



Hole Talk

Spring 2021
Published Quarterly

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Mission

The ESWWDA is committed to taking a leadership role in protecting our natural resources through the promotion of the ground water industry. It strives to support a spirit of cooperation, communication, and education within the industry and with the consumers and regulatory agencies.

Visit www.nywelldriller.org

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2021

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Values

The Board of Directors and membership of E.S.W.W.D.A. believe in the promotion of the ground water industry through:

**Professional Standards • Communication
Education • Integrity • Affordability**

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80th Anniversary

This year marks the 80th anniversary of the Association. I do not think the founding members could have envisioned what the future has brought us. I would like to see what the response would be if we told **Ray Gordon** he had to “*click a link*” or “*join zoom*”. For anyone who doesn’t know, **Ray Gordon** was the first ESWWDA President way back in 1941. It is an honor for me to be added to the list of presidents that have served the industry since then.



challenges have stayed the same; rising costs of material, equipment, and labor shortages are something that every president has alluded to over the years.

Looking to the future, I see challenges coming as our industry shrinks. Not so much in workload, but I see a condensing of the workforce. With the rise of costs and reduction of labor, there are less able-bodies to perform the work

The year 2020 in particular has been a roller coaster of events, and 2021 does not look to disappoint either. At the time of this writing, the Covid vaccine is being given to those in need. Hopefully, we can get over this pandemic and look forward to normalcy once again. We recently held our Annual meeting online, as we have the past few meetings. I think we are all anxiously awaiting the time when we can gather and discuss things over some “beverages” again. I know I am.

While there are new challenges that we all have had to adapt to, mainly because of coronavirus, many of the

needed. I’ve stated before, as the previous generation steps aside, there has, and will continue to be, a condensing of the industry. Business challenges in general are hindering young people from establishing their own businesses. However, I think that this can be used to our advantage. *We need to work smarter, not harder, and insist that the customers work with us.* With a smaller contractor base to choose from, the customer will have fewer opportunities to find cheaper alternatives. We simply cannot waste time doing things for a customer that they should be providing for us; less mud-tracks, and more roads into our sites. That is not being selfish. None of us have enough free time to waste by making up for customers’ shortcomings. If you think a crane company is going to mud-track their equipment in, then setup on ground that the customer “thinks should work”, you are seriously mistaken. *Why are we any different?*

I also see the Association needing to adapt as things change. Membership will likely change with the number of drilling members decreasing. I feel there may be fewer members, and with that, it will be more important than ever for members to step forward and take positions on the board. The current board of directors is mostly comprised of individuals with drilling equipment. The Association’s name may have drilling in it, but groundwater is why we are all here. Pump installers are the face that a customer will see repeatedly. Once the well is drilled, many will never see the driller again. However, it is the years of recurring service that will determine the wellowner’s view toward a private well. *If you are in the service industry, your voice is equally as important as the drillers.* I would like to have some representation on the board from a service company, if possible. More government regulations will face us again in the near future, and if we are not properly prepared to defend ourselves as needed, it could have severe consequences for the industry.

I hope that everyone has a prosperous year ahead, and I look forward to getting past ‘everything coronavirus’ and seeing everyone in person as soon as we are able to!

President, Tyler Wills

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MEMBERSHIP REPORT
January 31, 2021

CATEGORY	TOTAL	PAID	UNPAID
Contractors	183	139	44
Suppliers/Manufacturers	49	23	26
Associates	78	56	22
	===	===	==
Total Members	310	218	92

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 Sandra Baldwin 518-396-9499
 Brian Frey 716-937-7977

Membership

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 William Frey 716-937-7977
 Chris Root 585-593-4309
 Dave Chugg 585-746-8055

Insurance & Safety

Chairman Analisa Jesco 888-869-3535
 Jeff Smith 518-758-6142
 Chuck Crover 845-783-9355

Government Affairs

Chairman Janice Hawk-Baldwin 518-885-7952
 Jeff Smith 518-758-6142

All Board of Directors

NEWWA

Chairman Henry Boyd 845-225-3196
 Julie Bullock 845-225-3196
 Alt. Jeff Smith 518-785-6142
 Rus Turnbull 845-406-0225

Liaisons to NGWA

Chairman Jeff Smith 518-758-6142
 Chris Root 585-593-4304
 Henry Boyd 845-225-3196
 Dave Rosick 518-746-0173

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 Bernie Kistner 845-473-1969
 Analisa Jesco 888-869-3535

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 Sue Bates 315-339-8960

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 Jeff Quinn 603-418-5625
 Dave Keough 845-258-7867

WSC

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 Rich Moravec 315-536-3911

ESWWDA & You ... A Smart Alliance

The industry is in an era of change. To understand the changes taking place and to lead the industry through its transitions, drillers need to access the best minds available - each other.

That's why your affiliation with the ESWWDA is a smart investment. It's an alliance of individual drillers that work for you and with you.

Your membership gives you access to programs and services specifically formulated for the professional growth and success of water well drillers and pump installers.



The association provides:

- **Educational programs in:** water well drilling, pump installation, general management.
- **Informative newsletter:** *Hole Talk* covers local, state and national issues and news.
- **Annual Tuition Scholarships**
- **A united voice:** ESWWDA speaks for drillers on issues of far-reaching impact.
- **A voice:** A vote on the direction ESWWDA takes.

Join or renew your membership and keep this powerful alliance alive! 

ESWWDA

Affiliate State Membership Application Empire State Water Well Drillers Association • Organized 1941

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Date: _____

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Work Phone: _____

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Cell Phone: _____

County: _____

FAX: _____

Business Name: _____

E-mail: _____

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National Member Yes ____ No ____

Pump Installer \$125

CWD # _____

Supplier/Manufacturer \$125

CPI# _____

Associate Company Member \$25

NYS DEC Reg. #: _____

Sponsor: _____

Dues are NOT Tax Deductible

Mail application to: **Susan Bates, 900 N James Street, Rome, NY 13440** (checks payable to: **ESWWDA**)

Annual meeting of the Empire State Water Well Drillers' Association

Wednesday, January 20, 2021 at 9 a.m.

