



LOG OF WELL AT MILWAUKIE HIGH SCHOOL

3/2 11/1  
 2438  
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 OCT 22 1962  
 STATE ENGINEER  
 SALEM, OREGON

0 - 20	Clay
20 - 47	black rock
47 - 99	hard grey basalt
99 - 162	rough grey basalt
162 - 263	black rock
263 - 269	porous black rock
269 - 295	hard grey rock
295 - 305	brown rock and conglomerate
305 - 311	hard grey basalt
311 - 320	brown medium hard rock
320 - 333	hard grey basalt
333 - 359	brown medium hard rock
359 - 393	hard grey basalt with some conglomerate
393 - 416	hard black rock
416 - 455	hard grey basalt
455 - 512	rough broken grey basalt (some water from 486 - 499)
512 - 529	black rock
529 - 546	hard grey basalt
546 - 559	hard grey basalt with some soft streaks
559 - 562	porous black rock (some water)
562 - 631	black rock (hard and soft layers)
631 - 669	hard grey basalt
669 - 677	hard rough black rock
677 - 696	broken black rock
696 - 757	hard grey basalt - bad crevice 751-755
757 - 782	broken, rough black rock, clay seam at 759
782 - 836	hard black rock
836 - 842	porous black rock (water bearing)
842 - 846	hard black rock
846 - 852	broken black rock (water)

Static water level 128 ft

WELL #1

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Mike Pinon

FILE COPY

Well #1  
Well #2  
August 20, 1973

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NORTH CLATSOP COUNTY SCHOOL DISTRICT  
OPERATIONAL SERVICES

Mr. Lowell Haines, General Manager  
Water Well Chemicals Division  
Compaction Engineering Company  
1 First Street  
Los Altos, California

Subject: Rex Putnam High School Wells

Dear Mr. Haines:

Thank you for your courtesy on the phone in discussing your  
LEA Formula for iron bacteria control. The Rex Putnam School  
Board has decided to try your formulation for control of  
Gallionella Bacteria.

The school has two wells Well No. 1 as follows:

12" diameter casing from 0 to 426'  
10" diameter casing from 426' to 520'  
10" diameter hole in basalt to 852'  
Static water level is 128'

Well No. 2 as follows: CLACK 04209

8" diameter casing from 0 to 36'  
6" diameter hole in basalt from 36' to 452'  
Static water level is 125'

There are pumps in both wells and we would like your recom-  
mendations for treatment.

You should be aware that Well No. 1 was used as a dump well  
from the heat pump with water from Well No. 2. Unfortunately,  
because of the back pressure in Well No. 1, water was forced  
up the outside of Well No. 1 casing to ground level. Has  
this contaminated the well and stratum to the point where it  
is useless to treat.

District 20 Watermaster  
Sabrina White  
1678 S. Beaver Creek Rd Suite "L"  
Oregon City, OR 97045  
Tel: 503-722-1410  
Fax: 503-722-5926

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WELL # 2

The original and first copy of this report are to be filed with the

WATER WELL LOG

STATE OF OREGON (Please type or print)

CLACK State Well No. 25/2E-18ba 04209 State Permit No.

STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

(Do not write above this line)

OWNER: REX JOTNAM HIGH SCHOOL Name: NORTH CLACK COUNTY SCHOOL DISTRICT Address: 4444 LAKE ROAD MILWAUKIE, ORE. 97222

(10) LOCATION OF WELL: County CLACK Driller's well number 5409 NE 1/4 NW 1/4 Section 18 T. 25 R. 2 E W.M. Bearing and distance from section or subdivision corner

(2) TYPE OF WORK (check): WELL NO 2. New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ] If abandonment, describe material and procedure in Item 12.

(2) TYPE OF WELL: (4) PROPOSED USE (check): Notary [X] Driven [ ] Cable [ ] Jetted [ ] Domestic [ ] Industrial [X] Municipal [ ] Dug [ ] Bored [ ] Irrigation [ ] Test Well [ ] Other [ ]

(11) WATER LEVEL: Completed well. Depth at which water was first found 202 ft. Static level 125 ft. below land surface. Date 7/13/72 Artesian pressure lbs. per square inch. Date

(5) CASING INSTALLED: Threaded [ ] Welded [X] 8" Diam. from 0 ft. to 36 ft. Gage 297

(12) WELL LOG: Diameter of well below casing 8" Depth drilled 488 ft. Depth of completed well 285 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.

(6) PERFORATIONS: Perforated? [ ] Yes [X] No. Type of perforator used Size of perforations in. by in. perforations from ft. to ft.

Table with columns: MATERIAL, From, To, SWL. Entry: SEE ATTACHED SHEET

(7) SCREENS: Well screen installed? [ ] Yes [X] No. Manufacturer's Name Model No. Dia. Slot size Set from ft. to ft.

