

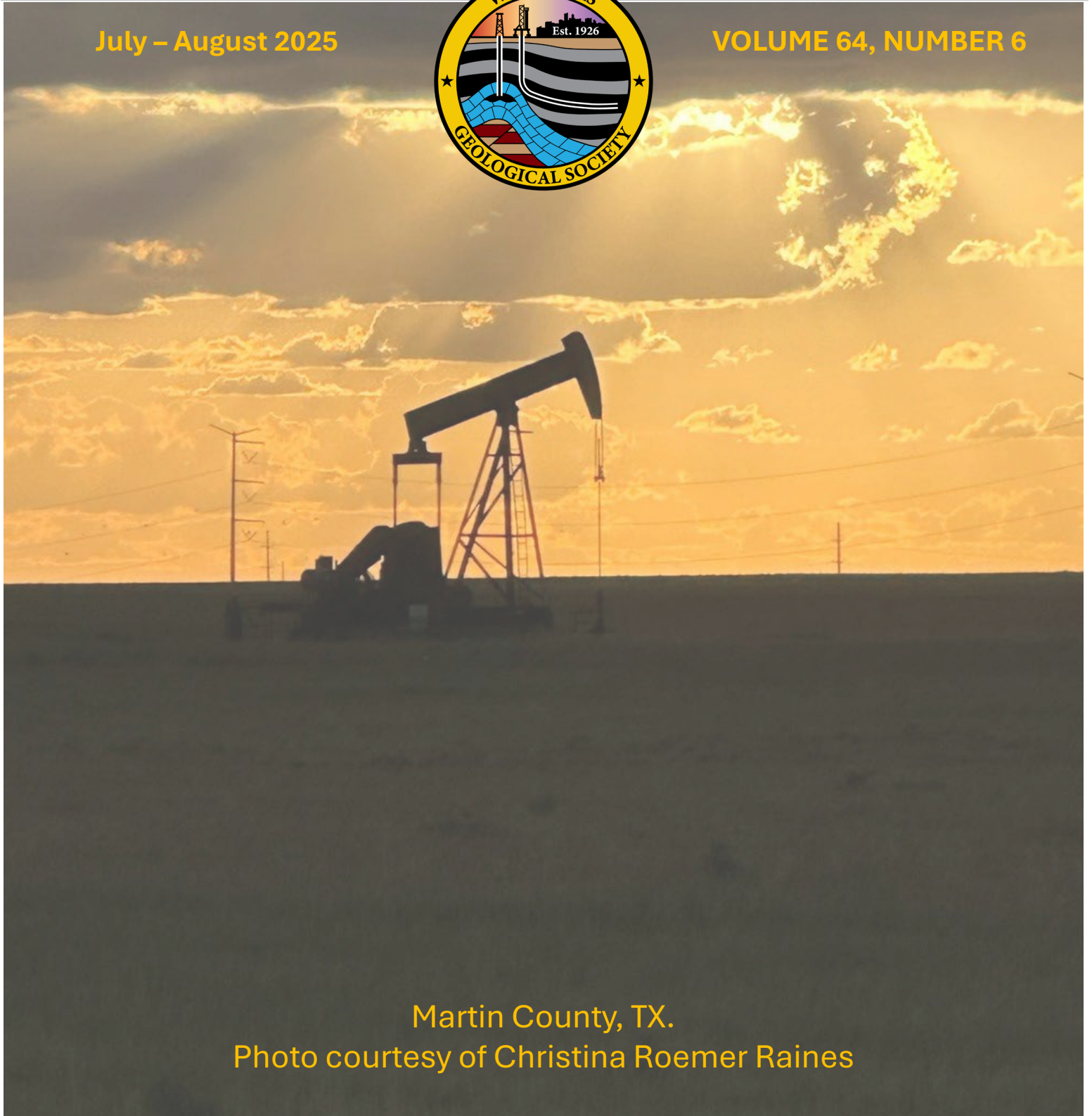
WEST TEXAS GEOLOGICAL SOCIETY

BULLETIN

July – August 2025



VOLUME 64, NUMBER 6



Martin County, TX.

Photo courtesy of Christina Roemer Raines

SELMAN
GEOLOGICAL SERVICES

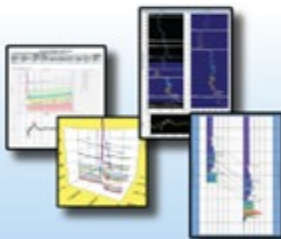
Logging in the USA for Over 40 Years!



**REMOTELY-MONITORED
GAS LOGGING**



GEOSTEERING



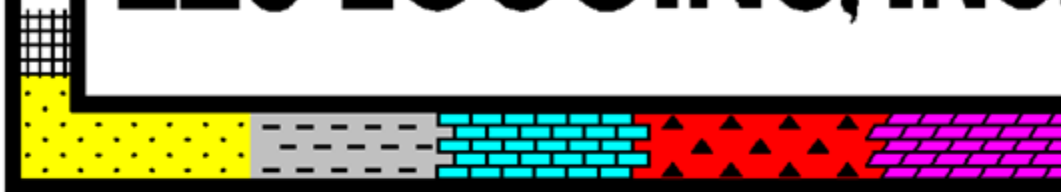
MUDLOGGING



SELMANLOG.COM

(800) 578-1006

SUTTLES LOGGING, INC.



Celebrating over 40 Years of serving you

**Office: 432-687-3148
www.sutlog.com**

Visit us online at www.sutlog.com for
information about Real-time data transmission

Try out our OfficePro software

Generate LAS, TIFF and PDF.

Change ROP/Gas scales.

View and print vertical or
horizontal logs to any banner
capable printer.

