

WATER WELL REPORT
STATE OF OREGON

CLAC

03164 RECEIVED

FEB 2 1983

State Well No. 25/1E-20

State Permit No. Abandoned

WATER RESOURCES DEPT.
SALEM, OREGON

(1) OWNER: City of Rivergrove for the

Name Rivergrove Water Dist.
Address 17725 SW Boones Ferry Road
City Lake Oswego, Oregon 97034

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air Driven Domestic Industrial Municipal
Rotary Mud Dug Irrigation Test Well Other
 Bored Thermal: Withdrawal Reinjection

(4) PROPOSED USE (check):

(5) CASING INSTALLED: Steel Plastic
Threaded Welded

" Diam. from ft. to ft. Gauge
" Diam. from ft. to ft. Gauge

LINER INSTALLED:

" Diam. from ft. to ft. Gauge

(6) PERFORATIONS: Perforated? Yes No

Type of perforator used
Size of perforations in. by in.
..... perforations from ft. to ft.
..... perforations from ft. to ft.
..... perforations from ft. to ft.

(7) SCREENS: Well screen installed? Yes No

Manufacturer's Name
Type Model No.
Diam. Slot Size Set from ft. to ft.
Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? Yes No If yes, by whom?
gal./min. with ft. drawdown after hrs.
Air test gal./min. with drill stem at ft. hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION: Special standards: Yes No

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

Was pump installed? Type HP Depth ft.

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 CLACKAMAS Driller's well number
1/4 - 1/4 Section 20 T. 29. R. 1E. W.M.
Tax Lot # Lot Blk Subdivision
Address at well location:

(11) WATER LEVEL: Completed well.

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

(12) WELL LOG: Diameter of well below casing

ABANDONMENT ft. Depth of completed well 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
JANUARY 1983			
26th. Filled Well Casing the (10") From			
10 ft. below surface to bottom			480ft0
27th. with clean silt loam/fine sandy loam			
(10 plus cu. yds)			
27th. Excavated around the casing to a			
depth of 8 to 9 feet			
27th. Cut off casing (3 Layers) at			
approximately 8 feet below land			
surface.			
27th. Placed concrete Plug (approx. 3ft.)			
at top of casing and around outside			
of casing.			
27th. Back filled, compacted and mounded			
excavation site with native material			
and remaining silt loam.			
HAAKON BOTTNER WAS AT THE SITE			
AT THE COMPLETION			
Work started	19	Completed	19
Date well drilling machine moved off of well			19

Work started 19 Completed 19
Date well drilling machine moved off of well 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] Date 19.....
(Drilling Machine Operator)

Drilling Machine Operator's License No.

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 HAAKON BOTTNER DRILLING CO.
(Person, firm or corporation) (Type or print)

Address 10230 S.E. GINDY LANE, BORING, OR. 97009

[Signed] Haakon Bottner
(Water Well Contractor)

Contractor's License No. 109 Date Jan. 31st. 1983

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

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

SP-12658-690

T 11160

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

RECEIVED SHEET NO. 1
FEB 28 1968 WATER WELL REPORT
STATE OF OREGON
STATE ENGINEER (Type or print)

State Well No. 2/1-20
State Permit No. Well No. 1

(1) OWNER:

Name RIVERGROVE WATER DISTRICT
Address 17725 S.W. Boones Ferry Rd.
Lake Oswego, Oregon

(2) LOCATION OF WELL:

County Clackamas Driller's well number
K K Section 20 T. 2S R. 1E W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

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

(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
12" Diam. from 0 ft. to 431 ft. Gage 330
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:

Perforated Yes No
Type of perforator used Toroh
Size of perforations 3/16 in. by 10 in.
162 perforations from 345 ft. to 427 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:

1st Seal at 106 ft.
2nd " " 35 ft.
Well seal—Material used in seal Cement, sand & gravel
Depth of seal 106 & 35 ft. Was a packer used? No
Diameter of well bore to bottom of seal 18 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:
Gravel placed from ft. to 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 185 ft. below land surface Date 5/8/67
Artesian pressure lbs. per square inch Date

