sealed against pollution? ☒ Yes ☐ No
If yes, note depth of strata
FROM 0 ft. to Abt.30 ft.
" " with cuttings
METHOD OF SEALING filled around pipe

(9) WATER LEVELS:
[redacted] ft.
[redacted] Static 39 ft.
[redacted] ft.

Log Accepted by:
[Signed] ..... Dated ....., 19.....
Owner

(10) WELL TESTS: Steinman Bros, Pacific Pumping Co's Pump
Was a pump test made? ☒ Yes ☐ No If yes, by whom?
Yield: 300 gal./min. with to 54 ft. draw down after hrs.
" 400 " to 70 from top " "
" 495 " 77 " " " "
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 inches.
Total depth 164 ft. Depth of completed well 164 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.*

ft. to	ft.	
0 "	5 "	Gravel fill material
5 "	11 "	large gravel & boulders
11 "	16 "	cement gravel
16 "	29 "	loose gravel
29 "	35 "	cement gravel
35 "	40 "	loose grey gravel
40 "	45 "	loose sand & gravel,brown
45 "	57 "	brown cemented gravel
57 "	59 "	cemented gravel
59 "	70 "	fine brown sand & gravel
70 "	80 "	cemented gravel
80 "	83 "	loose gravel. 25 G.P.M.
83 "	91 "	green sand,silt & gravel
91 "	98 "	3" cemented with sand,silt
98 "	101 "	loose gravel & sand
101 "	132 "	cemented gravel.50 G.P.M.
132 "	136 "	loose gravel
136 "	148 "	cemented gravel.3" minus
148 "	151 "	looser gravel
151 "	159 "	cemented gravel
159 "	164 "	sand & gravel.
"	"	
"	"	
"	"	
"	"	
"	"	
"	"	

all sand's

Ground elevation at well site ..... feet above mean sea level.
Work started June 19 1956 Completed July 20 1956

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 Steinman Bros.
(Person, firm, or corporation) (Typed or printed)
Address 8332,S.E.16th.Ave.Portland 2,
Driller's well number 1556
[Signed] E.B.Steinman
(Well Driller)
License No. 1 Dated Sept. 12, 1956

RECEIVED
SEP 21 1973
STATE ENGINEER
SALEM, OREGON

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

COLU 3074

WATER WELL REPORT

STATE OF OREGON (Please type or print) (Do not write above this line)

State Well No. 3N/2W-12 dc

State Permit No. .....

(1) OWNER:

Name SCAPOOSE HIGH SCHOOL

Address SCAPOOSE, OREGON

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

(4) PROPOSED USE (check):

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

(5) CASING INSTALLED:

Threaded [ ] Welded [X]

12" Diam. from +1 ft. to 177 ft. Gage .330

..." Diam. from ..... ft. to ..... ft. Gage .....

..." Diam. from ..... ft. to ..... ft. Gage .....

(6) PERFORATIONS:

Perforated? [X] Yes [ ] No.

Type of perforator used STAR

Size of perforations 3/8 in. by 1 1/4 in.

720 perforations from 137 ft. to 157 ft.

840 perforations from 157 ft. to 172 ft.

..... 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.

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? [X] Yes [ ] No If yes, by whom? STRASSER

Yield: 450 gal./min. with 107 ft. drawdown after 6 hrs.

" 390 " " 85 " " 7 "

" 340 " " 73 " " 8 "

Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.

Artesian flow ..... g.p.m.

Temperature of water 51 Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:

Well seal—Material used CEMENT GROUT

Well sealed from land surface to 22 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 17 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? [X] Yes [ ] 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 COLUMBIA Driller's well number 5454

SW¼ SE¼ Section 12 T. 3N R. 2W W.M.

Bearing and distance from section or subdivision corner .....

(11) WATER LEVEL: Completed well.

Depth at which water was first found 85 ft.

Static level 25 ft. below land surface. Date 9/10/73

Artesian pressure ..... lbs. per square inch. Date .....

(12) WELL LOG:

Diameter of well below casing —

Depth drilled 177 ft. Depth of completed well 177 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	1	
GRAVEL AND BOULDERS	1	14	
CEMENTED GRAVEL	14	27	
BROWN CLAY AND GRAVEL	27	80	
BROWN SAND	80	85	
SAND AND GRAVEL	85	90	
FINE GREEN SAND	90	96	
BLUE CLAY AND GRAVEL	96	125	
GRAVEL AND BROWN SAND	125	133	
TIGHT SAND AND GRAVEL	133	172	
STICKY BLUE CLAY	172	177	

Work started AUG 9 1973 Completed SEPT 12 1973

Date well drilling machine moved off of well SEPT 13 1973

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] ..... (Drilling Machine Operator) Date 9/20, 1973

Drilling Machine Operator's License No. 175

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 R.J. STRASSER DRILLING CO (Person, firm or corporation) (Type or print)

Address 8110 SE SUNSET LAKE PORTLAND ORE

[Signed] Robert L Strasser (Water Well Contractor)

Contractor's License No. 10 Date SEPT 20, 1973

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

690-380-2130

Change from a Surface Water Point of Diversion to a Ground Water Appropriation

(1) As provided in ORS 540.531, an owner of a surface water use subject to transfer may apply for a transfer of the point of diversion to allow the appropriation of ground water, subject to the requirements for a transfer in point of diversion under this Division and the requirements under section (2) or (3) of this rule.