WEST TEXAS GEOLOGICAL SOCIETY

P. O. Box 1595
Midland, Texas 79702
Website: www.wtgs.org

Telephone: (432) 683-1573

2900 W. Front St.
Midland, Texas 79701
E-mail: wtgs@wtgs.org



WTGS OFFICERS 2024-2025

PRESIDENT	PRESIDENT-ELECT	1st VICE PRESIDENT	2nd VICE PRESIDENT
Steven Harbison	William Rittase	Charles Adam Ball	Charles Benjamin Breyman
Diversified Well Logging LLC	ConocoPhillips	Arrington Oil and Gas	ConocoPhillips
(936) 520-0082	(702) 496-1763	(432) 934-2999	(432) 816-4168
stevenharbison@dwl-usa.com	William.rittase@conocophillips.com	Adam.ball@arringtonoil.com	Ben.breyman@conocophillips.com
SECRETARY	TREASURER	EXECUTIVE DIRECTOR	EDITOR-IN-CHIEF
Chris Reudelhuber	Kelsey Call	Shellie Crossland	Haleigh Fitzgerald
Permian Resources	Diamondback Energy	WTGS	Diamondback Energy
(720) 696-5274	(405) 821-3245	(432) 683-1573	(432) 234-2332
Chris.reudelhuber@permianres.com	kcall@diamondbackenergy.com	wtgs@wtgs.org	Hfitzgerald@diamondbackenergy.com

Southwest Section AAPG Delegate
Caroline Studnicky

AAPG Delegates (Term Expires)
(2023-2026) - Michael A. Raines, Jennifer Gamrod, Stonnie Pollock, Pat Welch

AAPG Alternates (Term Expires)
(2023-2026) - Robert Nail, Troy Tittlemier

The WTGS Bulletin (ISSN 0739-5957) is published bi-monthly, September through July by the West Texas Geological Society, P.O. Box 1595, Midland, Texas 79702. Copyright 2012 by West Texas Geological Society. Online subscriptions to the Bulletin are included in membership dues (\$35.00 annually). Paper copies of the Bulletin can be purchased for an additional \$20.00 per year. Subscription questions should be directed to the WTGS office at (432) 683-1573. Manuscripts are invited on all aspects of Permian Basin Geology. Inquires, suggestions, and manuscripts should be sent to WTGS, P.O. Box 1595, Midland, Texas 79702 or our email address: wtgs@wtgs.org. Deadline for Copy is SIX WEEKS prior to publication date. Materials for ads must be camera-ready art work or in digital form - NO XEROX Copies.



2024-2025 Committee Chairpersons:

Arrangements	Shellie Crossland	WTGS	432-683-1573	wtgs@wtgs.org
Awards	Shellie Crossland	WTGS	432-683-1573	wtgs@wtgs.org
Boy Scouts				
Education	Adam Ball	Arrington Oil & Gas	432-924-2999	
Field Trip	Andy Roark	Chevron	205-862-4364	aproark@chevron.com
Golf Tournament	Joe Ramirez	Premier-Corex	432-664-4753	Joe.ramirez@premiercorex.com
Lunch Program	Eli Lopez	ConocoPhillips	208-716-4512	Eli.d.lopez@conocophillips.com
Membership				
Nominating	Judd Tudor	Drill2Frac	432-638-8409	Judd.tudor@drill2frac.com
Petroleum Technical Library				
Social Tasting Events	Jeff Bryden	Western Underground	432-664-0171	wyojafo@yahoo.com
Publications				
Publicity & PR				
Scholarship	Judd Tudor	Drill2Frac	432-638-8409	Judd.tudor@drill2frac.com
Clay Shoot	Stonnie Pollock	Fasken Oil & Ranch	432-638-7296	spollock@forl.com
Youth Education				
Fall Symposium	Judd Tudor	Drill2FRAC	432-638-8409	Judd.tudor@drill2frac.com
Honorary Life/Pioneer Nominating	Pat Welch	Primerock Resources	432-553-8418	jpfwelch@gmail.com

table of CONTENTS



3-4	2024-2025 Executive Board /2023-2024 Committee Chairmen	14-15	July & August Calendar of Events
5	Table of Contents	16	NO WTGS LUNCHEON IN JULY
6	2024-2025 Executive Committee	17	WTGS August Luncheon Speaker
7	WTGS 2025 - 2026 President's Letter Steven Harbison	18	Beryl Oil and Gas Advertisement
8	2025 WTGS SYMPOSIUM – SAVE THE DATE & HOTEL INFORMATION	19	WTGS 100 th Anniversary Core Workshop - Bob Trentham & Bob Lindsay
9	2025 WTGS SYMPOSIUM - CALL FOR ABSTRACTS	20-23	PaleoScenes No. 22 – “Loco Hills– A Town Aptly Yclept” Submitted by Jeff Smith
10	31 ST Annual WTGS/PBGS Clay Shoot	24	How to submit Articles, Forms, Photos, News Items, Calendar Notices, Advertisements, and Letters to the WTGS Bulletin
11	3 rd Annual PetroPickle Pickleball Social Photographs	25	WTGS Professional Directory
12	May & June WTGS Luncheon Photos	26	Index to Advertisers/Bulletin Submission Information
13	Mainlog Advertisement		

**Advertise
with Us!**

THIS SPACE IS AVAILABLE!

**Contact the WTGS office @ 432.683.1573 or
email wtgs@wtgs.org to
reserve this ‘preferred’ ad space.**



2024-2025 Executive Committee

President

President-Elect

1st Vice President

2nd Vice President

Secretary

Treasurer

Editor in Chief

Executive Director

Steven Harbison

William Rittase

Charles Adam Ball

Ben Breyman

Chris Reudelhuber

Kelsey Call

Haleigh Fitzgerald

Shellie Crossland



SIPES - Midland Chapter

www.sipesmidland.org

"The pre-eminent organization for furthering the professional and business interests of independent earth scientists"

Meetings held on the 3rd Wednesday of each month (except Feb. and Dec.)
Midland County Club - 11:15 AM

Guests Always Welcome - \$35 payable at door with check/cash - RSVP George Friesen

For more information, please contact:

Mike Raines (Chairman) 432-934-7202
Wendell Creech (Membership) 432-894-1612
George Friesen (Treasurer) 432-664-8144



Dear Members of the West Texas Geological Society,

It is both an honor and a humbling privilege to serve as the 100th President of this incredible organization. Reaching a centennial presidency is more than just a numerical milestone, it is a powerful reminder of the rich legacy we've inherited and the responsibility we carry forward.