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level Bottner
Was a pump test made? Yes No If yes, by whom DFL Co.
Yield: 308 gal./min. with 85 ft. drawdown after 1 1/2 hrs.
" 325 " 155 " 1 " "
" 317 " 89 " 7 " "
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 10 in.
Depth drilled 430 ft. Depth of completed well 430 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
Clay, yellow & boulders	0	19
Clay, blue	19	38
Clay, blue & boulders	38	60
Gravel, cemented	60	98
Rock, gray, hard	98	106
Rock, black, hard	106	130
Rock, black, soft	130	135
Rock, black, broken	135	152
Rock, black, hard	152	162
Rock, black, soft	162	190
Rock, gray, hard	190	198
Rock, gray, soft	198	201
Rock, gray w/ seams	201	208
Rock, gray, soft	208	210
Clay, white	210	213
Rock, gray	213	223
Rock, black, hard	223	241
Clay, brown	241	245
Rock, brown, coarse	245	248
Rock, gray, mdm, hard (gravel)	248	340
Rock, black, mdm, hard	340	358
Rock, red, mdm, soft	358	384
Water level dropped from	see addition	
172' to 184' at 384 ft.	at sheet	
Work started Nov. 21 1966	Completed May 8	1967
Date well drilling machine moved off of well	May 11	1967

(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 HAAKON BOTTNER DRILLING COMPANY
Address 3424 S.E. 174th. AVE. PORTLAND, ORE.

Drilling Machine Operator's License No. 2462-295
[Signed] Haakon Bottner
(Water Well Contractor)
Contractor's License No. 109 Date 6/12/67

T 11160

NOV 29 2010

CLAC 3189 p. 2

SHEET NO 2

03175 WATER WELL REPORT

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.

STATE OF OREGON (Please type or print)

State Well No. 2/1-20
State Permit No.

(1) OWNER:

Name RIVERGROVE Water District
Address 17725 S.W. BOONES FERRY RD. LAKE OSWEGO, OREGON

(2) LOCATION OF WELL:

County Driller's well number
Section T R 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 12.

(4) PROPOSED USE (check):

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

(6) CASING INSTALLED:

Threaded [] Welded []
Diam. from ft. to ft. Gage
Diam. from ft. to ft. Gage
Diam. from ft. to ft. Gage

(7) PERFORATIONS:

Perforated? [] Yes [] No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(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
Depth of seal ft. Was a packer used?
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:
Gravel placed from ft. to 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 ft. below land surface Date
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?
Yield: gal./min. with ft. drawdown after hrs.
Relief 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 ft. Depth of completed well 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.

Table with columns: MATERIAL, FROM, TO. Rows: Rock, red, hard (384-402), Rock, blue, hard (402-406), Rock, red, soft (406-422), Rock, red, hard (422-430)

SEE SHEET NO 1

Work Started 19 Completed 19
Date well drilling machine moved off of well 19

(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.

NOV 29 2010

NAME (Person, firm or corporation) (Type or print)

Address

Drilling Machine Operator's License No.

[Signed] Jackson Bottner (Water Well Contractor)

Contractor's License No. Date 6/12/1967

(USE ADDITIONAL SHEETS IF NECESSARY)

