

CLAC
54164

STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

WELL I.D. # L 14881
START CARD # 102404

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

(1) OWNER:

Well Number Bull Run
Test Well

Name City of Portland
Address 1120 SW 5th Ave.
City Portland State OR Zip 97204

(2) TYPE OF WORK

New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:

Rotary Air Rotary Mud Cable Auger

Other Reverse Circulation Rotary

(4) PROPOSED USE:

Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other Test

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 812 ft.

Explosives used Yes No Type _____ Amount _____

HOLE				SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds	
12	0	49	Cement	0	252	160 sks	
10	49	252					
8	252	812					

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:

Casing/ Liner:	Diameter	From	To	Gauge	Material			
					Steel	Plastic	Welded	Threaded
	8	+3	252	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

Perforations		Screens						
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

<input type="checkbox"/> Pump	<input type="checkbox"/> Bailor	<input type="checkbox"/> Air	<input checked="" type="checkbox"/> Flowing Artesian
Yield gal/min	Drawdown	Drill stem at	Time
***See Attached Graphs			1 hr.

Temperature of water ~50°F 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 Clackamas Latitude _____ Longitude _____
Township 15 N or S Range 5E E or W. WM.
Section 35 NE 1/4 NW 1/4
Tax Lot 1400 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Lower Headworks Rd.
NYA

(10) STATIC WATER LEVEL:

_____ ft. below land surface. Date _____
Artesian pressure 86 lb. per square inch. Date 3-15-99

(11) WATER BEARING ZONES:

Depth at which water was first found 1st significant at 33

From	To	Estimated Flow Rate	SWL
33	40	5+	9
67	83	50+	9
148	174	25+	NM
287	317	5+ } see	see
509	519	70+ } (8)	(10)

(12) WELL LOG:

Ground Elevation approx 650

Material	From	To	SWL
see attached log			

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APR 14 1999

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SALEM, OREGON

Date started 1-27-99 Completed 3-23-99

(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 _____ WWC Number 1367
Date 4-12-99

(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 Stephen Schneider WWC Number 649
Date 4-12-99

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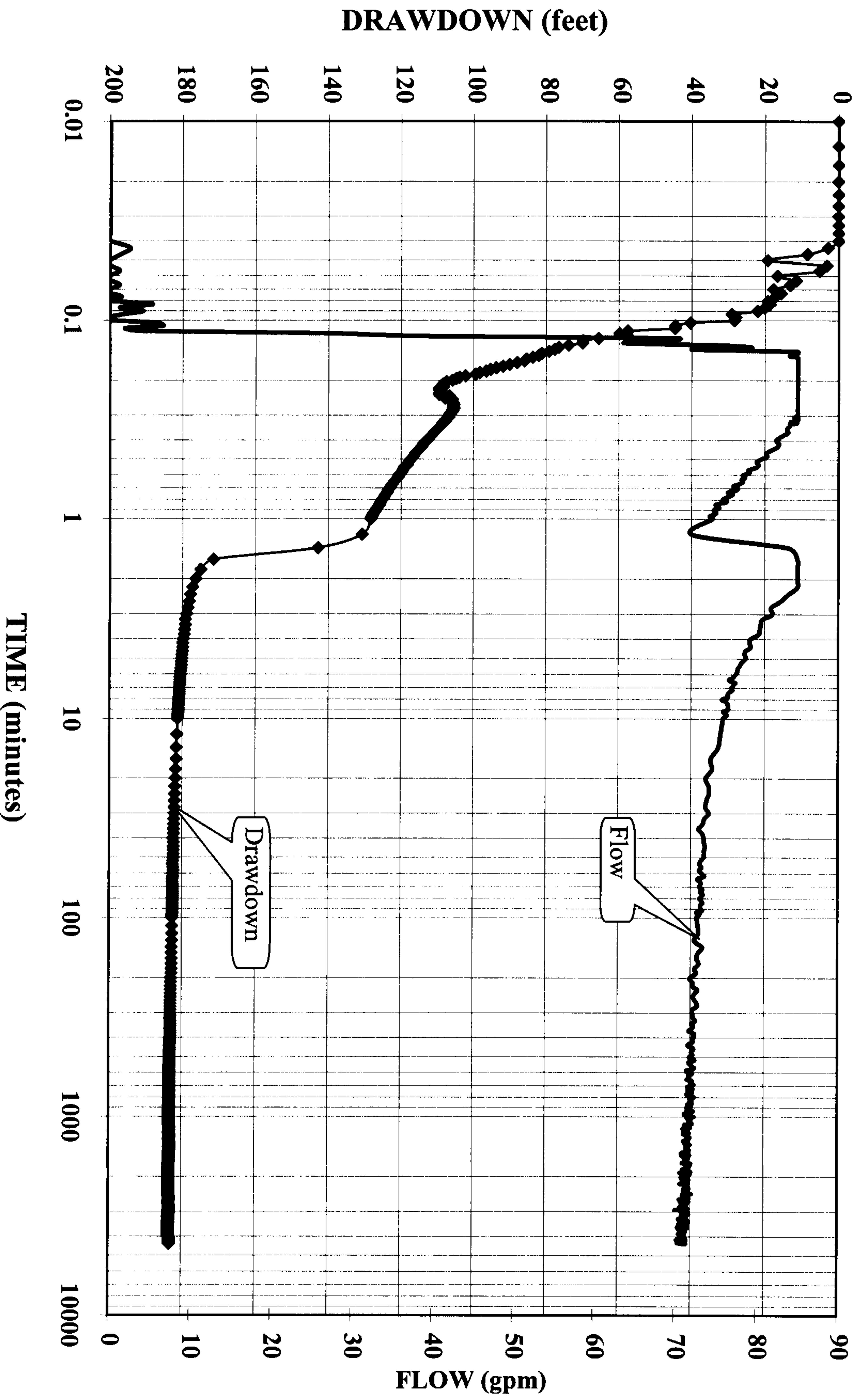
WATER RESOURCES DEPT.
SALEM, OREGON

