



Oregon

John A. Kitzhaber, MD, Governor

Water Resources Department

North Mall Office Building
725 Summer St. NE, Suite A
Salem, OR 97301
Phone 503-986-0900
FAX 503-986-0904
www.wrd.state.or.us

February 9, 2012

STEPHEN J SCHNEIDER #649
SCHNEIDER EQUIPMENT INC
21881 RIVER RD NE
ST PAUL OR 97137

FINAL ORDER

Dear Steve:

The Special Standards Request Form you submitted for owner: Rivergrove Water District, Start Card number 201165 (Well #2), is hereby approved for the following: Installing and swage a minimum 1/8" thick stainless steel patch over weld and grouting from 25 feet back to land surface. Your Special Standards Request Forms is enclosed.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions concerning this letter, I may be contacted at (503) 986-0852, or by e-mail at juno.g.pandian@ wrd.state.or.us.

Sincerely,

Juno Pandian, Manager
Well Construction and Compliance Section

enclosure

cc: Bill Ferber, W Region Manager
File

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.





Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

Special Standards Request Form

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN OREGON ADMINISTRATIVE RULES 690-200 THROUGH 690-240

Before the request can be considered, this form must be completed. Requests shall be submitted to the Well Construction Program Coordinator, Water Resources Department, 725 Summer Street NE, Suite A, Salem OR 97301-1266. Requests may also be considered by the appropriate Regional Manager.

Date of request: 2/8/12 Oral approval date (if applicable): _____

Bonded Well Constructor (name, license #, and mailing address): Steve Schneider #649

21881 River Road NE, St. Paul, OR 97137

(1) Location of Well: NW 1/4 of NE 1/4 Tax lot 900 Section 20,

Township 2 S, Range 12/23/11 E, Clackamas County

Address at well site: 18810 Hilltop Rd, Lake Oswego, OR 97034

(2) Start Card Number(s)(for work to be done): 201165

(3) Name and Address of Land Owner: Rivergrove Water District

17661 Pilkington Rd, Lake Oswego, OR 97035-5360

(4) Distance to the nearest septic tank, drainfield, closed sewage line (if water supply well)

(5) The unusual site conditions which necessitate this request: We were contracted to overdrill

existing casing and replace annular seal because it was mentioned as a potential issue during health dept

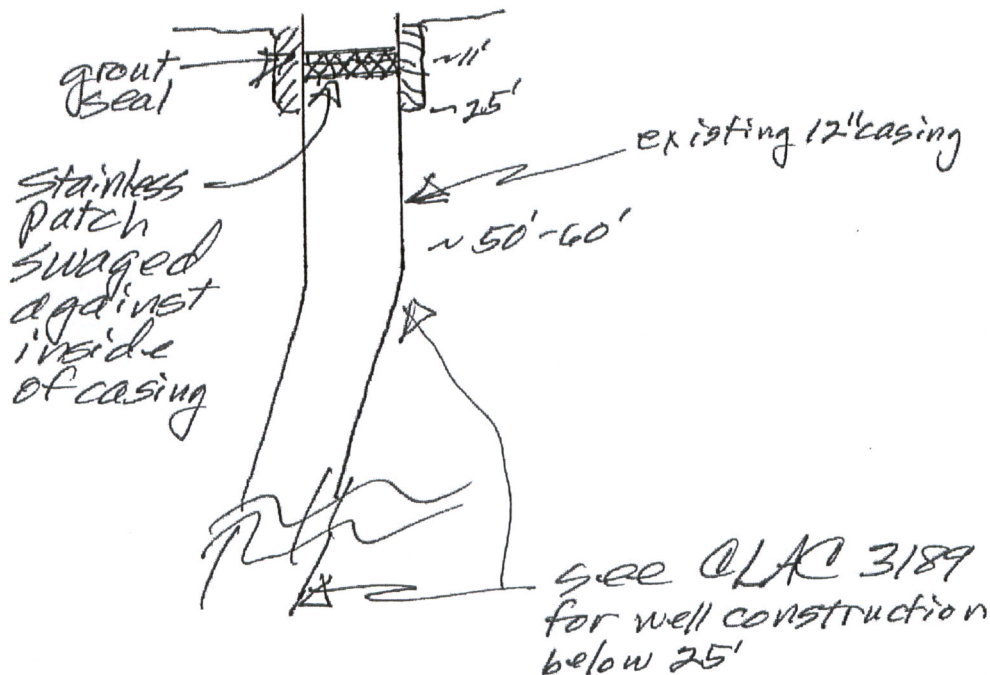
survey(s). We overdrilled to 25', found weeping weld at ~11' bgs. Ran drift check; hole below ~50' has excessive bend.