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(3) WELL TESTS: Drawdown is amount water level is lowered below static level. Was a pump test made? [X] Yes [ ] No If yes, by whom? KELLER Yield: 292 gal./min. with 151 ft. drawdown after 2 1/2 hrs. 252 115 1 200 85 1

Work started JUNE 19, 1972 Completed JULY 17, 1972 Date well drilling machine moved off of well JULY 18, 1972

(8) CONSTRUCTION: Well seal—Material used CEMENT GROUT Well sealed from land surface to 36 Diameter of well bore to bottom of seal 17 Diameter of well bore below seal 8 Number of sacks of cement used in well seal 28 Number of sacks of bentonite used in well seal Brand name of bentonite Number of pounds of bentonite per 100 gallons of water Drive shoe used? [ ] Yes [X] No Plugs Size location ft. Are tests contain unusable water? [ ] Yes [X] No Type of water? depth of signs Method of sealing signs off? Was well gravel packed? [ ] Yes [X] No Size of gravel? Gravel placed from ft. to ft.

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) [Signature] Date July 24, 1972 (Drilling Machine Operator)

Drilling Machine Operator's License No. 462 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 KELLER WELL DRILLING CO Address 5325 SE Hillwood Road, Milwaukie (Signed) [Signature] Date July 24, 1972 Contractor's License No. 462 Date

Well # 2

JULY 24, 1972

*well #2*

Log of Rex Putnam well No. 2

July 1972

top soil	0 - 2
brown clay	2 - 10
boulders	10 - 1A
medium hard grey basalt	1A - 25
hard grey basalt	25 - 46
brown basalt	46 - 4A
medium hard grey basalt	48 - 53
black basalt	53 - 74
medium hard grey basalt	74 - 90
black basalt	90 - 97
medium hard grey basalt	97 - 202
porous grey basalt, water 50 gpm blunted	202 - 207
hard grey basalt	207 - 215
broken grey basalt	215 - 224
hard grey basalt	224 - 263
broken grey basalt	263 - 270
porous black basalt	270 - 283
hard grey basalt	283 - 332
broken brown basalt	332 - 337
hard grey basalt	337 - 376
porous grey basalt, water 100 gpm test flow	376 - 388
hard grey basalt	388 - 418
broken grey basalt, water, air test 46 gpm	418 - 432
medium hard grey basalt	432 - 444
hard grey basalt	444 - 475
porous grey basalt, water, air test 195 gpm	475 - 486
hard grey basalt	486 - 488

*Side 125'*

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# R. J. Strasser Drilling Co.

8110 S.E. SUNSET LANE PORTLAND, OREGON 97206

*Well #2*

Rig No. Reich Drill Well No. 42  
 Well Owners JOEY PUTMAN  
 Location MILWAUKEE CLACKAMAS OREGON  
 Shift No. 1 Date NOV 9 19 72  
 7:00 A Date NOV 12 19 72  
 M. Total Hrs. 9

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Remarks:  
 Static Water Level \_\_\_\_\_ ft.  
 Casing Pinned \_\_\_\_\_ ft.  
 Size of Casing \_\_\_\_\_ ins.  
 Condition of Hole \_\_\_\_\_  
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Remarks:  
 Static Water Level 122 ft.  
 Casing Pinned \_\_\_\_\_ ft.  
 Size of Casing \_\_\_\_\_ ins.  
 Condition of Hole \_\_\_\_\_

Remarks:  
 Static Water Level 122 ft.

Remarks:  
 Static Water Level \_\_\_\_\_ ft.  
 Casing Pinned \_\_\_\_\_ ins.  
 Condition of Hole \_\_\_\_\_

FROM	TO	THICKNESS	FORMATION
357	376	39	HARD GRAY BASALT
376	389	12	PODDUS GRAY BASALT WATER
389	419	30	HARD GRAY BASALT
419	432	14	BROKEN GRAY BASALT WATER
350			

Depth Beginning of Shift \_\_\_\_\_ Driller E. Schmal ( )  
 No. of Feet Drilled this Shift 72 Helper R. Johnson ( )  
 Total Depth End of Shift 432 ( )  
 Diameter End of Shift \_\_\_\_\_ No. of Bits Changed \_\_\_\_\_

Shift No. 2 Date NOV 12 19 72  
 7:00 A Date NOV 12 19 72  
 M. Total Hrs. \_\_\_\_\_

FROM	TO	THICKNESS	FORMATION
432	444	12	MEDIUM HARD GRAY BASALT
444	CONC		HARD GRAY BASALT

Depth Beginning of Shift 432 Driller E. Schmal ( )  
 No. of Feet Drilled this Shift 12 Helper R. Johnson ( )  
 Total Depth End of Shift 462 ( )  
 Diameter End of Shift \_\_\_\_\_ No. of Bits Changed \_\_\_\_\_

