Dear Colleagues,

I know this message for this quarterly Drillstem will be more somber as compared to the previous letter composed a few months ago. The COVID-19 debacle was becoming more prevalent, but the ramifications had not been foreseen. Well, as I write this the governor has supposedly “opened” up the state after two months of quarantine, school cancellations and a closure of countless businesses that directly interacted with the public. The start of 2020 has been fraught with unknown economic impacts that have strained small businesses. Equipment purchases have been put on hold, especially in our industry, as the cost of rigs may not necessitate the risk of what the immediate work forecast will be. One of the positions that arose during this outbreak was “essential employee”, which I found superficial coming from the decrees and mouths of politicians. As professionals in the water well and pump industry we’ve always known ourselves to be necessary no matter what natural disaster or pandemic may arise. Fortunately, and with much optimism, we are weathering the storm and continue to provide individuals, farmers and municipalities with a critical service.

As with the continued fallout of the virus, it was decided among board members that the Mid-Year Conference in Breckenridge would be cancelled for this year. I always looked forward to the mid-July meeting to converse (and occasionally complain) with fellow drillers, pump installers, suppliers and associates. My kids always enjoy traveling to the mountains, going to the pool and walking downtown with my credit card while I attended the conference; however, we’ll hope that next year brings restored health and prosperity. Colleen immediately inquired with Beaver Run as the proverbial cloud of doubt increased with the COVID emergency on whether CWWCA would have to pay a cancellation fee on the reservation. Fortunately, there was no financial impact as Beaver Run did not assess anything for the cancellation. Not being able to conduct a physical meeting/ conference will undoubtedly cause a deficiency in financials in regards to registration, scholarship auction and other unknown facets of the association at the time of writing this. The Board of Examiners made a declaration to allow eight CEU credits from a webinar due to the social distancing and quarantine environment. Obviously, meeting in large groups and attending classes would not be feasible, so the CE credits usually obtained at mid-year could be done electronically/on-line. Another new term to arise from the virus disaster was webinar, which combines real-time meetings and classes on-line. For the April board meeting CWWCA utilized an application called Zoom. I wouldn’t consider myself technical, but I was able to phone in without a camera and followed emailed instructions. It’s awkward at first use, but becoming increasingly prevalent. I am positive that the virus panic will alleviate and society can return to life pre-corona. I wish everyone the best and look forward to getting back together.

Stay essential, Joel Canfield
ADVERTISING INFORMATION

DRILLSTEM ADVERTISING
Advertising rates for the DRILLSTEM, a quarterly publication of CWWCA
Deadlines for content: February 1st, May 1st, August 1st, November 1st
(Published March, June, September, and December)
Classified ads are $1.00 per 3.5-inch line.
Help wanted ads will not be published.

<table>
<thead>
<tr>
<th>Number of Issues</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Savings</td>
<td>0%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
</tr>
<tr>
<td>Full Page 7”x10”</td>
<td>$250</td>
<td>$450</td>
<td>$675</td>
<td>$850</td>
</tr>
<tr>
<td>Half Page 7”x5” or 3.5”x10”</td>
<td>$150</td>
<td>$285</td>
<td>$405</td>
<td>$510</td>
</tr>
<tr>
<td>Quarter Page 3.5”x5” or 7”x2.5”</td>
<td>$90</td>
<td>$172</td>
<td>$243</td>
<td>$306</td>
</tr>
<tr>
<td>Business card 3.5”x2”</td>
<td>$50</td>
<td>$95</td>
<td>$135</td>
<td>$170</td>
</tr>
</tbody>
</table>

Sending employment ads will be published.

COPIES MUST BE CAMERA READY OR TRANSMITTED ELECTRONICALLY (.doc, pdf, or .jpg format)
Please be sure to include all borders in the given dimensions (width x height) at 600dpi.
Avoid using colors in the ads since the DRILLSTEM is printed in black and white.
For full formatting requirements, please visit our website at CWWCA.org.

SEND PAYMENT TO:
CWWCA
3000 South Jamaica Ct, #145
Aurora, CO 80014
Phone: 720-244-8024
Fax: 720-244-8024

PLEASE EMAIL CONTENT AND ADS TO:

WEBITES

Colorado Water Well Contractors Association
www.cwwca.org

American Ground Water Trust
www.AGWT.org; privatewell.com

Board of Examiners
www.water.state.co.us/boe

Colorado Ground Water Association
www.cgwa.co

National Ground Water Association
www.ngwa.org

World Wide Drilling Resource
www.worldwidedrillingresource.com

CWWCA CONTACTS

Executive Director
Colleen Schneider
3000 South Jamaica Ct, #145
Aurora, CO 80014
Phone: 720-244-8024
Fax: 720-244-8024
E-mail: execdir@cwwca.org

CWWCA Lobbyist
Richard G. Brown
Mobile: 303-601-9254
Phone: 303-695-6388
E-mail: dickscuba@gmail.com

CWWCA CALENDAR OF EVENTS

JULY 10-11, 2020 CWWCA MID-YEAR CONFERENCE  WEBINAR
AUGUST 3, 2020 BOE MEETING (Board of Examiners) 1313 Sherman St Rm. 818, Denver, CO
OCTOBER 16, 2020 CWWCA Board of Directors Meeting Chase Bank Building – 333 W Hampden Ave, Basement Conference Room, Englewood
NOVEMBER 2, 2020 BOE MEETING (Board of Examiners) 1313 Sherman St Rm. 818, Denver, CO
2020 CWWCA Mid-Year Virtual Conference

Friday, July 10, 2020 – Saturday, July 11, 2020

Dear CWWCA Member,

Our Mid-Year Conference is coming up on July 10th and 11th. Due to the pandemic and the restrictions that in person events are subject to, our Board of Directors asked the BOE to allow members to get all eight credits via webinar and thankfully they have approved this request for the next 120 days.

CWWCA has decided to hold the 2020 Mid-Year conference using on-line webinar technology. Our programming will be offered over two days in webinar format, providing the same opportunity to learn valuable information and still receive your eight credit hours for the year.

The CWWCA registration fees this year have been reduced to $50 (for paid members). Please consider and encourage your peers to attend Mid-Year Conference with this incredible discount. Our association provides vital services for our industry in licensing and legislative/regulatory advocacy.

Thank you for being part of CWWCA and thank you for being open to this new format!

Our 2021 Annual Conference scheduled for January 13-15, 2021 at the Westin Westminster, 10600 Westminster Boulevard, Westminster, CO, 80020. If you have any questions email, Colleen Schneider at execdir@cwwca.org.

We look forward to connecting with you at our virtual conference in July!
CWWCA Mid-Year Virtual Conference Information

DATES
Friday, July 10, 2020 AND Saturday, July 11, 2020

COST/REGISTRATION
Members: $50 per member for all eight (8) hours
Non-Members: $250.00
Registration link is located on the home page of the CWWCA.org website or use the registration form and mail in.

SUPPLIERS
CWWCA welcomes our suppliers to join the webcast and can be involved in the following ways:

- Donate an item(s) for our silent auction –this year we will use the funds raised to help offset the increased costs of our conferences while maintaining minimal increases for member and supplier registrations. Please email execdir@cwwca.org with your item to donate.
- Join the webinar and renew your dues. Your partnership is vital in helping CWWCA succeed. Your yearly dues and attending the webcast help CWWCA continue to operate.
- Banner ad placed in all marketing materials and noted during the webinars. Cost is $100.00. Videos are welcome at 30 seconds long. Please email execdir@cwwca.org if you are interested.

ROLE CALL/ ATTENDANCE APPROVAL
A special code will be given at the end of each class. Once you receive all eight codes you can send your code sheet to execdir@cwwca.org to receive the ID course. This will be used as our confirmation you attended the sessions.

SILENT AUCTION
A silent auction will take place prior and during the Mid-Year Webinar. Continue to check the website with items to bid on. If you would like to make a donation, email execdir@cwwca.org with your item.