For nearly a century, the West Texas Geological Society has stood as a pillar of scientific excellence, professional camaraderie, and shared purpose. We are here today because of the enduring commitment of those who came before us. As Isaac Newton once said, "If I have seen further, it is by standing on the shoulders of giants." Our legacy members built something enduring, one core, one log, one field trip, and one friendship at a time. We owe them our deepest gratitude.

Yet even as we honor the traditions and values that shaped our past, we must also embrace the winds of change. The world around us is evolving, technology is transforming how we work, communicate, and collaborate. To remain a vibrant, relevant, and valuable resource, our Society must not only preserve its heritage but also modernize and reenergize its mission.

This means creating engaging events, expanding meaningful networking opportunities, and building platforms that speak directly to the next generation of geoscientists. We must become a beacon that draws in young geologists, not just for technical excellence, but for mentorship, connection, and community.

As John F. Kennedy once said, "Change is the law of life. And those who look only to the past or present are certain to miss the future." Let us not miss the future. Let us shape it together.

I invite and encourage each of you to share your ideas, feedback, and hopes for our Society. Whether it's new outreach initiatives, fresh event formats, educational programs, or ways to improve member participation. I am always open to hearing from you. Our strength lies not only in our legacy, but in the collective wisdom of our members.

Together, let's celebrate our past, energize our present, and build a future that makes WTGS as essential in the next 100 years as it was in the last.

Warm regards,
Steven Harbison

President,

West Texas Geological Society (100th Term)





GET REGISTERED TODAY!

Event Home page

<https://site.pheedloop.com/event/wtgs2025/home>

Attendee Registration

<https://site.pheedloop.com/event/wtgs2025/register#category>

Exhibitor Registration

<https://site.pheedloop.com/portal/event/wtgs2025/apply/exhibitor/application#start>

Sponsor Registration

<https://site.pheedloop.com/portal/event/wtgs2025/apply/sponsor/application#start>

***The event website will be updated with the list of speakers, abstracts, and the full schedule once the call for abstracts has closed.**

Wyndham Midland Downtown Reservations (formerly Hilton DoubleTree)

<https://www.wyndhamhotels.com/wyndham/midland-texas/wyndham-midland-downtown/overview?checkInDate=09/15/2025&checkOutDate=09/19/2025&groupCode=091525WES>



Submit abstracts to
chatchel@mewbourne.com



2025 WTGS SYMPOSIUM CALL FOR ABSTRACTS



DEADLINE
**FRIDAY
JULY 11TH**

If you have any questions, feel free to reach out to Cole Hatchel. Thank you for your support of the WTGS Fall Symposium and for sharing your outstanding presentations with our community!

Send your abstracts to Cole Hatchel
chatchel@mewbourne.com



WTGS & PBGS CLAY SHOOT

Friday, August 8, 2025
Jake's Clays
13301 FM 1379
MIDLAND, TX 79706

Sponsorship Form

Make checks payable to: WTGS/PBGS Clay Shoot, P.O. Box 1595, Midland, TX 79702

Company Name	
Mailing Address	
City, State, ZIP	
Contact Name	
Phone Number	
Email	
Sponsorship Level	
Check Number	Amount



Diamond
\$3000
Logo Displayed
36 Raffle Tickets
3 Squads



Platinum
\$2500
Logo Displayed
24 Raffle Tickets
2 Squads



Gold
\$2000
Logo Displayed
12 Raffle Tickets
1 Squad



Silver
\$1000
Logo Displayed
6 Raffle Tickets



Bronze
\$500
Logo Displayed

Contacts: Stonnie Pollock / Shoot Chairmain / spollock@forl.com / (432)638-7296
Austin Jumper / Shoot Co-Chair / Austin_Jumper@eogresources.com
Shellie Crossland / Executive Director / wtgs@wtgs.org / (432)683-1573



West Texas Geological Society
<https://www.wtgs.org/events>

WTGS & PBGS CLAY SHOOT

Friday, August 8, 2025
Jake's Clays
13301 FM 1379
MIDLAND, TX 79706

Members: \$165 each
Non-members: \$200 each
Raffle: \$10 per ticket -- You do
not have to be present to win

Door Prize - must be present to win

SCHEDULE

8:00 am - Registration
9:00 am - Shotgun Start
Lunch & Prizes to follow

Golf Carts NOT included
Reservations: (432)570-0290

Make checks payable to: WTGS/PBGS Clay Shoot, P.O. Box 1595, Midland, TX 79702

	Name	Phone	Email
1.			
2.			
3.			
4.			
5.			
6.			

Contacts: Stonnie Pollock / Shoot Chairmain / spollock@forl.com / (432)638-7296
Austin Jumper / Shoot Co-Chair / Austin_Jumper@eogresources.com
Shellie Crossland / Executive Director / wtgs@wtgs.org / (432)683-1573



West Texas Geological Society
<https://www.wtgs.org/events>

GET REGISTERED OR BECOME A SPONSOR TODAY!

*Fillable forms can also be found using the link below.

<https://wtgs.glueup.com/event/31st-annual-wtgs-pbgs-clay-shoot-142998/>



PetroPickle

PICKLEBALL SOCIAL



SUTTLES LOGGING, INC.

