

Alluvial Stacking Patterns p. 9 LA & TX Permits p. 15





**T**his year rages on as Laura, Marco, and Sally caused a third (1/3) of the Gulf Coast's offshore oil production and 25% of its gas production to be shut-in. Hurricane Laura has devastated the Lake Charles communities and the surrounding areas. Many neighborhoods remain without electricity weeks after the storm and others face months before they will be able to rebuild their home. Natural gas service companies are stepping up and delivering high capacity, natural gas generators to powerless areas. Locally, the Department of Homeland Security re-purposed close to five dozen new campers at the Lake Bistineau State Park self-quarantine station to serve as shelter for hurricane evacuees. It is our sincere hope that these communities will be spared by what seemed to be a defunct tropical system that has come back to life; Tropical Storm Beta's path continues to veer toward the Louisiana Gulf Coast.

We are nearing the end of the predetermined 2020 hurricane names, wildfires rage in Oregon and California, and the US National Weather Service works to confirm (with the assistance of disputing other higher records from early in the 1900's) that the 130°F recorded in Death Valley on August 16th, 2020 is the highest temperature ever recorded on Earth. It should come as no surprise that climate change will be a major topic during the upcoming presidential debates. The Biden/Harris ticket has conveyed their opposition to the use of fossil fuels and the fracking method the industry uses to extract hydrocarbons; Biden went as far as to say his administration would "make sure it's eliminated". The Trump campaign maintains that the industry's jobs associated with fracking are critical to the economies of the petroleum-rich states. With the recent passing of Justice Ruth Bader Ginsburg, President Trump finds himself with a third Supreme Court vacancy to fill, and, with the election less than two months away, a fight over a replacement's nomination looms. This battle of the nomination process and the grind of the final stretch to election day will likely fit well into the year 2020.

Our first monthly meeting of the year was a great success. We saw a strong turnout of members who opted to attend our Petroleum Club luncheon in person and imbibe Greg Salter's "Is It the Rock or the Frac?" presentation. There was also an equally large crowd of members who were able to join us remotely through Zoom. Everyone's participation was greatly appreciated. Ian Byram's coordination was critical to pulling off the new, digital arrangement and he deserves to be commended for its success.

The ALTAPL-SGS Golf Tournament is quickly approaching; I hope to see many of our members there. Finally, our annual Geology & Wine dinner is approaching in November. Please, see the newsletter for more details.

Moving forward, Matthew Chumley



Keep in Touch through the Shreveport Geological Society LinkedIn Group.



The rock kit is ready (*pictured left*). E-mail Maps in Schools Chairman Matthew Chumley at <u>mchumley@naguss.com</u> to give a talk with the kit and present a geologic map to a class of future geoscientists.

# Faithful Friends 2019 - 2020

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# **Calendar of Events**

<	October 2020					
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18	19	20	21	22	23	24
25	26	27	28	29	30	31

View this interactive calendar at SGS1.org

October 16 RSVP for the monthly meeting

October 20 Monthly Meeting Dr. Stacy Atchley presents "The Application of Alluvial Stacking Patterns to One-Dimensional Sequence Stratigraphy" In-person 11:30 a.m. - 1 p.m.; Petroleum Club 15th Floor Virtual 12:00 p.m. - 1 p.m. Zoom

> <u>November 20</u> Annual Geology and Wine Dinner Meeting

**On the Cover:** "Scenic Photo of Grand Canyon During Daytime" by Ian Beckley, stock photo courtesy of Pexels.com.

Interior Art: Page 1 "Saturn's Stormy Weather" (detail) by Christine Bailey. Courtesy of the Bailey Gallery, online at <u>bailey-gallery.com</u>. Page 7 "Blue Ridge" (detail) by Mary Virginia Hill, now showing at the Bailey Gallery through October 31.

Got news? Geology photos for the cover? Meeting page art? Email it to the editor today: <u>1RachelMcNerney@gmail.com</u>



# The October Meeting Make your

RESERVATION

## **Stacy Atchley**

<u>presents</u> "The Application of Alluvial Stacking Patterns to One-Dimensional Sequence Stratigraphy"

#### **Tuesday, October 20**

Virtual 12:00 p.m. Zoom \$10

#### **In-Person**

11:30 a.m. Petroleum Club of Shreveport \$20 (Children 10 and under \$8)

We encourage members to invite guests, spouses, and friends to any of our meetings.

