



KANSAS GEOLOGICAL SOCIETY

BULLETIN

Volume 94 Number 5

September - October 2019

Established 1925

IN THIS ISSUE

KGS Events:

35th Annual KGS Fishing Tournament - September 13, 2019 page 13
Annual KGS Golf Tournament - September 23, 2019 page 16

AAPG Mid-Continent Section Meeting:

Field Trip Meramecian-Chesterian Strata and Core in Oklahoma on October 3-4 page 15
Short Courses on October 5-6
Convention from October 5-8

Memorial for W. Lynn Watney
Pics from KGS Brewery Meet

page 10
pages 16-19





THE TOTAL PACKAGE

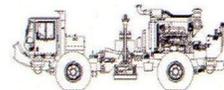
www.dawson3d.com



MIDLAND 432-684-3000 | HOUSTON 713-917-6772
OKLAHOMA CITY 405-848-7512 | DENVER 303-723-0440
PLANO 972-881-1099 | CALGARY 403-263-7770

Use Your KGS Library For All Your Printing Needs

Old photos?
Old documents?
We can scan them for you!



*Proudly Celebrating 25+ Years
Acquiring Seismic Data Throughout the
Continental United States*

WICHITA

Nicolle Jausel
(316) 636-5552
Nicolle@parangoneo.com

DENVER

Kim Nordberg
(303) 888-8885
Knordberg@parangoneo.com

HOUSTON

Brent Propst
(832) 643-5158
Bpropst@parangoneo.com

OKLAHOMA CITY

Joe Broussard
(405) 213-9859
Jbroussard@parangoneo.com

website: www.parangoneo.com

Robert F. Walters Digital Library

The most complete source for Kansas data

Database updated nightly

Day or Night

You can get to the data as you need it

www.kgslibrary.com

To Join: call 316-265-8676



We Invite You To join

Kansas Geological Foundation

*\$50.00 membership is
tax deductible*

Call 316-265-8676

*Or send checks to:
Kansas Geological Foundation
212 N. Market, Ste. 100
Wichita, KS 67202*

Table of Contents

Features

Memorial for W. Lynn Watney	page 10
Pics from the 2nd Annual KGS Brewery Meet	pages16-19

KGS Events:

35th Annual KGS Fishing Tournament - September 13, 2019	page 13
AAPG Mid-Continent Section Convention	page 15
Annual KGS Golf Tournament - September 23, 2019	page 16

Departments & Columns:

KGS Tech Talks	4
President's Letter	7
Advertiser's Directory	8
Professional Directory	22
Kansas Geological Foundation Cornerstone and KGF News	24-25
Kansas Geological Foundation Memorials	26-28
Exploration Highlights	30-31

ON THE COVER:

Folding in a shutter ridge, parallel to the San Andreas fault near Palmdale, California.

Photo by Marli Miller

CALL FOR PAPERS

The Kansas Geological Society Bulletin, which is published bimonthly both in hard-copy and electronic format, seeks short papers dealing with any aspect of Kansas geology, including petroleum geology, studies of producing oil or gas fields, and outcrop or conceptual studies. Maximum printed length of papers is 5 pages as they appear in the Bulletin, including text, references, figures and/or tables, and figure/table captions. Inquiries regarding manuscripts should be sent to manager@kgslibrary.com or mailed to 212 N. Market, Ste. 100, Wichita, KS 67202. Specific guidelines for manuscript submission appear in each issue of the Bulletin, which can also be accessed on-line at the Kansas Geological Society web site at <http://www.kgslibrary.com>

SOCIETY Technical Meetings

September 4 - Kyle Stephenson PetroBase *“Turn Public Oil & Gas Data Into an Asset: A Case Study of the Oklahoma Stack & Kansas & Oklahoma Mississippian Lime Plays”*

September 18 – Kristie Ferguson *“Anadarko Basin: Granite Wash”*

October 5 – 8 – MSC AAPG Convention - Double Tree Hotel at Eisenhower National Airport in Wichita, KS

October 23 – Luke Rijksogel *“Integrating Seismic Attributes and Well Logs in Reservoir Characterization: Predicting Porosity for Reservoir Facies, Wellington Field Kansas “*

Please remember to check the website for the most up to date information on Technical Talks
<http://www.kgslibrary.com/techtalks.cfm>

*Tech Talks are held at Landmark Square
212 N. Market—4th floor
In the Wisdom Center*



Note: For those geologists who need 30 points to renew their licenses, there will be a sign-in sheet at each presentation and also a certificate of attendance.