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well: (attach additional pages if needed)

Install and swage a minimum 1/8" thick stainless steel patch over weld. Grout well from 25' back to surface. Do

not overdrill or replace seal any deeper.

- (7) Diagram showing the pertinent features of the proposed well design and construction:
(attach additional pages if needed)



PLEASE NOTE:

- (1) The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.
- (2) If it should be determined at some future date that the well, due to its construction, is allowing ground water contamination, waste or loss of artesian pressure, the undersigned shall return to the site and rectify the problem.
- (3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.

Bonded Constructor Signature: _____

Stephen J. Schneider



Oregon

John A. Kitzhaber, MD, Governor

Water Resources Department

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725 Summer St. NE, Suite A
Salem, OR 97301
Phone 503-986-0900
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February 9, 2012

STEPHEN J SCHNEIDER #649
SCHNEIDER EQUIPMENT INC
21881 RIVER RD NE
ST PAUL OR 97137

FINAL ORDER

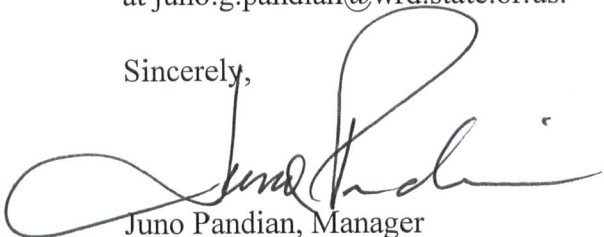
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cc: Bill Ferber, W Region Manager
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Well # 2 Date of request: 2/8/12 Oral approval date (if applicable): _____

Bonded Well Constructor (name, license #, and mailing address): Steve Schneider #649

21881 River Road NE, St. Paul, OR 97137

(1) Location of Well: NW 1/4 of NE 1/4 Tax lot 900 Section 20,
Township 2 S, Range 12/23/11 E, Clackamas County
Address at well site: 18810 Hilltop Rd, Lake Oswego, OR 97034

(2) Start Card Number(s)(for work to be done): 201165

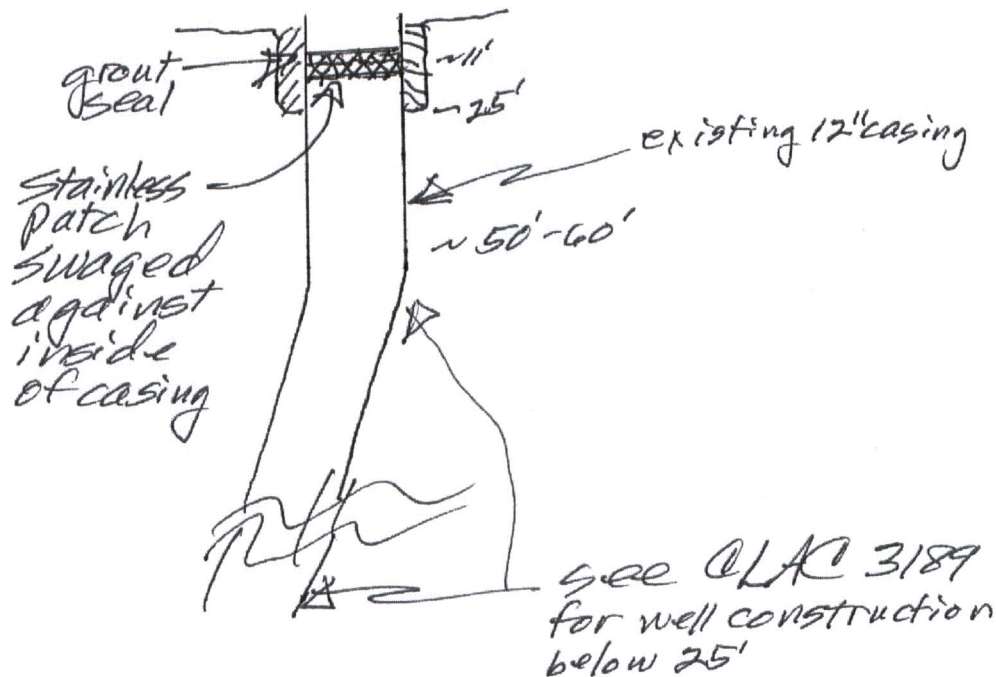
(3) Name and Address of Land Owner: Rivergrove Water District
17661 Pilkington Rd, Lake Oswego, OR 97035-5360