If you'd like a seat, kindly **RSVP** by **Friday**, **October 16** at <u>SGS1.org</u>

Name:

I will bring \_\_\_\_ guest(s):\_\_\_



# **Stacy Atchley**

**S**tacy Atchley received both his B.S. and M.S. degrees from Baylor University during the 1980s and Ph.D. from the University of Nebraska, Lincoln in 1990. Upon graduation he worked for seven years for Exxon Company, U.S.A., Exxon Exploration, and Exxon Production Research. Since his time at Exxon, Dr. Atchley has served (and currently serves) as director of the Applied Petroleum Studies (APS) program at Baylor University. Within the APS program, Dr. Atchley has directed applied student research projects in



the Anadarko, Permian and Alberta Basins related to both production optimization and regional exploration assessment.

#### Abstract

#### "The Application of Alluvial Stacking Patterns to One-Dimensional Sequence Stratigraphy"

Modern sequence-stratigraphic theory has its foundation in the works of L.L. Sloss and W.C. Krumbein (1940s to 1960s) and several Exxon researchers (1970s to 1990s). These works largely focus on the nature and origin of sedimentary cycles within marine stratal successions. Since that time, sequence-stratigraphic concepts have evolved to include the analysis of terrestrial strata. Historically, the recognition of unconformity-bounded cyclic stratal units (such as sequences) has relied upon the geometric relationships of strata, i.e., onlap, toplap, truncation and downlap, within two- and/or three-dimensional outcrop or subsurface successions. Oftentimes, however, outcrops or boreholes are isolated, and do not preserve these diagnostic stratal relationships. In such instances, documentation of changes in the vertical succession of strata, rather than lateral, may allow reconstruction of the cyclic accommodation history and placement of associated bounding discontinuities. This technique, referred to as "stacking pattern" analysis, was originally developed for shallow-marine carbonate successions. More recently, the stacking pattern methodology has been similarly applied to alluvial successions, and takes into account the unique processes of terrestrial deposition and



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pedogenesis. The most conspicuous, and fundamental cyclic stratal unit recognized within alluvial settings are fluvial aggradational cycles (FACs). FACs are meter-scale, typically fining-upwards successions that have a disconformable lower boundary and an upper boundary that either has a paleosol weathered into it, or is disconformably overlain by the succeeding FAC without a paleosol. FACs are thought to represent sediment accumulations during channel avulsion events that are subsequently weathered during the following period of channel stability. A thick succession of FACs indicates sediment accumulation during a prolonged episode of accommodation gain. Variations in the rate of accommodation gain (and loss) are interpreted to result in the organization of FACs into alluvial sequences, and longer period composite sequences. Episodes of base-level rise result in relatively rapid rates of alluvial aggradation and less developed and more poorly-drained paleosols. Associated FACs are thicker than average and transition from initially lower sinuosity-, higher-competence alluvial systems to comparably higher sinuosity, lower competence channel deposits. As base-level rise decelerates and initially falls, paleosols become increasingly well-developed and better drained, and FACs are thinner than average and transition to even lower competence, higher sinuosity channel sandstones that are more extensive due to prolonged channel migration under low accommodation conditions. During base-level fall, the incisement of alluvial valleys produces sequence boundaries that are infrequently flooded across interfluve areas. FACs across interfluve positions are much thinner than average and are characterized by the most well-developed and best-drained paleosols.

Application of the alluvial stacking pattern methodology is demonstrated within three case studies. Case study 1 from Big Bend National Park, Texas, considers a latest Cretaceous to earliest Tertiary passive margin, coastal plain succession, and correlates alluvial sequences and associated climate and ecosystem changes to eustatic sea level oscillations. Case study 2 from northern and northeastern New Mexico, documents a Late Triassic foreland basin succession where tectonicallyinduced accommodation events are correlated between isolated outcrop successions that are 200 km apart. Case study 3 from central New York, demonstrates how stacking pattern analysis allows correlation of a Middle Devonian alluvial composite sequence with equivalent regressivetransgressive marine strata along a convergent plate boundary.



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## Monthly Permits – August 2020 Provided by ABCD GIS Mapping