(2) The Department may allow the transfer of the point of diversion under section (1) of this rule if:

(a) The criteria in OAR 690-380-5000 are met; } approval standards

(b) The new point of diversion appropriates ground water from an aquifer that is hydraulically connected to the authorized surface source; and

defined (11)(b)

(c) The proposed change in point of diversion will affect the surface water source similarly to the authorized point of diversion specified in the water use subject to transfer; and

(d) The withdrawal of groundwater at the new point of diversion is located within 500 feet of the surface water source and, when the surface water source is a stream, is also located within 1000 feet upstream or downstream of the original point of diversion as specified in the water use subject to transfer; or

need this for the pond POD

(e) If the distance requirements in subsection (2)(d) of this rule are not met, the holder of a water use subject to transfer shall submit to the Department evidence prepared by a licensed geologist that demonstrates that the use of the groundwater at the new point of diversion will meet the criteria set forth in subsections (2)(a) to (c) of this rule.

(3) Notwithstanding section (2) of this rule, the Department shall allow a transfer of the point of diversion under section (1) of this rule in the Deschutes basin ground water study area if:

(a) The proposed transfer would not result in injury to an existing water right or enlargement of the water right proposed for transfer;

(b) The criteria in OAR 690-380-5000 are met;

N/A

(c) The new point of diversion appropriates ground water from an aquifer that is hydraulically connected to the authorized surface water source; and

(d) The use of the new point of diversion will affect the surface water source hydraulically connected to the authorized point of diversion specified in the water use subject to transfer. The Department may not require that the use of the new point of diversion affect the surface water source similarly to the authorized point of diversion specified in the water use subject to transfer under this subsection.

(4) A transfer application requesting to change the point of diversion from a surface water diversion to a groundwater appropriation for which evidence prepared by a licensed geologist is

required under subsection (2)(e) of this rule shall be evaluated by the Department in the following manner:

(a) The change in point of diversion request shall be examined to determine the potential for injury as if the change is to be from the authorized point of diversion to a point on the stream nearest the proposed well;

(b) If potential injury is not found, the evidence prepared by a licensed geologist and submitted by the applicant shall be evaluated to determine whether the application meets the other requirements of subsection (2)(a) to (c) of this rule. The geologist's report shall examine the effect on the surface water source in the vicinity of the point on the stream nearest the proposed new point of diversion.

(5) The new point of diversion shall retain the original date of priority and all other applicable conditions and restrictions that existed at the original point of diversion shall apply at the new point of diversion authorized under the transfer.

(6) If within five years after approving a transfer under this rule, the Department finds that the transfer results in substantial or undue interference with an existing ground water right that would not have occurred in the absence of the transfer, the new point of diversion shall be subordinate to the existing right injured by the transfer. This section applies only to wells with rights existing at the time the transfer was approved.

(7) The original point of diversion of surface water shall not be retained as an additional or supplemental point of diversion.

(8) The Department shall approve a transfer application to return to the last authorized surface water point of diversion if the required transfer application is received within five years after the Department approves a transfer under this rule. It shall be presumed, for transfers under this subsection, that there is no injury, including injury to rights obtained or transferred after the approval of the first transfer.

(9) The Department shall approve an application to return to the last authorized surface water point of diversion after five years of the date the Department allows the transfer under section (3) of this rule if the Department receives the required application, and the return will not result in injury.

(10) For transfers allowed under this rule, the Department shall require mitigation measures to prevent depletion from any surface water source not specified in the permit or certificated or decreed water right pursuant to ORS 540.531(6), except that the Department may not require mitigation measures if the transfer complies with section (3) of this rule.

(11) As used in this rule:

(a) "Existing ground water right" means a right that existed at the time a transfer was approved under sections (1) to (5) of this rule and does not include a right established after the transfer whether by permit or a change in point of appropriation regardless of priority date.

(b) "Similarly" means that the use of groundwater at the new point of diversion affects the surface water source specified in the permit or certificated or decreed water right and would result in

stream depletion of at least 50 percent of the rate of appropriation within 10 days of continuous pumping.

(c) "Deschutes basin ground water study area" means the Deschutes River Basin drainage area indicated in OAR 690, division 505, Exhibit 1.

(12) The Department shall provide notice and review of transfer applications under section (3) of this rule pursuant to OAR 690-380-4000 through 690-380-4200.

(13) Opportunities to protest a transfer under section (3) of this rule shall be pursuant to OAR 690-380-4030.

(14) The Department shall issue final orders on transfer applications under section (3) of this rule pursuant to OAR 690-380-5000.

Stat. Auth.: ORS 536.025 & 536.027
Stats. Implemented: ORS 540.520, 540.530 & 540.531
Hist.: WRD 5-1996, f. & cert. ef. 7-11-96; WRD 2-2003, f. & cert. ef. 5-1-03, Renumbered from 690-015-0210; WRD 1-2004, f. & cert. ef. 3-17-04; WRD 5-2006, f. & cert. ef. 10-6-06