AGENDA

Friday, July 10, 2020
9:00 am - 10:00am  Technical Working Group – supported by Zoom Meeting
10:00 am- 12:00pm  Board of Directors Meeting – supported by Zoom Meeting
1:00 pm – 5:00pm   Webinar Classes

Saturday, July 11, 2020
8:00 am – 12:00 pm  Webinar Classes
# CWWCA Mid-Year Webinar Schedule

**Friday, July 10, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>2pm-3pm</td>
<td>“Geology and Water Well Construction Ideas”</td>
<td>Kevin Donegan, DWR</td>
</tr>
<tr>
<td>3pm–3:15pm</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>3:15pm-4:15pm</td>
<td>“Drilling Fluid Chemicals and Well Rehabilitation Activities”</td>
<td>Fred Rothauge, Hydro Resources</td>
</tr>
<tr>
<td>4:15pm-5:15pm</td>
<td>“Operational Stage of the Well”</td>
<td>Thom Hanna, Hydrogeologist/Director Durango Research Institute</td>
</tr>
<tr>
<td>5:15pm – 6:15pm</td>
<td>“Passing the State Licensing Test - Prep Session: Ask the Green Jacket”</td>
<td>Ray Newmyer, M.G.W.C., NWP Drilling &amp; Consulting</td>
</tr>
</tbody>
</table>
Saturday, July 11, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>8am-9am</td>
<td>“Renewable Energy”</td>
<td>Dean Wygal, Grundfos</td>
</tr>
<tr>
<td>*1hr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9am-9:10am</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>9:10am-11am</td>
<td>“DOT: Load Securement &amp; Utility Exemption”</td>
<td>Ryan Byers, Front Range Compliance</td>
</tr>
<tr>
<td>*2hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11am-11:10am</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>11:10am-12:10pm</td>
<td>“Multiple Uses of Using a DR Rig”</td>
<td>Gary Hicks, R.G., CWD/PI, In2Wells, LLC.</td>
</tr>
<tr>
<td>*1hr</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All hours of accredited continuing education taken by internet or online participation from January 1, 2020, through September 15, 2020, may be used to obtain the required hours of continuing education.

**Adopted Temporary Rule:**

8.1.d. Notwithstanding Rule 8.1.b, due to significant limitations on the ability of people to meet in person due to the COVID-19 pandemic in 2020, all hours of accredited continuing education taken by internet or online participation from January 1, 2020, through September 15, 2020, may be used to obtain the required hours of continuing education. The limits in Rule 8.1.c will continue to apply. This is a temporary emergency rule enacted pursuant to section 24-4-103(6), C.
CONTAIN YOURSELF!
WE TAKE STRESS OUT OF YOUR INVENTORY.

OUR ONSITE INVENTORY PROGRAM IS THE SOLUTION

• No more trips to pick-up products or waiting for deliveries
• Never pay for inventory before you need it
• We’ll manage and order the inventory you need

FOR MORE INFO, CONTACT YOUR 2M SALES REP!

2M DENVER 303-320-4631
2Mco.com
2020 CWWCA MID YEAR VIRTUAL CONFERENCE
ATTENDEE REGISTRATION

Friday, July 10, 2020 - Saturday, July 11, 2020

CONTACT INFORMATION:

COMPANY

CONTACT NAME

ADDRESS

CITY

STATE

ZIP

PHONE

MOBILE

EMAIL

You will receive an email confirmation with the link to join the webinar.

FULL CONFERENCE REGISTRATION

<table>
<thead>
<tr>
<th>#</th>
<th>Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CWWCA Member</td>
<td>$50</td>
</tr>
<tr>
<td>2</td>
<td>Non-Member</td>
<td>$250.00</td>
</tr>
</tbody>
</table>

CWWCA MEMBERSHIP

Is your membership up to date? If not, renew today to receive the member price!

<table>
<thead>
<tr>
<th>X</th>
<th>Member Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Drilling Contractor</td>
<td>$198</td>
</tr>
<tr>
<td></td>
<td>Pump Installation Contractor</td>
<td>$198</td>
</tr>
<tr>
<td></td>
<td>Drilling &amp; Pump Installation Contractor</td>
<td>$198</td>
</tr>
<tr>
<td></td>
<td>Associate (mfg/vendor for industry)</td>
<td>$198</td>
</tr>
<tr>
<td></td>
<td>Technical (industry expert, consultant)</td>
<td>$115</td>
</tr>
<tr>
<td></td>
<td>Retired</td>
<td>$50</td>
</tr>
<tr>
<td></td>
<td>Affiliate (interested in industry)</td>
<td>$50</td>
</tr>
<tr>
<td></td>
<td>Employee (of an already paid member)</td>
<td>$60</td>
</tr>
</tbody>
</table>

ORDER SUMMARY:

MEMBERSHIP TOTAL:

REGISTRATION TOTAL:

Credit Card Users: please add $7 convenience fee:

GRAND TOTAL:

PAYMENT INFORMATION:

<table>
<thead>
<tr>
<th>(or)</th>
<th>CHK</th>
<th>VISA</th>
<th>M/C</th>
<th>AMEX</th>
<th>DISC</th>
</tr>
</thead>
</table>

CARD NUMBER:

EXPIRATION:

CVV:

BILLING ZIP CODE:

NAME ON CARD:

CANCELLATION POLICY:

Full registration fee will be refunded prior to July 1, 2020. All cancellation requests must be submitted in writing to the CWWCA office.
Legislature to Reconvene May 26, 2020 There have been two things dominating the Capitol over the past couple of months. The first is the budget and the second has been the logistics of the legislature reconvening to complete this session.

The Budget

There are literally dozens of articles and media accounts released daily that refer to the budget crisis. There is so much information and so many numbers being reported that it is hard to keep it all straight. For context, the Joint Budget Committee is dealing with two budgets and two separate budget years.

The current budget, and the current fiscal year, runs through June 30, 2020. The Constitution requires the state budget be balanced. With the almost unbelievable decline in revenues, the JBC had to reopen the current year budget and reduce allowable expenditures to keep the budget in balance. Those reductions must be in effect and fully operational for the months of May and June – the JBC cannot go back to January and recover expenditures that have already been made. The JBC has completed that work and a set of bills will be introduced to effect those changes when the legislature returns.

The second budget is for the fiscal year that begins on July 1, 2020 and runs through June 30, 2021. The JBC is working on that budget presently and it also will be introduced when the legislature reconvenes. That budget must be signed into law by the Governor by June 30, 2020 so it can go into effect on July 1, 2020. The FY 20-21 must be in effect or else the state agencies cannot go to work.

The FY 20-21 budget is also important for school finance. The school finance act, which apportions the funding for K-12 education, must be signed into law by the Governor by June 30, 2020. The school finance act is reliant on the appropriation made in the FY 20-21 budget. The schools must know how much money they will receive so that they can do their own budgets.

The JBC has revenue projections from both Legislative Council staff and the Governor’s Office of State Planning and Budgeting that the general fund revenues will come in about 25% below what was forecast just two months ago. That has caused the JBC to begin to make massive program cuts to fit the budget to the expected income.

In addition to cuts, the JBC is working to reconfigure revenues. One of the proposals that is under consideration is cutting some $2 million in general fund support from the Division of Water Resources. The lost general fund dollars would be recaptured by increasing fees paid by those seeking permits and services from the DWR. There is a table that displays on a fee-by-fee basis what the increases would be. We have not included the table in this report because everything in it is tentative and subject to changes. Suffice it to note that if revenue support is cut by $2 million, all the fees will have to be increased by substantial amounts to make up the lost amount.

Implications for Water

In addition to the potential increase in DWR fees, there are other water related programs that are in a bit of limbo at the moment.

(Legislative Update Continued on page 13)
THE RIGHT SOLUTION FOR THE JOB, EVERY TIME.

PUMPING SYSTEMS FOR IRRIGATION & RESIDENTIAL APPLICATIONS

Since 1882, Mitchell's has partnered with contractors to understand requirements and provide options that result in delivering the best solution for a job.

From residential pumps and vertical turbines to VFDs and packaged systems, customers depend on Mitchell's quick response times to deliver results. Our engineering team is available to help build custom systems to meet your project needs.

Put our experience to the test. Give us a call, 888.232.2211.

mitchellewis.com
The first is the increase in the number of water well inspectors (HB20-1069). In addition to the authorization for new inspectors, that bill includes an increase in the well inspection fee to pay for the inspectors. When the legislature took its temporary adjournment in March, that bill had passed House Rural Affairs & Agriculture, House Finance and House Appropriations. It was pending consideration before the full House. It remains on the House 2nd Reading calendar awaiting the legislature to return.

By all the information we have received, the bill should go forward, and the sponsors are prepared to move forward on it. However, there is a very weird outlier issue that may put the bill in conflict with the increase in the fees for the DWR. The potential conflict is one of effective dates and the constitutional standards for interpretation of laws that are in conflict.

The conflict is that (if) the DWR bill moves forward, it will need an effective date that coincides with the FY 20-21 budget. To do that, the effective date would need to be either on the signature of the Governor or on July 1, 2020. Otherwise, it would not track with the budget. The inspector bill, however, would not become effective until 90 days following the legislature adjourning sine die. That is another constitutional matter related to the authority of the voters to challenge a new law via a referendum petition. That authority expires 90 days following adjournment sine die.

The two measures would be in conflict because of these constitutional dates. The mechanical problem is that both bills make changes to the same account in the DWR. The well inspector bill contains fees that are lower than those proposed in the DWR fee bill, which means the well inspector bill would work perversely to lower the fees and fee income to that account. That is because of the constitutional rule of interpretation that later law takes precedence over earlier law and specific law takes precedence over general law.

The attorneys in Legislative Legal Services and the JBC staff have been conferring on the best way to cure the conflict. The well inspector bill does not have any serious opposition. And, if the inspector bill fails, no one gains financially because there simply will not be any new fees generated. We are in contact with the legislative attorneys to provide whatever assistance we can as they try to draft their way to a resolution.