#### **Texas Permits**

AppDate	API	Operator	County	Purpose	TD
8/7/20	36538430	SABINE OIL & GAS CORPORATION (742143) ROCKCLIFF ENERGY OPERATING LLC	PANOLA	New Drill	12300
8/7/20	20335429	(722890) ROCKCLIFF ENERGY OPERATING LLC	HARRISON	New Drill	13000
8/7/20	20335430	(722890) ROCKCLIFF ENERGY OPERATING LLC	HARRISON	New Drill	13000
8/7/20	20335431	(722890) ROCKCLIFF ENERGY OPERATING LLC	HARRISON	New Drill	13000
8/12/20	36538565	(722890) ROCKCLIFF ENERGY OPERATING LLC	PANOLA	New Drill	13000
8/12/20	36538570	(722890)	PANOLA SAN	New Drill	13000
8/14/20	40530724	AETHON ENERGY OPERATING LLC (008555)	AUGUSTINE	New Drill	13100
8/14/20	40134300	BUFFCO PRODUCTION INC. (106406) T W CLEMONS OPERATING CO., LLC	RUSK	Recompletion	10816
8/18/20	20334563	(834248) T W CLEMONS OPERATING CO., LLC	HARRISON	Recompletion	6950
8/18/20	20335103	(834248)	HARRISON	Recompletion	6906
8/19/20	40135460	SABINE OIL & GAS CORPORATION (742143)	RUSK	New Drill	11700
8/19/20	40135461	SABINE OIL & GAS CORPORATION (742143) ROCKCLIFF ENERGY OPERATING LLC	RUSK	New Drill	11700
8/21/20	36538568	(722890) ROCKCLIFF ENERGY OPERATING LLC	PANOLA	New Drill	13000
8/21/20	36538371	(722890) ROCKCLIFF ENERGY OPERATING LLC	PANOLA	New Drill	13000
8/21/20	36538373	(722890)	PANOLA SAN	New Drill	13000
8/24/20	40530725	AETHON ENERGY OPERATING LLC (008555)	AUGUSTINE	New Drill	14000
8/24/20	20335432	COMSTOCK OIL & GAS, LLC (170038) ROCKCLIFF ENERGY OPERATING LLC	HARRISON	New Drill	11583
8/25/20	36538573	(722890) ROCKCLIFF ENERGY OPERATING LLC	PANOLA	New Drill	13000
8/25/20	36538574	(722890) ROCKCLIFF ENERGY OPERATING LLC	PANOLA	New Drill	13000
8/25/20	36538575	(722890)	PANOLA	New Drill	13000
8/25/20	40133783	SABINE OIL & GAS CORPORATION (742143)	RUSK	Recompletion	10945
8/27/20	18381326	MIKEN OIL, INC. (566783) ROCKCLIFF ENERGY OPERATING LLC	GREGG	Reenter	3700
8/28/20	36538572	(722890) ROCKCLIFF ENERGY OPERATING LLC	PANOLA	New Drill	13000
8/28/20	36538578	(722890)	PANOLA	New Drill	13000

See map and Louisiana Permits on following pages.

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Map



See Louisiana Permits listed on following page.