KANSAS GEOLOGICAL SOCIETY



BOARD OF DIRECTORS

PRESIDENT

Wesley Hansen

SECRETARY

Robert Stolzle

DIRECTORS

Beth Isern
Ryan Dixon
Doug Davis

PRESIDENT-ELECT

Tim Lauer

TREASURER

Aaron Young

ADVISORS

Rocky Milford
Kent Crisler

BULLETIN STAFF

EDITOR

Wes Hansen (316) 772-6188

ADVERTISING

Kent Scribner
Stelbar Oil Corp. (316) 264-8378

MEMORIALS

Wesley Hansen

EXPLORATION HIGHLIGHTS

John H. Morrison, III
Independent O&G (316) 263-8281

STATE SURVEY

KS Geological Survey (785) 864-3965

SOCIETY NEWS

KGS Library (316) 265-8676

MANAGER

Wes Hansen (part time) (316) 265-8676

EDITORS EMERITUS

Wes Hansen (316) 772-6188
Larry Richardson (316) 262-8427

COMMITTEE CHAIRMEN

Advertising

Kent Scribner

Advisory

Rocky Milford

Annual Banquet

Kent Crisler

Bulletin

Doug Davis

Continuing Education

Wesley Hansen

Distinguished Awards

Beth Isern

Environmental

Kent Matson

Field Trip

Jerry Honas

Fishing Tournament

Randy Teter

Future Plans

Toby Eck

Golf

Rob Patton

Historian

Larry Skelton

Library

Ted Jochems

Membership

Larry Friend

Nomenclature

John H. Morrison, III

Picnic

Beth Isern

Public Relations

Shooting Tournament

Larry Richardson

Technical Programs

Doug Davis

Technical Committee

Ryan Dixon

Finance Committee

Tim Hellman, Chairman

Members: Rocky Milford, Chuck Brewer, David Doyel, and Tom Funk

K.G.S. LIBRARY

PHONE 316-265-8676 FAX 316-265-1013

email: frontdesk@kgslibrary.com or

Web: www.kgslibrary.com

A.A.P.G. DELEGATES

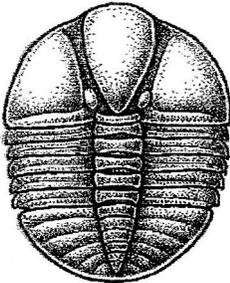
Douglas Davis
2021

Wesley Hansen
2021

The KGS *Bulletin* is published bi-monthly by the Kansas Geological Society, with offices at 212 North Market, Wichita, Kansas 67202 Copyright 2019, The Kansas Geological Society. The purpose of the *Bulletin* is to keep members informed of the activities of the Society and to encourage the exchange and dissemination of technical information related to the Geological profession. Subscription to the *Bulletin* is by membership in the Kansas Geological Society. Limited permission is hereby given by the KGS to photocopy any material appearing in the *KGS BULLETIN* for the non-commercial purpose of scientific or educational advancement. The KGS, a scientific society, neither adopts nor supports positions of advocacy, we provide this and other forums for the presentation of diverse opinions and positions. Opinions presented in these publications do not reflect official positions of the Society.



Twenty-two Trucks Serving
Kansas—Colorado—Texas—Nebraska—Illinois
DST's
Back Pressure testing (G1 & G2)
Slick line services using the same Weatherford
Electronic Pressure Gauges used on DST's



1-800-728-5369
FAX 1-785-625-5620

www.trilobitetesting.com
trilobite@eaglecom.net

SHOPS LOCATED IN:
Hays, KS
Scott City, KS
Pratt, KS
Hugoton, KS
Oberlin, KS
Clay City, IL

CAN YOU NAME THE CRITTER?

Sponsored by Trilobite Testing, Inc.

Is your paleo up to date?

If you know the name of the trilobite,
submit your guess via e-mail to
manager@kgslibrary.com

Remember that *Trilobite Testing* is
sponsoring your efforts, so be sure to thank
Paul Simpson the next time you see him.

CONGRATULATIONS!!

**Randy Lilak correctly identified
The last one as: Harpides**

**Bulletin committee members and PhD's in
Paleontology are prohibited from entering.**



Kansas Geological Society (KGS) Medallion for Scientific Distinction and Excellence

The Kansas Geological Society (KGS) Medallion for Scientific Distinction and Excellence may be given annually for peer-recognized, sustained significant scientific contributions to all facets of applied Kansas geology, including work either in Kansas or in surrounding states if the latter contributions pertain directly and significantly to Kansas geology. No more than one award may be given each year, an award does not have to be given every year, and members of the KGS Awards Committee that handle nominations for this award cannot nominate themselves for this award. The candidates need not be active KGS members, and they must be living at the time of selection. The primary consideration in the selection of a candidate shall be his or her sustained, published, significant contributions to any facet of Kansas geology. Contributions may be varied in form such as development of geologic concepts, advancement in discovery thinking, and recognized leadership in exploration concepts. Oral and/or written publications in peer-reviewed geological venues is a requisite criterion for any candidate for this award. The name of a candidate shall be presented by the Awards Committee to the KGS Board of Directors for their approval. Once approved, the recipient shall be presented an appropriate award in the form of a medallion or plaque recommended by the Awards Committee and approved by the Board of Directors at the annual business meeting of the society. This is a new award given by the KGS for distinction and achievement in Geological research in Kansas.

Awards Committee members are Sal Mazzullo, Mike Dealy and Alfred James.

President's Letter

Dear KGS members and friends,

Regrettably, oil prices have fluctuated between \$52-\$58 WTI and several dollars less in Kansas. Drilling activity remains depressed, but steady in Kansas. The fluctuating prices move in response to worries in the Middle East and supply changes. YTD at the KGS Library, income from sales has averaged \$7,469 per month. Sales, along with memberships and investments have kept the bottom line close to break even.

A reminder for September events at the KGS are the Fishing Tournament on September 13 and the annual KGS Golf Tournament on September 23rd. Info for these events are elsewhere in this issue of the Bulletin. The Mid-Continent Section Meeting of the AAPG will run from October 3-8, 2019. Details are on page 15. A big thanks

to Toby Eck, General Chair, Doug Davis, finance chair, as well as all other members of the Convention Committee. Thanks are also in order for all the corporate and individual sponsors of the various events. Without this financial support, we would not be able to undertake this important task.

On August 16, 2019, the 2nd Annual KGS Brewery Meet was held at Aero Plains Brewery in the Delano District of Wichita. Beth Isern was the Chair for this event. She did a great job of raising sponsorship money at a time when companies and individuals were being "hit up" for funds for KIOGA, fishing, golf and the MCS meeting. We went from 43 expected two days before the event to 68 on the day of the event and around 97 attendees the night of the event. Fortunately, the Four Star Barbeque food truck had sufficient food to feed the crowd. The staff at Aero Plains kept the beverages flowing for the thirsty crowd on a hot and humid day. Thanks to Jacob McCallie and his wife Jennifer from Diamond Testing for manning the check in table, along with Nick Hixon from Trans Pacific Oil Corporation. It appears the KGS will show a tiny profit of \$60 for the event.

On a somber note, the Kansas geologic community lost a stalwart member in July. W. Lynn Watney of the Kansas Geologic Survey passed away after a long battle with cancer. His memorial service will be on Saturday, September 7, in Lawrence Kansas. I urge as many readers as possible to attend his service to show just how much his work meant to the science of geology and also the Kansas Geological Society. His memorial is on page 10 of this issue along with suggested memorial contributions. Lynn was a past president and honorary member of our society.

Two other KGS members passed away in August. Peter G. Wilson of the Oklahoma City office of Beren/Berexco Corporation and Herbert Ray "Herb" Johnson, retired owner of Conch Oil, in Wichita, Kansas. Both of these gentlemen were frequent visitors at the KGS Library in years past.