The other water related bills that are in some limbo are the annual bill to fund the endangered species protection program, the annual bill to fund construction projects for the Colorado Water Conservation Board and funding for the eradication of invasive nuisance specials such as zebra mussels.

Legislature Reconvenes May 26, 2020

The legislature will reconvene on May 26th. As you remember, the legislature took a temporary adjournment on March 17th in conjunction with the Governor’s public health emergency proclamation. There was a constitutional question as to whether the legislature could take such a temporary adjournment without conflicting with the constitutional limit of 120 calendar days. That was resolved by the Supreme Court in favor of the legislature, but the temporary adjournment is only valid during the period of the Governor’s proclamation. When they return on May 26th, they will have around 50 calendar days remaining before the 120-day limit is reached. However, the legislature could take another temporary adjournment as long as it was within the dates in the proclamation.

Nonetheless, the legislature must adopt the revised budget for FY 19-20, adopt the budget for FY 20-21 and pass the school finance act by June 30.

There are somewhere around 300 bills that were in the process when the March 17 temporary adjournment
Your **FULL LINE DISTRIBUTOR** of Well Water Products

**LAS VEGAS**

DECEMBER 8 - 12, 2020

70 POINTS
The Mirage Hotel & Casino
Includes Round-trip Airfare & Hotel for Two

**Join Us in Tropical Puerto Rico**

255 POINTS
Includes Round-trip Airfare & Hotel for Two
JANUARY 2023

**FREE SHIPPING ON IN-STOCK ITEMS!**

**FLEXCON INDUSTRIES**
**GRUNDFOS**
**PENTAIR**
**Pulstar**
**YASKAWA**

**IF YOU’D LIKE TO VACATION WITH US AT THE MIRAGE IN LAS VEGAS OR THE FAIRMONT IN PUERTO RICO,**

**CALL (866) 478-6336**

FOR MORE INFORMATION ON THE BEST TRIPS OF THE YEAR!
occurred. They were spread out across the system and there were a few bills that were poised to still be introduced. Leadership is working to stratify the bills to establish priorities for consideration when they return. For example, bills which have appropriations that would be a problem with the revised budget are most likely going to die quickly. Since there is no money and the budget will be settled, there is no purpose in spending any energy on those bills.

Some bills need to move forward. There are about two dozen “sunset” bills in the process. A sunset bill is one that continues a state agency or a program. If those bills do not pass this session, the agency goes into what is known as “wind down” which is the process for them to go out of business. An example is the continuation of the water and wastewater treatment operator certification program. Those bills have all been through committees and will move forward.

A few highly controversial bills have been withdrawn by the sponsors. Notable among these bills is the proposal to establish a paid family leave bill. We can anticipate that these bills will resurface in January when the next regular session convenes.

One of the most difficult matters for leadership to resolve has little to do with policy or bills. It is the working environment of the State Capitol building. The Capitol will be open to the public when the legislature returns on May 26 but there will be conditions. Everyone will be required to wear masks and to maintain social distance. No one will be allowed to hand legislators (or staff) any letters, documents, business cards and similar paper products. All such materials will be required to be submitted electronically.

It appears that a limited number of citizens will be allowed to physically sit in a committee room. Leadership is looking at establishing adjacent “overflow” rooms where the meeting will be broadcast. Witnesses will still be able to present, but the sign-up sheet will be gone. Instead, there will be an electronic sign up and witnesses will be required to use that process at least an hour before the hearing.

At this time, it appears unlikely that citizens will be able to observe floor work from the galleries. Those galleries may be occupied by legislators so that social distancing can be maintained on the floor of the House or Senate. That suggests that citizens will not be able to enter the lobby areas adjacent to the doors to the chambers.

The big unresolved logistical issue is whether legislators will be allowed to participate remotely. There are legislators who have health issues and are in the identified high-risk group. A few of these legislators have already indicated that they do not want to come to the Capitol and run the risk of contracting COVID-19. A couple of legislators have family members who have health needs and those legislators do not want to run the risk of exposing them to COVID-19. Other legislators, however, have taken the position that they have a duty as elected officials to be at the Capitol doing the work the voters sent them to do.

There will likely be several bills introduced as late bills. These will mostly be bills that address some aspect of the state’s response to attacking COVID-19. A category of bills in this group would be bills that clarify how the state will handle the federal stimulus money that comes to Colorado. Some of that money comes with conditions whereas other money may need legislation for it to be used. That raises another issue concerning a possible special session in the fall. It appears that there may yet be another stimulus package passed by Congress. It may be necessary for the Governor to call a special session to resolve any fiscal issues that might be associated with future stimulus funding.
TWG (TECHNICAL WORKING GROUP) REPORT

April 24, 2020

TWG Meeting Recap
Remote Meeting via Zoom

Next TWG Meeting:
Remote Meeting via Zoom
July 10, 2020, 9:00 AM

Attendees:
Matt Sares, Doug Stephenson, Dan Niemela, John O'Brien, John Shuler, Fred Rothauge, Larry Finney, Brad Himes, Tom Harder, Bryan Beckner, Joe Meigs, Andy Horn, Kevin Donegan, Bruce Hier, Andy Flor, Gene Wagner and Travis Day.

Moderator:
Gene Wagner

Moderator for July 2020 Meeting:
Fred Rothauge

DWR Update

Well permitting activity during the first quarter of 2020 was lower than the same period in 2019 for total permits issued but greater for several subcategories, as shown in the summaries below. Those summaries show, relative to the first quarter of 2019, a 4% decrease in permit applications, a 14% increase in permits issued and a 28% increase in exempt permits issued.

Well Inspection Program

The Water Supply team is currently adding the advance notice condition to wells per BOE Policy 2020-2. To ensure inspections occur in lesser-inspected Divisions and of lesser-inspected contractors, well permit staff in Divisions 4, 5, 6, and 7 are adding the advance notice condition to approximately every other permit they issue with the exception of monitoring wells.

DWR released the new advance notice forms on March 1, 2020. The advance notice forms are used to produce a Google map for the inspectors’ use that shows the location of notices received. DWR will be developing electronic forms that contractors will use to provide advance notice in the future. These forms are not expected to be available until late 2020 or early 2021.
## Well Permit Activity Log

<table>
<thead>
<tr>
<th>Action Name</th>
<th>Year</th>
<th>1/1 - 3/31</th>
<th>4/1 - 6/30</th>
<th>7/1 - 9/30</th>
<th>10/1 - 12/31</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Application Received</td>
<td>2020</td>
<td>1311</td>
<td>1257</td>
<td>1311</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permits Issued</td>
<td>2020</td>
<td>893</td>
<td>939</td>
<td>893</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Permits Issued (Non Exempt)</td>
<td>2020</td>
<td>299</td>
<td>315</td>
<td>299</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Permits Issued (Non Exempt)</td>
<td>2020</td>
<td>73</td>
<td>73</td>
<td>73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Permits Issued (Exempt)</td>
<td>2020</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replacement Permits Issued (Exempt)</td>
<td>2020</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replacement Permits Issued (Non Exempt)</td>
<td>2020</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitoring Hole Notices Issued</td>
<td>2020</td>
<td>256</td>
<td>256</td>
<td>256</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permit Extended</td>
<td>2020</td>
<td>158</td>
<td>158</td>
<td>158</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permit Canceled</td>
<td>2020</td>
<td>115</td>
<td>115</td>
<td>115</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well Constructed</td>
<td>2020</td>
<td>439</td>
<td>439</td>
<td>439</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well Constructed Recd</td>
<td>2020</td>
<td>825</td>
<td>825</td>
<td>825</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Installed</td>
<td>2020</td>
<td>518</td>
<td>518</td>
<td>518</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Installed Recd</td>
<td>2020</td>
<td>733</td>
<td>733</td>
<td>733</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well Plugged and Abandoned</td>
<td>2020</td>
<td>148</td>
<td>148</td>
<td>148</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well Plugged and Abandoned Recd</td>
<td>2020</td>
<td>206</td>
<td>206</td>
<td>206</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Well Permit Activity Log