CLAC 3189 LAC 3189

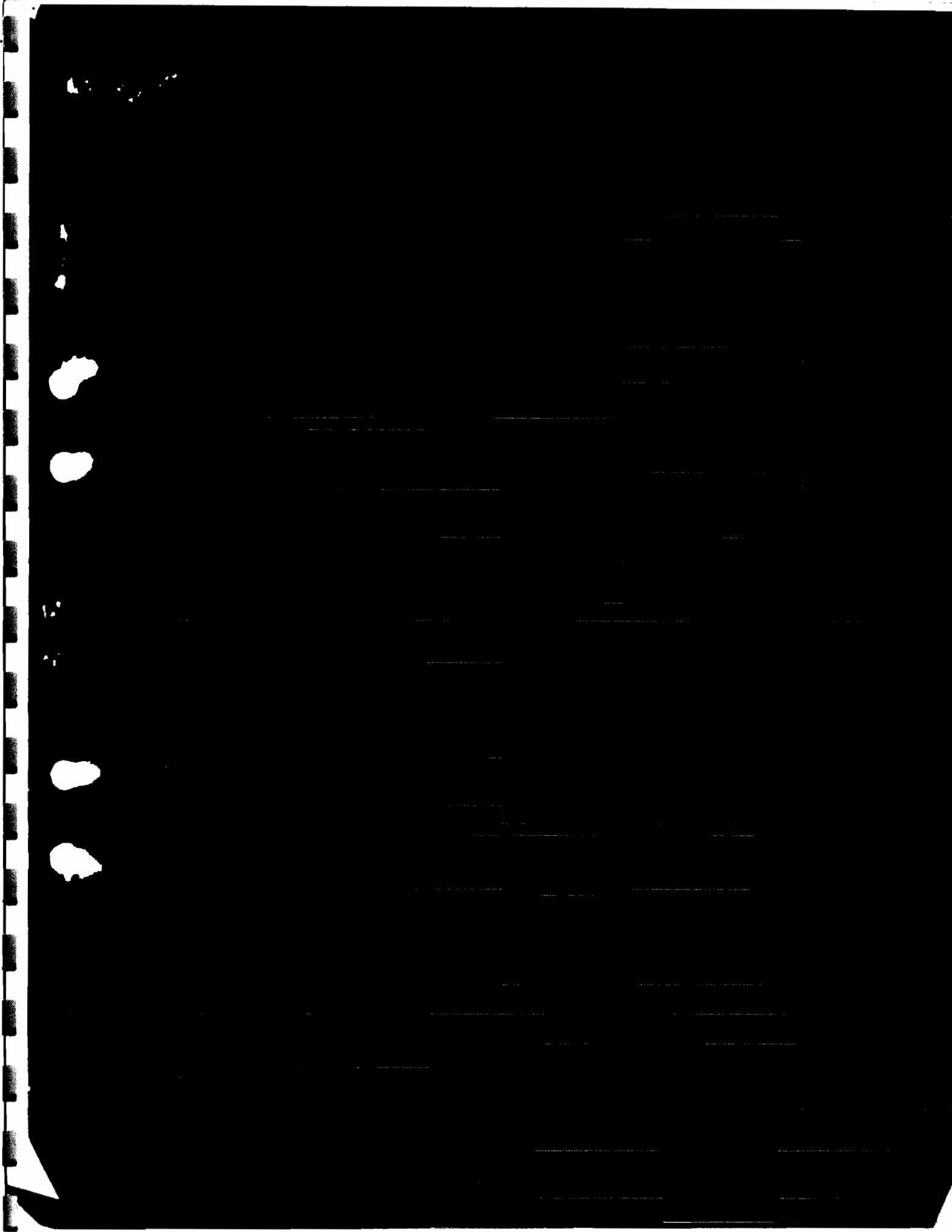
2/1-200(4)
LAC/CLAC

T 11160

CLAC 3189 3189

2/1-20D(2)
CLAC 3189

T 11160



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

07-16-2010

WELL LABEL # 41034

START CARD # 1009879

(1) LAND OWNER

Owner Well I.D.
First Name Last Name
Company RIVER GROVE WATER DISTRICT
Address 17661 PILKINGTON ROAD
City LAKE OSWEGO State OR Zip 97034

(2) TYPE OF WORK

(3) DRILL METHOD

(4) PROPOSED USE

(5) BORE HOLE CONSTRUCTION

Table with columns: Dia, From, To, Material, SEAL, Amt, sacks/lbs. Includes data for Cement seal at 20-82 ft.

How was seal placed: Method A B C D E
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. Includes data for 16, 12, and 12 inch casings.

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

(7) PERFORATIONS/SCREENS

Table with columns: Perf/S, Casing/Screen, Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/pipe size. Includes data for 12 inch casing.

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

Table with columns: Pump/Bailer/Air/Flowing Artesian, Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr). Includes data for 400 gal/min yield.

Temperature 56 °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 Clackamas Twp 2.00 S N/S Range 1.00 E E/W WM
Sec 20 NE 1/4 of the NW 1/4 Tax Lot 21E 20BA00101
Tax Map Number Lot
Lat " or 42.38842000 DMS or DD
Long " or -122.71340000 DMS or DD
Street address of well Nearest address
3600 OLSON CT., RIVERGROVE, OR. 97034

(10) STATIC WATER LEVEL

Table with columns: Existing Well / Predeepening, Date, SWL(psi), SWL(ft). Includes data for completed well on 06-21-2010.

WATER BEARING ZONES

Table with columns: SWL Date, From, To, Est Flow, SWL(psi), SWL(ft). Includes data for 05-13-2010.

(11) WELL LOG

Table with columns: Material, From, To, Ground Elevation. Lists soil types like Soils with Gravel, Gravels and Cobbles, etc.