432-687-3148

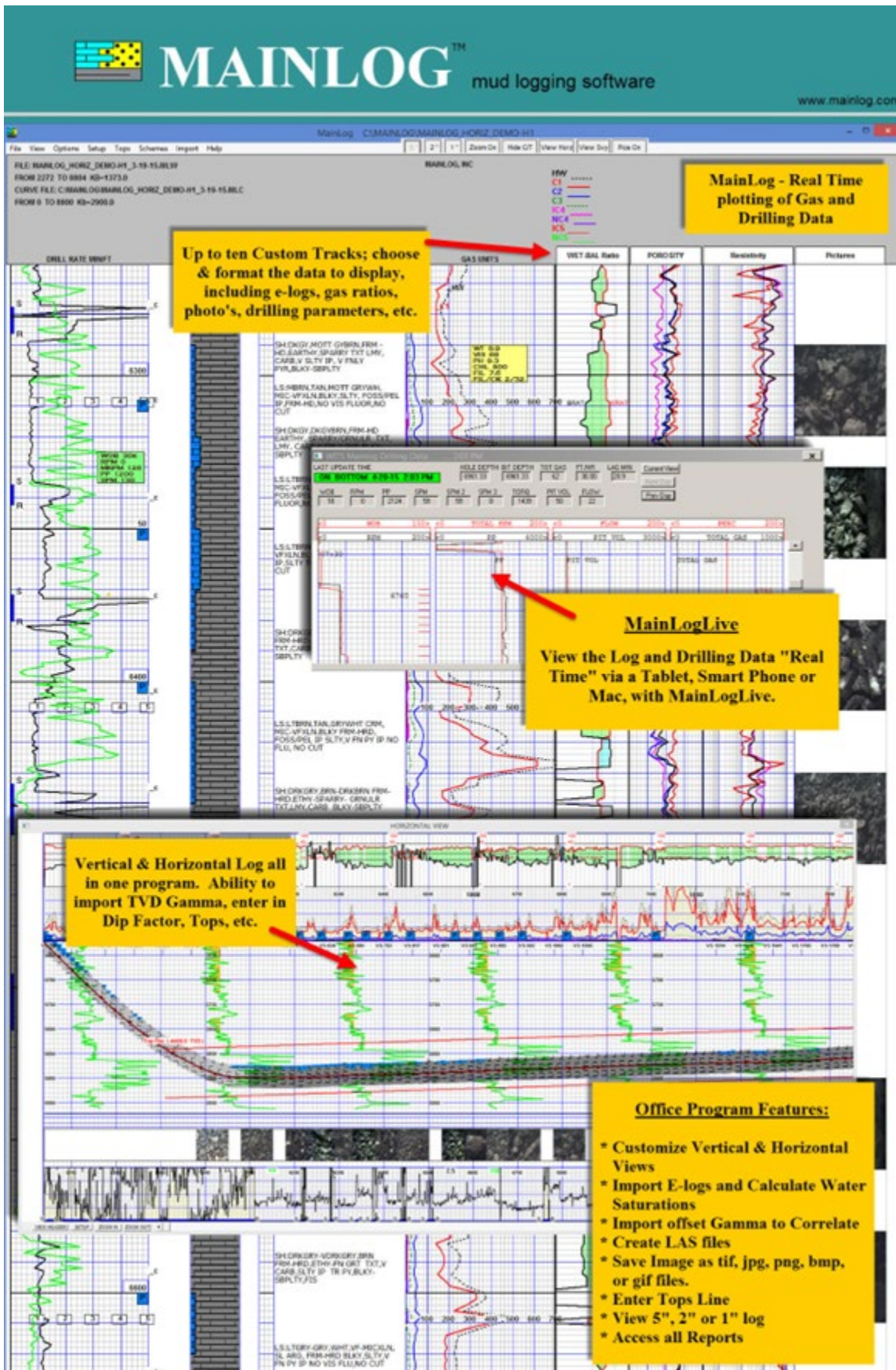
HYDROCARBON WELL LOGGING
GEOLOGICAL CONSULTING





May & June Luncheon Photos







JULY

CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
WTGS Luncheon Bush Convention Center 11:30 am, \$25.00/50.00 PBS-SEPM Bush Convention Center 11:30 am SIPES Midland Country Club 11:30 am SPWLA Permian Basin Bush Convention Center 11:30 am		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

♦ **WTGS Luncheon - Tuesday, July 8, 2025**

NO LUNCHEON IN JULY – Summer Break – SEE YOU IN AUGUST!

♦ **SIPES Midland Chapter - Wednesday, July 16, 2025**

Don Muth

♦ **PBS-SEPM Luncheon – Tuesday, July 15, 2025**

No Talk Scheduled – Summer Break

♦ **SPWLA Permian Basin Chapter – Tuesday, July 22, 2025**

No Talk Scheduled



FROM SAMPLES TO SOLUTIONS

- Core Analysis
- Geochemistry
- Reservoir Models
- Formation Damage
- Core/Cutting Repositories
- Collaboration Space
- Geomechanics
- Fluids Compatibility
- Subsurface Databases
- Carbon Capture & Sequestration



www.POFG.com

WE ARE LOCAL MIDLAND

OF EVENTS August



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
					1	2	WTGS Luncheon Bush Convention Center 11:30 am, \$25.00/50.00 PBS-SEPM Bush Convention Center 11:30 am SIPES Midland Country Club 11:30 am SPWLA Permian Basin Bush Convention Center 11:30 am
3	4	5 WTGS LUNCHEON	6	7	8 CLAY SHOOT	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	

♦ **WTGS Luncheon - Tuesday, - August 5, 2025**

Lowell Waite – University of Texas at Dallas - “Pennsylvanian reefs of the Eastern Shelf: What do we really know?”

♦ **SIPES Midland Chapter - Wednesday, August 20, 2025**

Dan Olive – Thesis on the Barnett conducted under the advisors Stonnie Pollock and Dr. Robert Lindsay

♦ **PBS-SEPM Luncheon – Tuesday, August 19, 2025**

Bryan Bottoms – Detring Energy Advisors

♦ **SPWLA Permian Basin Chapter – Tuesday, August 26, 2025**

No Talk Scheduled



Prospecting Exclusively In The Permian Basin Since 1994

800 Bering Drive, Suite 400, Houston, Texas 77057

713/784-7474



NO LUNCHEON IN JULY

Bush Convention Center

Lunch: 11:30 AM Cost: \$25 in person (pre-register)

**Make Reservations with WTGS Office
(432-683-1573) or Online @ wtgs.org**

NO LUNCHEON IN JULY SEE YOU IN AUGUST!

August 5, 2025 WTGS Luncheon

Bush Convention Center

Lunch: 11:30 AM Cost: \$25 in person (pre-register)

**Make Reservations with WTGS Office
(432-683-1573) or Online @ wtgs.org**



Pennsylvanian reefs of the Eastern Shelf: What do we *really* know?

