



Date: 8/13/24

To: City Administrator Dylan Mulfinger

From: Public Works Director Herb Doudney

Subject: 80 Well

On June 12th the City's 80 Well stopped pumping water, after some in house troubleshooting it was determined that the well pump needed to be pulled out for inspection.

Northway Well Company was contacted and they sent a crew out to pull the well July 8th, it was determined the well pump had experienced a lightning strike on or around the 12th of June.

Northway documented the damage in detail for EMC the city's insurance provider and a claim was filed.

The insurance claim was approved August 8th minus the deductible for \$27,756.23.

The remainder of the quote minus the insurance money to install a new pump and pipe in the 80 Well is \$36,473.75.

This well is a crucial part of our water system as it provides 650 GPM to our distribution system.

I therefore recommend we instruct Northway Well to proceed with the installation of the new pump and pipe for the provided quote.

Herb Doudney
Herb Doudney
Public Works Director



Northway Well and Pump Co.
4895 8th Avenue
Marion, Iowa 52302

July 16, 2024

Water Works Department
20 2nd Avenue SW
Oelwein, Iowa 50662

Attn: Mr. Herb Doudney, Public Works Director

Re: Oelwein 1980 Well –
Lightning Damage on or around 5-13-2024

Dear Herb,

The following is the associated cost for the replacement pumping equipment damaged by a power surge, namely lightning damage.

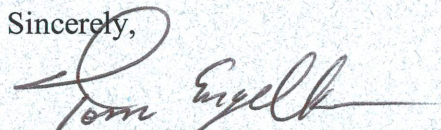
Upon removal the submersible pump cable was inspected separately and found the motor windings to be dead out to ground on all three phases and the power cable to have a resistance of less than 50 ohms. The submersible motor and cable will require replacement.

A. 1980 Well Material Replacement and Repairs

- | | |
|--|-------------|
| 1. One 100hp., 460-volt, 3600rpm, 3 phase submersible pump motor | \$18,661.10 |
| 2. 535 Feet of HD 2/0 flat jacketed submersible pump cable @\$ 19.95pf | \$10,673.25 |
| 3. Altitude tubing and gauge assembly | \$ 583.45 |
| 4. Misc. material 6 – 2/0 3M electrical splice kits, stainless steel
Cable banding, 2" pipe wrap etc. | \$ 1,352.30 |
| 5. Field labor for 50-ton service rig and 3 men to remove pumping
Equipment, reinstall with required material and flush well
Estimate 45 hours @\$395.00ph | \$17,775.00 |
| 6. Freight charges | \$ 911.13 |
| 7. Disinfect well with 3000-gallons of disinfection solution, flush and test | \$ 2,800.00 |
| Total cost for the above | \$52,756.23 |

Herb, if you have any questions, please let me know.

Sincerely,



Tom Engelken, Sales Representative

Northway Well and Pump Co.
4895 8th Avenue
Marion, Iowa 52302

July 16, 2024

Water Works Department
20 2nd Avenue SW
Oelwein, Iowa 50662

Attn: Mr. Herb Doudney, Public Works Director

Re: Oelwein 1980 Well

Dear Herb,

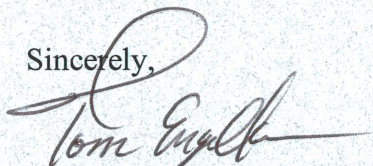
The pump removed from the 1980 well was disassembled and found to be repairable, although the cast is becoming soft. The pump was purchased new in 2013, I would assume you could get 3 to 5 years of life from it. I will provide a quote for both rebuilding and new pump along with all new pipe. The pipe removed was from 1942 well and I am unsure of its age. The pipe I will quote you will be domestic galvanized, this material I am going to quote will not be covered by insurance from the lightning damage.

A. 1980 Well Pumping Equipment

- | | | |
|---|-----------------|--------------|
| 1. 504 Feet of 6" Domestic T & C galvanized drop pipe | @ \$ 58.90pf | \$ 29,685.60 |
| 2. Two 6" DI HD check valves | @ \$1,895.00ea. | \$ 3,790.00 |
| 3. One Gould's 9WAHC-4 stage with cast iron bowls, SS
Impellers and bowl shaft, bronze impeller wear rings | | \$ 9,981.30 |
| 4. Rebuild removed Gould's 9WAHC-4 stage pump end | | \$ 4,166.60 |
| 5. One WS600-1000-5 stage stainless steel pump | | \$ 7,332.50 |

Herb, if you have any questions, please let me know.

Sincerely,



Tom Engelken, Sales Representative