Date Started 04-14-2010 Completed 06-21-2010

(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.

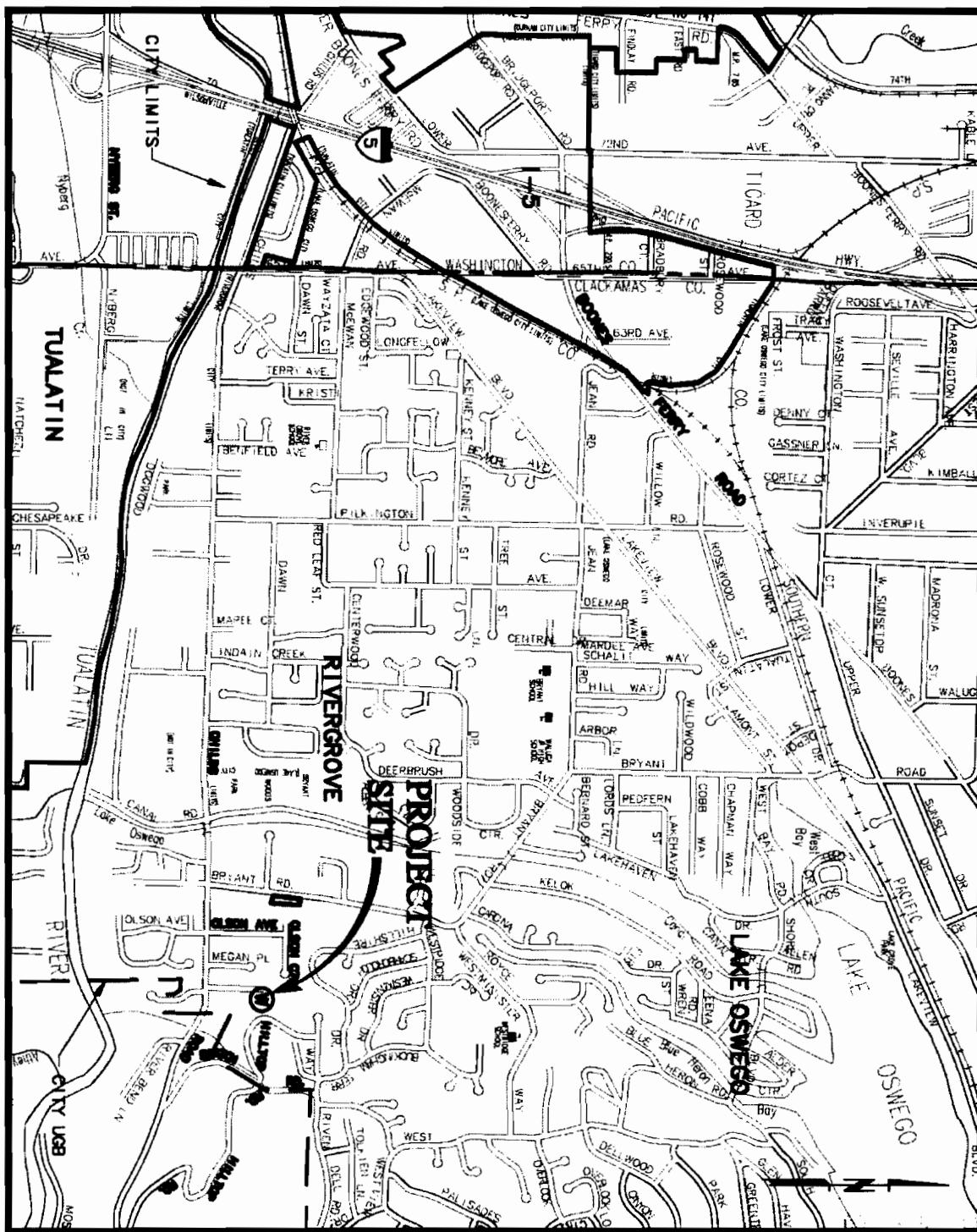
License Number Date
Electronically Filed
Signed NOV 29 2010

(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 1796 Date 07-16-2010
Electronically Filed
Signed CHRIS HUMPHRIES (E-filed)
Contact Info (optional)

Map of well



VICINITY MAP

SCALE: 1"=1000'

NOV 29 2010

T 11160