Lowell Waite

Dept. of Sustainable Earth Systems Sciences

Permian Basin Research Lab

University of Texas at Dallas

ABSTRACT

Pennsylvanian-age (Penn) reefs of the Eastern Shelf of the Permian Basin, west Texas, constitute important oil reservoirs. Efficient exploitation of remaining reserves in Penn reefs requires accurate facies and reservoir models. Many published studies illustrate the depth of our current knowledge, i.e., we know a lot about the geology of these features. It is clear, however, that much remains to be learned. This presentation will discuss the Penn reef trend as currently mapped, show a comparison of reef sizes and orientations, and summarize some of their characteristics, such as development of reef topography, the timing of reef initiation and termination, and the close association of these carbonate masses with younger sand bodies. Many Penn reef fields lack full suites of deep, modern well logs, and several lack 3D seismic coverage, facts that hinder accurate assessment of internal reservoir geometry.

The Penn reef trend of the Eastern Shelf as currently defined includes a string of buildups covering more than 300 mi x 60 mi (~ 500 km x 100 km). They occur in a variety of shapes and sizes, but most are elongated bodies displaying a marked NE-SW orientation. All include a broader, lower base of Strawn age culminating upwards into one or more high standing pinnacles of Canyon to Cisco age. Core analyses show these carbonate masses consist of multiple, coarsening-upward parasequences that include a spectrum of depositional facies. A large percentage of buildups consist of high-energy skeletal grainstones and ooids, and only small percentage of facies contain reef fabrics. These Penn carbonate buildups differ significantly from the coral-algal reefs of today and perhaps are more accurately described as “reef complexes,” “carbonate buildups,” “reef-shoals,” or “reef-mounds.” Following the deep wisdom of geologist and oilman Frank Conselman, however, “a reef is a reef is a reef,” and surely, we all understand what is meant by referring to these carbonate masses as reefs; but their true makeup and internal complexity should not be marginalized nor dismissed.

Reef growth along the Eastern Shelf began in the Middle to Late Strawn and terminated in different locations at different times during various Late Pennsylvanian stages. Final Penn reef topographies resemble “buried hills,” illustrating the impact of long-term sea-level rise modified by multiple periods of short-term exposure and erosion, the consequence of Pennsylvanian glacioeustasy. Many of the larger Penn reef masses are located near some of the larger, younger “Canyon” fluvial-deltaic and slope sandstone bodies, perhaps indicating the effects of buried reef topography, i.e., residual paleo-topographic relief on the early Wolfcampian sea floor.

BIO

Lowell Waite is currently a Lecturer in the Department of Geosciences and Co-Director of the Permian Basin Research Lab at the University of Texas at Dallas. He received his B.S. degree from the University of Michigan and an M.S. in Geology from the University of Texas at Arlington. He was previously employed by Mobil Oil Corporation and Pioneer Natural Resources, holding several positions in carbonate research and in domestic and international E & P. At UTD he teaches courses and directs research related to petroleum geology. He received the Distinguished Educator Award from the AAPG - Southwest Section in 2023.





BERYL

OIL AND GAS

Proud sponsor of the WTGS

About Us

Beryl Oil and Gas is a privately held exploration and production oil and gas company with operations focused primarily in the Permian Basin. Combined, the Beryl team has over 100 years of experience in the Permian Basin as well as extensive experience across the United States and internationally.

Contact Us

 +432-688-1236
 www.beryloil.com
 400 W Illinois Ave, Ste 1150
Midland, TX 79701



West Texas Geological Society 100 Year Anniversary: A Core Workshop of Early Permian Basin Field Discoveries

Robert F. Lindsay & Robert C. Trentham

In January 2026 the West Texas Geological Society will celebrate its 100th Anniversary. It has been over a century since the earliest field discoveries were made in the Permian Basin. With the support of the West Texas Geological Society, a Core Workshop is planned to revisit early field discoveries.

In identifying early cored wells, several cores were found to require additional work. As an example, core from Westbrook Field (1st discovery of commercial oil in the Permian Basin) and Artesia Field (3rd discovery) have not been slabbed. These cores require funding for core slabbing, boxing, photography, etc. for inclusion in the core workshop. We anticipate a few additional cores may need similar preparation. All cores will require a minimum of core photography and thin section preparation to adequately describe the core for inclusion in the core workshop. Donations of core analysis, drilling history, etc. would also be of great value to the core workshop.

We estimate the cost of core preparation to be a minimum of \$25,000. Funding will be managed by the West Texas Geological Society.

Below are 23 key fields that have been identified. These field discoveries opened the Permian Basin to additional exploration and development, and established it as a Super Basin:

Westbrook (1920) UCLFK
Big Lake (1923) GRBG
Big Lake (1929) ELLN
Artesia (1924) GRBG-SADR
McElroy (1925) GRBG *
McCamey (1925) GRBG-SADR *
Wheat (1925) BCYN *
Penwell (1925) SADR
Empire (1926) YTES
Maljamar (1926) GRBG
Hendricks (1926) YTES
Yates (1926) SADR
Waddell (1927) GRBG-SADR
Shipley (1928) ?
Kermit (1928) ?
Pecos Valley (1928) YTES *
Vacuum (1929) GRBG-SADR
Keystone (1929) YTES
Eunice Monument (1929) GRBG *
North Ward-Estes (1929) YTES/QUEN *
Sand Hills (1931) TUBS
Sand Hills (1935) MCKT, SIMP
Goldsmith (1935) SADR *

*Fields with cores identified and available

Midland Highlights
Trusted West Texas Core Analysis

Dual Energy CT
Rapid, non-destructive screening using high-frequency imaging techniques now provides a viable solution for not only superior visualization, but also detailed quantitative core assessment.

Full Diameter Testing
Properly assess rock properties in cores with vuggy features

Strategic Solutions
Log modeling, data analytics, completion, and drilling recommendations

Advanced Cuttings Analysis and Collection
Maximize reservoir characterization with optimized landing targets and completion strategies

432-694-7761
john.sebian@corelab.com

713-328-2673
ps.info@corelab.com

The Core Workshop will be published as a pdf volume. If you have information on any of these fields, please consider contributing a write-up to the publication.