<table>
<thead>
<tr>
<th>Action Name</th>
<th>Year</th>
<th>1/1 - 3/31</th>
<th>4/1 - 6/30</th>
<th>7/1 - 9/30</th>
<th>10/1 - 12/31</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Application Received</td>
<td>2019</td>
<td>1368</td>
<td>1665</td>
<td>1724</td>
<td>1240</td>
<td>5997</td>
</tr>
<tr>
<td>Permits Issued</td>
<td>2019</td>
<td>1102</td>
<td>1564</td>
<td>1648</td>
<td>1307</td>
<td>5621</td>
</tr>
<tr>
<td>New Permits Issued (Non Exempt)</td>
<td>2019</td>
<td>693</td>
<td>1073</td>
<td>1130</td>
<td>922</td>
<td>3818</td>
</tr>
<tr>
<td>New Permits Issued (Non Exempt)</td>
<td>2019</td>
<td>372</td>
<td>351</td>
<td>393</td>
<td>333</td>
<td>1449</td>
</tr>
<tr>
<td>Replacement Permits Issued (Exempt)</td>
<td>2019</td>
<td>84</td>
<td>122</td>
<td>146</td>
<td>95</td>
<td>447</td>
</tr>
<tr>
<td>Replacement Permits Issued (Non Exempt)</td>
<td>2019</td>
<td>26</td>
<td>50</td>
<td>32</td>
<td>21</td>
<td>129</td>
</tr>
<tr>
<td>Monitoring Hole Notices Issued</td>
<td>2019</td>
<td>35</td>
<td>3</td>
<td>28</td>
<td>30</td>
<td>96</td>
</tr>
<tr>
<td>Permit Extended</td>
<td>2019</td>
<td>34</td>
<td>5</td>
<td>29</td>
<td>29</td>
<td>97</td>
</tr>
<tr>
<td>Permit Canceled</td>
<td>2019</td>
<td>202</td>
<td>242</td>
<td>245</td>
<td>232</td>
<td>921</td>
</tr>
<tr>
<td>Well Constructed</td>
<td>2019</td>
<td>149</td>
<td>182</td>
<td>204</td>
<td>112</td>
<td>647</td>
</tr>
<tr>
<td>Well Constructed Recd</td>
<td>2019</td>
<td>85</td>
<td>144</td>
<td>122</td>
<td>97</td>
<td>448</td>
</tr>
<tr>
<td>Geothermal Use Permits Issued</td>
<td>2019</td>
<td>611</td>
<td>515</td>
<td>750</td>
<td>545</td>
<td>2421</td>
</tr>
<tr>
<td>Geothermal Use Permits Issued</td>
<td>2019</td>
<td>35</td>
<td>3</td>
<td>28</td>
<td>30</td>
<td>96</td>
</tr>
<tr>
<td>Monitoring Hole Notices Issued</td>
<td>2019</td>
<td>34</td>
<td>5</td>
<td>29</td>
<td>29</td>
<td>97</td>
</tr>
<tr>
<td>Permit Extended</td>
<td>2019</td>
<td>34</td>
<td>5</td>
<td>29</td>
<td>29</td>
<td>97</td>
</tr>
<tr>
<td>Permit Canceled</td>
<td>2019</td>
<td>149</td>
<td>144</td>
<td>239</td>
<td>170</td>
<td>702</td>
</tr>
<tr>
<td>Well Plugged and Abandoned</td>
<td>2019</td>
<td>268</td>
<td>183</td>
<td>388</td>
<td>264</td>
<td>1103</td>
</tr>
</tbody>
</table>

---

**Ground Water Discharge Permitting**

The BOE adopted Policy 2020-3 entitled Short-Term Discharge to Groundwater from Water Well Activities at the February 3, 2020 meeting. To help contractors identify areas of concern, DWR added a layer entitled “Potentially Contaminated Groundwater Locations” to their Mapviewer online application. The Mapviewer layer links to the CDPHE and Oil & Public Safety sites for more information regarding contamination at a particular location by clicking on a polygon or point. For contaminated groundwater locations that are shown as points, the full extent of contamination is not shown on the map; contractors may need to reach out to CDPHE for more information if they are near a potentially contaminated location.

*(TWG Report Continued on page 19)*
DRILLER AND/OR PUMP INSTALLER APPRENTICESHIP PROGRAM

The Colorado Water Well Contractors Association Apprenticeship Program is a voluntary program for CWWCA members, developed to assist individuals that would like to obtain a water well driller license and/or a pump installation license in the state of Colorado. Records will be kept by the CWWCA and available to the applicant to provide proof of experience to the Board of Examiners (BOE) during the license application process.

By the end of each year of apprenticeship the apprentice must attain two continuing education hours. At the end of the apprenticeship, the apprentice must comply with the existing rules for continuing education as set forth in the BOE Rules 2 CCR 402-14 concerning continuing education to obtain a driller’s and/or pump installer’s license. A Continuing Education Form (similar to the one provided to the licensed contractors by the State during the renewal process each year) will be provided to the apprentice at the end of each calendar year so the CE’s earned can be documented.

For full information on this and other CWWCA educational opportunities, go to cwwca.org and look under education.
Type I Aquifer Determinations

There have been some communication challenges between contractors and the DWR, particularly regarding Type I aquifer determinations. While the definition of a Type I aquifer changed in 1996 and again in 2000, it has remained consistent since that time. However, the BOE has increased focus on which aquifers are Type I, which has altered construction standards. The DWR has noticed an increase in improper well construction as a result. While contractors are not required to provide the aquifer name for certain well types (exempt wells outside the Denver Basin and specific types of fee wells), doing so allows the DWR to provide geologic information regarding aquifer type and aquifer depth that can assist drilling projects. This is a time-consuming exercise completed by DWR staff that can provide a lot of value to contractors. However, Rule 10.1.2 of the Rules and Regulations for Water Well Construction, Pump Installation, Cistern Installation, and Monitoring and Observation Hole/Well Construction states that a driller must become familiar with unit they are drilling – responsibility lies with the contractor per the Rules.

To help address uncertainty regarding the Dakota and Laramie-Fox Hills aquifers, the DWR has put together two memos that provide well construction guidance for these locations. The DWR memos can be found in the pages following this recap.

Contractors have noted that the timeliness and consistency of communication from the DWR can influence cost estimates and efficiency of well projects. The following link is the best way to request information from the DWR Hydrogeology group: https://dwr.state.co.us/Portal/dwr/AskDWR?topicNum=11

Future Topics
DWR Update
Type I Aquifer Determinations

Respectfully submitted by John Shuler

DON'T FORGET!
OUR BUCK LIVELY SCHOLARSHIP PROGRAM IS NOW A 501(c)(3).
SO, CASH DONATIONS AT THE ANNUAL CONFERENCE BUCK LIVELY SCHOLARSHIP AUCTION, ARE TAX DEDUCTIBLE!
February 4, 2019

Construction of Wells in the Dakota Group Aquifer

The Dakota Group aquifer (includes Cheyenne and Purgatoire aquifers as used in this letter) is present along the Front Range, throughout the Eastern Plains, and in various areas on the Western Slope (see Colorado Groundwater Atlas Figure 6.8-7). It exists at the surface along the Front Range on the western margin of the Denver Basin and covers much of the area in southeastern Colorado south of the Arkansas River. The Dakota Group aquifer is also present at depth over much of the rest of the area, which can lead to difficulties in determining the aquifer type and required construction practices. Depending on the geologic framework, the Dakota Group aquifer could be considered a Type II (unconfined bedrock), Type I (penetrating a single confining layer), or Type I (penetrating multiple confining layers). In southeastern Colorado, where it is most widely developed, the Dakota can be the shallow-most aquifer at the surface or be found below one or more aquifers; including the Greenhorn Limestone, the Codell Sandstone, and the Fort Hays Limestone, regardless of whether or not they are fully-saturated or produce significant quantities of water to wells.

It is the responsibility of the licensed well contractor (Rule 10.1.2) to familiarize themselves with all conditions that may exist at the well location; including the geology of potential aquifers, confining layers, and anticipated water quality problems. If you are contracted to complete a well in the Dakota aquifer, you are required to comply with the applicable Construction Rules, whether or not the conditions of the permit specify the Dakota aquifer (or its interval). As previously stated, wells in the Dakota aquifer could be Type II, Type I (single confining unit), or Type I (multiple confining units) in the areas identified above. As such, the licensed contractor must be aware of the aquifer type and construct the well accordingly. This purpose of this letter is not to enact new Well Construction Rules but rather to reinforce existing Rules.

In the event a permit application identifies the Dakota as the proposed aquifer, staff from the Hydrogeology Section will determine the estimated depth and thickness of the aquifer, as well as identify the aquifer type and relevant construction rules. Copies of these evaluations are added to the permit file, while the aquifer depth intervals and construction requirements are added to the permit as notes. However, most permits for Dakota wells do not get this review because the applications do not identify the target aquifer. Permit staff have only recently started adding these permit notes even when the permit does not identify the aquifer into which the well must be completed. We would like to bring this to the attention of the contractors to prevent any violations of the Construction Rules. Furthermore, limiting the production of a well to a single aquifer and applying the techniques required by Rules 10.4.5.1, 10.4.5.2, or 10.4.6 as appropriate are the responsibility of the licensed water well contractor. If you know the Dakota will be the source of water for a proposed well, we encourage drillers to indicate this on the well application so that estimated depths can be added to the permit.
Since the Well Construction Rules were adopted on September 1, 2016, the Board of Examiners has filed allegations of incorrect well construction techniques and received complaints about other improperly constructed wells. Accordingly, the Board of Examiners has recently taken a renewed interest in evaluating well construction reports to ensure overlying aquifers are appropriately identified on lithologic logs and that wells are constructed in accordance with the appropriate well construction rules. Please be aware that wells in the Dakota aquifer, particularly in Water Division 2, will be closely reviewed.