President Tyler Wills called the *annual meeting of the Empire State Water Well Drillers Association* to order at 9:10 a.m. on **January 20, 2021** with 22 members in attendance via Zoom.

A roll call of officers showed the following **Board members** to be in attendance:

Tyler Wills, *President*

Dave Rosick, *Vice President*

Jim Wild, *Past President*

Chuck Crover, *Secretary/Treasurer*

Julie Bullock, *Correspondence Manager*

Sue Bates, *Assistant Correspondence Manger*

William Frey, *Director*

Mike Palleschi, *Director*

Jeremy Baldwin, *Director*

Daniel Boyd, *Director*

Bernie Kistner, *Director*

Dave Keough, *Director*

Chuck Crover gave the treasurer's report to the membership. **David Rosick** made a motion to accept the report and **Jim Wild** seconded the motion. The membership approved the treasurer's report. *A copy of the report is available upon request.*

President Tyler Wills talked about how 2020 was a rollercoaster of new challenges both in our daily lives and in our businesses. He wondered what the founding members of the Association would have thought about Zoom, webinars, the cost of doing business, lack of help, etc. There are less of us but sometimes, we still feel the need to do favors instead of making our shrinking numbers work for us. Our membership will be changing with the influx of new pump and water treatment members. There are changes as an Association we might need to consider, such as longer Board terms and needing more member participation. There are a lot of things changing and hopefully 2021 will be good.

Communications: There was no communication currently.

Sickness & Health: **Julie Boyd** reported that **Daniel Farrell**, salesman for *D&S Pump and Supply* out of the Rhinebeck office died from Covid-19 complications. **Louis Cataffo** is recovering from a stroke. The Association would like to wish a speedy recovery to members and their families impacted by Covid-19.

Insurance: **Analisa Bastiani-Jesco** reported that if you are a sole proprietor and only have **Workers Compensation Coverage** for permitting purposes, or if you had employees previously and do

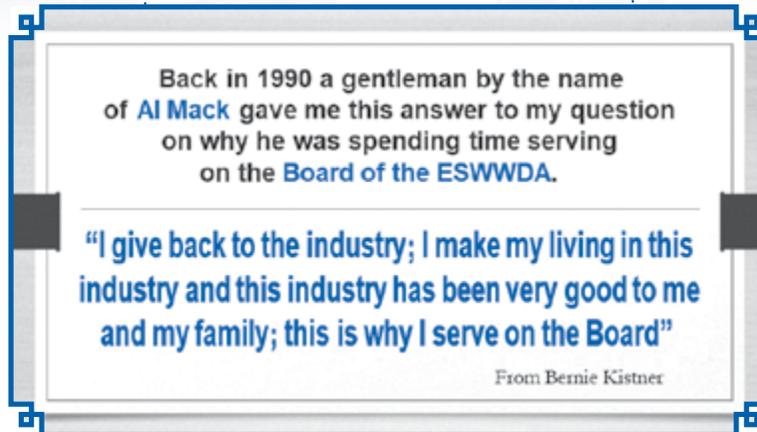
Scholarship: **David Rosick** stated that the Association had no new applicants and payments had been made to all current recipients.

Government Affairs: **Mark Glaser** did a PowerPoint presentation to the membership. The Legislature has just gone back in session and the Governor has presented his budget. This year is one of the largest freshman classes. The NYS Assembly remains solidly Democratic with 107 Democrats and 42 Republicans. The Speaker of the Assembly is **Carl Heastie**, and the Environmental Conservation Committee Chairman is **Steve Englebright**. There were a few

interesting changes in the Assembly membership. In the NYS Senate the Democrats added to their majority, now holding 2/3 of the seats with 43 Democrats and 20 Republicans. On the Senate side we should probably get to know **Senator Michelle Hinchey** from the 46th District. With the 2/3 majority being held in both the Senate and Assembly by Democrats,

there is a potential for override of the Governor's vetoes. The Senate Majority leader is **Andrea Stewart-Cousins**, and **Senator Kaminsky** remains chair of the Environmental Conservation Committee.

The 2020 session was almost completely dominated by Covid-19. It is likely that much of 2021 legislative session will continue to address Covid-19 related issues. The Governor released his proposed budget yesterday. The budget is heavily dependent on federal aid. The State has a \$46 Billion deficit. The Governor estimated the State needs \$15 Billion in aid from the federal government, but the budget is based on an assumption that the State will only receive \$6 Billion. The proposed budget proposes cuts (generally about



not currently have employees, or if you obtained a worker's compensation policy because you hire subcontractors and do NOT intend to cover yourself, you must have the sole proprietor exclusion added to your policy. If you do not have the exclusion and your policy is audited and there is no other payroll, the carrier can include you in the audit charge at the minimum payroll for executive officers, which is \$39k for 2020.

The form to add is **New York Sole Proprietors, Partners and Members of LLC's, PSLC's, RLLP's Exclusion Endorsement**" (WC 31 03 16 C).

Membership: **Sue Bates** reported that we have 311 members. 211 members have paid their dues and 100 members will be receiving a second invoice after this meeting.

ESWWDA Values

The Board of Directors and membership of E.S.W.W.D.A. believe in the promotion of the ground water industry through:

Professional Standards ◦ **Communication**
Education ◦ **Integrity** ◦ **Affordability**

5% from current spending) and tax increases on high earners (those earning over \$5 million per year) that would take effect if federal aid is \$6 billion. It is unclear what happens if the amount of federal aid is higher, but less than the \$15 billion he hopes for. The budget also includes a contingent plan if the full \$15 billion is provided. The primary commitment is to restore school aid.

Regarding well drilling legislation, last year **Senator Kaminsky** introduced **S.6349, DEC's "program bill"** on well drilling in late 2019. The bill did not move last session and as of now, has not been reintroduced in the 2021 session. We will continue to work with the legislature and the DEC on well drilling issues including those from the 2019 legislation. Senator Kaminsky reintroduced the "**Private Well Testing Act: (S.48)**" which requires testing of wells upon the sale of homes where water wells are the primary source of potable water among other things. The bill has not been reintroduced in the Assembly. This bill was developed and had been carried for years in the Assembly by **Assemblywoman Eileen Jaffee**. Assemblywoman Jaffee was defeated for reelection last November.