That is all for now,
Wes



AAPG Section Meeting Updates

September 2019	Rocky Mountain September 15-18 Cheyenne, WY
October 2019	Mid-Continent October 5-8 Wichita, KS
	Eastern October 12-16 Columbus, OH
	Gulf Coast October 23-25 Houston, TX

Log in to
Walters Digital Library
At
www.kgslibrary.com

Log in as our guest
and see the Society's Database
A convenient way to see what
you might want to order!
Call or email your order to:
316-265-8676
frontdesk@kgslibrary.com

ADVERTISER'S DIRECTORY

	<i>page</i>
Dawson Geophysical Company	2
Duke Drilling	29
Kansas Geological Foundation	23
Lockhart Geophysical	29
Murfin Drilling Company, Inc	29
PARAGON Geophysical Services, Inc	2
PetroBase Explorer	12
Professional Directory	22
Trilobite Testing	6
Walters Digital Library	2

ADVERTISER'S RATES: 2019

Full Page	B&W	Color
6 issues	\$2,000	\$2,500
3 issues	\$1,080	\$1,325
1 issue	\$480	\$525
1/2 Page		
6 issues	\$1,000	\$1,500
3 issues	\$540	\$825
1 issue	\$225	\$350
1/4 Page		
6 issues	\$600	\$900
3 issues	\$325	\$525
1 issue	\$150	\$250
1/8 Page		
6 issues	\$300	\$500
3 issues	\$175	\$325
1 issue	\$75	\$185
Professional Ad (Business Card)		
6 issues	\$90	\$180

For one-time ads, call Kent Scribner at 316-264-8378

Thank you to the sponsors for the 2nd Annual KGS Brewery Meet

**GSI Engineering (Chuck Brewer)
Trilobite Testing (Paul Simpson) Souvenir Pint Glasses
Murfin Drilling Company, Inc.
Diamond Testing
Halliburton Energy Services
Plains Marketing LP
Lotus Operating
Oil Producers of Kansas
Jerry Honas**

A big thanks to Beth Isern for organizing this event and also to Jacob McCallie, his wife, Jennifer, and Nick Hixon for handling the check in duties.

Robert F. Walters Digital Library

Log in as our Guest

username: guest

password: guest

316-265-8676



**Let Us Print Your Geo Reports
And Save Your Time For Finding More Oil & Gas
Top Quality Color Printing For Our Membership**

Email your files to: kgsorders@gmail.com

Memorial

Willard Lynn Watney

Willard Lynn Watney, 71, passed away on Tuesday, July 9, 2019, in the loving arms of his wife. For almost three years, Lynn retained his “zest for life” in spite of the challenge of brain cancer.

Lynn was born in Mason City, Iowa on March 6, 1948, to Willard “Bill” and Lucille Watney. He grew up in Northwood, Iowa and graduated from Northwood-Kensett High School in 1966. He married his high school sweetheart, Karen, in 1969. He continued his education at North Iowa Area Community College and then at Iowa State University receiving a BS in 1970 and an MS in 1972, both in Geology. In 1985 he received his PhD in Geology from the University of Kansas. For the past 43 years, he fulfilled his passion for geology at the Kansas Geological Survey as a researcher and mentor to University of Kansas geology students and young scientists.

He began his career as an exploration geologist with Chevron Oil Company working out of New Orleans. In 1976, he accepted a position with the Kansas Geological Survey as an Assistant Scientist where he started his work on Kansas subsurface geology. He rose quickly through the ranks to become Senior Scientist, taking on the role of Section Chief as well as the Director of the Energy Research Center. In so doing, he developed warm friendships and close collaborations with colleagues at the Survey, the University, and industry in Wichita.

Ever the adventurous spirit, Lynn’s first visit abroad was to Bangladesh where he worked as a consulting geologist funded by U.S.A.I.D., when the country was under martial law. This was followed by work on geological projects in China, Europe, and elsewhere. He also hosted scientists from across the globe to work on cooperative research in the Kansas subsurface. Lynn was equally at home running operations on a Kansas drilling rig, leading a geology field trip, or making significant research presentations to scientific audiences. He did it all with such joy and passion and was that rare individual who was truly a “Renaissance geologist.” The list of his publications, service and honors is lengthy and worthy for someone who worked so tirelessly for his profession. Although seriously ill, he continued to visit his office and contribute to the current carbon storage problem almost to the end. But it is his generosity of spirit and sheer humanity that will be remembered by all those who know him. His passing will be mourned by so many, both here and across the globe.

Lynn was a cherished husband, father, grandfather, son, brother, friend, and colleague. Lynn’s life was committed to science and nature through continued study, exploration, research and teaching. He truly was, as his favorite t-shirt stated, a “force for science.” He loved the natural world: rocks, trees, wildflowers, animals, birds and the sky. Anytime there was a weather event around the world, his family could rely on a detailed minute by minute account. He enjoyed restoring and cultivating prairie grasses on his 40 acre farm, built and maintained a freshwater pond, and mowed his field astride his antique Allis-Chalmers tractors.

He is survived by his wife, Karen, daughter Chris Watney (Rob Gary), and granddaughter Rose Gary of Evergreen, Colorado. Another granddaughter was to be born in late July. He is survived by his



mother of Northwood, Iowa, brothers Gary (Kathy) of Albert Lea, MN and Roger (Elizabeth) of Anchor Point, AK, a sister Jill Watney of Albert Lea, MN and sister-in-law Mary (Brent) Brunsting of Mason City, IA. He also leaves nieces Amber Johnson and Sarah Peterson and nephews Nicholas Olson and Chase Johnson and their families. He was recently preceded in death by his father on April 25, 2019 and mother-in-law, Avis Amundson, on May 10, 2019. His father-in-law, Lester Amundson preceded him in 2008. He lost his beloved cat, BC, in 2018.

Lynn's service and honors with the Kansas Geological Society are as follows:

Honorary Member, Kansas Geological Society, 2013
Kansas Geological Society Medallion for Scientific Distinction and Excellence, 2018
Nomenclature Committee (Oil and Gas Fields), Kansas Geological Society, 1980's
Member, Organizing Committee Short Courses and Workshops, Mid-Continent AAPG Meeting, Wichita, 1991.
Chair, Technical Program, Kansas Geological Society, Fall 1998-Spring 1999
Director at Large, Kansas Geological Society Board of Directors, 1999-2000
Co-Chair Technical Program, Mid-Continent AAPG Meeting, Wichita, Sept. 9-11, 2007.
V.P. President-Elect (2008), President (2009), and Director (2010), Kansas Geological Society

The memorial service has been scheduled for Lynn Watney.

Date: Saturday, September 7, 2019

Time: 3:00 p.m. memorial, 4:00 to 6:00 p.m. reception

Location: Cider Gallery, 810 Pennsylvania St., Lawrence, Kansas

Online Donation: KU Endowment Association Online Donation Form: <https://securelb.imodules.com/s/1312/giving/interior.aspx?sid=1312&gid=1&pgid=349&cid=945>

Check or Cash: Send to KU Endowment, Attn: Gift Processing, PO Box 928, Lawrence, Kansas 66044-0928 OR Kelly DeBruin, Kansas Geological Survey, 1930 Constant Avenue, Lawrence, Kansas 66047

Be sure to note Lynn's name and Kansas Core Library fund #42306.

