



KRJ, Inc.

dba KRJ Utilities

P O Box 2369 ♦ Swansboro NC 28584
Phone: 919.827.8055

OFFICIAL COPY

Jan 03 2019

03-Jan-2019

N C Utilities Commission
Raleigh NC

Via e-file

In Re: Quarterly Report on Progress
W-1075 sub 12

Pursuant to Provision 14, page 31, of Order entered in the above docket on 6-Aug-2018, we submit the following report concerning progress in improvement of production of Southern Trace Well 2.

As was reported within our 10-Oct-2018 Quarterly Report on Progress, KRJ intended to retain Charles R Underwood, Inc to perform remedial work on our Southern Trace Well # 2. That intent was consummated in the form of a written agreement as of 09-Nov-2018. A schedule was discussed with Mr. Russell Underwood, and it was decided that the most opportune date to start work was 04-Dec-2018, which provided KRJ adequate time to advise the customers of the intended work schedule and would avoid both the Thanksgiving and Christmas/New Year holiday periods

On 24-Nov-2018 a letter was mailed to ALL customers within Southern Trace advising of our intended work schedule and again eliciting their provision of phone and e-mail contact data. The same information was e-mailed to the 91 customers for whom we had received e-mail addresses. The information indicated that all additional updates of information concerning the operation would be issued only via e-mail due to Postal System delays.

On 08-Dec-2018, an e-mail was transmitted to all customers for whom we had e-mail addresses advising that the well rehabilitation work had been completed, and a yield test run that indicated that the rehabilitation had not achieved any additional yield.

On 20-Dec-2018, a final e-mail was transmitted indicating that a more suitable size pump had been installed, the well disinfected, a clear bacteriological analysis achieved and that the well had been placed back into service.

Copies of all customer communications are attached.

KRJ is now exploring the potential of acquiring additional sources of water.

We will continue to provide updates to the Commission, as required in the order, as the work is prosecuted and results quantified.

Respectfully

James R. Butler, Manager



KRJ, Inc.

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Post Office Box 2369 ♦ Swansboro NC 28584
Phone: 919.827.8055 ♦ 252.764.2860

24-Nov-2018

Customers in Southern Trace Subdivision

As most of you are aware, KRJ's well # 2 serving Southern Trace has exhibited a yield significantly less than its original capacity for some time.

KRJ has entered into an agreement with Charles R. Underwood, Inc., a well regarded and experienced firm providing rehabilitation of wells, and supply and installation of water well pumps. Their reputation, experience and client base are quite impressive; as is the fact that they have been in business in North Carolina for nearly 50 years.

Our plan is to:

- Remove the pump/electrical cable/drop-pipe from the well, **this places the well out-of-service**;
- Clean the well using both mechanical and National Sanitation Foundation (NSF) approved chemical cleaning methods and materials;
- Flush and redevelop the well;
- Perform a 24-hour yield test on the well;
- Determine the most appropriate pump to install in the well to match the newly determined well yield;
- Acquire a new pump, if appropriate, and install the pump, drop-pipe, cable, etc;
- Disinfect the well;
- Acquire and have analyzed a bacteriological sample from the well; and,
- Place the well back into operation.

It is anticipated that the work will require approximately 2-weeks to accomplish.

During the period that the work is being performed, as the system will be operating with only two wells, we request that you reduce your water usage as much as reasonable to prevent low pressure issues in the higher areas (nearer NC50) of the system.

The work will begin on Monday 12/03/2018 and continue to completion.

This notification is also being sent to those customers who have previously furnished us e-mail addresses. Future updates about this project will be provided via e-mail only, due to the tardiness of snail-mail.

- Customer who **do not** receive this notification by e-mail are encouraged to provide us with current e-mail and phone information, as we have requested in the past, to **info@mgnc.biz**
- Customers who receive this notification via e-mail need to do nothing more. We already have your e-mail address.

We appreciate your cooperation.

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Customer who do not receive this notification by e-mail are encouraged to provide us with current e-mail and phone information, as we have requested in the past, to info@mgnc.biz

Customers who receive this notification via e-mail need to do nothing more. We already have your e-mail address.

We appreciate your cooperation.

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08-Dec-2018

Customers in Southern Trace Subdivision

On November 24 we advised you of our plans to rehabilitate well # 2 in an attempt to recover some of its water yield.

The process of cleaning, hyper-chlorination, development and yield testing was completed on Thursday of this week.

I need to describe the character of hard-rock wells in order to explain what we believe to be the situation. The wells in Southern Trace, and as are all upslope from the "fall" line, which is located mid-Johnston County where the piedmont slope meets the coastal plain, are drilled into rock; and, not saturated sands as they are in the coastal plain. Within the rock are fracture zones that contain water that permeated the rock over hundreds or even thousands of years. Some fracture zones are only a few inches thick, others mighty. When the water in a fracture zone is expended by pumping, there is none to replace it in the short term, due to the density of the rock. Apparently, the stored water in one or more of the six fracture zones encountered by well 2 has been expended.

Unfortunately, no increase in yield was obtained. A new, smaller, pump was installed yesterday.

The well will be disinfected and tested for bacteriological presence early next week and placed back into service as soon as acceptable bacteriological test results are received. **We will advise you when the well is back in service.**

KRJ's next challenge is to attempt to locate an additional source of water. Drilling another well on the site of well 2 is not advised as the same fracture zones would be encountered; drilling near either well 1 or 3 is ill advised for the same reason, as the additional well would tap the same fracture zones and adversely impact the current yield of those wells. We will periodically advise you, as our efforts to acquire additional water sources progress.

Thank you, again, for your cooperation.

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20-Dec-2018

Customers in Southern Trace Subdivision

As we advised mid-November, KRJ retained the services of a qualified well contractor to attempt to recover some of the capacity (yield) of our well 2, that had been lost over time.

On 12/06/2018 we advised that although the well renovation work had been completed it had been determined that the well capacity had not been increased by the renovation work. The well yield remains at 20 gpm, as it was before the work began. A new pump was installed that more nearly matches the well yield.

Subsequent to the renovation and installation of the new pump, the well was disinfected, flushed and a bacteriological sample drawn. We received the notification that the results of the analysis were "absent" (meaning no bacteriological activity was found in the well water) yesterday afternoon. The well was placed back into service late this morning.

As the flow from the well is no greater than it was initially and the well has been out of service for only a few weeks, we feel that any discoloration in the water resulting from the re-starting the well should be localized and temporary; the result of change in water flow patterns in the mains re-suspending sequestered iron settled in the water mains. If it occurs, it is an aesthetic issue and not a health issue. We ask for your cooperation during any period of discoloration, which should be short lived.

We are in the process of attempting to locate additional sources of water supply for the Southern Trace system. As we move forward in that process we will advise of our progress.

Again, thank you for your cooperation and understanding.

We hope you all have a Joyous (and Safe) Holiday Season.

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