

MEMORANDUM

TO: BOARD OF COMMISSIONERS  
FROM: GERALD L. HARTLEY, DISTRICT MANAGER  
DATE: MAY 6, 2013  
SUBJECT: MAY 8<sup>TH</sup> SPECIAL CALLED MEETING

New Business

A. Repairs to Well No. 5: Dan Schrader W/WW Supt and Earl Carter will be present to discuss the current status of the well, needed repairs, possible alternatives, and the consequences of such repairs. A cost proposal is attached for your review. Additional information will be forwarded to you as it becomes available.



April 17, 2013

Earl Carter  
Mathis Carter & Associates  
4052 E. Van Buren  
Eureka Springs, Arkansas 72632

Sent via email: mcaengineering@sbcglobal.net

**Subject: Holiday Island Well 5 Pump Removal, Inspection and Reinstallation**

Dear Mr. Carter:

Thank you for the opportunity to be of service to you and the City of Holiday Island. For over 130 years, Layne Christensen Company (Layne) has provided the highest level of professional expertise and innovation in the water supply industry.

It is our understanding that the pump in Well 5 at Holiday Island is exhibiting signs of excessive shaft wobble. The City would like to have the pumping equipment inspected in the field and pulled if necessary to determine the exact nature of the problem.

Layne proposes to mobilize a 2 man crew to Holiday Island to field inspect Well 5 to try to diagnose the nature of the problem. The crew will be prepared to pull the pump from the well and bring it into our shop if necessary for a more thorough inspection. After the pump has been pulled and inspected, we will issue a repair report outlining the cost of any additional material and labor needed to put the pump back into service.

We are pleased to provide the following estimate to conduct the proposed work on your well. Our records indicate Well 5 is equipped with 400 feet of 6" x 1-3/16" water lubricated column assembly in combination with a 100 HP vertical hollowshaft motor. Our standard rates and estimated hours for this type of work are as follows:

- Two man crew with rig and support equipment on-site to remove and re-install pumping equipment .....\$180 per hour
- Mobilization/demobilization – load/unload (2 roundtrips) to KCK (18 hours @ \$165 per hour).....\$2,970
- Mileage (\$1.50 per mile) to/from KCK office (2 roundtrips); 900 total miles .....\$1,350
- Per Diem, \$100/day/man .....\$1,200-\$1,600
- Shop time to clean and inspect pump (8 hours @ \$85 per hour).....\$680

Typically, removing a vertical turbine pump set at 400 feet for inspection takes 2 to 3 days and 3 to 3 ½ days to reinstall. Therefore, the cost *estimate* of this work excluding pump repairs is from **\$14,120 to \$16,320**. The City would only be charged for actual hours dedicated to the project.

Again, following our shop inspection, we would issue a repair report outlining the additional costs for needed materials and shop labor.

**WATER RESOURCES**



Due to the critical nature of this supply, it may become necessary to work overtime (in excess of 10 hours per day) or weekend hours to complete the proposed work. Our billing rate for a 2 man crew assuming overtime and/or weekend hours is \$240 per hour.

With your purchase order, we can begin to schedule crews for this work. Our pricing does not include any taxes, bonds, special insurances (such as OCP), or prevailing wages and is valid for 30 days.

Please call us if you have any questions regarding this proposal. Thank you for the opportunity to assist you with this important project.

Respectfully submitted,

Steve FitzGerald  
Account Manager  
*Layne Christensen Company*

*Proposal Accepted by:* \_\_\_\_\_ *Date:* \_\_\_\_\_

*Purchase or Work Order Number:* \_\_\_\_\_

**WATER RESOURCES**