



## *Memo*

To: Board of Directors  
From: Karl B. Drew  
Date: June 21, 2017  
Subject: Sam Crum Well Repair/Construction Estimates

Currently, the Felsen and Chamois Vertical Wells are offline due to maintenance issues. These wells were constructed in 2003-04 by Harich Construction. The wells have been video logged and issues with the well casings have been noted.

We have contacted Sam Crum Water Well Drilling to give us estimates on repairing the wells. Sam has drilled some of our other wells and we have been using him frequently for our well maintenance issues as he is available to come to the mountain and has reasonable prices.

- In the Felsen Well, the perforations in the casing have become clogged and it needs to be cleaned. The buildup of scale and material in the casing is a normal occurrence and happens over time. The estimate to clean the well and install a new pump is \$12,452.85. I have authorized Sam Crum to proceed with the work at this site to get this well back online.
- The Chamois Vertical Well has had some challenging issues since it was constructed. The District had Harich Construction back to make some repairs a number of years ago. During initial construction, there evidently was a "blow-out" that was improperly repaired. They came back to repair the seal to prevent addition debris from falling into the well. The current video of the well show that the well casing has dropped several feet and the bottom 100' of the well is filled in with debris. The proposed work at this site is to remove the old liner, clean out the debris in the bottom of the well and install new casing and pump. The estimated cost is \$23,591.72.
- Electra Well is one of the new wells we have been proposing. All of the preliminary work, including environmental, for the Electra and Valley Well sites has been completed. We have been waiting for a response from the owner of the Valley site to proceed. With Sam having his equipment of the mountain for other work, we asked him to provide us with a proposal for the Electra well. He has given us a proposal to drill the test hole, finish the well to 10" diameter and install the casing and sanitary seal for \$71,995.00. In reviewing past records, this is very comparable in price to the wells we

had constructed in 2003-04. If the well does not look feasible after the test hole is completed, the balance of the work will not be required. There will be additional costs of about \$25,000 - \$50,000 after the construction of the well, for the installation of the pump and to complete the well site.

**Recommendation:** We are requesting the Board approve the following

- Repair of the Chamois Vertical Well by Sam Crum Water Well Drilling for an estimated \$23,591.72. The Chamois Well is a high priority repair and there are funds budgeted in the Discretionary Appropriations that will cover the expense of this repair.
- Construct New Water Well at Electra Drive site by Sam Crum Water Well Drilling for an estimated \$71,995.00. This project is fully budgeted.

Sam Crum Water Well Drilling, Inc.

Lic. #593583

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06/19/2017

Crestline Village Water District

PO Box 3347

Crestline, CA 92325

RE: Felson Well

**JOB ESTIMATE**

DESCRIPTION OF WORK

Clean-out existing water well	
30gal well de-scaler/acid	\$ 3,120.00
Brushing & bailing with Pumptruck approx 16hrs @\$185.00per/hr	\$ 2,460.00
*** If Drillrig is needed to clean-out well @\$395.00per/hr	\$6,320.00***
Install new pump & motor in well:	
New pump end #45GS75	\$ 3,285.33
New 7.5hp Motor 208v - 3 phase	\$ 2,007.52
Misc. (heat shrink, tape)	\$ 285.00
Labor approx. 7hrs @\$185.00	\$ 1,295.00

**TOTAL ESTIMATE** **\$12,452.85**

NOTES:

Above estimates may vary depending on total labor and materials installed.

Payment schedule as follows:

- Deposit of \$1,000.00 due prior to start
- First progressive payment of \$6,000.00 due when equipment arrives on site
- Balance of \$5,452.85 due upon completion of job.
- Prices subject to change without notice.
- Prices good for 10 days from above date.

Thank you,

Sam Crum

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RE: ChamoisVert.Well

**JOB ESTIMATE**

DESCRIPTION OF WORK

Mob - Demob drill rig to well site	\$ 1,000.00
Pull out/ drill out PVC liner in well	
Clean-out existing well to well depth (approx. 600')	
TOTAL CLEAN OUT APPROX. 30HRS @\$395.00	\$11,850.00
Install new PVC casing in well 600' @\$8.57per/ft	\$ 5,142.00
Install gravel pack	\$ 1,800.00
Install new 5hp pump & motor 208v - 3 phase	\$ 3,799.72
<b>TOTAL ESTIMATE</b>	<b>\$ 23,591.72</b>

NOTES:

Above estimates may vary depending on total labor and materials installed.

Payment schedule as follows:

Deposit of \$1,000.00 due prior to start

First progressive payment of \$10,000.00 due when equipment arrives on site

Balance of \$12,591.72 due upon completion of job.

Prices subject to change without notice.

Prices good for 10 days from above date.

Thank you,

Sam Crum

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RE: New water well

**JOB ESTIMATE**

DESCRIPTION OF WORK

To drill one test hole approx. 600' in depth	@\$30.00per/ft	\$ 18,000.00
Ream test hole to 10" diameter 600'	@\$52.00per/ft	\$ 31,200.00
Install 7" PVC well casing 600'	@\$18.00per/ft	\$ 10,800.00
Install ¼" gravel		\$ 1,800.00
50' sanitary well seal		\$ 9,500.00
County well permit		\$ 695.00

**TOTAL WATER WELL ESTIAMTE** **\$ 71,995.00**

NOTES:

Above estimates may vary depending on total labor and materials installed.

Payment schedule as follows:

Deposit of \$1,000.00 due prior to start

First progressive payment of \$10,000.00 due when equipment arrives on site

Second progressive payment of \$20,000.00 when seal is installed

Third progressive payment of \$20,000.00 when casing & gravel is installed

Balance of \$20,995.00 due upon completion of job.

Prices subject to change without notice.

Prices good for 10 days from above date.

Thank you,

Sam Crum

Sam Crum Water Well Drilling, Inc.