City of Portland-Bull Run Test Well
for Squier Associates, by Schneider Drilling Co.
Start Card #102404 - Well Label #L14881

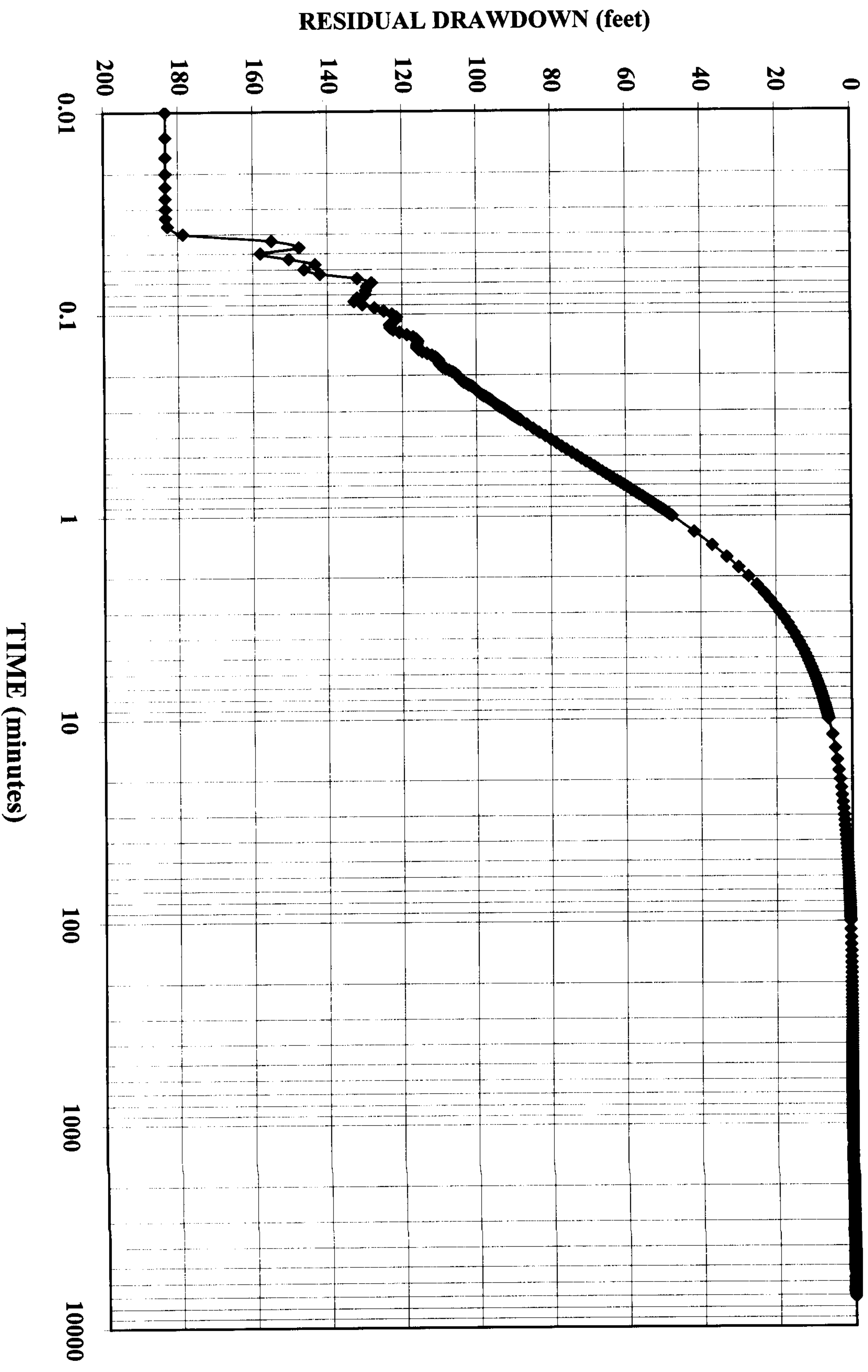
Depth		
From	To	Description
0	1	Gravel & silt fill
1	9	Sand, gravel & clay, tan
9	12	Boulder
12	20	Clay, tan & gravel, 2"-
20	28	Clay, brown, sandy & gravel, 1"-
28	29	Clay, brown, sandy & some gravel
29	33	Basalt, black & brown, some clay
33	40	Basalt, black, broken
40	48	Basalt, black, medium/hard
48	58	Basalt, black & brown, fractured
58	67	Basalt, black w/ clay, brown; soft-hard
67	80	Basalt, black & brown, vesicular
80	83	Basalt, black & some brown, vesicular, broken
83	93	Basalt, black, w/claystone, green & tan
93	106	Basalt, black w/brown, w/claystone, green
106	113	Basalt, black & brown, green in fractures, med
113	125	Basalt, black, green in vesicles & some clay, sandy
125	130	Basalt, black w/brown, vesicular, medium
130	144	Basalt, black w/green tint, w/claystone, brown
144	148	Basalt, black w/green tint, w/clay, brown & red, hard
148	174	Basalt, black, hard, some vesicular
174	177	Basalt, black, vesicular, w/claystone, brown
177	186	Basalt, black, hard, w/ some claystone, brown
186	193	Basalt, gray, some vesicular, hard
193	199	Basalt, gray w/brown, vesicular
199	202	Basalt, gray, fractured, some vesicular, w/ some gravel, weathered
202	207	Basalt, gray, fractured, vesicular w/claystone, gray & gravel, weathered
207	253	Basalt, gray, medium/hard
253	287	Basalt, gray, hard, some fractures
287	317	Basalt, gray w/brown, medium/soft, fractured, some claystone