In addition, another memorial has been set up with the Kansas Geological Foundation in Wichita, KS. Any donations here are payable to the KGF in Lynn's name at:

Kansas Geological Foundation
212 N. Market, Suite 100
Wichita, KS 67202

PetroBase | Explorer

Search. Map. Analyze.

Explorer integrates Production & Well Data with greater clarity and ease!

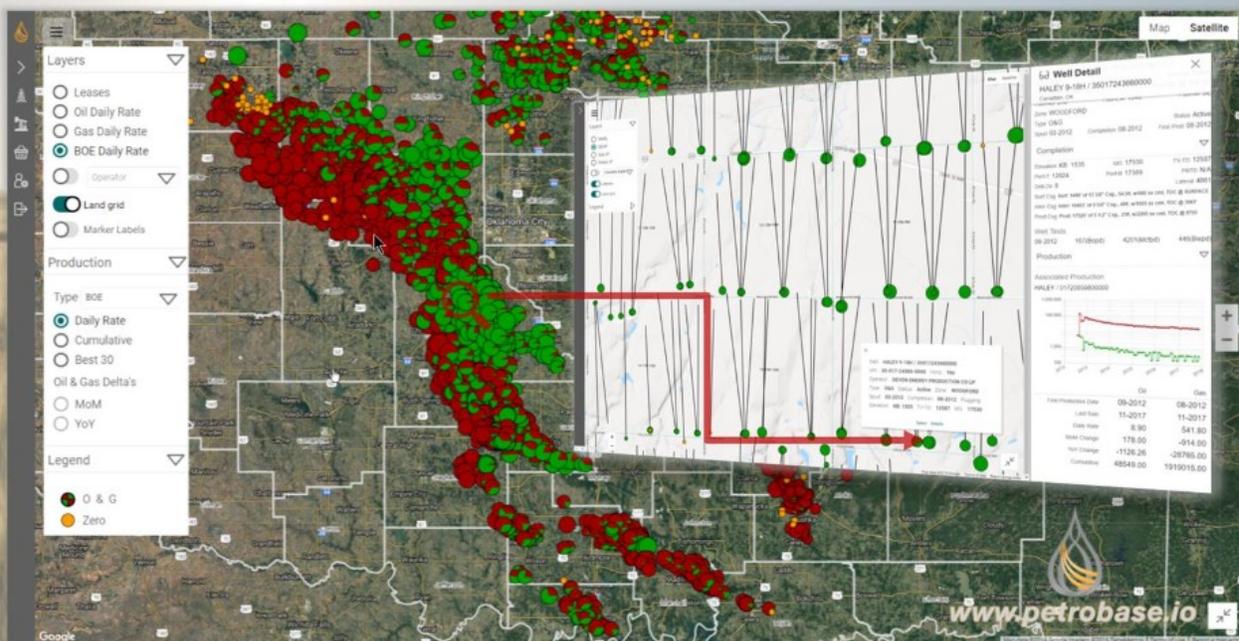
Advanced Google Mapping
Sophisticated Production Plots
Decline Curve Analysis
Normalized Type Curves
Well Completions & Intents
Personalized Areas of Interest

A valuable tool for anyone in the Oil & Gas Industry including Geologist, Engineers, Investors, Office and Field personnel.

For more information visit
www.petrobase.io/explorer

TRY IT FOR FREE
www.petrobase-explorer.net/signup

The Ultimate Data Mining & Analysis Tool For Production & Well Data



Kyle@PetroBase.net | 316.755.6850 ~ For additional information contact ~ James@PetroBase.net | 316.204.7413

35th Annual KGS Fishing Tournament

El Dorado Reservoir
Friday, September 13, 2019

Check in: 7:30 AM @ Shady Creek Marina

A Late Lunch Will be Served at 3:00 PM
Beer, sodas, and water will also be provided

Entry Fee is \$10.00 for KGS members and sponsors
All others are \$20.00

Please see the enclosed flyer to sign up.
Forms also available at the front desk of the KGS Library



An Open Invitation to Young Geologists to Join AAPG

I would like to extend a special invitation to recent graduates and other young geological professionals to join AAPG. There are many young geologists outside the Wichita area that I have never met. They may work out of Great Bend or Hays, Kansas working with smaller oil and gas producers or working on their own as well site geologists. Kansas does have a future for at least a few more years for exploration and development. I'm not sure, however, if it extends much more than another 10 years or so. The time is now to meet others from larger regional companies to forge a relationship for future employment. Young minds will be needed to replace those retiring and that other bad option.

I joined AAPG late in my career, much to my regret. I now serve voluntarily as a delegate for the Mid-Continent Section representing the Kansas Geological Society. Please come to our meeting this Fall. Go on the field trip or take a short course to expand your knowledge. One might be fortunate enough to find me in a buying mood for an adult beverage one of those convention evenings. I cannot stress enough that you do have a need to expand your contact base.

Respectfully yours,

Wesley D. Hansen
Bulletin Editor and 2019 KGS President

Financial Support for the Mid-Continent Section Meeting

Every six years the Kansas Geological Society hosts the AAPG Mid-Continent Section Convention. It will be held at the DoubleTree by Hilton October 3-8, 2019. The convention will have between 500 and 700 geologists, geophysists, and petroleum engineers attending from across the entire country. Also there will be both local and national companies exhibiting.

The Finance Committee respectfully requests both company and individual financial support. Please contact us at your convenience with any questions that you may have.

Respectfully submitted,

Douglas Davis, Finance Chair

doug5696@gmail.com

316-641-4469

James Beilman Finance Co-Chair

jbeilman@mulldrilling.com

316-264-6366

2019 AAPG Mid-Continent Section Meeting

October 5-8, DoubleTree by Hilton, Wichita, KS

Hosted by the Kansas Geological Society

General Chair: Toby Eck, KGS President: Wes Hansen



For general inquiries, advertising, or donations,
contact Toby Eck (316) 305-0572, toby@shakespeare-oil.com
or Doug Davis (316)641-4469, doug5696@gmail.com

Join us here in Wichita for a great convention in October! The meeting will focus on the integration of geology, technology and business in our constantly-changing industry.

We will have a 2-day Mississippian Outcrop field trip and several excellent short courses followed by two days of technical talks and poster sessions.

Of course, in order to attract geologists from afar, there will be drinks, food and entertainment Sunday and Monday evenings (free w/ registration) including 'Duelling Pianos' and a band.