(4) Distance to the nearest septic tank, drainfield, closed sewage line (if water supply well)

(5) The unusual site conditions which necessitate this request: We were contracted to overdrill
existing casing and replace annular seal because it was mentioned as a potential issue during health dept
survey(s). We overdrilled to 25', found weeping weld at ~11' bgs. Ran drift check; hole below ~50' has excessive bend.

(6) The proposed construction methods that the bonded well constructor believes will be
adequate for this well: (attach additional pages if needed)
Install and swage a minimum 1/8" thick stainless steel patch over weld. Grout well from 25' back to surface. Do
not overdrill or replace seal any deeper.

- (7) Diagram showing the pertinent features of the proposed well design and construction:
(attach additional pages if needed)



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- (1) The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.
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- (3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.

Bonded Constructor Signature: _____

Stephen F. Schneider

Kris Byrd

From: Steve Schneider <SteveS@seidc.com>
Sent: Wednesday, February 08, 2012 12:32 PM
To: Kris Byrd
Cc: Jim Thompson
Subject: special standard request
Attachments: Special Standard request.pdf; CLAC_3189[1].pdf; Rivergrove well 2 120' scale 2-6-2012.pdf; Rivergrove well 2 400' scale 2-6-2012.pdf

Kris,

Rivergrove WD contracted us to overdrill their Well #2 and replace its seal. As we started to overdrill, our driller noticed things didn't seem right so he pulled up and as his tools pulled cleared he noticed the 12" existing casing had moved over against the 20" temporary casing he had installed to 4'. That gave us concern about alignment so we ran a drift survey (see attached plots). When he removed the drift plummet from the 12" casing, he noticed drill mud on it. He then ran a camera down and observed mud had seeped into the well at an apparent weld connection ~11' bgs. There is no visible separation of the casing; only that mud had leaked through the connection. We do not want to proceed with overdrilling any further given the misalignment that we discovered. To the best of our knowledge, this work was requested by the District only because the seal on the well had been mentioned on a Health Department survey as a potential concern. Our understanding from MSA, their consultants, is that there has not been a contamination issue with this well.

We have a rig over this well and would like to proceed as soon as possible.

Appreciate it if you could take a quick look at this and let us know if we can proceed with the Special Standard, if you have any other suggestions, or if you need anything further.

Regards,

Steve Schneider MGWC
Vice President

Schneider Equipment, Inc.
& dba Schneider Drilling Co.
21881 River Road NE
St. Paul, OR 97137
ph 503-633-2666
fx 503-633-2668

Tom Patton - Since wtr. Assessment Rpt -
April 2002 - Consider for future ^{now} monitor for wtr.
July 2003 - quality
Sept. 2011 - Nitrate - ~~OK~~ OK
~~Old Well~~

'2009 - plan review - Request - to repair

patton - "Do no harm to lower seal"

Well #2

CLAC 3189

03189

Pg 1 of 3

3

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 SHEET NO. 1 WATER WELL REPORT

FEB 28 1968

STATE OF OREGON STATE ENGINEER

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 Clackamas Driller's well number
1/4 1/4 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 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 ☒
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 Torch
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
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

Was a pump test made? ☒ Yes ☐ No If yes, by whom Bottner Drig. Co.
Yield: 308 gal./min. with 85 ft. drawdown after 1 1/2 hrs.
" 325 " 155 " 1 "
" 317 " 89 " 7 "

Ballor 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 bottom to

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 (gray ice)	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
(Person, firm or corporation) (Type or print)
Address 3424 S.E. 174th. AVE. PORTLAND, ORE.

Drilling Machine Operator's License No. 2466 295

[Signed] Haakon Bottner
(Water Well Contractor)

Contractor's License No. 109 Date 6/12/1967

(USE ADDITIONAL SHEETS IF NECESSARY)

CLAC 3189 p. 2

SHEET NO 2

03/17 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 _____
1/4 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 ☐ Rotary ☐ Driven ☐
Irrigation ☐ Test Well ☐ Other ☐ Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(5) TYPE OF WELL:

(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.