317	492	Basalt, gray, hard, some fractures
492	509	Basalt, gray, medium/hard, some fractures w/claystone, blue
509	512	Basalt, black, broken, soft w/claystone
512	519	Basalt, black, medium/hard, fractured, some vesicles, w/claystone
519	542	Basalt, black, hard, some fractures

542	550	Basalt, black, medium/hard, some fractures
550	571	Basalt, gray, hard, some fractures
571	577	Basalt, black & brown, medium, fractured, vesicular
577	581	Basalt, black, medium, fractured, vesicular
581	584	Basalt, gray, medium/hard, fractured, some vesicular
584	585	Basalt, gray, medium/hard, fractured
585	603	Basalt, gray, medium/hard, fractured, some vesicular
603	621	Basalt, gray, hard, some fractures
621	630	Basalt, black, medium, fractured, vesicular
630	654	Basalt, gray, hard, some fractures
654	663	Basalt, black, soft/medium, fractured, vesicular
663	667	Basalt, gray, medium/hard, fractured, some vesicular
667	669	Basalt, gray & brown, medium/hard, fractured
669	686	Basalt, gray, hard, some fractures
686	694	Basalt, gray & brown, medium/soft, well fractured, vesicular, some claystone
694	717	Basalt, gray, medium/hard, fractured
717	724	Basalt, gray & brown, medium/soft, well fractured, vesicular
724	737	Basalt, gray, hard, some fractures
737	742	Basalt, black, medium, fractured, vesicular
742	756	Basalt, gray, hard, some fractures
756	761	Basalt, black, medium, fractured, vesicular
761	772	Basalt, gray, hard, fractured
772	781	Basalt, gray, fractured, some vesicular, hard
781	812	Basalt, gray, fractured, hard