If you would like to contribute a core to the WTGS Core Workshop, the core will be temporarily housed at the University of Texas at the Permian Basin (UTPB) for description by the core workshop organizers, UTPB graduate students, or core contributors themselves. Upon completion of the WTGS Core Workshop donated cores will be returned to the core contributors. If the core contributor would like, cores can be housed permanently at UTPB at no expense. We envision creating a core inventory where these cores, thin sections, etc. would be available for study by any company, university, or individual.

Please contact us with any questions you may have about financial support. Please earmark your contribution for the WTGS 100-Year Core Workshop, and send to it to the attention of Shellie Crossland at the **West Texas Geology Foundation**, PO Box 1595, Midland, TX 79702.

Robert F. Lindsay
Lindsay Consulting LLC
lindsayconsulting2016@gmail.com
(432) 889-0156

Robert C. Trentham
University of Texas at the Permian Basin
trentham_r@utpb.edu
(432) 557-8334



PaleoScenes No. 22

Loco Hills – A Town Aptly Yclept

Submitted by Jeff Smith

In the early 1990s, I was involved in helping manage a small, privately owned oil company based in Laguna Niguel, California. The owner was an attorney, so of course, he never listened to me—because attorneys always know more than geologists and engineers—but he had investors who wanted to put money into a low-risk development project. Someone brought us one they thought was possibly a really good idea.

The plan was to take over the Grayburg-Jackson Unit, a shallow, 4.5 section unit on federal land—where you get to deal with the BLM—just east of Loco Hills, NM. This was an old field, originally drilled a long time ago, in an area where you were at the updip pinch-out at the north end of the Delaware Basin. The pay zone here was the Premier Sand in the Grayburg Formation, where there had been kind of a wrestling match between freshwater, saltwater, and oil. In some places, the oil won. In some places, it lost.

All the original wells had been drilled on 40-acre spacing. They had seven-inch casing set down to the top of the Premier Sand. They were fracked using nitroglycerin, and the pay zone was left open hole.

We looked at it pretty hard. It was being offered through a company called Xeric Oil and Gas. I won't mention their names, but it was two guys from Midland.

We had an engineer study it for us. He said he thought we could go in there and re-drill some of these units. Some areas inside the unit hadn't been drilled up completely. He thought we could re-frack the wells, use more modern techniques, and that it looked like it could be a money-making deal. It was very shallow—just a little over 3,000 feet. We were able to negotiate a lower price, certainly lower than what they were asking, so we went for that deal.

I spent some time over in Loco Hills and found this really neat café there with a big old table in the corner. Everybody—whether they were a billionaire, a millionaire, or just a broke pumper—sat around that table and got to know each other, became friends.

I was told that right next door was a guy who had a pumping company, so I needed to go talk to him. Across the street was a company, Avon Energy, based out of Houston, and they were doing the same thing. They had a geologist and two engineers, and I was really looking forward to doing this project.

I went over to Avon. The engineers were out, but they told me the geologist was there. He told the receptionist to let me go back. So I went back and met with him—spent about a half hour. He showed me a lot of data they had.

As I was leaving, I got back to the receptionist and said to her, "You know, somehow I think I know that guy."

A couple minutes later, he came out and said, "I'm glad you're still here. I need to ask you a question. Were you my Little League manager?"

I was his Little League manager in Midland, way, way back. One of the engineers was actually his father, so I got reacquainted with everybody.

I knew we'd need a pumper, so I called that guy. He said, "Yeah, just come on over. What time?"



I told him.

"Yeah, come on in. Just come on in and shout for me."

So I went over there. I walked in. I didn't see anybody. I thought, "Well, these guys are playing a joke on me."

There was a pair of beautiful, naked legs sticking out from under a truck. I was shouting for him, and the legs started moving. She came out from underneath the truck. She was wearing a short shirt with oil all over it—and panties. She was their diesel mechanic.

She said, "Oh, I'll find him for you."

Lovely lady, but yeah, she was the diesel mechanic.

We made a deal with him and started doing all these things on the lease. But we had a little problem. None of it was working. It was just a disaster.

The whole plan was to go back and try to do it cheaply by re-fracking wells that had already been drilled. But when I started running some casing programs, it looked like nobody had any cement behind any of the casing.

I said, "Well, if we go in here and frack, that frack fluid is just going to come ripping up through the annulus." The annulus is what's behind the casing, between the casing and the formation. Without cement in the annulus—without a cement job—there's no way to keep that frack fluid from going into the formation. It's just going to wash up through the annulus to the surface.

So the first couple of times, we tried something on a few of the wells which did have cement. I had them bring out water and pressure it up—pretending we were fracking using water. Of course, it came running straight up and blew out at the surface right away.

We said, "Okay, we cannot do fracks unless we do cement jobs."

We did try a couple. They didn't really work. We got a little bit of increase—but not much, especially for the cost.

Then I had another idea. We needed to get a wellhead. We had a well that wasn't producing at all—it was dead. I had the pumper go over and get the wellhead off of it.

A couple days later, the well blew up. It blew oil all over the place.

We were out there on federal land, in the sand dunes. Turned out, the reason the well was dead was because there was a big plug of barium sulfate in the wellbore. When that blew out—well, you take the wellhead off, all of a sudden the pressure hits it from above. And the wellhead itself was holding some of that pressure back. You take it off, reduce the pressure—and boom. Here it came. Like a bomb blowing out.

We got oil everywhere.

This is federal land. We had to cover up the oil. Yeah, not good.

Also, I saw that these wells had a little flip wheel on the casing right at the surface. If you flipped it, it would open a little hole and reduce the backside pressure. Some of these wells that had been making a barrel and a half or two barrels a day started making eight.



I went around for a couple of days and noticed that, with that little flip valve open, there was water seeping out. It was watering all the little rodents in the sand dunes. A little bit of gas came out too—hydrogen sulfide. So all the little rodents got killed by the poisonous gas. But then great horned owls and other animals—who love to eat rodents—saw all the dead critters and thought, “Wow, that’s a smorgasbord.”