Douglas Stephenson
Chief Well Inspector
Hydrogeology Section
douglas.stephenson@state.co.us

Helpful references

Colorado Geological Survey County-based Geologic Maps:

Chaffee County  Douglas County  Mesa County  Park County


Romero, J.C. and VanSlyke, G.D. The Dakota and Cheyenne Aquifers in the Cheyenne Wells - Las Animas Region, Colorado. DWR WRI-94-1. Direct Download


1:250,000 Geologic Quad Maps
Trinidad, https://ngmdb.usgs.gov/Prodesc/proddesc_9346.htm
La Junta, https://ngmdb.usgs.gov/Prodesc/proddesc_9348.htm

(Dakota Aquifer Map Continued on page 22)
Dakota Aquifer Map (Continued from page 23)

DAKOTA AQUIFER

Approximate Geographic Extent of the Laramie-Fox Hills Aquifer (Cheyenne Basin)

Denver Basin Aquifers

Laramie-Fox Hills Aquifer in Northern Colorado

Legend
- Arapahoe Aquifer
- Laramie Formation
- Laramie-Fox Hills Aquifer (Denver Basin)
- Appx. Extent Laramie-Fox Hills Aquifer

Sources: Enviros, Inc.; GSI; Geosyntec; USGS; AECOM; INCREMENT P; NRCan; Eni; Japan; METI; ERI; China; Hong Kong; Eni Korea; Elin; Trinergy; NGC. © OpenStreetMap contributors, and the GIS User Community.
April 11, 2018

RE: Construction of Wells in the Laramie Fox Hills Aquifer (2 CCR 402-2, Rule 10.4.8)

A permit application was received by our office that requested a depth of 800 ft for a well to be constructed east of Wellington. An aquifer determination was conducted by staff and it was determined that the well would be completed in the Laramie-Fox Hills aquifer (LFH). A note was added to the permit conditions indicating a well completed at this depth would likely be completed in the Laramie-Fox Hills aquifer and should be constructed pursuant to Rule 10.4.8. Permit staff have only recently started adding these permit notes even though the permit does not restrict the aquifer into which the well can be completed. We would like to bring this to the attention of the contractors to prevent any violations of the Construction Rules.

The Laramie-Fox Hills aquifer is present in locations outside of the Denver Basin, in particular to the north and east of Greeley in the Cheyenne Basin. Wells constructed into the LFH aquifer must comply with Rule 10.4.8. requiring steel casing and grout from the top of the production zone to the top of the well. If you are completing a bedrock well it is also the responsibility of the contractor (Rule 10.1.2) to familiarize themselves with all conditions that may exist at the well location. Regardless of whether the permit has been conditioned for construction into the LFH aquifer, if you are contracted to construct a well in a location that falls within the aquifer boundary (see attached map) you are required to comply with the applicable Construction Rules. Obviously, not all wells in this area will be completed in a Type I or LFH aquifer, but if you complete the well in bedrock you must know which aquifer type it is and construct appropriately.

Staff has also determined the potential for wells to be completed in multiple aquifers in the area of concern. Type I with multiple confining layers are a real possibility. Do your research before bidding any wells. The Construction Rules are in place to protect the consumer and contractors.

Douglas Stephenson
Chief Well Inspector
Hydrogeology Section
douglas.stephenson@state.co.us
S4,000 - S35,000 SEMCO Pump Hoists

Ask about our biggest SEMCO Pump Hoist yet!!! NEW SEMCO S35,000

We have 11 different sizes for your well working needs. Personal or Company Use, Residential and Commerical.

HYDRORENCH
S14H, S110H, S112H

PIPE ELEVATORS
Standard 1"-6"
Heavy Duty 6"-16"

J&K KWIK KLAMPS
1"-2" and 2-1/2"-4"
Board of Examiners (BOE) Report
By John O’Brien

The BOE has been very busy lately. During their February 3rd meeting they passed three new policies:

<table>
<thead>
<tr>
<th>Policy Number</th>
<th>Title</th>
<th>Effective Date</th>
<th>Date Revoked</th>
<th>Link to Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020-3</td>
<td>Short-Term Discharges to Groundwater from Water Well Activities</td>
<td>2/3/2020</td>
<td></td>
<td>BOE Policy 2020-3</td>
</tr>
<tr>
<td>2020-1</td>
<td>Defining High Risk Wells and Key Phases of Well Construction</td>
<td>2/3/2020</td>
<td></td>
<td>BOE Policy 2020-1</td>
</tr>
</tbody>
</table>

It is important, that you take the time to read and understand these policies for yourself, as they will affect you.

Two of these policies are a result of the well inspection program audit. Below is a link to that audit for your review:

Unfortunately, as most of you know the audit did not look kindly on the current well inspection program. The policies were created to address some of the audits concerns. However, the CWWCA Board of Directors did not agree with all of audits recommendations, so the new policy is a powerful compromise. The board and staff took the time to include the contractors, after back and forth and considering comments and recommendations from the contractors, the approved versions were created. I would like to thank both the BOE and the DWR for all the time and thoughtful consideration they all put forth in this process. Most of all, I am in great appreciation to the staff and the board for addressing concerns of contractors and making a good faith effort to help make these policies work for all of us.

(BOE Report Continued on page 27)
PROVIDING INNOVATIVE SOLUTIONS FOR PROFESSIONAL WATER WELL CONTRACTORS SINCE 1890

CPS Distributors has partnered with the most innovative manufacturers in the industry to provide you with the quality products you need at the right price.

Visit CPSdistributors.com for a list of training classes and events near you. Your time matters! Shop online 24/7 at Shop.CPSdistributors.com

For more information contact us at:
Pumps@cpsdistributors.com
800-289-2777
Board of Examiners (BOE) Report
By John O’Brien

The May meeting was much more uneventful; however, we were able to bring it up to the boards attention that, “The contractors may be unable to get the CE’s required to renew their license under rule 8.1.D”. The board and staff came up with a temporary solution, however, it required an emergency temporary rule making meeting. The meeting was convened at 10 am on May 18th and the board adopted a temporary rule to allow contractors to receive credit for on-line classes to meet all the required CE’s, not just the four hours normally allowed. All the classes will still have to go through the standard approval process and get approval prior to the contractors taking the class. Due to legal limitations on temporary rulemaking this rule will expire on September 15, 2020 and it is doubtful if it will or can be renewed for an additional 120 days. If you need on-line classes the CWWCA will be offering its Mid-Year Conference classes 100% online. Get your CEU’s before September 15th!

The exact verbiage of the rule is:

“Temporary Rule Change 8.1.d. Notwithstanding Rule 8.1.b, due to significant limitations on the ability of people to meet in person due to the COVID-19 pandemic in 2020, all hours of accredited continuing education taken by internet or online participation from January 1, 2020, through September 15, 2020, may be used to obtain the required hours of continuing education. The limits in Rule 8.1.c will continue to apply. This is a temporary emergency rule enacted pursuant to section 24-4-103(6), C.”

It is important that we all stay abreast of the rule and policy changes that affect our livelihoods, and I am honored to be the current liaison for the Water Well Contractor Association to The Board of Examiners. If you have any question or comments please feel free to contact me.

Sincerely,
John O’Brien
CWWCA Board of directors
Pump Installer At Large
John@waterwell.cc
303-442-1911
Our business is all about helping our customers be more successful. From personalized technical training to in-depth product expertise, we believe in the power of industry knowledge and top-notch programs. We’re well equipped to help our contractors gain a modern edge.

**OUR SERVICES**
- Extensive Inventory
- Training & Support
- Expert In-House Build Center
- Delivery Service
- Loyalty Programs
I would like to start out by saying that this article is my opinion based on what I do know. The world as we know it has changed in the last month or two due to the COVID-19 virus. We are fortunately considered an essential business and can work when others have not been able to. As most of you know I have two jobs, one in the water well industry and the other in emergency medicine. Through all of this I have been able to continue to do both jobs. I have seen changes in both due to restrictions that have been put on us by the government as well as a common sense approach to personal safety.

I’m not here to talk about conspiracy theories or to bad mouth anyone. The one thing I would like to state though is that although the death rate is actually pretty low, there are healthy people who are dying from this. I am not living in fear of this, but I am respecting what it is capable of doing.

What I want to talk about today is steps that we can take to personally protect ourselves. I have stated to some of my coworkers in EMS that some of the changes we have made have been long overdue and we should continue to do a lot of these things even when this pandemic is officially declared over. Will COVID-19 ever truly disappear, I do not believe so. We have to look at the past to realize these never go away, we just learn to deal with them.