There was discussion on geothermal drillers from out-of-state coming in and that would be handled in S.6349. There was more discussion on well construction issues and **Department of Environmental Conservation (DEC)** cannot enforce since well construction falls under **Department of Health (DOH)** though DOH has no ability to fine. There appears to be a disconnection. This also involves incorrect information on the well logs that state incorrect casing depths. **Mark Glaser** said there is a need to discuss unified enforcement between DEC and DOH. During this time, the Association will be introducing ourselves to the new members and reacquainting ourselves

with the old guard. It was also brought up that nitrates/nitrites have been found in water supply after **DEC Division of Mining** has closed a permit even though **Environmental Assessment Form (EAF)** said there would be no impact to groundwater.

NEWWA: Henry Boyd reported that as we all know the 2020 Expo was cancelled and the 2021 Expo has also been rolled into 2022. The dates in 2022 will be March 11-12 in Marlborough, MA.

Education: The Association is asking member manufacturers to send **Julie (jewels2564@aol.com)** links to educational webinars and we will put a link on our website for members. It was asked if we could produce a webinar/zoom class for the pump installers. Currently, this option is on hold. If you need a copy of the class, please reach out to **Henry** or **Julie Boyd**.

NGWA: Scott King, Past President of NGWA, reported that NGWA is facing the same struggles as other trade associations. In 2020 NGWA had a virtual Expo. The **2021 Expo** will be held in Nashville. NGWA has launched a virtual university. Members are encouraged to look at the site and take advantage of the continuing education offerings. There will be no **Fly-in** this year.

WSC: There was no official report to be given at this time. **Richard Mest** from WSC had spoken at the last board of director's meeting regarding virtual educational meetings.

Hole Talk: Julie Boyd reported that the next deadline for **Hole Talk** is **February 1st**. We would like members to send in an old picture of their drill rig or themselves, to be printed in **Hole Talk**. We miss seeing all of you! You can send

content information, pictures or ideas to Julie at jewels2564@aol.com.

Public Information: Sue Bates announced that the last issue of **Hole Talk** posted on our website has click through ads. If you see an ad and want to know more about the company, just click on the ad and it will take you to their website. Please watch our **website** and **Facebook** page for any new updates.

DOT: There was no report given.

Accreditation: Everyone who participated will be carried over for the 2021 year.

Past Presidents: There was no report given.

Old Business: Currently there was no old business to report on.

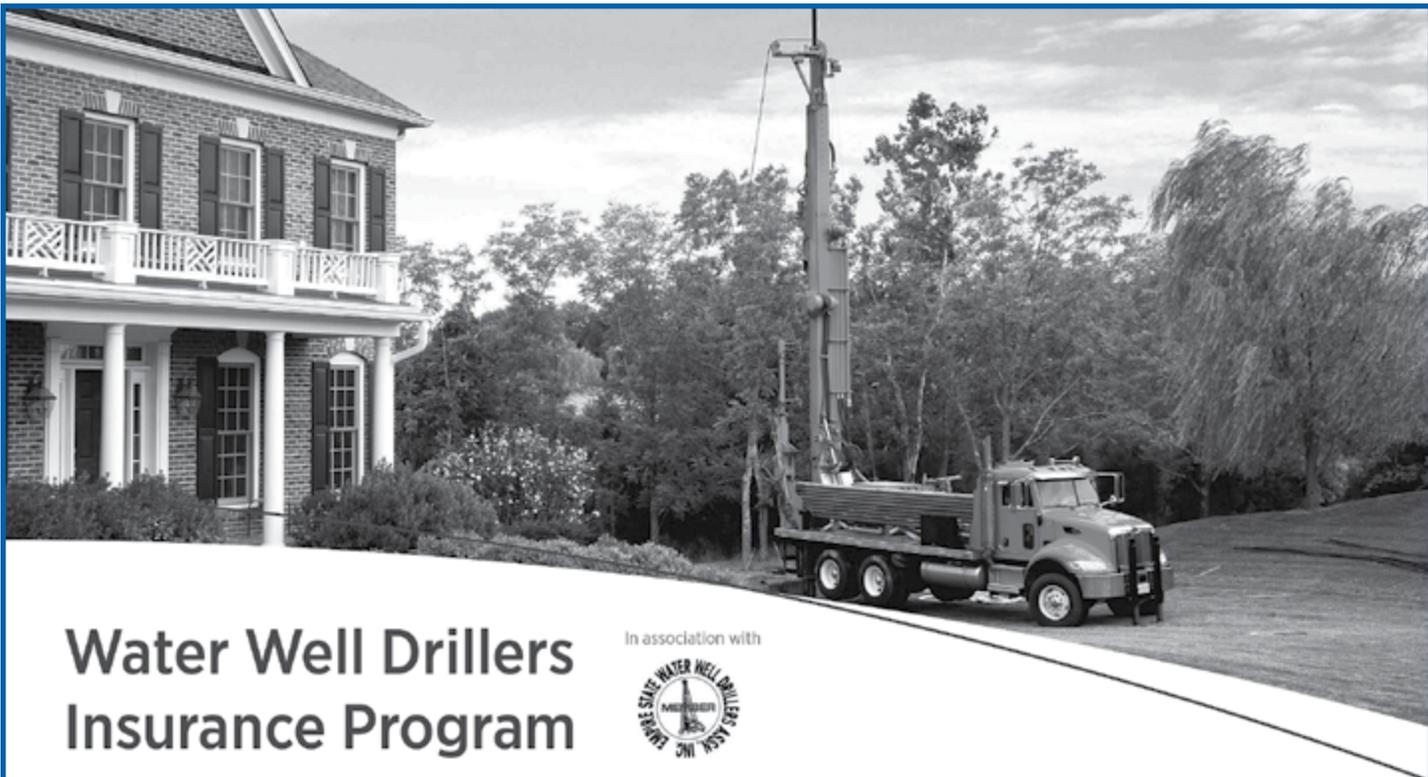
New Business: All voting members were sent ballots in the mail. Of the 183 voting members 52 returned the ballots. Of those 2 were disqualified due to unpaid dues. The Board (President, Vice President and Secretary/Treasurer all received 49 votes and were reelected. The Directors all received more than a majority of the votes and were reelected for another term. **Bernie Kistner** made a motion to accept the election results as reported. **Chuck Crover** seconded the motion. With no objections the motion passed. At this time **President Wills** discharged the nominating committee.