They went over to eat them—and the next thing you know, they’re dead too. So we were having to hide a lot of critters in the sand dunes. Well, that’s what we thought about doing, anyway. Just joking—we would never do a thing like that!

The BLM had an office over in Artesia. The person in charge was a very good-looking young lady with a degree in environmental science. She hated all of us. There are thousands of wells along that whole slope and she decided to go after everybody.

This one unit we bought—the Grayburg-Jackson Unit—had a part that twenty-some-odd years before we were involved, that part had two wells. Both had been plugged according to State and Federal ordinances and approved by the State. That quarter section had been severed from the unit—it was no longer part of it. We never had any right, title, or interest in it.

She contacted me and said we needed to open a road to it, unplug those wells, and replug them according to her own specifications. Then shut the road down again, planting all the native plants she listed—exactly how many, how far apart, everything.

I told her, “No, we never owned any of that. It’s not our responsibility. Plus, they were already approved by the Federal government.”

She said, “I don’t care. I’m going to make your life real, real tough.”

I went over and met with her in Artesia. She was about as nasty as you could get. But golf matters.

I’d been playing in tournaments in Hobbs and Roswell and met a fairly prominent politician on the golf course. I told him about this.

He said, “Don’t worry about it.” We never heard from her again.

I found a company that could put a tool on the well to suck off the backside pressure, so I didn’t have to keep the valve open and release H₂S. I hired them and had them put the tools on some wells. They got production up a little—not fantastic, but better.

One thing I really wanted to do was drill a section up in the northeastern part. It had never been drilled. Avon Energy had some success drilling nearby, but their other leases didn’t work out too well. Unfortunately, I couldn’t go talk to them anymore because their management from Houston had come out, called a meeting, and when the engineers got there, they were told:



“You’re all terminated. How you get home is your own affair.”

They took the keys to their company vehicles. One guy lived in Seminole, Texas. Two others lived in Carlsbad, New Mexico. They were on their own.

Eventually, this whole project was taking up 95% of my time and producing 5% of our income. We were able to sell it.

It was one of the happiest days of my life.

One of the reasons I was able to sell it was because, up on that northeast corner that had never been drilled, I said, “That would be a really good place to drill.”

The people who bought it from me were from Denver. They followed my advice, drilled two wells up there—and they made really good wells. Those two made more than all the others combined.

Of course, the attorney in California had never listened to me about that. Of course not.

Then the people in Denver said, “Hey, that worked so well—let’s go do a bunch of other stuff.”

They tried to copy what we did—but it didn’t work for them either.

Please don’t ever show me another deal in that area.



432-683-8057
MidlandEnergyLibrary.net

Oil and Gas Data for the Permian Basin

*Logs, Mudlogs, Sample Logs, Core Analysis,
Drill Stem Tests, Paleo Data, Velocity Data,
Log Scanning, and Geotech Services*

How to submit Articles, Forms, Photos, News Items, Calendar Notices, Advertisements, and Letters to the WTGS Bulletin:



The WTGS Bulletin is a bi-monthly publication: January-February; March-April; May-June; July-August; September-October; November-December

All submissions need to be received by the 10th day of the month before the upcoming publication. I.e. A submission for September-October would need to be received by August 10th.

Technical Articles:

- Text submissions should be submitted in either PDF or DOCX format
- Approved Fonts: Arial, Times
- Body Font Size: 11
- Title at Top, Centered, Bolded
- Authors and Contact information underneath, centered
- Illustrations, Pictures, Graphics should be integrated into the article at appropriate sections. Utilize PNG, TIFF, PDF, or BITMAP files for pictures, as these are lossless formats
- Include the Illustrations, Pictures, Graphics separately in lossless format for potential resizing needs

Permian/OilField Perspective Articles and Letters:

- Text submissions should be submitted in either PDF or DOCX format
- Approved Fonts: Arial, Times, Franklin, Georgia
- Body Font Size: 11
- Title at Top, Centered, Bolded
- Authors underneath, centered
- Illustrations, Pictures, Graphics should be integrated into the article at appropriate sections. Utilize PNG, TIFF, PDF, or BITMAP files for pictures, as these are lossless formats.
- Include the Illustrations, Pictures, Graphics separately in lossless format for potential resizing needs

Forms:

- Text submissions should be both digital and hard copy. Digital in either in PDF or DOCX format. Formatting can remain per how the form was originally designed
- Illustrations, Pictures, Graphics integrated into form should ideally utilize PNG, TIFF, PDF, or BITMAP files.

Photos:

- Submit any relevant photos to the WTGS Bulletin! It could be utilized on one of our covers, or write out short captions for us to display as in our Permian/OilField Perspective Section!
- Acceptable Files: TIFF, PNG, PDF
- If using JPG/JPEG: Maximize quality, and save as Baseline ("Standard") for maximum quality and the least amount of compression
- If files are large, create and share a link to files through GoogleDrive or DropBox

Calendar Notices/Short Items:

- Relevant community calendar notices and other short items may be informally sent through email
- For Calendar Notice, please note: Society, Date, Event Type, Event Speaker (if relevant), Event Title

Submissions to WTGS Editor-in-Chief: Katrina Soundy (Katrina.Soundy@chevron.com)

Potential Advertisers:

See "Advertising" link at <http://www.wtgs.org> or call (432) 683-1573 for more information on submitting advertisements to the Bulletin.

Help:

The WTGS staff will be happy to assist with questions about submissions: wtgs@wtgs.org, or (432) 683-1573.