Shift No. 3 Date NOV 12 19 72  
 7:00 A Date NOV 12 19 72  
 M. Total Hrs. \_\_\_\_\_

FROM	TO	THICKNESS	FORMATION
462	475	13	HARD GRAY BASALT
475	486	11	PODDUS GRAY BASALT
486	499	12	HARD GRAY BASALT
462			

Depth Beginning of Shift \_\_\_\_\_ Driller E. Schmal ( )  
 No. of Feet Drilled this Shift 26 Helper R. Johnson ( )  
 Total Depth End of Shift 499 ( )  
 Diameter End of Shift \_\_\_\_\_ No. of Bits Changed \_\_\_\_\_

1. Bottom of 1st Casing \_\_\_\_\_ Overall Length \_\_\_\_\_ Diameter \_\_\_\_\_  
 2. Bottom of 2nd Casing \_\_\_\_\_ Overall Length \_\_\_\_\_ Diameter \_\_\_\_\_  
 3. Bottom of 3rd Casing \_\_\_\_\_ Overall Length \_\_\_\_\_ Diameter \_\_\_\_\_  
 4. Bottom of 4th Casing \_\_\_\_\_ Overall Length \_\_\_\_\_ Diameter \_\_\_\_\_

*Well #2*

Attn: Ed Crane FAX: 698-3861

6 pages



STEVE'S PUMP SERVICE, INC.

24300 S.E. Hoffmeister Road  
Boring, Oregon 97009

503-658-3051

CCB#38208

November 15, 2002

Well #2

STEVE HOUQAK, President

INVOICE 02-750

NORTH CLACKAMAS SCHOOL DISTRICT  
12449 SE Fuller Road  
Milwaukie, OR 97222-1290

\*C

ATTENTION: John Stephens (653-3645)  
FAX: 503-513-4014

Re: PURCHASE ORDER NO. 301174  
WELL SITE: REX PUTNAM HIGH SCHOOL WELL #2  
Service call to load up test equipment and travel to job site and set up on well and lower test equipment in well. Pick up generator and perform flow test on well. Return and pull test pump equipment and load up and return to shop and unload.  
DEPTH: 488' DIAMETER: 8" STATIC: 25'4" PUMP SETTING: 399'

LABOR AND MATERIALS TO PERFORM ABOVE SERVICES:

- BOOM TRUCK RENTAL
- LABOR CREW
- TEST PUMP EQUIPMENT:
  - 1-Submersible Test Pump/Motor
  - 329'-3" T & C Galvanized Pipe
  - 400'-3/4" Class 200 Airline
  - 1-#6 Splice Kit
  - 1-Flow Meter
  - 400'-#6-4 Submersible Pump Cable
  - 1-Generator Rental for 3 Phase Motor

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TOTAL INVOICE: \$2,657.00

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FLOW TEST REPORT:

We began pumping this well at 100 GPM with a beginning static level of 25 feet 4 inches. After 4 minutes of pumping, the static level dropped to 290 feet. We reduced the flow to 30 GPM and the static dropped to 369 feet in 11 minutes. We stopped test to let the static level recover. We began pumping again at 50 gallons per minute and static dropped to 393 feet in 15 minutes. We reduced flow to 36 GPM and the static level stabilized at 384 feet. The most you can expect to pump from this well in its current condition is 36 GPM. There is a lot of iron in this well. We are sorry we could not have produced better results for you. Call if you

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*#2*

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OPERATIONAL SERVICES

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Water Well Chemicals Division  
Compaction Engineering Company  
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Dear Mr. Haines:

Thank you for your courtesy on the phone in discussing your LBA Formula for iron bacteria control. The Rex Putnam School Board has decided to try your formulation for control of Gallionella Bacteria.

The school has two wells Well No. 1 as follows:

12" diameter casing from	0	to	426'
10" diameter casing from	426'	to	520'
10" diameter hole in basalt to			852'
Static water level is			128'

Well No. 2 is as follows: *GLACK 04209*

8" diameter casing from	0	to	36'
6" diameter hole in basalt from	36'	to	492'
Static water level is			125'

There are pumps in both wells and we would like your recommendations for treatment.

You should be aware that Well No. 1 was used as a dump well from the heat pump with water from Well No. 2. Unfortunately, because of the back pressure in Well No. 1, water was forced up the outside of Well No. 1 casing to ground level. Has this contaminated the well and stratum to the point where it is useless to treat.

*District 20 Watermaster  
Sabrina White  
1678 S. Beavercreek Rd, Suite "L"  
Oregon City, OR 97045  
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