(8) SCREENS:

Well screen installed? ☐ Yes ☐ NoManufacturer'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 _____

(USE ADDITIONAL SHEETS IF NECESSARY)

(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.

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 _____ 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.

MATERIAL	FROM	TO
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.

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

Address _____

Drilling Machine Operator's License No. _____

[Signed] Sheldon Bottner
(Water Well Contractor)Contractor's License No. _____ Date 6/12/1967

CLAC 3189

CLAC 3189

2/-200H

H/CLACK

DRILLING LOG

RIVERGROVE WATER DIST.

WELL No. 1

Drilled By: Hadden I. Bohner

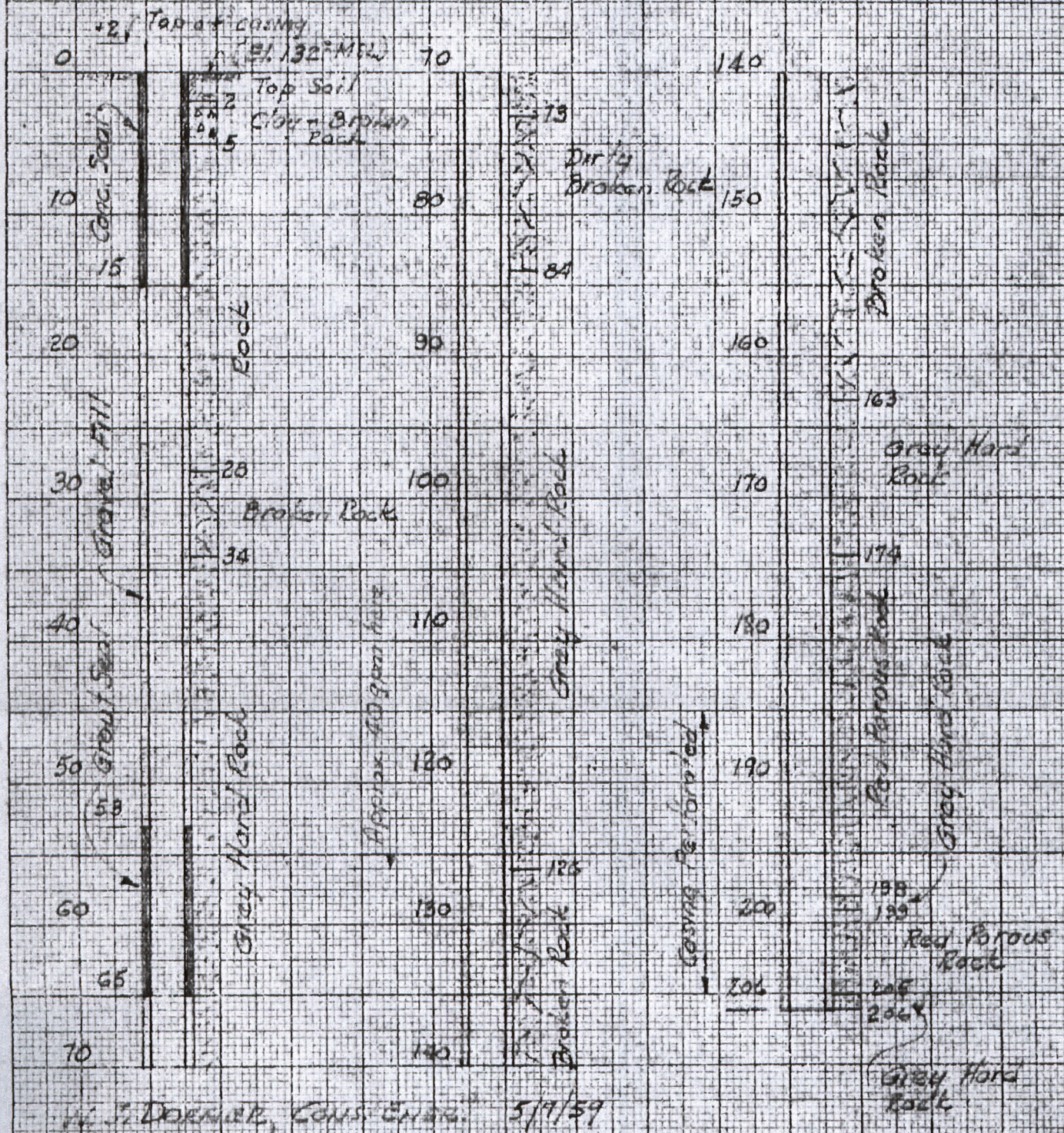
Drilling Started: 3/4/59

Drilling Completed: 4/22/59

Hole Size: 16"

Casing: 12" 0.93 wall

200' Installed



CLAC 3189

2/1-200(2)
CLACKAMASSAND FILL
FILLING 9-1949Note: Pump
base at El +27
9/24/59DRAWDOWN TEST
RIVERGROVE WATER DIST.
WELL No. 1

Ground Elevation 0.0 (El. 132' M.S.L.)