What can we do to protect ourselves? For starters, I believe that you need to do whatever is most comfortable for you. If you feel that wearing a mask and gloves everywhere you go is the answer, by all means do it. We shouldn’t worry about what others are doing as much as what we can do to protect ourselves. There are multiple levels of PPE available from simple masks and gloves to full Tyvek suits with respirators. Which I would like to add, are not that fun to wear. I don’t believe these are necessary unless we know for a fact that they have it. Other things we can do to protect ourselves is good personal hygiene, including frequent hand washing. The new term they like to use is social distancing. If you are around someone who has been sick, has a fever and is coughing I recommend wearing a mask and keeping your distance. We have for years emphasized proper disinfection so this concept should not come new to us. The best advice I can give is to just use common sense.

Although right now the emphasis has been on COVID-19, there are many other diseases we should be aware of such as influenza and Tuberculosis. The steps we are taking now should be part of the new normal for us. I am not an advocate of long term mask usage due to us rebreathing our own CO2. I don’t know if I’ve answered any questions you may have but as always, feel free to contact me with any questions you may have and if I don’t know the answer, I will try to get you one.

Take care and stay safe.
Courtney Beeman

As I am continuing in my second year at San Juan College, I feel as if I know more about what I want to do with my future than I did last year. I have continued as a member of the executive board for the National Society of Leadership and Success. As I have stated in my progress report, my position on the board has allowed me to learn more about my leadership skills and grow personally. I have felt more comfortable this past year to network and to advocate for myself when necessary, things I would not have done last year. With this growth has come more reflecting on what my educational and career goals are and how to realistically achieve them.

I have continued working on my business administration degree and am focusing more on marketing as a potential career route. I hope to transfer to a four-year college after graduating with my associates in business administration and pursue a degree in marketing. In order to strengthen my knowledge and my experience in marketing I would like to intern with a local marketing firm over the summer. As far as my career goals go, I do wish to open my own business eventually. I know that this will take time and I would have to build up a loyal clientele base first, so I would like to start out at an experienced firm and work my way up.

My short-term educational goals include finishing this semester with a 4.0 GPA and planning my classes so I can graduate by fall of 2020. Long-term, I would like to become president of the National Society of Leadership and Success and to know which school I would like to transfer to after graduating. Overall, I wish to graduate with no student debt and to increase my knowledge in the business world to ensure a good career in whatever field I choose. By receiving this scholarship I am able to focus more on my academics and reach my goals.

Brendan Bottrell

My goals for my career haven’t really changed since the last round of this scholarship application. I am currently enrolled at AMDA College and conservatory of the performing arts studying to be an actor. My main goal is not to find fame and fortune, but instead to be able to make a living in the entertainment industry, which has plenty of space for professional working actors. The more that I study the more I realize that I don’t want to end up finding some niche in this industry in which to work, because all of it has such interest to me. That said, I’ve begun to spend more and more time with classical material such as Shakespeare and Sophocles. I have found that I enjoy it and have kind of a knack for understanding the language. Many people on the same path as myself don’t like working with this type of material but there are live productions of these shows being done all the time here in Los Angeles. Because of this I think that it’s an area that I can compete in incredibly well upon graduation. It would also be an opportunity for me to spend more time on stage, which is the part of acting that appealed to me so much in the first place. I still love to work on camera, but there is just something about being on stage and feeling the energy of both the cast and the audience throughout a production night after night.

Joel George

Like all things complicated, the pursuit of a higher education can alternatively invite and repulse. A diploma, a piece of paper representing the wild siren song of endless potential accompanied with a murk of uncertainty, much like a flame that both flares and burns. However, it is through my ardent path and undaunted character that have led me to seek a degree in Finance and a vocation within the realm of business.

In cultivating proficiency in the business domain, I would be able to fade from the face of un-
employment, obtain sufficient financial emolu-
ment, and construct a life promoted with purpose.
The fundamental aspiration of college institutions
is largely centered around the opportunity for stu-
dents to grow personally and conceptually in cre-
dence that one shall be ushered in some sector
of the marketplace expeditiously. Through this
disposition, I shall fortify my knowledge and
demonstrate my capacity on a globally recog-
nized scale. To proclaim that I am not one who
values the raptures life has to offer, particularly in
a time of staggering opulent advancement, would
have me deemed nothing short than mendacious.
However, my drive and pursuit towards a higher
education within the realm of business and fi-
nance is due to a far more cardinal incentive. A
sense of societal identity, a tenet that there are
things far more important in one’s educational vo-
cation than individual advancement and obtaining
currency, a sense of duty to those around me,
and the conscious effort to plan my life around
my friends and family rather than around myself.
The potent realization that my parents didn’t sac-
rifice everything to give me something for me to
be nothing. There is a seed or sprig of divinity
within all individuals, when carefully tendered and
watered, can grow into something real and evi-
dent. It is one’s duty to nurture that sprig until it
allows us to escape the tyranny of our context.
The prospect of reaching great heights excites
my curiosity, never arouses my dread. The un-
yielding belief that through a college education
and my degree in finance, I shall ignite an avidity
within to vanquish any obstacle and exercise all
of life’s mobilities.

In regard to the vision I possess, I seek to
accumulate a substantial clientele within the do-
main of investing, in which I shall be responsible
for executing trades in the market on behalf of
said clients. As a financial advisor I will utilize
my knowledge and expertise to construct personal-
ized financial plans that aim to achieve the finan-
cial goals of clients. These propositions include
not only investments, but consequently savings,
budgeting, insurance, and tax strategies. As a
solicitous, benevolent advisor, I would further be
obliged to check in with said clients on a regular
basis to re-evaluate their current situation and
future goals and plan accordingly, thus succoring
the verisimilitude of individuals dreams.

Brooklyn Harding

I’m blessed, through my upbringing, to
have a strong drive. The University of Denver
(DU) where I am a first year student is a very fast
paced intense learning environment requiring full
dedication. I love learning and helping others
learn. I’ve always worked hard to excel in school
which means having to put in extra time studying
and doing homework, which helped develop my
love for hard work. I then applied my hard work
ethic to everything I do, whether it’s academical-
ly, work, or volunteering.

Volunteering is something I continue to be
passionate about. I’ve always liked taking my
time to help others. I spent almost a year volun-
teeering at the Yuma Public Library. I started by
helping out copying papers or cutting things out
to prepare for the youth programs, then began
interacting with the kids in the reading programs.
I love helping children develop a passion for
reading and knowledge and plan to volunteer at
DU when normal classes resume.

I’ve always been strong willed person, one
of my strongest qualities that helps me be a good
leader. I’m not scared to take charge during
group activities or contribute my ideas. I listen to
others and always take their ideas into considera-
tion and test them out. I think leadership is about
putting in as much or more effort as everyone
else in the group, and encouraging everyone else
to put in their ideas. My leadership skills are
about believing in your ability to produce good
solutions but letting others develop their ideas as
much as your own, and inspiring them to do that.

(Buck Lively Scholarships’ Continued on page 32)
I have not settled on a major for college yet but plan to pursue a minor in Spanish and am leaning toward a major in Psychology. I am hopeful I will be able to use my education to continue to help those in my community, my state, and my country.

Reagan Nolin

Healthcare is a field of work that is always going to be needed and that has special meaning to me. I have spent time with family members while they are recovering from different ailments. All of these hospital stays have shown me how important it is to have quality care. In the future, I want to go to work and make a difference for the better in at least one person's life every day.

I am very excited to attend college next year because that pushes me one step closer to accomplishing my goal of becoming a pharmacist. Next year, I plan to attend the University of Colorado - Boulder. My reason for choosing this school is because of the amazing medical opportunities. I will be able to complete four years of my undergraduate classes in Boulder and receive a bachelor's degree in Chemistry and then apply to Pharmacy school. For the next four years, I will dedicate all my time to learning all I can about pharmacology.

With this education, I have limitless opportunities and fields I can specialize in. Right now, I am interested in becoming an oncology pharmacist because I have seen the pain a patient with cancer endures. If I can be someone who helps to better their treatments, care, and quality of life, then I will absolutely love going to work every single day. I have also looked into becoming a clinical research pharmacist. With this career, I would have the opportunity to discover what medicines are not very effective and find alternate treatments that will help patients.

Being an independent person, I am taking the initiative to pay for my schooling. Attending eight years of college to obtain my degree will become pricey. It may be difficult to afford professional school with a lack of scholarships. This is why I am working hard to earn as many scholarships as possible. Reducing the stress of money will allow me to fully focus on my schoolwork.

Anadelia Ortiz Madera

My name is Anadelia Ortiz Madera and I am currently a student at Morgan Community College. I am a Certified Nursing Assistant, Assistant Teacher, Phlebotomist and a Dental Assistant. I am committed towards an Associate of Applied Science. I plan on becoming a Radiologic Technologist and work in a hospital. I am the first one in my family to attend college which gives me a lot of advantages. Being the oldest in my family it is my responsibility to set a good role for my younger brothers. After I graduate college and become a Radiologic Technologist, I want to give back to my community by volunteering at hospitals and urgent care. Ever since I was a little girl, I felt the need to help others who were unable to do things for themselves, or ill. During my senior year of high school I got hired as a Nursing Assistant and as an Assistant Teacher in both jobs, I got the advantage of doing what I love, which is helping others. My relevance to the groundwater industry is that groundwater is the most important natural resource which many people use as a public supply.

