

**TO: Mayor and City Council**

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

**SUBJECT: Well #4 Inspection and Repair**

**MEETING DATE: Tuesday, September 17, 2024**

## **BACKGROUND**

Well #4 was put into service in 1998 and has been in operation for the last 26 years and needs inspection and potential repairs. Public works requested quotes for inspection and received 3 quotes. The quotes are for a base inspection and potential repair items depending on condition.

1. Bergerson Caswell Inc.
  - a. Base Inspection: \$15,500
  - b. Potential Repairs: \$63,030
2. McCarthy Well Company
  - a. Base Inspection: \$17,150
  - b. Potential Repairs: \$59,730
3. Keys Well Drilling Co.
  - a. Base Inspection: \$13,400
  - b. Potential Repairs: \$39,440

Keys Well Drilling Co. came in with the lowest base quote and lowest cost of potential repairs.

## **Staff recommendation**

Please move forward with Keys Well Drilling to inspect and repair Well #4.

## **REQUESTED COMMISSION ACTION**

Motion and approval to move forward with Keys Well Drilling Co. to inspect and repair Well #4.

# Bergerson Caswell Inc.

## 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>750.00</u>
2.	Well pump removal	\$ <u>5,500.00</u>
3.	Clean and inspect all pumping equipment, and provide written report of existing conditions and recommendations to owner including repair costs	\$ <u>1,500.00</u>
4.	Video inspection recording of the well provided on thumb drive and written report of existing conditions and recommendations to owner	\$ <u>2,750.00</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>5,000.00</u>
Base Bid		\$ <u>15,500.00</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>1,845.00</u>	\$ <u>23,985.00</u>
7.	Replace 10"x 5' T & C drop pipe	Each	2	\$ <u>1,275.00</u>	\$ <u>2,550.00</u>
8.	Replace 10"x 10' tail pipe	Each	1	\$ <u>1,600.00</u>	\$ <u>1,600.00</u>
9.	Replace Line shaft Bearings	Each	14	\$ <u>35.00</u>	\$ <u>490.00</u>
10.	Rebuild Discharge Head and Packing Gland assembly	Lump Sum	1	\$ <u>600.00</u>	\$ <u>600.00</u>
11.	Shop Labor to, repair equipment	Hour	20	\$ <u>115.00</u>	\$ <u>2,300.00</u>

12.	Replace bowl bearings	Each	5	\$ <u>300.00</u>	\$ <u>1,500.00</u>
13.	Machine impeller and install wear ring	Each	4	\$ <u>1,200.00</u>	\$ <u>4,800.00</u>
14.	Replace pump Bowl shaft	Each	1	\$ <u>1,050.00</u>	\$ <u>1,050.00</u>
15.	Epoxy coat exterior/interior of pump assembly	Lump Sum	1	\$ <u>950.00</u>	\$ <u>950.00</u>
16.	Recondition 100 Hp VHS motor, replace bearings, bake/ dip, and test	Lump Sum	1	\$ <u>4,200.00</u>	\$ <u>4,200.00</u>
17.	Install oil/ grease,	Hour	20	\$ <u>115.00</u>	\$ <u>2,300.00</u>
18.	Install Line shaft sleeves	Each	1	\$ <u>135.00</u>	\$ <u>125.00</u>
19.	Replace 10" spider assemblies with SS	Each	1	\$ <u>230.00</u>	\$ <u>230.00</u>
20.	Replace 1-1/2" x 10' T&C 416SS Line shafts	Each	1	\$ <u>500.00</u>	\$ <u>500.00</u>
21.	Replacement Pump 1200 GPM @ 230' TDH 100 Hp motor	Each	1	\$ <u>15,850.00</u>	\$ <u>15,850.00</u>

\* NOTE \* ITEMS #6, #7, #8 ARE PRICED NEW BUT SANDBLASTED AND EPOXY COATED. IF YOU WOULD WANT WE CAN PROVIDE WITH MILL FINISHED, CLEAN STEEL (DEDUCT \$7,700.00)

Dated this 12<sup>th</sup> day of AUGUST, 12, 2024.

BERGERSON CASWELL INC.  
 By David Henryk DAVID HENRYK  
PRESIDENT  
 Address 5115 INDUSTRIAL STREET  
MAPLE PLAIN, MN 55359

# McCarthy Well Company

## 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>1,200</u>
2.	Well pump removal	\$ <u>4,800</u>
3.	Clean and inspect all pumping equipment, and provide written report of existing conditions and recommendations to owner including repair costs	\$ <u>2,300</u>
4.	Video inspection recording of the well provided on thumb drive and written report of existing conditions and recommendations to owner	\$ <u>2,500</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>6,350</u>
Base Bid		\$ <u>17,150</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>1,730</u>	\$ <u>22,490</u>
7.	Replace 10"x 5' T & C drop pipe	Each	2	\$ <u>1,298</u>	\$ <u>2,596</u>
8.	Replace 10"x 10' tail pipe	Each	1	\$ <u>1,650</u>	\$ <u>1,650</u>
9.	Replace Line shaft Bearings	Each	14	\$ <u>32</u>	\$ <u>448</u>
10.	Rebuild Discharge Head and Packing Gland assembly	Lump Sum	1	\$ <u>1,500</u>	\$ <u>1,500</u>
11.	Shop Labor to, repair equipment	Hour	20	\$ <u>130</u>	\$ <u>2,600</u>



12.	Replace bowl bearings	Each	5	\$ <u>350</u>	\$ <u>1,750</u>
13.	Machine impeller and install wear ring	Each	4	\$ <u>1,000</u>	\$ <u>4,000</u>
14.	Replace pump Bowl shaft	Each	1	\$ <u>1,875</u>	\$ <u>1,875</u>
15.	Epoxy coat exterior/interior of pump assembly	Lump Sum	1	\$ <u>1,500</u>	\$ <u>1,500</u>
16.	Recondition 100 Hp VHS motor, replace bearings, bake/ dip, and test	Lump Sum	1	\$ <u>6,250</u>	\$ <u>6,250</u>
17.	Install oil/ grease,	Hour	20	\$ <u>50</u>	\$ <u>1,000</u>
18.	Install Line shaft sleeves	Each	1	\$ <u>150</u>	\$ <u>150</u>
19.	Replace 10" spider assemblies with SS	Each	1	\$ <u>238</u>	\$ <u>238</u>
20.	Replace 1-1/2" x 10' T&C 416SS Line shafts	Each	1	\$ <u>584</u>	\$ <u>584</u>
21.	Replacement Pump 1200 GPM @ 230' TDH 100 Hp motor	Each	1	\$ <u>11,099</u>	\$ <u>11,099</u>

Dated this 26<sup>th</sup> day of August, 2024.

By Bryce Barry  
McCarthy Well Company  
Address 1034 Gemini Road  
Eagan, MN 55121

# Keys Well Drilling Company

## 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