Static Level 0.35

FEET BELOW GROUND

0
20
40
60
80
100
120
140
160
180
200
220
240Proposed deep
well for fire
pump. 200 gpm
at 65' drawdown.Pump on
9/20/59Drawdown test 9/20/59
92/325

92/325

105/374

122/409

510/165

Note:
This point on
sustained 12 hr
test 4/28/59

Bottom of Well @ 206'

GAL. PER MIN.

Test performed by
Hooker I. Botner Well
Drilling Co. on 4/24/59W. J. DORNER
CONSULTING ENGINEER
MAY 7, 1959RECEIVED
MAR 24 1961

STATE ENGINEER

CLIFFER
PAPER CO. N.
NO. 250-12
10 to 15 in.

TESTING
CONSULTATION
RESEARCH



CLAC 3189

LABORATORY CERTIFICATE

Charlton Laboratories

CHEMISTS — BACTERIOLOGISTS — ENGINEERS

2540 S. W. JEFFERSON ST.

P.O. BOX 1048

PORTLAND 7, OREGON

CAPITOL B-9663

MEMBERSHIP
AMERICAN CHEMICAL SOCIETY
AMERICAN SOCIETY FOR TESTING MATERIALS
AMERICAN SOCIETY FOR METALS
AMERICAN WATER WORKS ASSN.
AMERICAN PUBLIC HEALTH ASSN.
AMERICAN BAKING CHEMISTS
AMERICAN DRUG CHEMISTS ASSOCIATION
FEDERAL BUREAU OF INVESTIGATION
AMERICAN ASSN. OF GENERAL PHYSICISTS
AMERICAN JOURNAL OF EXPERIMENTAL PHYSICS
LABORATORIES
AMERICAN CONCRETE INSTITUTE
SOCIETY OF AUTOMOTIVE ENGINEERS
AMERICAN WELDING SOCIETY
NATIONAL ASSOCIATION OF
MANUFACTURING ENGINEERS
AMERICAN ELECTROPLATING SOCIETY

TO: River Grove Water District
18675 S. W. Pilkington Road
Oswego, Oregon

LABORATORY NO. 36889

DATE: April 30, 1959

SUBJECT: WELL WATER FROM WELL #1

DATE RECEIVED: 4-22-59

CHEMICAL ANALYSIS

pH Value

6.95

parts per million

Total Solids (Residue on Evaporation)	168
Volatile Solids (Loss on Ignition)	24
Alkalinity (as CaCO ₃)	
Carbonate	0
Bicarbonate	91
Hardness (as CaCO ₃)	88.0
Iron (Fe)	0.57
Silica (SiO ₂)	57.2
Aluminum (Al)	1.2
Calcium (Ca)	21.5
Magnesium (Mg)	8.3
Sodium	6.2
Potassium (K)	3.0
Manganese (Mn)	0.0
Chloride (Cl)	2.9
Sulfate (SO ₄)	2.6
Nitrate (NO ₃)	0.00
Fluoride (F)	0.0

This water is classed as a slightly hard bicarbonate type. The iron is a little higher than the standard maximum of 0.3 for municipal waters. This water should be satisfactory for general domestic and most industrial uses if it meets bacteriological standards.