SCHEDULE OF EVENTS

October 3-4 Field Trip

Meramecian-Chesterian strata of Oklahoma in outcrop and core
Led by Dr. Cory Godwin and Dr. James Puckette, OSU

October 5-6 Short Courses

Seismic Attributes, led by Dr. Kurt Marfurt (Full-Day Saturday)
Geochemistry, led by Dr. Wahid Rahman (Full-Day Saturday)
Machine Learning in Oil and Gas, with several presenters (Full-Day Sunday)
Digital Borehole Geology, led by Dr. John Doveton (1/2-Day Sunday)

October 6 Opening Ceremonies and Icebreaker w/ Duelling Pianos Entertainment

October 7 Technical Sessions Begin

All-Convention Luncheon

Cretaceous Revenant in Arctic Alaska - Giant Oil Accumulations Hidden in Plain Sight
Dr. David Houseknecht, USGS

YP/Student and Mentor & Alumni Gatherings w/ Musical Entertainment

October 8 Technical Sessions Continue

Division of Professional Affairs Luncheon

Interactive Ethics Presentation, John Jordan

Register now at <http://aapgmcs.org/section-meetings/2019/registration-instructions>

Pics from 2nd Annual KGS Brewery Meet
at Aero Plains Brewery in Wichita's
Delano District





**Hellman, Gunzelman and Mazzullo
What could go wrong?**



Jerry Honas, independent geologist, with Melody Fletcher of Oil Producers of Kansas



**Paul and Joanna Ramondetta
with Dottie Schiltz**

**Various geologists, spouses and friends
Great time and great turnout**





Jacob and Jennifer McCallie of Diamond Testers



**Paul Simpson and Randy Wolf of Trilobite Testing
With Souvenir Trilobite/KGS beer glasses**

SAVE THE DATE

Rob Patton, golf committee chairman for 2019, has announced the date for this year's KGS Golf Tourney.

Monday, September 23, 2019 at Terradyne CC



The tournament will consist of 4 man teams (best ball) in a scramble format. Pick your own teams.

Limited to 144 players

**Entry fee is \$100.00 per person payable to the KGS
Prizes will be awarded to 1st, 2nd, 3rd, and 4th flights.
Additional prizes for closest to the pin, longest drive and
longest putt on various holes.**

Sponsors Needed

**Forms will also be available at the front desk in the
KGS Library to sign up. Forms also available through the
KGS website for download.**

*The KGS Library is pleased to
announce a new service*



Creating
LAS files
from our logs
or yours

**\$20.00 per
curve!!**

Quick
turn-around

Send us your log file
or tell us which of
ours you would like
converted.

316-265-8676

The Kansas Geological Society maintains its ownership
and copyright when converting library log files to LAS

**We Invite You
To join**

***Kansas
Geological
Foundation***

*\$50.00 membership is
tax deductible*

Call 316-265-8676

*Or send checks to:
Kansas Geological Foundation
212 N. Market, Ste. 100
Wichita, KS 67202*

BULLETIN CONTENT POLICY

Effective January 1, 2018, only ads for service companies and geologists offering their services will be permitted in the KGS Bulletin. Furthermore, only content of geologic interest or official KGS functions (technical talks, annual banquet, golf tourney, picnic etc.) will be permitted in this bulletin. This policy is in keeping with maintaining a professional standard for this publication. Any interpretation of this policy rests solely with the editor of this bulletin.



PROFESSIONAL DIRECTORY

Kirk Rundle
Consulting Geophysicist
 3D Seismic Design, Acquisition to Processing QC.,
 Interpretation and Analysis, Subsurface Integration
 7340 W. 21st. N., Ste. 100
 Wichita, Kansas 67205

Office: 316-721-1421 Fax: 316-721-1843
 Email: kirk@rundlegeo.com

ROGER L. MARTIN
Independent Petroleum Geologist
 200 E 1st St, Ste 405, Wichita, KS 67202

Cell: 316-833-2722 Office: 316-250-6970
 KS Field Cell: 316-655-1227
 Fax: 316-425-3829
 Email: rogermartingeo@yahoo.com

Covey - The Well Watchers
One Thousand Wells and Counting"

Curtis E. Covey Wellsite Petroleum Geologist

Gas Trailer Cell: 316-217-4679 Office: 316-776-0367
 Email: wellsitgeol@gmail.com 6548 Bedford Circle
 Derby, Kansas 67037

ALFRED JAMES III
Petroleum Geologist
 Kansas - Colorado - Utah

P.O. Box 218 Augusta, KS 67010

SIPES # 1111
 Office: 316 648-2821
 james.alfred21@yahoo.com

 **GRAVITY OIL LLC** **ELI J. FELTS**
 CONSULTING PETROLEUM GEOLOGIST

316.204.5059 E.J.FELTS47@GMAIL.COM

- VERTICAL & HORIZONTAL WELL-SITE SUPERVISION
- PROSPECT GENERATION & EVALUATION
- WELL-LOG ANALYSIS
- DIGITAL MAPPING SERVICES & GEOLOGICAL REPORTS
- KCC & COMPLIANCE SPECIALIST
- PROFESSIONALLY INSURED

COMPETITIVE PRICING & STATE OF THE ART SERVICES YOU CAN COUNT ON
 CALL TODAY & RECEIVE (1) FREE DAY WELL-SITE TO NEW CLIENTS

M. ((Brad))ford Rine, Geologist
Licensed, Registered, Certified

PROSPECT EVALUATION	PROSPECT ORIENTATION
WELL-SITE SUPERVISION	DRLG/COMPL CONSULTATION
RESERVOIR STUDIES	PROPERTY EVALUATION
EXPERT TESTIMONY	BANJO PICKER

100 South Main Suite #415 Wichita, Kansas 67202
 Email: rinemb@sbcglobal.net Office & Cell: (316) 250-5941

WESLEY D. HANSEN
Consulting Geologist
 Well site Supervision • Geologic Studies
 212 N. Market, Ste 257
 Wichita, Kansas 67202
 Office/Mobile: (316) 772-6188
 whansen4651@sbcglobal.net
 37 Continuous Years in the Kansas Oil Patch


DeGood Geological Services
 Alan DeGood
 Kansas Licensed Geologist #330

1233 Autumn Drive
 Goddard, KS 67052
 Phone: 620-242-6301
 Home: 316-794-8391
 Email: degood1@live.com

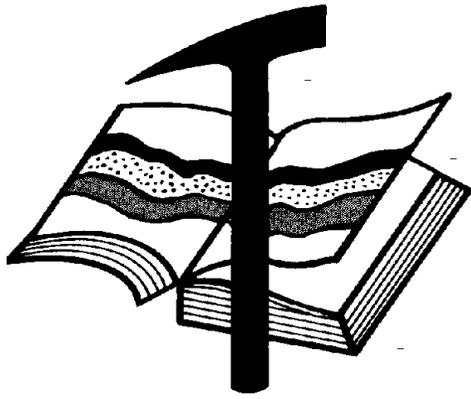
Prospect Reviews
 Reserve Studies
 Rendition Preparation

