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.

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

RECEIVED
SEP 18 1968
STATE ENGINEER
SALEM OREGON

UMAT 3899

State Well No. 5N/35-1AB

State Permit No.

(1) OWNER:
Name J. Frank Schmidt & Son Co.
Address 23000 S. E. Stark St.; Troutdale, Oregon 97060

(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 0 ft. to 356 ft. Gage 375
10 " Diam. from 333 ft. to 562 ft. Gage 250
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? [X] Yes [ ] No
Type of perforator used cutting torch
Size of perforations 3/8 in. by 4 in.
4 per ft. perforations from 442 ft. to 542 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 [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) WATER LEVEL: Completed well.
Static level 302' 2" ft. below land surface Date 6/27/68
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? [X] Yes [ ] No If yes, by whom? driller

Yield:	gal./min.	with	ft. drawdown	after	hrs.
	925	gal./min. with	25	ft. drawdown after	72 hrs.
	805	"	22	"	48 "
"	708	"	16	"	24 "

Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 66 Was a chemical analysis made? [ ] Yes [X] No

(10) CONSTRUCTION:
Well seal—Material used Bentonite
Depth of seal 0 to 60 ft.
Diameter of well bore to bottom of seal 16 in.
Were any loose strata cemented off? [X] Yes [ ] No Depth 440
Was a drive shoe used? [X] Yes [ ] No
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.

(11) LOCATION OF WELL:
County Umatilla Driller's well number
NW ¼ NE ¼ Section 1 T. 5N R. 35 E. W.M.
Bearing and distance from section or subdivision corner
2' W. of E. line and 20' N. of S. line of NW ¼ of NE ¼

(12) WELL LOG:
Diameter of well below casing 10"
Depth drilled 660 ft. Depth of completed well 660 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
Soil	0	12	
Small Gravel	12	28	
Cement Gravel	28	60	
Sand and Gravel	60	82	
Brown Clay and small Gravel	82	127	
Brown Clay, Gravel and Boulder	127	203	
Blue Clay	203	288	
Brown Clay and Boulders	288	326	
Light Green and Brown Clay	326	347	
Blue Basalt Rock	347	435	
Broken Blue Basalt Rock	435	440	
Hard Gray Basalt	440	449	
Honeycomb Blue Basalt (1st Wtr	449	455	280
Broken Black Basalt	455	550	
Blue Basalt	550	624	
Honeycomb Black Basalt (Water)	624	653	300
Black Basalt	653	660	

Work started 12 Feb 19 68 Completed June 1968
Date well drilling machine moved off of well 2 July 1968

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] Thomas R Ruther (Drilling Machine Operator) Date 17 Sept, 19 68
Drilling Machine Operator's License No. 138

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 Thomas R. Ruther (Person, firm or corporation) (Type or print)
Address 1421 Circle Drive; Walla Walla, Wash.
[Signed] Thomas R Ruther (Water Well Contractor)
Contractor's License No. 374 Date 17 Sept, 19 68

(USE ADDITIONAL SHEETS IF NECESSARY)

5/35- 1
Umatilla

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GROUND WATER BRANCH
Box 3418 - 623 Post Office Building
Portland 8, Oregon

March 30, 1951

Mr. Robert L. Brunton, City Manager
City Hall
Milton-Freewater, Oregon

Dear Mr. Brunton:

In regard to your March 23 inquiry for records bearing on your plan to secure more water from the wells of the former city of Freewater by increasing the pump capacity:

Of the two city wells, excluding the recent nonproductive "fault-zone" well, this office has some records on the younger "Main Street" well, but little data on the older "City Hall" well. Of the older well I could not even learn the depth, casing, diameter, or driller, though I have it on my list for additional canvassing. I believe Durand drilled it years ago and I have meant to ask him about it. It was equipped with a pump of 250-gallons-per-minute capacity when I saw it, but I could not determine its pumping water level and static water level from the pumpman or by entry into the well myself.

On the newer well we have a log taken from the driller's record. A copy is enclosed in case you do not have one. I did not get the static water level but from known static water levels of wells in that vicinity, I assumed it was somewhere near 40 feet during the winter months. A pumping test run at the time the well was finished in 1936 showed 750 gallon per minute with water level drawn down to 47 feet below the surface and 1,025 gallons per minute with water level drawn down to 68 feet below the surface. A pump of 850-gallons-per-minute capacity was on the well when I visited it 2 years ago. Though that observation may partially answer your question, it would probably be necessary to run pump tests to obtain the correctly designed pump for the greater yield you contemplate.

There is some interference, I understand, between your Main Street "younger" well and the Utah Canning Co. well 500± feet to the northeast. The logs of the wells are similar. The Utah Canning Co. well shows that the basalt contained water whose static level was only 15 feet below the surface until the zone at 468-528 feet depth was penetrated; at that time the static water level dropped to 41 feet from the surface. If such is the case in your well, some water may run from the higher strata down the well and out the lower zone. It is suggested that the amount of such change, if any in your well, should be determined as a

matter of planning for a new pump. This office has a well-current meter with which we can measure interchange; if you will notify us when the well is to be clear of pumping equipment. Such an interchange measurement is of value as data applying to well construction over the entire Columbia River basalt area of Oregon and Washington.

I hope this information will answer some of your questions.

Sincerely yours,

R. C. Newcomb
District Geologist

RCN:rls
Enclosure - 1 log

CC: Mr. Chas. E. Stricklin