JMH:ek
2c-W.J. Dorner
1c-Kenneth B. Carls

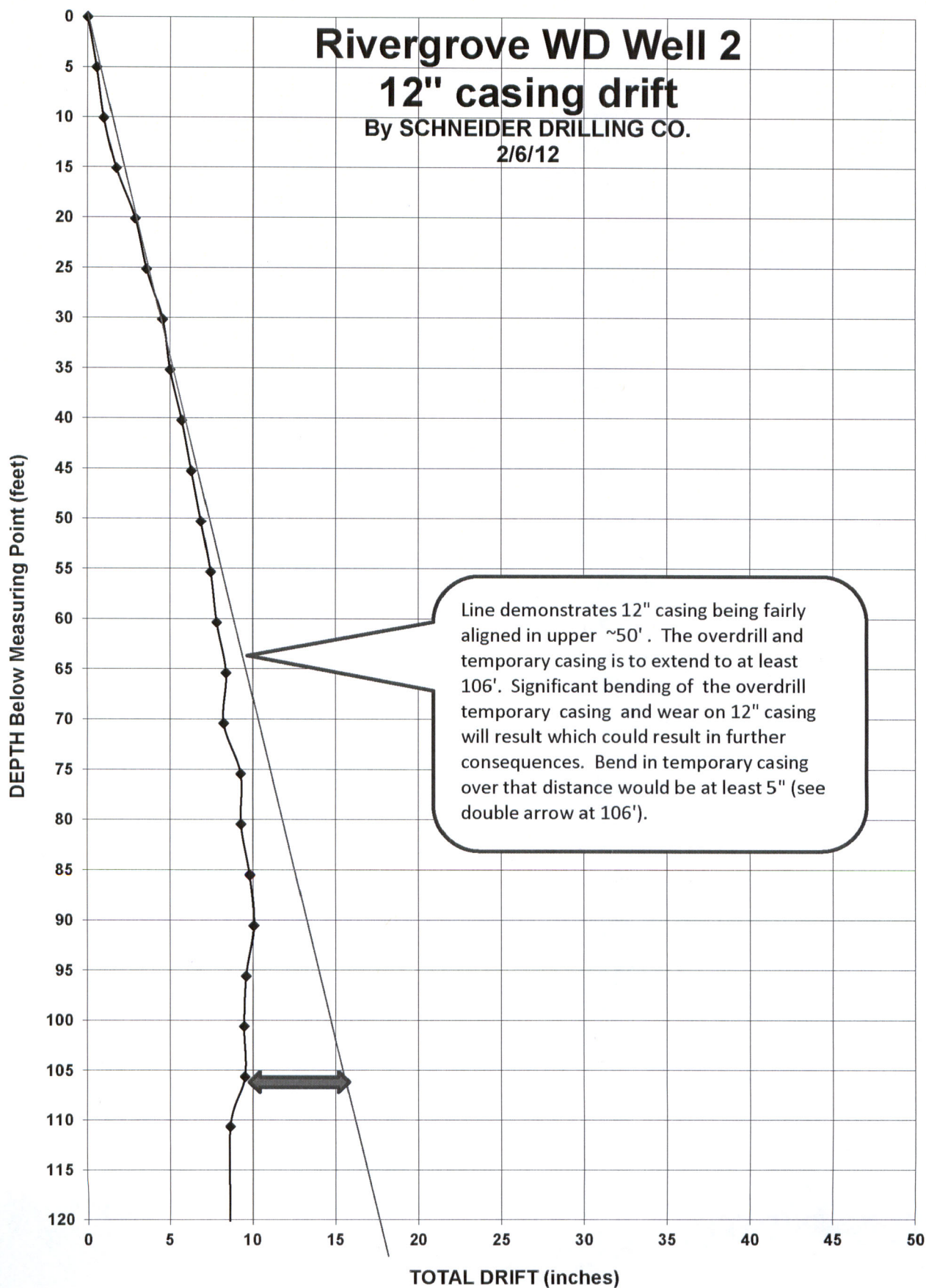
CHARLTON LABORATORIES, INC.

By

Rivergrove WD Well 2 12" casing drift

By SCHNEIDER DRILLING CO.