The Association will be going back to in-person meetings just as soon as it is safe. The Spring meeting will be a virtual Board of Director's meeting. The membership will be notified in **Hole Talk** if anything changes.

President Wills asked for a motion to adjourn which was made by **Jim Wild** and seconded by **Dan Boyd**. President Wills adjourned the meeting at 10:17 am.

Respectfully Submitted,

Julie Boyd, Correspondence Manager 



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DIVINING ROD PUT ASIDE BY SCIENCE

Modern Geology Succeeds Rule of Thumb.

Green Bay, Wis.—Science is replacing the "rule of thumb" and the old divining rod in the digging of wells, Prof. F. T. Thwaites, University of Wisconsin geologist, told Wisconsin well drillers in convention here recently.

He said that after 15 years of research the state geological survey's knowledge of water-bearing formations has been brought to the point where needless expense for the well driller and tapping of water supplies that are not the best available may be avoided many times.

In those years, Mr. Thwaites explained, the survey has been collecting samples of cuttings and logs from Wisconsin and northern Illinois wells and from the study of these has developed a store of information upon the depth and thickness of water-bearing strata and the quality of water in each stratum which is constantly drawn upon by well drillers.

Points Out Helps.

Some of the problems of water supply which the geologist can aid the well driller in solving, Mr. Thwaites pointed out as follows:

"From some regions we have enough well samples so that we can tell the precise depth at which hard or soft water will be found. As more wells are drilled in Wisconsin and more samples are submitted we can make additional Wisconsin data on quality of water at different levels.

"We have nearly enough records now to make a map for the whole state which will show the water supply possibilities in each section. Maps have been made for certain areas as the Fox river valley.

"We are studying temperatures of water from flowing wells because temperature gives a certain index to depth of the formation.

"Down to about 50 feet, the earth's temperature varies according to the season of the year. The coldest water comes from the 50 to 60-foot level at which the temperature is constant at about the mean average temperature of the locality. Below this depth temperature increases with depth. At 2,000 feet, as deep as we have been able to take readings, it stands at about 78 degrees the year around.

By determining the temperature of water from an old well we can find from what level the water comes—information which is highly important to the driller called upon to make repairs upon such a well when nothing was recorded as to formations penetrated.

Can Forecast Depth.

"By examining cuttings in the laboratory, it is possible to get much more precise information as to kind of rock than can be obtained at the well. It is possible to forecast the depths at which trouble in drilling has occurred elsewhere."

Mr. Thwaites closed with a request that drillers cooperate with the state survey in submitting sample cuttings from wells and in keeping records of the formations, especially in wells of greater depth than 250 feet.

The Flight of 2021

Good Morning Flight 2021. We are prepared to take off into the New Year.

Please make sure your Positive Attitude and Gratitude are secured and locked in the upright position.

All self-destruct devices; pity, anger, selfishness and resentment should be turned off at this time. All negativity, hurt and discouragement should be put away. Should you lose your Positive Attitude under pressure during this flight, reach up and pull down a Prayer. Prayers will automatically be activated by Faith. Once your Faith is activated, you can assist other passengers who are of little faith. There will BE NO BAGGAGE allowed on this flight. God, our Captain has cleared us for take-off.

Destination – GREATNESS!

Wishing you a New Year filled with new HOPE, new JOY and new BEGINNINGS! Stay Blessed! And Welcome in 2021!!!

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Drillers' Association?

by a very successful convention in **Buffalo, New York**. Over two hundred people registered for the two-day meeting.

In 2000 President **Jeff Smith** stated, *"The same struggles and concerns that plagued the water well industry 60 years ago are still with us today: high equipment and material costs, limited labor force, competition from ever-expanding public water supplies, and increasing government intervention. Our founding fathers objectively envisioned a progressive, proactive organization to unite and advance our industry. As we take our first steps into the 21st century, I hope your commitment to this industry, and most importantly this organization, will be one of involvement, support and participation - without those things we will not endure. Demonstrate the same unity of our forefathers and promote the vital service we all provide. The ESWWDA can make a difference."* By January 1, 2003, **Environmental Conservation Law §15-1525** was in full effect which brought to fruition some of the legislative codes from 1948.

Now, in **2021** we are **zooming meetings, websites, Facebook**, living through a **pandemic, remote schooling children** and yet still face the same challenges that our forefathers did in **1941** and in **2000**. This issue of *Hole Talk* will look back at the past and at our current lives.

1906 

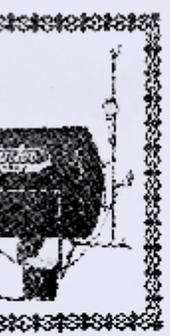
Frank Harrison Vail, 11 years after having served as Thomas Edison's assistant and two years before founding the Dayton Pump and Manufacturing Company (now Vail Manufacturing Company) started thinking about the possibilities of an automatic electric water system.

1906 

Merchant Marshall Field and General Joseph Wheeler died. High-button shoes were the rage. Harry Tracy shot Stanford White. The Ford Motor Company was struggling along. It had not yet discovered the Model T. Woodrow Wilson was President of Princeton University.

1906 

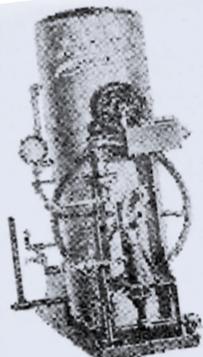
President Theodore Roosevelt signed the Federal Pure Food and Drug Act (the Wiley Act) requiring manufacturers of patent medicines, pills, ointments and tonics to advertise with restraint in the labeling of their products. What were things like before the act was passed?....