CITY OF PORTLAND BULL RUN TEST WELL FREE FLOW TIME - DD GRAPH



CITY OF PORTLAND BULL RUN TEST WELL RECOVERY GRAPH FROM FREE FLOW TEST





**SCHNEIDER
EQUIPMENT, INC.
AND DRILLING CO.**

COMPLETE WATER SYSTEMS
WELL DRILLING • PUMPS • CONTROLS
SALES & SERVICE

OR CCB No. 39265
WA General Contractor
No. SCHNEI *226LG

21881 River Road N.E., St. Paul, Oregon 97137
Phone (503) 633-2666 ♦ Fax (503) 633-2668

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WATER RESOURCES DEPT.
SALEM, OREGON

April 16, 1999

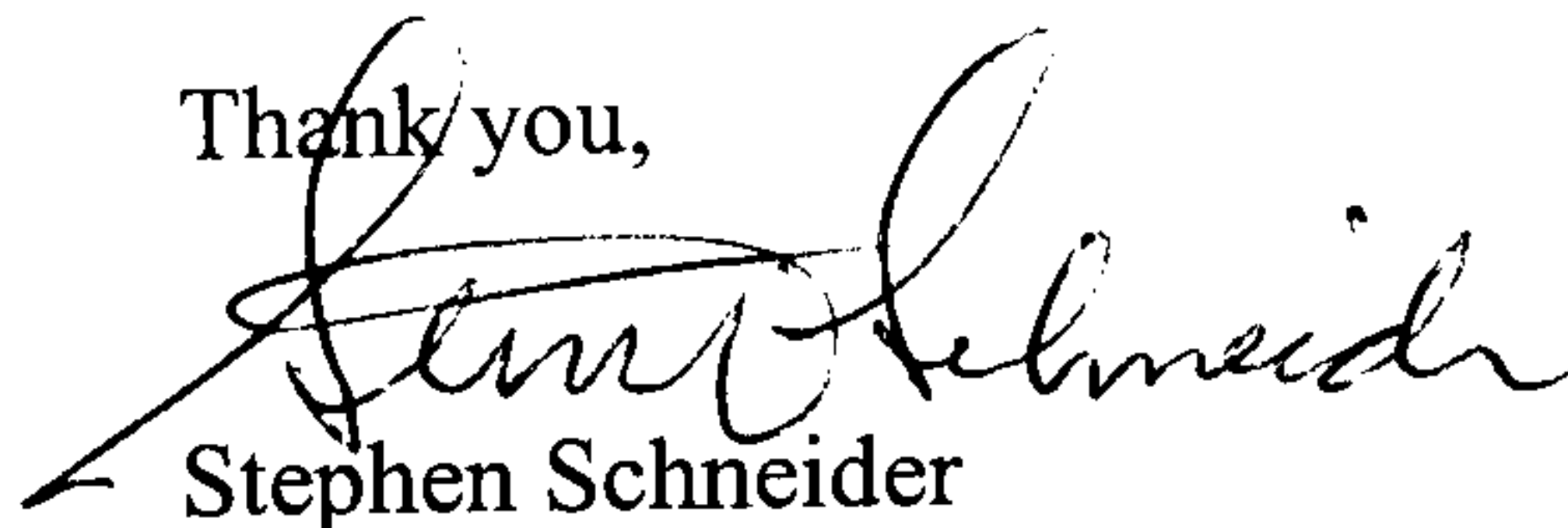
Water Resources Department
158 12th Street
Portland, OR 97310

Re: Well I.D.#14881 – Start Card #102404

To Whom It May Concern:

It was noticed that on the above referenced well report for the City of Portland, that the County was listed incorrectly. On the well report that we sent you it is listed as Clark County. It should read Clackamas County. Please make any necessary changes to correct this error on your paperwork.

Thank you,



Stephen Schneider
Vice President
Drill Operations

CC: Squier & Assoc.
City of Portland