Luke O'Brien

Growing up, I always had a strong fascination with technology, and the goals I hold today still reflect that. When I was young, all you had to do to entertain me was give me a flashlight: hours would fly by if I had a flashlight. As the years went by, I developed a strong passion for computers and electronics. I wanted to learn how they worked and how to use them to their fullest extent. When I got to high school it was no big surprise that I quickly made my way into
Computer Science classes. Through those classes, I achieved many things. I lettered in Computer Science and was inducted into The National Technical Honor Society. I received enough recognition in my field to be invited to join the Colorado Computer Science Education Advisory Committee where the next oldest person was nearly double my own age. With all of that behind me, it made my goals clear to me. I wanted to go get my degree in a science that applies to nearly every field in the world. Computer Science can be found in things such as cars, phones, and yes, even the water industry. A personal example I have applying computer science to the water industry is when I helped my father, code a small Internet of Things device to measure and upload water output of a pump so anyone with access could view it anywhere. On my journey to my degree, I look forward to learning everything I can about the different fields of Computer Science. Learning about this field is something I plan on doing for my entire life, and I look forward to it.

Isha Singh

Coming out of high school I knew that I wanted to go into the medical field. Granted, at the time I was naïve for thinking that it was just that simple. Now that I have talked to a variety of people in the field, I have come to know that there is no right way to do anything and there is definitely no formula to follow. Everything depends on the person and the path they decide to take.

I chose biochemistry specifically to check off all the boxes needed for prerequisites, but now that I have taken more classes for the major I genuinely believe that it was the best choice I could have made. I’m even looking into undergraduate research, which hopefully will continue once campus reopens for everyone.

In order to show some sort of individuality in the wave of applications I decided to continue taking German language and cultural studies and I enjoy taking other classes in the humanities when my schedule allows it. I knew that my consistency regarding all the STEM classes and extracurriculars I did during high school set me on the path for success for the prerequisites for medical school. However, the health advisor’s emphasis on showing individuality in the application pool is something no one mentioned early on.

Regarding career goals, I’d like to join the Medical Corps in the distant future. There are a variety of specialties you can pursue once out of medical school. I’ve also had the opportunity to talk to recruiters as well as a retired neurologist in regards to the best path for me, and so far this has been the most appealing.

Mattie Wiedorn

My education goals are centered around medical sciences. In junior and senior year of high school I was enrolled in Medical Sciences I/Anatomy and Physiology and Basic EMT Training/Pathophysiology with the Bollman Technical Education Center. I was so enamored by the medical field and decided to focus my educational goals on health and medicine. This fascination only strengthened within my classes. While I was at Bollman I had become a member of the Health Occupations for Students of America (HOSA), an organization that strengthens a student’s interest in the medical field by holding state competitions for different categories within the medical field as well as informational panels, fellowship opportunities, and medical schools. My membership in this organization led to me to develop an interest in epidemiology, the study of epidemics, a type of laboratory science that collects data on the spread of a disease to determine who is more at risk, how it spreads, where it thrives, and how it can be prevented.

Currently I am in my second semester of freshman year at the University of Colorado at
Colorado Springs pursuing my Bachelor’s in Biology and completing required courses for the Pre-Medicine program. I finished my first semester with a 4.0 GPA and made the President’s list while maintaining a part-time job on campus. I plan to continue excelling in my courses and finish my pre-requisites to enter a medical school in Colorado to study laboratory sciences and enter a career in epidemiology.

Megan Young
The last three years I have spent setting goals and achieving them. Education is still my number one priority and I am so thankful to have countless opportunities being a college student. I am still an Agriculture Business Major and am more than half way through my degree. I obtained my Associates Degree, May of 2019 from Northeastern Junior College in Sterling; CO. Receiving my associates degree was just the beginning of the goals I had set for myself. I then transferred to West Texas A&M in the fall of 2019. It was an adjustment coming to a university, but I am proud that I made that decision. I strive to learn more about our world and the Agriculture Industry day in and day out. I have met people from the community, classmates and professors who want nothing but success from me, and those people have helped with my educational goals the most. I have learned that it is okay to fail, as long as you get up and try again. I have also learned that asking for help does not make you weak; it shows professors that you care. I am still passionate about water and try my best to educate those around me about water conservation. I made an impact on my classmates and professors at my previous college and I know I will continue making that impact at West Texas A&M.

I have learned that setting goals and achieving them makes my serotonin levels increase. Therefore, I try my hardest with everything I do just to receive more serotonin. Achieving goals makes people feel better, no matter how big or small. My goal, as of right now, is to look for internships for the fall of 2020. I have already met with some business owners and feel confident that I will get an internship. My other goal is to finish strong this spring semester. I will be a senior in the fall, which does not seem real. My future goal would be to work for the USDA. I am ecstatic about the USDA and have already talked to numerous employees who work for USDA. It is not always about what you know; it’s about who you know. My education has already paid off because when someone is uneducated about agriculture, I try me hardest to educate them. I am beyond blessed with what my education has offered me. I thank each and every one of you members of the CWWCA Buck Lively Scholarship Fund. The financial support I have received the past two years goes unmatched, and I am internally grateful for that.

******************************************************************************

DON’T FORGET!
OUR BUCK LIVELY SCHOLARSHIP PROGRAM IS NOW A 501(c)(3).
SO, CASH DONATIONS AT THE ANNUAL CONFERENCE BUCK LIVELY SCHOLARSHIP AUCTION, ARE TAX DEDUCTIBLE!

the DRILLSTEM SUMMER 2020
Power Line Safety
Avoid shock from above-ground and underground cables

Each year, water well employees are hurt on the job because they fail to be cautious when working near power lines. Electricity—whether above-ground or underground—is a powerful force, and using caution is the best way to avoid injury or death.

Risky Activities
You are especially at risk of coming into contact with live cables overhead and underground when you are using hand tools, cutting into service ducts, trenching and using tools such as mechanical excavators, jackhammers or concrete saws.

Safety Tips
Follow these safe digging practices to avoid the risk of electric shock or risk of damage to very expensive equipment:

• Always assume there are more cables present than have been located. In other words, dig with care even when you’ve used the One Call system to locate underground lines and cables.

• Do not use hand-held power tools or excavators close to underground cables.

• Before using a drill rig in the vicinity of cables, dig trial holes using hand tools to verify the position and depth of buried cables.

• Always use insulated hand tools, especially when digging near cables; HOWEVER, note that even insulated hand tools that are covered in dirt or debris can become conductors of electricity.

• Wear the proper personal protective equipment (PPE)—including gloves—to give added protection against shock.

• Treat any cable you find as a live cable until proven otherwise.

• When cables are exposed while digging, take protective measures to ensure they do not become damaged during the course of your work. Achieve this by covering the exposure with items such as timber boarding or sand bags.

Emergency Procedures
Talk with your employer or supervisor about the proper emergency procedures in case of accidental contact with live underground power lines.

Be safe and healthy on the job at with these helpful tips provided by AssuredPartners.

If you have enough personnel on-site, consider assigning someone to the role of safety watcher, responsible for making sure nothing comes into unsafe contact with above-ground OR underground power lines.
CWWCA 2020 COMMITTEES

**APPRENTICESHIP PROGRAM**
Chair: Fred Rothauge - 303.857.7540  
Joel Canfield - 970.867.2943  
Mike Wiedorn - 303.549.1945

**AUCTION**
Chair: Vicki Wagner - 970.848.3846  
John O'Brien - 303.442.1911  
Bryan Beckner - 970.332.5834

**AWARDS**
Chair: Fred Rothauge - 303.857.7540

**CONFERENCE COMMITTEE**
Chair: Terrie Baros - 719.859.1148  
Fred Rothauge - 303.857.7540  
Eugene Wagner - 970.848.3846  
Vicki Wagner - 970.848.3846  
Mike Wiedorn - 303.549.1945  
Tom Harder - 719.572.5251

**CONTINUING EDUCATION**
Eugene Wagner - 970.848.3846

**FINANCIAL OVERSIGHT**
Chair: Travis Day - 970-321-2051  
Fred Rothauge - 303.857.7540  
Joel Canfield - 970.867.2943  
Mike Temple - 303.670.3348

**LEGISLATIVE**
Chair: Joe Meigs - 303.968.6244  
Mike Temple - 303.670.3348

**LIAISON WITH BOE AND DWR**
Chair: John O'Brien - 303.442.1911  
Joel Canfield - 970.867.2943

**LOBBYIST**
Richard Brown  
Mobile: 303.601.9254  
Phone: 303.695.6388  
e-mail: dickscuba@gmail.com

**MEMBERSHIP**
CWWCA Board of Directors

**MOUNTAIN STATES**
Chair: George Wood - 303.688.6462  
Fred Rothauge - 303.857.7540

**NGWA**
Chair: Fred Rothauge - 303.857.7540  
Brad Himes - 970.245.2275

**PROGRAM**
Chair: Fred Rothauge - 303.857.7540  
Brad Himes - 970.245.2275  
Eugene Wagner - 970.848.3846  
Tom Harder - 719.572.5251