Phil Askey, L.G.
 Wellsite Geologist
 913-952-2032
 phil.askey55@gmail.com
 Experienced in:
 Kansas - Colorado - Nebraska

MELLAND ENGINEERING, INC.
Petroleum Engineering & Geological Consulting
James E. Melland, P.E., P.G.
 President
 Office: (620) 241-4621 Fax: (620) 241-2621
 jamesm@mellandengineering.com
 www.mellandengineering.com
 P.O. Box 841, McPherson, KS 67460

Your business card ad
 Could be right here
 For only \$90/year

Your business card ad
 Could be right here
 For only \$90/year



Kansas Geological Foundation

Web Site: www.kgfoundation.org

**212 North Market
Wichita, Kansas 67202**

A not-for-profit educational and scientific corporation

GOALS:

- promote geology and earth science
- preserve geological records
- establish memorials and endowments
- support field trips and seminars
- financial aid and grants to students

PLEASE HELP SUPPORT THE FOUNDATION

Kansas Geological Foundation Services

The Kansas Geological Foundation provides the following services as a part of the organization's commitment to educate the public regarding earth science.

Speaker's Bureau

A list of speakers available to talk about various aspects of geology may be obtained by contacting Wes Hansen at the KGS Library, 265-8676. This service is free to the public.

DVD/Videotape Library

The KGF maintains a DVD & videotape library focused primarily on the various fields of earth science. These tapes may be checked out without charge by the public. To obtain a list of tapes, please contact the KGS Library, 212 N. Market, Ste. 100, Wichita, KS 67202, or call Wes Hansen at 265-8676.

The Kansas Geological Foundation was founded in March, 1989 as a not-for-profit corporation under the guidelines of section 501(c)(3) of the tax code to provide individuals and corporations the opportunity to further the science of geology. It is dedicated to providing charitable, scientific, literary and educational opportunities in the field of geology for the professional geologist as well as the general public.

KGF can receive in-kind donations through which the donor may receive a tax deduction. Of equal importance, the KGF provides the financial resources to sort, process and file this data at the KGS library. If you have a donation to make, please contact the KGF at 265-8676.

Your tax-deductible membership donation helps to defray the cost of processing donations and to support public education programs about the science of geology. Annual membership begins at \$50.00 per year. Donations of \$100.00 or more are encouraged through the following clubs:

Century Club	\$ 100 to \$ 499
\$500 Club	\$ 500 to \$ 999
Millennium Club	\$1000 to \$5000
President's Club	\$5000 and over

Kansas Geological Foundation

Cornerstone

Kansas Geological Foundation News

Spring 2019 Scholarship Recipients

Applicant	University	Scholarship	Amount
Ethan Reid	Fort Hays State Uni-	KGF Scholarship	\$500
Mikaela Radar	Kansas State Univer-	KGF Scholarship	\$750
Luke Rijfkogel	Kansas State Univer-	Robert Cowdery KGF Scholarship	\$1000
Rhowe Stefanski	Kansas State Univer-	KGF Scholarship	\$750
Isaac Allred	University of Kansas	KGF Scholarship	\$750

The Kansas Geological Foundation Needs You!



The KGF provides the financial resources to sort, process and file, in-kind donations of geological data at the KGS library. Due in large part to the KGF this unique and rare well of information is being made available to all. Please consider telling your company management and colleagues about the benefits of a library that continues expanding in part because of the KGF.

We very much value and need your financial support.

KGF Officers and Board Members

President- Dennis Hedke
Vice President - Brian Fisher
Treasurer - Bryce Bidleman
Secretary - Ted Jochems

Board Members

Dave Callewaert **Michel Runnion**
Ken Leblanc **Larry Friend**
Corey Baker

Scholarships - Maurice Korphage
Publicity - Wes Hansen

Kansas Geological Foundation News

Students: The KGF awards scholarships each December and May. Check with your department chairs for applications. You must submit complete applications by the deadline.

Scholarship Applications for the Spring semester will be due by December 1, 2019.

Grants to help with research on Kansas related geology are also considered for aid.

If you are in the KGS Library and see Ted Jochems or any of the integrators, give any of them a great big thanks for their efforts in continuing the tedious process of examining, scanning and integrating new logs and geologist's reports etc. into our library and the WDL.

As of January 1, 2019, the Foundation has **two full time employees** working on well log integration: Helen Cruz and Shuyao Li (a.k.a. Emily) along with Ted Jochems. They work forty hours per week, with Ted Jochems putting in 20-30 hours. More than a dozen other part-time integrators have worked on the project since 2010.

Grant Request Recipients

Dr. Hendratta Ali - Fort Hays State University \$1,000.00

Integration Update as of July 31, 2019

From 01 January to 31 July of 2019, 16,893 well logs were examined by the integrators. 4,447 were new logs for the Walters Digital Library. 1,335 logs were re-scanned to replace poor existing digital images.

Over the eight year history of the integration project, 191,795 well logs have been examined. 56,230 (29.3%) were new to the WDL, with 4,231 logs re-scanned to replace poor existing images.

Submitted by Ted Jochems

Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Established
Dan Bowles	09/89	1990
John Brewer	10/89	1990
George Bruce	08/89	1990
Robert Gebhart	01/90	1990
Ray Anderson, Jr.	11/90	1990
Harold McNeil	03/91	1991
Millard W. Smith	08/91	1991
Clinton Engstrand	09/91	1991
M.F. "Ted" Bear	10/91	1991
James & Kathryn Gould	11/91	1991
E. Gail Carpenter	06/91	1993
Benton Brooks	09/92	1992
Robert C. Armstrong	01/93	1993
Nancy Lorenz	02/93	1993
Norman R. Stewart	07/93	1993
Robert W. Watchous	12/93	1993
J. George Klein	07/94	1994
Harold C.J. Terhune	01/95	1995
Carl Todd	01/95	1995
Don R. Pate	03/95	1995
R. James Gear	05/95	1995
Vernon Hess	06/95	1995
E. K. Edmiston	06/95	1995
Jack Rine	07/95	1995
Lee Cornell	08/95	1995
John Graves	10/95	1995
Wilson Rains	10/95	1995
Heber Beardmore, Jr.	09/96	1996
Elmer "Lucky" Opfer	12/96	1996
Raymond M. Goodin	01/97	1997
Donald F. Moore	10/92	1997
Gerald J. Kathol	03/97	1997
James D. Davies	08/88	1997
R. Kenneth Smith	04/97	1997
Robert L. Dilts	05/97	1997
Delmer L. Powers	06/72	1997
Gene Falkowski	11/97	1997
Arthur (Bill) Jacques	01/98	1998
Bus Woods	01/98	1998
Frank M. Brooks	03/98	1998
Robert F. Walters	04/98	1998
Stephen Powell	04/98	1998
Deane Jirrels	05/98	1998
William G. Iversen	07/98	1998
Ann E. Watchous	08/98	1998
W.R. "Bill" Murfin	09/98	1998
Donald L. Hellar	11/98	1998
Joseph E. Rakaskas	01/99	1999
Charles W. Steincamp	02/99	1999
Robert and Betty Glover	10/96	1998
Howard E. Schwerdtfeger	11/98	1999
W. W. "Brick" Wakefield	03/99	1999
V. Richard Hoover	01/00	2000
Warren E. Tomlinson	01/00	2000
James A. Morris	01/00	2000
Eric H. Jager	03/00	2000
Kenneth W. Johnson	03/00	2000

Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Established
Dean C. Schaake	03/00	2000
Fred S. Lillibridge	05/00	2000
Jerry A. Langrehr	07/00	2000
Clark A. Roach	07/00	2000
Floyd W. "Bud" Mallonee	10/00	2000
Ralph W. Ruuwe	09/00	2000
Robert L. Slamal	02/01	2001
Jerold E. Jespersen	06/01	2001
William A. Sladek	06/01	2001
Harlan B. Dixon	06/01	2001
Edward B. Donnelly	08/01	2001
Richard P. Nixon	02/02	2002
Robert W. Frensley	12/01	2002
Gerald W. Zorger	01/02	2002
Don L. Calvin	03/02	2002
Claud Sheats	02/02	2002
Merle Britting	2002	2002
Harold Trapp	11/02	2002
Donald M. Brown	11/02	2003
Elwyn Nagel	03/03	2003
Robert Noll	09/03	2003
Benny Singleton	09/03	2003
Jay Dirks	2003	2003
J. Mark Richardson	02/04	2004
John "Jack" Barwick	02/01	2004
Richard Roby	03/04	2004
Ruth Bell Steinberg	2004	2004
Gordon Keen	03/04	2004
Lloyd Tarrant	05/04	2004
Robert J. "Rob" Dietterich	08/96	2004
Mervyn Mace	12/04	2004
Donald Hoy Smith	04/05	2005
Richard M. Foley	06/05	2005
Wayne Brinegar	06/05	2005
Charles B. Moore	09/96	2005
Jack Heathman	05/06	2006
Charles Kaiser	09/06	2006
Rod Sweetman	08/06	2006
Karl Becker	10/06	2006
Frank Hamlin	10/06	2006
Marvin Douglas	12/06	2006
Robert W. Hammond	04/07	2007
Eldon Frazey	04/07	2007
Pete Amstutz	05/07	2007
Charles Spradlin	05/07	2007
Donald R. "Bob" Douglass	09/07	2007
Vincent Hiebsch	11/07	2007
Glen C. Thrasher	03/08	2008
Peg Walters	06/08	2008
Theodore "Ted" Sandberg	07/08	2008
James Ralstin	11/08	2008
Earl Brandt	04/09	2009
Walter DeLozier	05/09	2009
Don D. Strong	1/10	2010
John Stone	02/10	2010

Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Established
Craig Caulk	03/10	2010
Joseph E. Moreland, Jr.	03/10	2010
Gene Garmon	03/10	2010
James F. Dilts	05/10	2010
Jerry Pike	05/10	2010
Donald Hollar	06/10	2010
Delbert Costa	08/10	2010
John Tanner	08/10	2010
William (Bill) Owen	09/10	2010
Harold (Hal) Brown	10/10	2010
Edmund G. Lorenz	11/10	2010
Thomas E. Black	05/11	2011
Wayne E. Walcher	07/11	2011
Henry F. Filson	07/11	2011
Thomas Ray	07/11	2011
Edgar E. Smith	09/11	2012
Marilyn Messinger	06/13	2013
Micheal Mitchell	09/13	2013
Orvie Howell	11/13	2013
James Thompson	11/13	2013
Dick Rowland	09/13	2014
Robbie Thompson	12/13	2014
Kris Kennedy	04/14	2015
Annette Hedke	02/15	2015
James Devlin	04/15	2015
Robert Gensch	09/15	2015
Jerald Rains	05/16	2016
Max Houston	05/16	2016
Robert "Gus" Messinger	01/17	2017
Jimmy Wayne Gowens	04/17	2017
Walter H. Martz Jr.	01/18	2018
Gary Sandlin	01/17	2018
Douglas McGinness	12/16	2018
Allen Siemens	06/18	2018
Ernest R. "Ernie" Morrison	09/18	2018
E. G. "Elbie" McNeil	12/18	2018
Robert Maxwell (Bob) Euwer	1/19	2019
J. Fred Hambright	12/18	2019
W. Lynn Watney	7/19	2019

The costs for printing and mailing the bulletin far exceed the ad revenue. Advertising revenue received in 2018 totaled \$ 3,590.00. Printing and postage costs for 2018 totaled \$13,605.48. A shortfall of \$10,015.48. Currently, one can view the bulletin online from the Kansas Geological Society website and print from one's own computer. As editor and manager, I have decided to have the Bulletin be digital only effective January 2020.



12 Drilling Rigs

To depth of 8,500 ft.



WESTERN KANSAS
SOUTHERN NEBRASKA
EASTERN COLORADO

For contract information contact:

Will Murfin
Drilling Manager

316-258-8888 (Direct)
316-267-3241 (Main)

250 N. Water, Ste. 300
Wichita, KS 67202

The logo for Duke Drilling Company features the word "DUKE" in large, bold, sans-serif capital letters at the top. Below it is a silhouette of a drilling rig. Underneath the rig, the words "DRILLING" and "COMPANY" are written in bold, sans-serif capital letters, separated by a horizontal line. At the bottom, the text "ROTARY DRILLING CONTRACTOR" is written in bold, sans-serif capital letters. Contact information is provided in two columns at the bottom: "620 Hubbard PO Box 823 Great Bend, KS 67530 Phone 620-793-8366" on the left and "100 S. Main, Ste. 410, Wichita, KS 67202 Phone 316-267-1331 Fax 316-267-5180" on the right.