MB, RS, City Hall, Boston. Wash Square, Middle Village, New York, 1900. Gales, Wick, etc. etc. Lecture and



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SLIPS AND FALLS

From NGWA

Not long ago in an industrial plant, a janitorial helper was scrubbing the steps and floors with water and cleaning agent. An observant worker realized that soon dozens of people would be going down these steps to their coffee break. This person then took the proper action to avert this potentially dangerous situation. An unguarded wet floor is only one of the many causes that accounted for approximately 10.1 million injuries last year at work. It is important to spot unsafe conditions which may lead to slips and falls and prevent them.

There are various ways to suffer slips and falls while working. You can slip and lose your balance, you can trip over objects left improperly in your walkway, or you can simply fall from an elevated position above the ground.

To avoid slips and falls, be on the lookout for foreign substances on the floors. Watch for deposits of water, food, grease, oil, sawdust, soap or debris. Even small quantities are enough to make you fall.

When entering a building from the outdoors or from debris areas, clean your footwear thoroughly. Snowy and rainy weather require a doormat at each entrance to allow for complete wiping of shoes. Don't go too fast, walk safely and avoid changing directions too sharply.

Beware of tripping hazards. Trash, unused materials, any object left in the aisles or other areas designed for pedestrian traffic invites falls. Extension cords, tools, carts and other items should be removed or properly barricaded off. If equipment or supplies are left in walkways, report it. Let the proper personnel remove it. Keep passageways clean of debris by using trash barrels, but if you use them and miss, **PICK IT UP!**

Walk where you're supposed to walk. Short cuts through machine areas invite accidents. Concentrate on where you are going – horseplay and inattention leave you vulnerable to unsafe conditions.

Hold on to handrails when using stairs or ramps. They are there to protect you should a fall occur. If you're carrying a heavy load, which hampers your ability to properly ascend or descend stairs, use the elevator, or find help!

The worst falls are from elevated positions like ladders and scaffolding. They result in serious injuries and death.

Learn and practice ladder safety and the proper use of scaffolding.

When climbing, use a ladder of proper length that is in good condition. Keep it placed on a firm surface. Do not climb a ladder placed on machinery, crates, stock or boxes. Keep the ladder's base one foot away from the wall for every four feet of height. Don't over-reach – always have control of your balance when working from a ladder. Never climb a ladder with your hands full, and always carry tools in proper carrying devices.

When using a scaffold, be sure it is properly assembled according to the manufacturer's specifications. Check carefully for defects. Standing and working planks should be level and clean. Use toe boards to prevent tools from falling, and workers from slipping. Work only with people who practice scaffold safety.

Slips and falls occur every day. The extent of injuries and their recurrence can be minimized through proper safety knowledge and attitudes. Practice safety – don't learn it through "Accidental Experience." 🗨️

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The long dry spell has lowered the water in the wells, and will be the cause of a great deal of debris getting into them. The scarcity of water drives a great many creatures to make their way to the wells and clamber down the stones to reach the water. The *Scientific American* speaks of the examination of wells in which dead toads and squirrels were found, and recommend a wall laid in cement, and carried above the surface so that even crickets and other small creatures cannot get in. Some such precaution may prevent deadly sickness in a family. The present is a good time to examine and clean wells.



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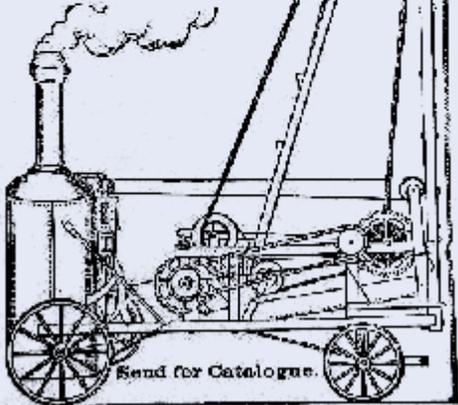
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The first COVID-19 vaccines are here. Supply from the Federal Government is extremely limited. Additional New Yorkers will become eligible as the vaccine supply increases. While the vaccination process is underway, every New Yorker should wear a mask, social distance and avoid small and large gatherings.

Over seven million New Yorkers are now **eligible** for the vaccine. Eligible groups include doctors, nurses and health care workers, people age 65 and over, first responders, teachers, public transit workers, grocery store workers and public safety workers.

Vaccines are available at pharmacies, hospitals and through local health departments statewide – please contact your provider of choice to schedule your vaccine appointment. You can use this website (<https://covid19vaccine.health.ny.gov>) for scheduling an appointment at a New York State-run site only. To determine eligibility and schedule appointments at one of these sites, use the **Am I Eligible app**. **Remember: Both vaccines require two doses for effectiveness. Appointments are not transferrable.**

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Things You Probably Never Knew About The Great Lakes...