**PUBLIC RELATIONS**
The Drillstem, Website  
Chair: Dan Niemela - 303.806.8952

**SCHOLARSHIP**
Chair: Eugene Wagner - 970.848.3846  
Joel Canfield - 970.867.2943  
John O'Brien - 303.442.1911

**SPouse**
Vicki Wagner - 970.848.3846

**SUPPLIER**
Chair: Tom Harder - 719.572.5251  
Mike Wiedorn - 303.549.1945

**TECHNICAL WORKING GROUP**
Chair: Dan Niemela - 303.806.8952  
John O'Brien - 303.442.1911  
Mike Temple - 303.670.3348  
Larry Finney - 719.275.9525  
Bryan Beckner - 970.332.5834  
Travis Day - 970-321-2051  
Eugene Wagner - 970.848.3846  
Bruce Hier - 303.688.3012  
Joe Meigs - 303.968.6244  
Fred Rothauge - 303.857.7540

**WATER WELL CONSTRUCTION RULES**
Chair: Fred Rothauge - 303.857.7540  
Mike Temple - 303.670.3348  
Joe Meigs - 303.968.6244  
Bryan Beckner - 970.332.5834

**501(c)(3)**
Chair: John O'Brien - 303.442.1911  
Eugene Wagner - 970.848.3846  
Joel Canfield - 970.867.2943  
Bryan Beckner - 970.332.5834  
Jason Fegel - 303.552.3772  
Vicki Wagner - 970.848.3846
2020 CWWCA MEMBERSHIP APPLICATION

Last Name ___________________________ First Name ___________________ Initial _____

Company Name ___________________________________________________________

Address ___________________________________________________________________

City ___________________ State __________ Zip Code _________________________

Telephone __________________ Fax ___________________

Cell __________________________ Email ____________________________

DO YOU WISH TO HAVE YOUR NAME LISTED ON THE WEB PAGE? YES ( ) NO ( )
LICENSE # __________________ (WE MUST HAVE THIS TO PLACE YOU ON THE WEB PAGE)
You Must Check yes or no otherwise we will assume that your answer is NO
PLEASE ENTER YOUR DISTRICT # ______

UPGRADE MEMBER LISTING ON WEBSITE $ 50.00 $ ___

PLEASE CHECK THE APPROPRIATE MEMBERSHIP CATEGORY

_____ 1. Drilling Contractor (owner or manager of a well drilling business) $198.00

_____ 2. Pump Installation Contractor (owner or manager of a pump installation business) $198.00

_____ 3. Drilling and Pump Installation Contractor (owner or manager of both businesses) $198.00

_____ 4. Associate (any person or firm engaged in the manufacturing or selling of equipment services for the water well industry) $198.00

_____ 5. Technical (an hydrologist, geologist or engineer involved in teaching, research, consulting or government services concerned with the ground water industry) $ 115.00

_____ 6. Retired (retired members wishing to retain membership privileges) $ 50.00

_____ 7. Affiliate (professionals having an interest in the water well industry) $ 50.00

_____ 8. Employees (employees of paid members---$60.00 each employee)

**** Please list name and address of each employee at the top of the page $ 60.00

_____ 9. Student $ 20.00

The CWWCA Buck Lively Scholarship Fund is recognized as tax-exempt under IRS Code Section 501(c)(3). VOLUNTARY DONATIONS to this organization are tax deductible as a charitable contribution to the full extent permitted by law.

THANK YOU FOR YOUR TAX EXEMPT SCHOLARSHIP DONATION $ _____

CREDIT CARD CONVENIENCE FEE $7.00

TOTAL $ ___

$15 of your CWWCA dues is applied towards lobbying efforts on your behalf. The $15.00 is NOT tax deductible.

Method of Payment

Credit Card _______ VISA _______ MASTER CARD _______ DISCOVER _______ AMEX

Credit Card # ________________________ Expiration Date __________ CCV ______

Name and Billing Address on Card __________________________________________

Check # __________________________ Amount ____________________________

Please return your remittance and completed Membership Form to:

CWWCA 3000 South Jamaica Court Suite 145, Aurora, CO 80014

Phone: 720-244-8024 Email: execdir@cwwca.org
CWWCA 2020

BOARD OF DIRECTORS

PRESIDENT
Joel Canfield     District 5
Canfield Drilling Company
P.O. Box 519
Fort Morgan, CO 80701
Phone: 970.867.2943
Fax: 970.867.0313
e-mail: joelcanfield@canfielddrilling.com

VICE-PRESIDENT
Eugene Wagner     District 6
Quality Irrigation, Inc.
P.O. Box 420
Yuma, CO 80759
Phone: 970.848.3846
Fax: 970.848.5115
e-mail: genew@qualityirrigation.com

SECRETARY-TREASURER
Travis Day     District 1
Water Pump Supply & Service, LLC
P.O. Box 24
Meeker, CO 81641
Phone: 970.321.2051
Fax: 970.878.0165
e-mail: wpps1999@gmail.com

PAST PRESIDENT
Fred Rothauge     District 5
Hydro Resources Rocky Mountain, Inc.
13027 CR 18
Fort Lupton, CO 80621
Phone: 303.857.7540
Fax: 303.857.3826
e-mail: frothauge@hydroresources.com

DIRECTORS
Peter Berglund     District 1
Arrow Drilling Company
2127 Elderberry Rd
Golden, CO 80401
Phone: 303.421.8766
e-mail: arrowdrilling@gmail.com

Brad Himes     District 2
Artesian Services Inc
PO Box 3202
Grand Junction, CO 81502
Phone: 970.245.2275
e-mail: brad@artesianservices.com

Bruce Hier     District 3
Hier Drilling Company
P.O. Box 250
Castle Rock, CO 80104
Phone: 303.688.3012
Fax: 303.660.0327
e-mail: bhhier@msn.com

Larry Finney     District 4
Finney Drilling and Excavating
2205 N. 5th St.
Cañon City, CO 81212
Phone: 719.371.0396
Fax: 719.275.7685
e-mail: larry.finney@bresnan.net

John Taylor     District 5
Hydro Resources Rocky Mountain, Inc
13027 CR 18, Unit C
Ft Lupton, CO 80621
Phone: 303.945.8752
Fax: 719.275.7685
e-mail: jtaylor@hydroresources.com

Mike Temple     District 6
GeoWater Services
P.O. Box 2224
Evergreen, CO 80438
Phone: 303.670.3348
Fax: 303.674.2849

DRILLER AT LARGE
Bryan Beckner
Wellstone Inc., LLC dba
Twiss & Wilson Drilling
36611 U.S. Highway 385
Wray, CO 80758
Phone: 970.332.5834
Fax: 970.332.5877
e-mail: bryan@wellstoneco.com
CWWCA 2020 BOARD OF DIRECTORS

PUMP INSTALLER AT LARGE
John O’Brien
Boulder Water Well
1901 S. 120th ST., Suite A
Lafayette, CO 80026
Phone: 303.552.3772
e-mail: john@waterwell.cc

SUPPLIER DIRECTORS
Mike Wiedorn
2M Company
3300 W 134th Ave
Broomfield, CO 80020
Phone: 303.5549-1945Fax: 303.320.4635
e-mail: mwiedorn@2mco.com

Tom Harder
Western Hydro Corp.
5610 Parachute Circle
Colorado Springs, CO 80916
Phone: 877.594.7259
Fax: 719.550.0966
e-mail: tharder@westernhydro.com

SPouse DIRECTOR
Vicki Wagner
P.O. Box 420
Yuma, CO 80759
Phone: 970.848.3846
e-mail: vkwagner@gmail.com

TECHNICAL DIRECTORS
Joe Meigs
Halcyon Consulting Group, LLC
3936 Simms St.
Wheat Ridge, CO 80033
Phone: 303.968.6244
e-mail: jvmeigs@comcast.net

Dan Niemela
Bishop-Brogden Associates
333 W. Hampden Ave. #1050
Englewood, CO 80110
Phone: 303.806.8952
Fax: 303.806.8953
e-mail: dniemela@bbawater.com

Hydro resources

- Drilling • Pumps • Geophysical Imaging
Well Rehabilitation Specialist

IRRIGATION, MUNICIPAL &
GEOTHERMAL WELL DRILLING

FIND YOUR BEST WATER ZONES
BEFORE YOU DRILL

CALL TODAY: (303) 857-7540
IMAGING: (800) 401-9092
WWW.HYDRORESOURCES.COM
LICENSED THROUGHOUT THE WESTERN U.S.
EXPERIENCE

CWWCA MID-YEAR VIRTUAL CONFERENCE!

FRIDAY, JULY 10, 2020 To SATURDAY JULY 11, 2020

DON’T MISS IT!