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			Permit		
County	WellSN	WellName	Date	Depth	Organization
CADDO	252406	GAMM R	8/13/20	2400	MARK SEIFER
		HA RA SU77; MAIDEN29&32-15-			
CADDO	252418	15HC	8/18/20	23589	CHESAPEAKE OPERATING, L.L.C.
		HA RA SU77; MAIDEN29&32-15-			
CADDO	252419	15HC	8/18/20	23400	CHESAPEAKE OPERATING, L.L.C.
CADDO	252420	HA RA SU77;FERNS 298:32-15-	0/10/20	22504	
CADDO	252420	15HC	8/18/20	23584	CHESAPEARE OPERATING, L.L.C.
CADDO	252421	15HC	8/18/20	23385	CHESAPEAKE OPERATING 1.1.C
cribbo	232421	HA RA SUK:BROWN 14&23-15-15	0/10/20	25505	chebra crate of charmo, e.e.e.
CADDO	252426	нс	8/19/20	23552	CHESAPEAKE OPERATING, L.L.C.
		HA RA SUK; BROWN 14&23-15-15			
CADDO	252427	HC	8/19/20	23544	CHESAPEAKE OPERATING, L.L.C.
CADDO	252430	HA RA SUEE; RWOOD 16-21 H	8/21/20	21600	TRINITY OPERATING (USG), LLC
CADDO	252431	HA RA SUEE; RWOOD 16-21 H	8/21/20	21600	TRINITY OPERATING (USG), LLC
CADDO	252432	HA RA SUDD;RWOOD 9-4 H	8/21/20	21600	TRINITY OPERATING (USG), LLC
CADDO	252433	HA RA SUDD;RWOOD 9-4 H	8/21/20	21600	TRINITY OPERATING (USG), LLC
CADDO	252434	HA RA SUFF;T&A LLC 8-5 H	8/21/20	21650	TRINITY OPERATING (USG), LLC
CADDO	252435	HA RA SUGG;T&A LLC 9-4 H	8/21/20	21650	TRINITY OPERATING (USG), LLC
CADDO	252437	HA RA SUK;CLH 14&11&2-15-15HC	8/25/20	24456	CHESAPEAKE OPERATING, L.L.C.
CADDO	252438	HA RA SUK;CLH 14&11&2-15-15HC	8/25/20	24344	CHESAPEAKE OPERATING, L.L.C.
DE SOTO	252400	HA RA SU68;SCALES HEIRS36-25HC	8/5/20	23500	VINE OIL & GAS LP
DE SOTO	252404	RICHARDSON 27	8/12/20	7300	FONTAINEBLEAU OPERATING, LLC
		JUR RA SUA; MG TRUST 29-20-	101 NO 14		
DE SOTO	252414	17HC	8/14/20	24000	GEP HAYNESVILLE, LLC
		JUR RA SUA; MG TRUST 29-20-			
DE SOTO	252415	17HC	8/14/20	24000	GEP HAYNESVILLE, LLC
DE SOTO	252422	HA RA SUF;NABORS 33-13-12 H	8/18/20	17954	CHESAPEAKE OPERATING, L.L.C.
DE SOTO	252423	HA RA SUF;NABORS 33-13-12 H	8/18/20	17938	CHESAPEAKE OPERATING, L.L.C.
DE SOTO	252424	HA RA SU68;SABINE 36-25 HC	8/19/20	23500	VINE OIL & GAS LP
DE SOTO	252425	HA RA SU68;SABINE 36-25 HC	8/19/20	23500	VINE OIL & GAS LP
DE SOTO	252428	JUR RA SUF;CREST 30-19 HC	8/19/20	21000	VINE OIL & GAS LP
DE SOTO	252429	JUR RA SUF; CREST 30-19 HC	8/19/20	21500	VINE OIL & GAS LP
DE SOTO	252436	HA RA SUE;BOISE 15-10 HC	8/25/20	24000	COMSTOCK OIL & GASLA, LLC
DE SOTO	252439	HA RA SU68;SABINE 36-25 HC	8/25/20	23500	VINE OIL & GAS LP
RED RIVER	252395	HA RB SU72;TRACY 3-10 HC	8/3/20	20183	AETHON ENERGY OPERATING LLC
<b>RED RIVER</b>	252396	HA RB SU72;TRACY 3-10 HC	8/3/20	20140	AETHON ENERGY OPERATING LLC
RED RIVER	252397	HA RB SU72; TRACY 3-10 HC	8/3/20	20199	AETHON ENERGY OPERATING LLC
RED RIVER	252403	HOSS RA SUU;ELMWOOD LAND 26	8/12/20	7500	EGH OPERATING, LLC
RED RIVER	252416	HA RB SU93;CLARK 24-13 HC	8/14/20	23500	BRIX OPERATING LLC
RED RIVER	252417	HA RB SU93;CLARK 24-13 HC	8/14/20	21500	BRIX OPERATING LLC

See Map and Texas Permits listed on previous pages.



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# In Memoriam: John T. Palmer



**J**ohn T. Palmer died on Monday, August 31, 2020 at his home in Shreveport, LA. A memorial service will be held at a later date due to Covid-19 restrictions.

John was born on February 21, 1928 in Bethlehem, Pennsylvania, where he received his Bachelor's degree in geology from Lehigh University in 1948. He married Marilyn Grube in 1949 and they moved to Shreveport, Louisiana.

He began his career with Standard Oil and Gas Company as a scout-geologist in Shreveport, Louisiana. He joined Lyons Petroleum, Inc. in 1951 where he was responsible for several new field discoveries and field extensions in some 25 separate areas across East Texas, North Louisiana and South Arkansas.

John became an independent geologist in 1970 and continued his successes in East Texas. His field discoveries continued into North Louisiana at Red Oak Lake and a significant extension of the Danville Field. He formed Palmer Petroleum, Inc. in 1977 and served as its President and Chairman of the Board where he continued to go to work until March of this year. An AAPG member for 67 years, Mr. Palmer was a Certified Petroleum Geologist and has remained active in both local and national geological organizations. He actively supported the Independent Petroleum Association of America and helped organize and served as President of the Louisiana Association of Independent Producers and Royalty Owners (LAIPRO), now LOGA. One of his proudest accomplishments was that he was one of seven geologists who founded the Shreveport Petroleum Data Association and remained a member until his death.

John was a brilliant geologist and a man known for great integrity, honesty and a witty sense of humor. He loved all sports, and had a great passion for fishing, particularly at his home-away-from home on Little Cayman Island in the Caribbean. He enjoyed playing Gin Rummy with his buddies and discussions at The Table of Knowledge, whom he frequently lunched with at the Petroleum Club, and thoroughly enjoyed the company of his Shreve Syndicate partners. He was also a member of the IRI group.

John was a generous contributor to the community. He was on the Centenary College of Louisiana Board of Trustees, Shreveport Committee of 100, past President of the Petroleum Club of Shreveport, past President of Southfield School, and The honorary recipient of The Wildcatters Association.

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