1. **Lake Superior** is actually not a lake at all, but an inland sea .
2. All of the four other **Great Lakes**, plus three more the size of **Lake Erie**, would fit inside of **Lake Superior**.
3. **Isle Royale** is a massive island surrounded by **Lake Superior**. Within this island are several smaller lakes. Yes, that's a lake on a lake.
4. Despite its massive size, **Lake Superior** is an extremely young formation by Earth's standards (only 10,000 years old).
5. There is enough water in **Lake Superior** to submerge all of **North and South America** in 1 foot of water.
6. **Lake Superior** contains 3 quadrillion gallons of water (3,000,000,000,000,000). All five of the **Great Lakes** combined contain 6 quadrillion gallons.
7. Contained within **Lake Superior** is a whopping 10% of the world's fresh surface water .
8. It's estimated there are about 100 million lake trout in **Lake Superior**. That's nearly one-fifth of the human population of **North America!**
9. There are small outlets through which water leaves **Lake Superior**. It takes two centuries for all the water in the lake to replace itself .
10. **Lake Erie** is the fourth-largest **Great Lake** in surface area, and the smallest in depth. It's the 11th largest lake on the planet.
11. There is alleged to be a 30- to 40-foot-long "monster" in **Lake Erie** named **Bessie**. The earliest recorded sighting goes back as early as 1793.
12. Water in **Lake Erie** replaces itself in only 2.6 years, which is notable considering the water in **Lake Superior** takes two centuries.
13. The original publication of **Dr. Seuss's The Lorax** contained the line, "I hear things are just as bad up in **Lake Erie**." Fourteen years later, the **Ohio Sea Grant Program** wrote to **Seuss** to make the case that conditions had improved. He removed the line .
14. Not only is **lake Erie** the smallest **Great Lake** when it comes to volume, but it's surrounded by the most industry . Seventeen metropolitan areas, each with populations of more than 50,000, border the **Lake Erie** basin.
15. During the **War of 1812**, the U.S. beat the British in a naval battle called the **Battle of Lake Erie** , forcing them to abandon **Detroit**.

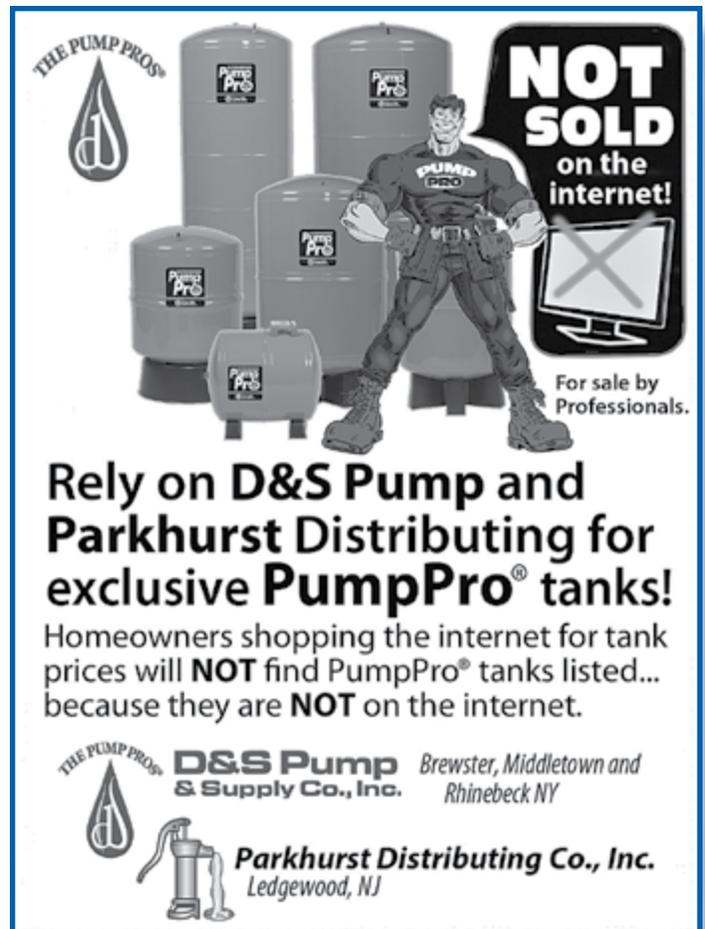


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16. The shoreline of all the **Great Lakes** combined equals nearly 44% of the circumference of the planet.

17. If not for the the **Straits of Mackinac**, **Lake Michigan** and **Lake Huron** might be considered one lake.

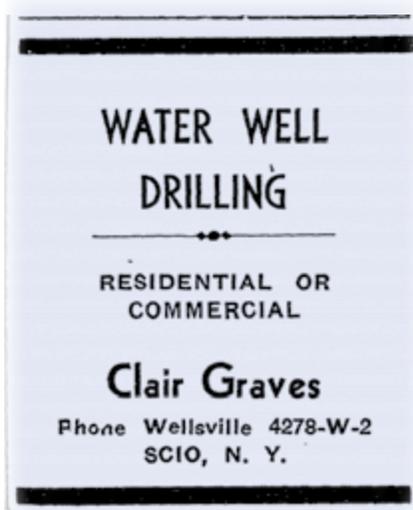
Hydrologically speaking, they have the same mean water level and are considered one lake .

18. The **Keystone State** was one of the largest and most luxurious wooden steamships running during the **Civil War**.

In 1861, it disappeared. In 2013, it was found 30 miles northeast of **Harrisville** under 175 feet of water.

19. **Goderich Mine** is the largest salt mine in the world. Part of it runs underneath **Lake Huron**, more than 500 meters underground.

20. Below **Lake Huron**, there are 9,000-year-old animal-herding structures used by prehistoric people from when the water levels were significantly lower.



21. There are massive sinkholes in **Lake Huron** that have high amounts of sulfur and low amounts of oxygen, almost replicating the conditions of Earth's ancient oceans 3 million years ago. Unique ecosystems are contained within them.

22. **Lake Huron** is the second largest among the **Great Lakes**, and the fifth largest in the world.

23. In size , **Lake Michigan** ranks third among the **Great Lakes**, and sixth among all freshwater lakes in the world.

24. **Lake Michigan** is the only **Great Lake** that is entirely within the borders of the **United States**.

25. The largest fresh water sand dunes in the world line the shores of **Lake Michigan**.

26. Because water enters and exits **Lake Michigan** through the same path, it takes 77 years longer for the water to replace itself than in **Huron**, despite their similarity in size and depth. (**Lake Michigan**: 99 years, **Lake Huron**: 22 years)

27. When the temperature of **Lake Michigan** is below freezing, ice balls form.

28. Within **Lake Michigan** there is a "triangle" with a similar reputation to the **Bermuda Triangle**, where a large amount

(**Great Lakes...continued on page 19**)

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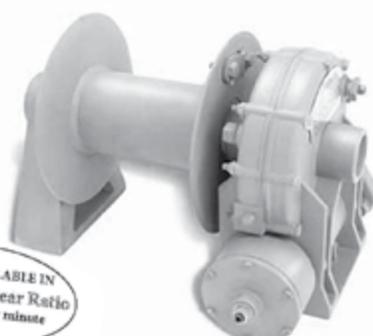
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(Great Lakes...continued from page 17)

of “strange disappearances” have occurred. There have also been alleged UFO sightings.