WTGS PROFESSIONAL DIRECTORY

BULLETIN ADVERTISERS SUPPORT THE COST OF PUBLISHING THIS BULLETIN

TOM SELMAN selmanlog.com tselman@selmanlog.com Ofc. (432) 563-0084 (800) 578-1006 Cell (432) 288-2259 SELMAN AND ASSOCIATES, LTD. GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES P.O. Box 61150 Midland, TX 79711 P.O. Box 2993 Rock Springs, WY 82902	Cairnmore Resources, LLC Oil and Gas Consulting: U.S.A. & International George A. Hillis President 8824 Glen Hollow Drive Fort Worth, Texas 76179-2910 Office: (817) 236-1519 Cell: (817) 475-6454 gahillis25@gmail.com	TRAVCON Geology Darrell Mauldin Petroleum Geologist 401 Cypress St., Suite 602 Abilene, Texas 79601 Consulting PETRA Prospects (325) 677-4100 Fax (325) 677-4102 damaul@travconexp.com
WATSON DEVELOPMENT COMPANY Oil & Gas Properties WILLIAM G. WATSON CERTIFIED PETROLEUM GEOLOGIST P.O. BOX 2253 MIDLAND, TEXAS 79702 (432) 683-3131 (432) 697-1170	Stephen R. Robichaud, PG, CPG AAPG Certified Petroleum Geologist #3087 Licensed Professional Geoscientist TX #1421 P. O. Box 81051 Midland, TX 79708 Bsn: 432-685-0739 Cell: 432-352-5195 Geologic Consulting Lease Evaluation Drilling Prospects Production Acquisition Wellsite Evaluation Disposal Wells Web: www.echelonexp.com e-mail: srobichaud@alum.rpi.edu	Mid Lavaca Energy Company P.O. Box 2253 Midland, Texas 79702 432-683-3131
SUNTURA LLC J.P.F (Pat) Welch Independent Geologist Prospect Generation • Energy Consulting Conventional & Unconventional Exploration & Development 432-553-8418 jptwelch@gmail.com	LUFHOLM & ASSOCIATES, INC. Integrated Reservoir Studies Peter H. Lufholm Texas P.G. Geology # 3928 AAPG C.P.G. #4008 4101 Stratton Drive Midland, Texas 79707-3564 Cell: 432-559-8742 Residence: 432-689-2216 plufholm@sbcglobal.net	GEOSITE, INC. Geological Services Serving the entire Permian Basin! 325-655-4356 geosite@geosite.us www.geosite.us
FIVE STAR LOGGING SURFACE LOGGING SERVICES Ben Magee Owner 432.681.3155 benmagee5star@gmail.com 5 Logging 2503 AUBURN PL MIDLAND, TX 79705 www.fivestarlogging.com	FIVE STATES ENERGY COMPANY, LLC We buy producing operated and non-op working interests James A. Gibbs Chairman 4925 Greenville Ave., Suite 1220 Dallas, TX 75206 www.fivestates.com Office: (214) 363-3008 Direct: (214) 560-2575 Fax: (214) 363-5734 jagibbs@fivestates.com	PREMIER COREX Joe Ramirez General Manager, Labs C: 432-864-4753 joe.ramirez@premiercorex.com premiercorex.com 2109 Carter Avenue Midland, TX 79701
Acquisition Processing Interpretation Project Management Jasha Cultreri GEOPHYSICIST INVERSION PROCESSING AND INVERSION INTERPRETATION 60 Vaquero Rd. Santa Fe, NM 87508 Ofc: 505-466-1160 Cell: 432-559-8948 jashac@aol.com	REMNANT RESOURCES CLAY BREWER LANDMAN (254) 631-7451 CLAYBREWER@REMNANT-RESOURCES.COM SERVICES LEASE CHECKS PROSPECT LEASE ACQUISITION LAND PROJECT MANAGEMENT LAND BANK DUE DILIGENCE	



INDEX TO ADVERTISERS

18	Beryl Oil and Gas	25	Mid Lavaca Energy Company
25	Cairnmore Resources, LLC	23	Midland Energy Library
CVR	Core Craft	14/25	Premier Corex
19	Core Lab	25	Remnant Resources
6	Echelon Exp. & Prod. Company	CVR/25	Selman and Associates
25/27	Five States Logging	6	SIPES
CVR/25	Five States Energy Company, LLC	25	Stephen R. Robichaud
25	Geosite, Inc.	25	Suntura, LLC.
CVR	AVAILABLE	CVR	Suttles Logging, Inc.
25	Jasha Cultreri	CVR	The Subsurface Library
15	Lone Star Production Company	25	TravCon Geology
25	Lufholm & Associates, Inc.	25	Watson Development Company
13	Mainlog Mud Logging Software		



FIVE STATES[®]
ENERGY CAPITAL, LLC

We want to buy your
producing oil & gas
properties (Op and Non-Op)

Actively Buying in Major Basins



**\$5 - 50 MM
Transactions**

Core Focus Areas

Permian | East TX | Midcon | Rockies
Upstream - Proved High R/P

www.fivestates.com

Thomas Edwards

Director - Asset Acquisitions & Development
tedwards@fivestates.com
972-860-1135



THIS SPACE IS AVAILABLE!

**Contact the WTGS office @ 432.683.1573 or
email wtgs@wtgs.org to
reserve this 'preferred' ad space.**

BULLETIN

P.O. Box 1595
Midland, TX 79702

THE SUBSURFACE LIBRARY

The Permian's Best Well Data since 1962**Unique Datasets**

(Current & Historical)

- Over 1,000,000 Well Logs (Many Unreleased / Donated)
- Sample Logs & Descriptions + Mud Logs (Handwritten Notes from Driller's Logs)
- 8 Scout Ticket Collections (4 have Handwritten Tickets)
- 4 Scout Card Collections
- Logs & Tickets Searchable on our Website

**Midland Map Company Maps** **New**

(Countywide Land Maps)

- Current Lease Activity
- Current Well Spots
- Surface Ownership Data
- Well Data
- IHS Production & Well Data (Current & Historical - Updated Nightly)
- Reciprocity with 12 Well Data Libraries in TX, NM, OK & CO

600 West Ohio Ave • Midland, TX 79701
(432) 683-5588 • info@subsurface.info**WWW.SUBSURFACE.INFO**In & Out-of-Town Memberships
Geo-Tech Service Available

CORE CRAFT ETC.

- OilField Core Gifts
- Fossils
- Minerals
- Jewelry
- Crystals

1112 North Big Spring Street
Midland, Tx 79701
432-687-1631 Monday- Saturday✉ corecraft@hotmail.comcheckout our
Facebook