STATE OF NORTH DAKOTA

BOARD OF WATER WELL CONTRACTORS

900 E. BOULEVARD • BISMARCK, NORTH DAKOTA 58501

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Board of Water Well Contractors within 30 days after completion or abandonment of the well.

1. WELL OWNER

Name: RANDY PIATZ

Address: 3681 PRINCETON Ave E.

2. WELL LOCATION

Sketch map location must agree with written location.

NORTH

1 MILE

Sec. (1 mile) ____

County: Burleigh

____ 1/4 NE 1/4 NW 1/4 Sec. 22 Twp. 138 N. Rg 80 W.

3. PROPOSED USE

☐ Domestic ☒ Irrigation ☐ Monitoring
☐ Stock ☐ Municipal ☐ Industrial
☐ Geothermal ☐ Test Hole

4. METHOD DRILLED

☐ Cable ☐ Reverse Rotary ☐ Bored
☒ Forward Rotary ☐ Jetted ☐ Auger

If other, specify ____

5. WATER QUALITY

Was a water sample collected for:

Chemcial Analysis? ☒ Yes ☐ No

Bacteriological Analysis? ☐ Yes ☒ No

If so, to what laboratory was it sent? ____

6. WELL CONSTRUCTION

Diameter of hole 8 inches. Depth 8 feet.

Casing: ☐ Steel ☒ Plastic ☐ Concrete
☐ Threaded ☒ Welded ☐ Other

If other, specify ____

Pipe Weight:	Diameter:	From:	To:
200 lb/ft	5 inches	+1 feet	60 feet
____ lb/ft	____ inches	____ feet	____ feet
____ lb/ft	____ inches	____ feet	____ feet

Was perforated pipe used? ☐ Yes ☒ No

Perforated pipe set from ____ ft to ____ feet

Was casing left open end? ☐ Yes ☒ No

Was a well screened installed? ☒ Yes ☐ No

Material PVC Diameter 5 inches

Slot Size .020 set from 60 feet to 70 feet

Slot Size ____ set from ____ feet to ____ feet

Was packer or seal used? ☐ Yes ☒ No

If so, what material ____ Depth ____ ft.

(stainless steel, bronze, etc.)

Type of well: Straight screen ☒ Gravel packed ☐

Depth grouted: From 0 To 40

Grouting Material: Cement ____ Other X

If other explain: 175# High Solids Bent. Grout

Well head completion: Pitless unit ____

12" above grade X Other ____

If other, specify ____

Was pump installed: ☐ Yes ☐ No

Was well disinfected upon completion? ☒ Yes ☐ No

7. WATER LEVEL

Static water level 20-6.87 = 13.13 MPI: 12.13 feet below surface

If flowing: closed-in pressure ____ psi

GPM flow ____ through ____ inch pipe

Controlled by: ☐ Valve ☐ Reducers ☐ Other

If other, specify ____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Other

Pumping level below land surface:

35.39 ft. after 1½ hrs. pumping 20 gpm

____ ft. after ____ hrs. pumping ____ gpm

____ ft. after ____ hrs. pumping ____ gpm

9. WELL LOG

Formation	Depth (ft.) From	Depth (ft.) To
Silt SANDY DARK BROWN topsoil	0	6
Clay silty SANDY med BROWN	6	18
Silt SANDY med. BROWN	18	29
Clay silty SANDY med BROWN	29	38
SAND to COARSE med grey	38	43
SAND to med GRAVEL	43	46
SAND to COARSE	46	56
SAND to med GRAVEL	56	68
COAL	68	70
SAND to FINE GRAVEL	70	80

(Use separate sheet if necessary)