29. **Singapore, Mich.**, is a ghost town on the shores of **Lake Michigan** that was buried under sand in 1871.

Because of severe weather conditions and a lack of resources due to the need to rebuild after the great **Chicago** fire, the town was lost completely.

30. In the mid-19th century, **Lake Michigan** had a pirate problem .

Their booty: timber. In fact, the demise of **Singapore** is due in large part to the rapidly deforested area surrounding the town.

31. **Jim Dreyer** swam across **Lake Michigan** in 1998 (65 miles), and then in 2003, he swam the length of **Lake Michigan** (422 miles).

32. **Lake Michigan** was the location

of the first recorded “**Big Great Lakes disaster**,” in which a steamer carrying 600 people collided with a schooner delivering timber to **Chicago**. 450 people died.

33. **Lake Ontario** is the smallest of the **Great Lakes** in surface area, and second smallest in depth. It’s the 14th largest lake on the planet.

34. The province **Ontario** was named after the lake, and not vice versa.

35. In 1804, a **Canadian** warship, His Majesty’s Ship **Speedy**, sank in **Lake Ontario**. In 1990, wreck hunter **Ed Burt** managed to find it.

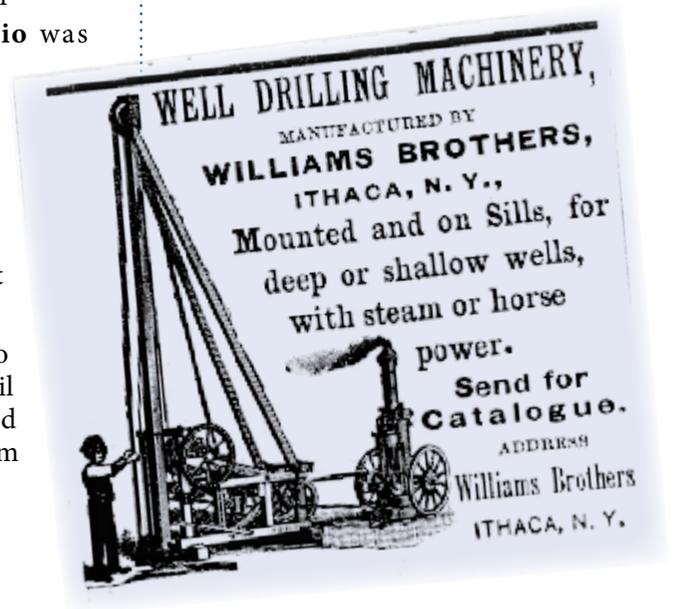
Only, he isn’t allowed to recover any artifacts until a government-approved site to exhibit them is found.

He’s still waiting .

36. **Babe Ruth** hit his first major league home run at **Hanlan’s Point Stadium** in **Toronto**.

It landed in **Lake Ontario** and is believed to still be there.

37. A lake on **Saturn’s** moon **Titan** is named after **Lake Ontario**.



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Condolences

Daniel Gregory Farrell 9/21/54 – 1/15/2021

The ESWWDA wishes to express our condolences to the Farrell family as well as to **D & S Pump and Supply** on the passing of **Daniel Farrell**. Mr. Farrell passed away on **January 15th, 2021** at the age of 66 in **Poughkeepsie, NY**. He was pre-deceased by his wife, **Tina** in 2003 and is survived by his 2 sons, grandchildren, a sister and a brother.



He will be most remembered for his love of "all things Irish".

Services were handled by **Copeland-Hammerl Funeral Home**.

Milk Plant Well Down 170 Feet; Will Install Generator

Expecting to strike a large supply of water either today or tomorrow, the L. A. Caster well drilling contractors of Cleveland, N. Y., announced Tuesday that a 170 shaft had been dug at the western end of the Ontario Milk Products Co-Operative, Inc., plant near the boiler rooms.

The well is located only a few feet from the building and water from it will be used in operating the cooling system in the plant, Mr. Robert Roop said.

The Caster company said that water had already been reached but not large enough flow to satisfy the demands of the new plant, believed to be one of the most modern in upstate and northern New York state.

The well driller struck bed rock at 42 feet and has been boring through hard rock and hard pan for more than 128 feet.

Further machinery and equipment for operating the plant will be installed upon its arrival in Mexico.

A 16 ton electric generator will be installed next week.

