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September 11, 2023

City of Waller
1118 Farr St.
Waller, TX 77484

Attn: Markus Benoit
mbenoit@wallertexas.com

Ref: *Water Well No. 03*

Mr. Benoit

Inspections of the pumping equipment found that the thrust bearing in the motor failed which resulted in the impellers of the pump to run on bottom. This cause unrepairable damage to the impeller skirts and the intermediate bowls. The 60 HP motor megged very low. The #4 cable megged good dry and during the water immersion testing. Ten of the existing 4" column pipes contain rust pits in their threads and ID/OD surfaces. The spring on the existing check valve is weak and the discharge head appear to be in good condition. The existing sand separator cannot be inspected and will require replacement.

A TV Survey was performed on 09/07/2023 to investigate conditions of the well after removing the pumping equipment from the well. The static water level was 123' and the total depth viewed was 348'. Reviewing the survey video revealed mild scale build-up at 10' onward. The screen perforations are partially open. There were no structural issues noted at this time. Our recommendations at this time are to wire brush the screens and liner, jetting the fill/debris, agitate chlorine into the screens with a double disk surge block, and resurvey. Listed below are our recommendations.

Recommended Pumping Equipment and Services

Well Rehabilitation

\$34,629.00

- Haul work pipe, air compressor, and ancillary equipment necessary for wirebrush, jetting and disinfection operations
- Service rig and crew to mechanically wirebrush screens and liner
- Service rig and crew to jet fill/debris from the well
- Service rig and crew to perform a downhole sodium hypochlorite disinfection utilizing a double-disc surge block

Pumping Equipment and Installation

\$71,925.00

- New Grundfos submersible pump with lift nipple
- New Hitachi submersible motor
- 330 ft of New #4/3C WG submersible cable with splice kits
- 210 ft of New 4" G. T&C pump columns
- New 4" ductile iron check valve
- 320 ft of New 1/4" stainless steel airline complete with water level detector kit
- Repairs to the existing motor shroud
- Steam clean, prime and paint the existing discharge head



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- Eaton motor saver
- Miscellaneous items to make operational
- Shop labor to assemble the equipment and load for shipment
- Haul the new pump equipment to the well site and unload
- Furnish pump service rig and crew and install the water well pumping equipment
- Perform start up and bacteriological sampling

Total of Scope of Services Outlined Above\$106,554.00

Work authorized to date for pulling, inspection, and TV survey.....\$11,619.00

Grand Total of Proposed Equipment, Services, and previously authorized work\$118,173.00

Thank you for the opportunity to offer you our services as we await your response.

Sincerely,

A handwritten signature in black ink, appearing to read "BJ Alldredge".

BJ Alldredge
Weisinger Incorporated



BuyBoard Contract # 662-22 & 672-22