10. DATE COMPLETED 9-6-02

11. WAS WELL PLUGGED OR ABANDONED?

☐ Yes ☒ No

If so, how ____

12. REMARKS:

13. DRILLER'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge.

WATER Supply INC. — Driller's or Firm's Name — Certificate No 96

Box 1191 Bis. N.D. 58502 — Address

Paul Reed — Signed by — 9-6-02 Date

WHITE-DRILLER'S COPY YELLOW-BOARD'S COPY PINK-CUSTOMER'S COPY

MVTL

MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 N. Front St. - New Ulm, MN 56073 - 800-782-3557 - Fax 507-359-2890
1411 S. 12th St. - Bismarck, ND 58502 - 800-279-6885 - Fax 701-258-9724
710 S. 14th St. - Grand Forks, ND 58201 - 800-272-7645 - Fax 701-772-0028
35 W. Lincoln Way - Nevada, IA 50201 - 800-362-0855 - Fax 515-382-3885

MEMBER ACIL

Report Date: 16 Sep 02
Lab Number: 02-W5131
Work Order #:82-2202
Account #: 002106
Date Sampled: 6 Sep 02 16:00
Date Received: 6 Sep 02 16:45

Roger Schmid
Water Supply Inc.
Box 1191
Bismarck ND 58502

21 SEP 2002

Sample Description: Randy Piatz
Sample Site: 3681 Princeton Ave E

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
pH	7.7	units	N/A	SM4500 H+ B	9 Sep 02 16:15	Tonja
Specific Conductance	1410	umhos/cm	N/A	SM2510-B	12 Sep 02 10:15	Tonja
Total Alkalinity	565	mg/l CaCO3	1	SM2320-B	10 Sep 02 8:30	Tonja
Phenolphthalein Alk	< 1	mg/l CaCO3	1	SM2320-B	10 Sep 02 8:30	Tonja
Bicarbonate	565	mg/l CaCO3	1	SM2320-B	10 Sep 02 8:30	Tonja
Carbonate	< 1	mg/l CaCO3	1	SM2320-B	10 Sep 02 8:30	Tonja
Hydroxide	0.0	mg/l CaCO3	0	SM2320-B	10 Sep 02 8:30	Tonja
Total Dissolved Solids	924	mg/l	NA	EPA 160.1	11 Sep 02 9:07	Calculated
Total Hardness as CaCO3	296	mg/l	NA	SM2340B	11 Sep 02 9:07	Calculated
Hardness in grains/gallon	17.3	gr/gal	NA	N/A	11 Sep 02 9:07	Calculated
Cation Summation	15.5		NA	N/A	13 Sep 02 9:13	Calculated
Anion Summation	17.0		NA	N/A	10 Sep 02 10:30	Calculated
Percent Error	-4.76	%	NA	N/A	13 Sep 02 9:13	Calculated
Sodium Adsorption Ratio	5.38		NA	N/A	11 Sep 02 9:07	Calculated
Fluoride	0.59	mg/l	0.1	SM4500-F-C	13 Sep 02 12:30	Tonja
Sulfate	227	mg/l	5	EPA 375.4	10 Sep 02 10:30	Brandon
Chloride	35.2	mg/l	1	SM4500-Cl-E	10 Sep 02 9:15	Brandon
Nitrate-Nitrite as N	< 0.1	mg/l	0.1	SM4500-NO3-F	9 Sep 02 15:30	Brandon
Calcium - Total	78.1	mg/l	0.5	6010	11 Sep 02 9:07	Stacy
Magnesium - Total	24.6	mg/l	0.5	6010	11 Sep 02 9:07	Stacy
Sodium - Total	213	mg/l	0.5	6010	11 Sep 02 9:07	Stacy
Potassium - Total	6.9	mg/l	0.5	6010	11 Sep 02 9:07	Stacy
Iron - Total	2.95	mg/l	0.1	6010	12 Sep 02 9:00	Stacy
Manganese - Total	0.09	mg/l	0.05	6010	13 Sep 02 9:13	Stacy

Approved by: C Cantel

RL = Method Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity
= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 038-999-267 ND # ND-00016

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

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