

**TO: Mayor and City Council**

**FROM: Jed Petersen, Public Works Director**

**SUBJECT: Well #5 Inspection and Repair**

**MEETING DATE: Tuesday, November 12, 2024**

### **BACKGROUND**

Wells #4 and #5 were put into service in 1998. Both were drilled to the same depth, specs, and have the same components.

In October Keys Well Drilling Co. performed the inspection and repair of well #4. It was found to be in very poor condition and most of the components needed to be replaced. The total cost to inspect and repair well #4 came to \$53,260.

It would be safe to assume that well #5 could be in the same condition.

I reached out to Keys and asked if they would honor the inspection and repair quote for well #4 and apply it to well #5.

Keys will honor the quote for well #4 and are available to inspect and repair well #5 this year.

### **STAFF RECOMMENDATION**

Staff recommendation that Well #5 be inspected and repaired as soon as possible.

### **REQUESTED COUNCIL ACTION**

Motion and approval to move forward with Keys Well Drilling Co. to inspect and repair Well #5.

## QUOTE FORM

Cannon Falls - Well #4 Inspection

The undersigned proposes to furnish the materials, labor, machinery, and equipment to construct the project items at the following prices:

Inspection

<u>Item</u>	<u>Description</u>	<u>Total</u>
1.	Pre pump removal testing of well and pumping equipment (Including but not limited to capacity, water levels, motor Hz.)	\$ <u>400<sup>00</sup></u>
2.	Well pump removal	\$ <u>5,200<sup>00</sup></u>
3.	Clean and inspect all pumping equipment, and provide written report of existing conditions and recommendations to owner including repair costs	\$ _____
4.	Video inspection recording of the well provided on thumb drive and written report of existing conditions and recommendations to owner	\$ <u>2,200<sup>00</sup></u>
5.	Reinstall pump and motor, startup, post install testing (Including but not limited to capacity, water levels, motor Hz.) and bacteria sample test	\$ <u>5,600<sup>00</sup></u>
Base Bid		\$ <u>13,400<sup>00</sup></u>

Potential Repair Items (Depending on Condition)

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
6.	Replace 10"x 10' T & C drop pipe	Each	13	\$ <u>1,000<sup>00</sup></u>	\$ <u>13,000<sup>00</sup></u>
7.	Replace 10"x 5' T & C drop pipe	Each	2	\$ <u>800<sup>00</sup></u>	\$ <u>1,600<sup>00</sup></u>
8.	Replace 10"x 10' tail pipe	Each	1	\$ <u>900<sup>00</sup></u>	\$ <u>900<sup>00</sup></u>
9.	Replace Line shaft Bearings	Each	14	\$ <u>35<sup>00</sup></u>	\$ <u>490<sup>00</sup></u>
10.	Rebuild Discharge Head and Packing Gland assembly	Lump Sum	1	\$ <u>350<sup>00</sup></u>	\$ <u>350<sup>00</sup></u>
11.	Shop Labor to, repair equipment	Hour	20	\$ <u>125<sup>00</sup></u>	\$ <u>2,500<sup>00</sup></u>

12.	Replace bowl bearings	Each	5	\$ <u>325<sup>00</sup></u>	\$ <u>1,625<sup>00</sup></u>
13.	Machine impeller and install wear ring	Each	4	\$ <u>1,050<sup>00</sup></u>	\$ <u>4,200<sup>00</sup></u>
14.	Replace pump Bowl shaft	Each	1	\$ <u>700<sup>00</sup></u>	\$ <u>700<sup>00</sup></u>
15.	Epoxy coat exterior/interior of pump assembly	Lump Sum	1	\$ <u>600<sup>00</sup></u>	\$ <u>600<sup>00</sup></u>
16.	Recondition 100 Hp VHS motor, replace bearings, bake/ dip, and test	Lump Sum	1	\$ <u>2,700<sup>00</sup></u>	\$ <u>2,700<sup>00</sup></u>
17.	Install oil/ grease,	Hour	20	\$ _____	\$ _____
18.	Install Line shaft sleeves	Each	1	\$ <u>100<sup>00</sup></u>	\$ <u>100<sup>00</sup></u>
19.	Replace 10" spider assemblies with SS	Each	1	\$ <u>200<sup>00</sup></u>	\$ <u>200<sup>00</sup></u>
20.	Replace 1-1/2" x 10' T&C 416SS Line shafts	Each	1	\$ <u>475<sup>00</sup></u>	\$ <u>475<sup>00</sup></u>
21.	Replacement Pump 1200 GPM @ 230' TDH 100 Hp motor	Each	1	\$ <u>10,000<sup>00</sup></u>	\$ <u>10,000<sup>00</sup></u>

Dated this 22<sup>nd</sup> day of August, 2024.



By Keys Well Drilling Co.

Address 1156 Homer Street

St. Paul, MN 55116