2/6/12

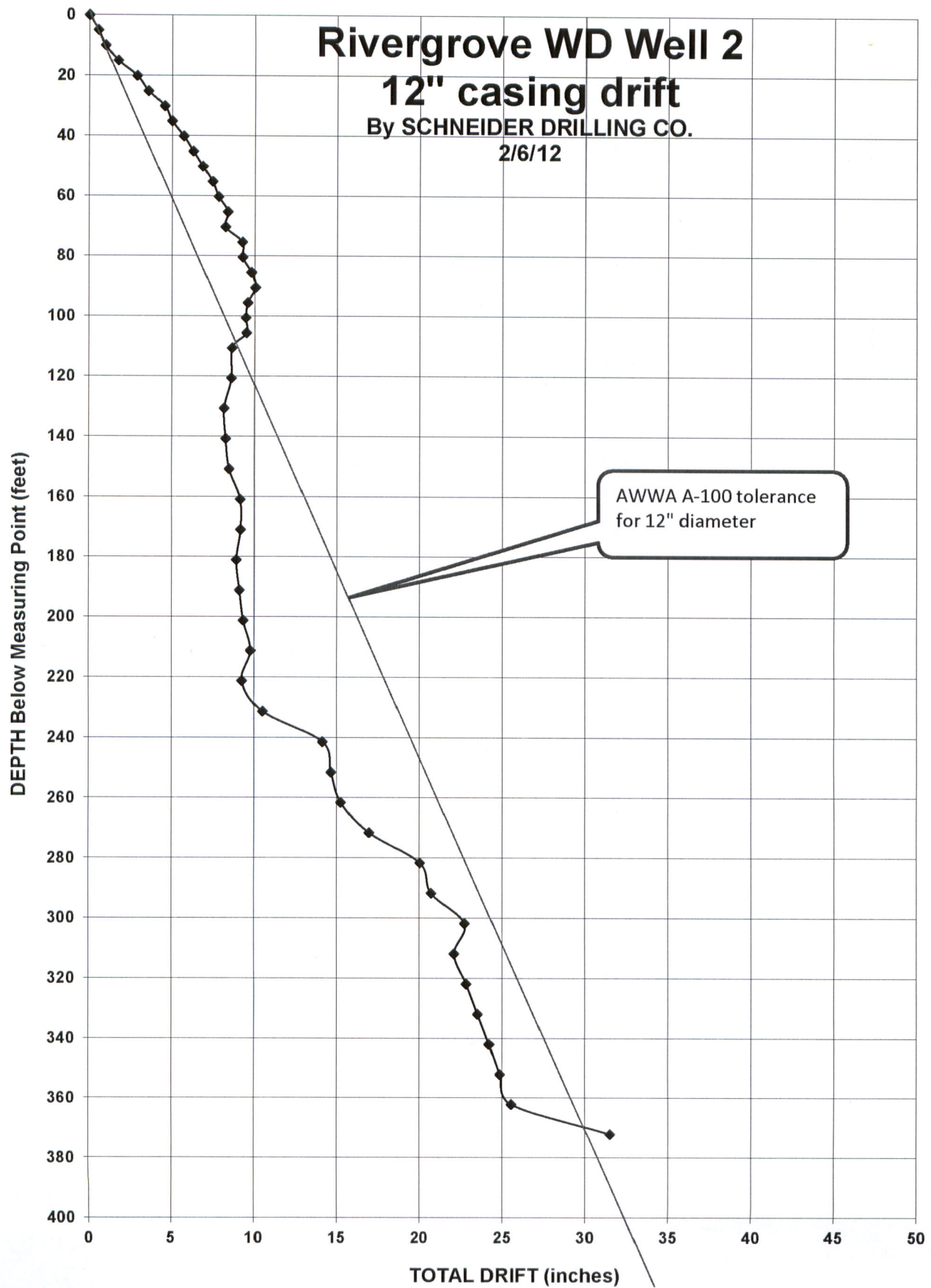


Rivergrove WD Well 2

12" casing drift

By SCHNEIDER DRILLING CO.

2/6/12



Steve Schneider (503) 633-2666

Rivergrove Water District
OR 41 00461
well #2

Peter Furrely - OHD
(971) 673-0405

After
8:30.

Dave Leland - OHD - (541) 726-2587
ext 24.

Sent Attachments -

Reviewed log & Driller info.

- NO water quality issued w/this well.
- monitoring?

Karyl Salis - (Kerry Gentry)
OHD →

(971) 673-0460

(541) 726-2587 x24 Tom Pettee.

2002 Source water Assessment-

- inadequately constructed.
- water system - Do we need to fix 4/2002.
- OHD - may want to fix in future.
- water quality monitoring.
- Reconstruct if contaminated.
- 7/2003 - fix if contaminated.
- 2009 - plan review - well 1 & 2 to reconstruct.
- 10/2010 - may have sampled both wells.
- less than 2mg/L nitrate. well #2, 9/4/11
- Nitrate way below MCL.
- casing seal material not adequate based on current rules.
- Not much int for lower seal.
- WRD opinion - Band in casing - original construction or overdrilling? June - original construction.
- suggested they refurbish it.
- Swedger history - Seal interval?
- Condition - Submit video log of work?
- I can witness installation.