<p>Drill Pipe Compounds</p> <p>KOPR-KOTE® - 1 Gallon Premium Drill Collar & Tool Joint Compound Rating: Standard 89°F (1PC) to 450°F (2PC) Thermal 89°F (1PC) to 700°F (2PC) Aerobic 40°F (1PC) to 350°F (2PC) 89°F (1PC) + 89°F (2PC) + Drilling Fluid 450°F (2PC) 89°F (2PC) - Not classified as a marine pollutant</p> <p>KOPR-KOTE Drill Collar and Tool Joint Compound is widely regarded as the best copper-based drilling compound in the world. It is one of the few, if not the only, copper-based compound to receive both an NSF registration and a DOT exemption for being marketed as a marine pollutant. KOPR-KOTE is uniquely formulated to prevent excessive circumferential make-up and has a very high static friction factor that helps prevent downhole joint make-up when excessive drilling torques are encountered.</p> <p>KOPR-KOTE® - 5 Gallon Premium Drill Collar & Tool Joint Compound Rating: Standard 89°F (1PC) to 450°F (2PC) Thermal 89°F (1PC) to 700°F (2PC) Aerobic 40°F (1PC) to 350°F (2PC) 89°F (1PC) + 89°F (2PC) + Drilling Fluid 450°F (2PC) 89°F (2PC) - Not classified as a marine pollutant</p> <p>KOPR-KOTE Drill Collar and Tool Joint Compound is widely recognized as the best copper-based drilling compound in the world. It is one of the few, if not the only, copper-based compound to receive both an NSF registration and a DOT exemption for being marketed as a marine pollutant. KOPR-KOTE is uniquely formulated to prevent excessive circumferential make-up and has a very high static friction factor that helps prevent downhole joint make-up when excessive drilling torques are encountered.</p>	<p>Drilling Accessories</p> <p>DOPE BRUSHES Tool Joint Compound Tapered and Beveled ends • Non-abrasive • Thick handle • 17" & 30" brush lengths</p> <p>DOPE BRUSHES for 1, 2 & 3 gallon compounds. This brush is designed for hand drilling compound for ease of applying the heavy grease based material and will not allow the compound to run or drip off the brush bristles.</p> <p>Bentone</p> <p>AP-1™ High-Temp Amber Grease 89°F to 550°F (1PC to 28PC) • Protects Against Rust & Corrosion • Prevents Wear • Highly Adhesive to Metal • Resistant to Water • Superior Seals Life • Color - Clear Amber</p> <p>AP-1 is noted for its high temperature incompressibility, its non-melting and does not thicken excessively at temperatures as low as 89°F (1PC). It has mechanical stability, is water resistant, has excellent adhesion to metals, prevents wear and has superior strength. AP-1 contains oxidation inhibitors, corrosion inhibitors and metal deactivators. It offers positive protection for extreme services, which require heavy-duty lubricant performance. AP-1 is recommended for anti-friction bearings, ball and roller bearings, screw bearings, journals, shafts, slides, conveyor chains, U-joints, sealed purpose lubricants on all plain and anti-friction bearings such as bearings in coolers, cover - air blowers, forges, hot air blowers and dryers.</p>
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J-89™ - 5 Gallon
Drill Steel Compound
Rating: 89°F (1PC) to 450°F (2PC) | J-89-NL-04 1:5 - Pumpable
Resistance to shock and galling Anti-friction properties Prevents metal to metal contact
Will eat away out of both threads Water resistant Prevents rust and corrosion
Performance proven, lead-free compounds specifically designed for percussion tools in road construction, logging, mining and rock, pneumatic and hand drilling. J-89 are highly blended to provide excellent resistance to shock, galling and seizure. Their anti-friction properties are unsurpassed, providing easy thread assembly and disassembly. Under make-up pressure, J-89 breaks "paste" and form a tenacious armored coating that eliminates metal to metal contact while penetrating work surfaces imperfections and forms seals to increase thread life on steel bits, pipes and couplings. J-89 drill steel lubricant will not run out or melt out of bit threads.

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Email merle@ewdrilling.net

Scholarship Money Available

As we approach the beginning of another school year, college-bound students and their families are searching for available funds to help offset the cost of further education. The ESWWDA offers a scholarship to applicants whose course of study is **related to the water well industry**. Preference is given to family members of association members and secondly to those attending 2-year programs at an accredited school.

Further information is available by contacting the Scholarship Committee of **Dave Rosick** or **Tyler Wills**.

Albert H. Mack Scholarship Guidelines

Guidelines for the establishment of the scholarship fund and awarding of scholarship monies for ESWWDA:

A. Scholarship Fund

1. Maximum funds available in one calendar year: \$2,500.
2. One thousand dollars per year to be set aside until the fund reaches \$7,500.

B. Awarding of Scholarships

1. Preference to be given to sons or daughters of association members.
2. Preference to be given to students attending 2-year programs.
3. Scholarships available only to persons whose course of study is related to the water well industry.
4. Persons may make application to the scholarship committee only after acceptance at an accredited school, offering a program related to the water well industry.
5. Funds may be distributed to more than one person in any one calendar year.

Important Contacts:

NYS DEC: **Beth Guidetti**

(877) 472-2619

NYSWells@gw.dec.state.ny.us

NGWA Main Office:

(800) 551-7379

www.ngwa.org

PSI Exams:

800-733-9267

www.psiexams.com

Water Systems Council:

(202) 625-4387

www.watersystemscouncil.org

American Ground Water Trust

(603) 228-5444

trustinfo@agwt.org

ESWWDA: **Julie Boyd**

(845) 225-3196

Jewels2564@aol.com

Hole Talk: **Susan Bates**

(315) 339-8960

Gramsue67@gmail.com

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Thank you for your support of the ground water industry!

Any ESWWDA member wishing to voice their concern with the contamination of ground water by injection wells should contact:

Ms. Nicole Kraft, EPA Section Chief at 212-637-3093 or NicoleKraft@EPA.com.



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Affiliate Organization
member of NGWA

The membership of the ESWWDA consists of contractors involved in the water supply industry including but not limited to:

- Drilling Contractors
- Water System Installers
- Manufacturers and Suppliers
- Engineers & Hydrogeologists
- Contractor Associates
- Student Associates

Send us your events!

To place an item in this calendar, or to submit an article or advertisement, please email Jewels2564@aol.com or Gramsue67@gmail.com no later than **May 1, 2021**, the next **Hole Talk** deadline.

UPCOMING EVENTS

March 12-13, 2021

New England Water Well Expo CANCELLED

due to COVID-19 Restrictions

March 24-25, 2021

Be heard at the virtual meeting - 2021 Water Systems Council Spring Members' Meeting & Congressional Town Hall

This is a great opportunity for you to get the most up-to-date information on what

is happening in the water well industry. Log on to the website for details. <https://wellwater.watersystemscouncil.org/events/details/2021-spring-meeting-congressional-town-hall-18>

Log onto the NGWA website for a full listing of their upcoming webinars. NGWA fly-in has been cancelled due to Covid-19 restrictions. <https://www.ngwa.org/events-and-education/ngwa-webinar-and-virtual-event-faq>

APRIL 2021

ESWWDA Spring Meeting CANCELLED

due to COVID-19 Restrictions

A zoom board meeting will be held at a date yet to be determined

JULY 2021

ESWWDA Summer Meeting

Yet to be determined

due to COVID-19 Restrictions

Visit www.nywelldriller.org