2D & 3D Vibroseis Acquisition
ARAM*AIRES Seismic Recording System

1600 Broadway, Suite 1660 • Denver, CO 80202-4915
(303) 592-5220 • info@lockhartgeo.com
for complete information go to: www.lockhartgeo.com

Your Company

1/4 page ad

here

AAPG Needs You!

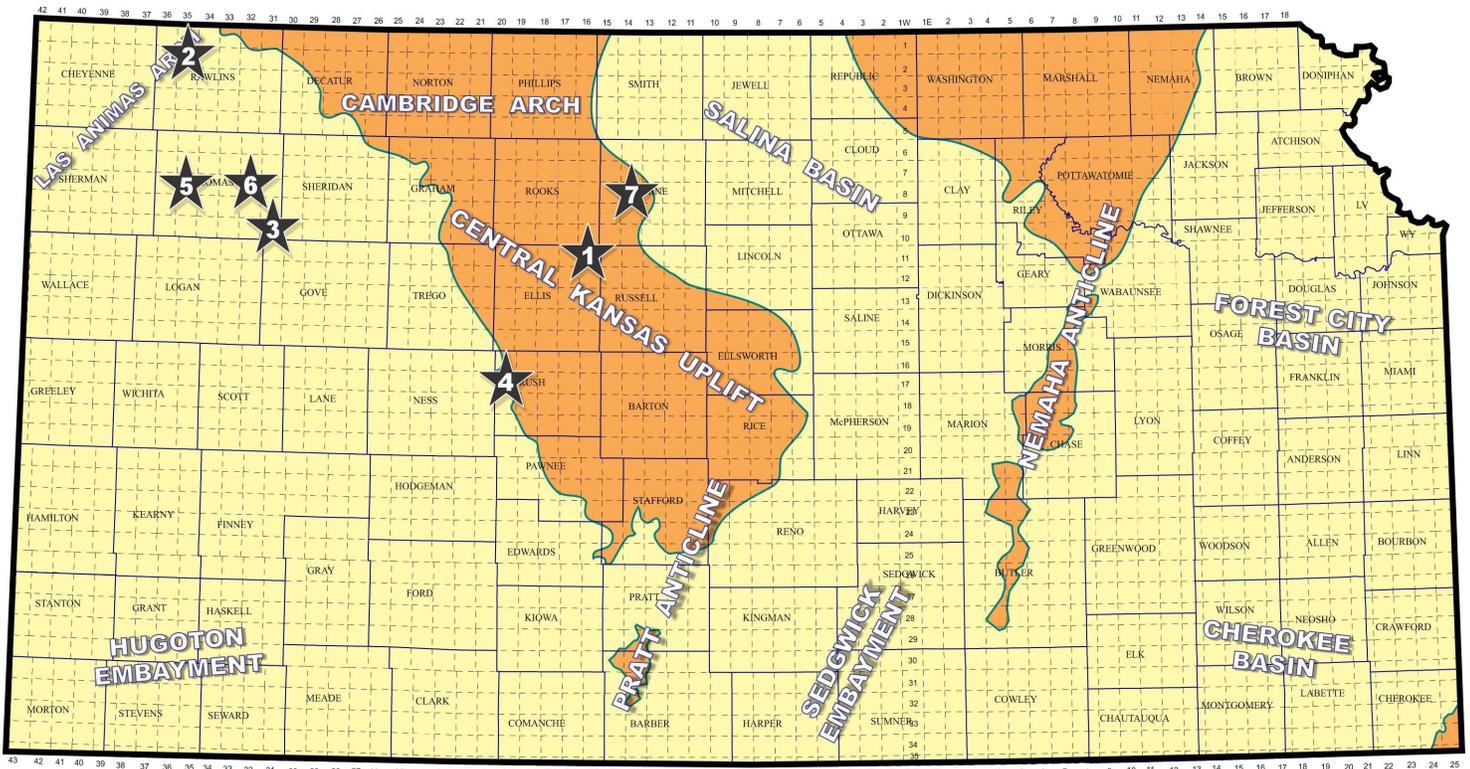
Professional geoscientists, share your world!

The Mid Continent Section has **17 AAPG Student Chapters**, but only **3 Visiting Geoscientists**...which makes it almost impossible to have a professional geoscientist visit to each school at least once a year or even once every two years. The aim of AAPG's program is to give students a flavor of a professional life in energy resources. It also hopes to encourage dialog between industry and academia.

To be a Visiting Geoscientist bearing the AAPG flag, you are asked to have at least 5 years of experience and make at least one visit per year to a university. It can be a school with an AAPG Student Chapter, or a college/university without one. Your choice.

The Mid Continent schools with Student Chapters are: Missouri University, Fort Hays State University, Iowa State University, Kansas State University, Missouri State University, University of Nebraska, Northwest Missouri State University, Oklahoma State University, University of Oklahoma, University of Arkansas, University of Iowa, University of Kansas, University of Missouri, Columbia University of Tulsa and Wichita State University.

Contact Robbie Gries, co-Chair VGP committee, Denver, if you are interested in learning more. rrgries@aol.com



Map courtesy of Marc Summerville

- 1.) L. D. Drilling, Inc., Great Bend (KS), has established the new Crystal oil field with the successful completion of the #1-4 Crystal, located in the SW/4 of section 4- T11s- R16W, in Ellis County. The wildcat well is producing an undisclosed amount of crude oil from the Lansing 'F' (3152-3156 ft) and Pleasanton (3316-3321 ft) formations. Total depth was reached in the Arbuckle formation at 3594 ft. The new pool lies on isolated feature 3/4-mile west of the Krueger Southwest oil field (Oct. 1981 - LKC, Pleasanton oil), or five miles south and three miles east of the town of Codell, Kansas. (ref: API 15-051-26945)
- 2.) Murfin Drilling Company, Inc., Wichita (KS), has discovered Lansing - Kansas City (LKC) oil deposits about one mile west of the recently established Coyote Canyon Field (2019) - a new LKC oil pool they also discovered earlier this year in Rawlins County. Murfin's #1-16 Frisbie C found the new reserves in the SW/4 of section 16- T2s- R35W, about four miles north and one mile west of Beardsley, Kansas. The wildcat well was drilled to a total depth of 4900 ft. Details remain confidential at this time. The new oil field has been named Coyote Canyon West. (ref: API 15-153-21222)
- 3.) Mull Drilling Company, Inc., Wichita (KS), has discovered oil deposits in the Pennsylvania Series at the #1-33 Schippers, spotted in the SW/4 of section 33- T10s- R31W, in Thomas County. Operator's objective was to explore the Lansing-Kansas City, Marmaton and Cherokee formations for signs of oil. Rotary total depth was obtained at 4700 ft. Completion

details remain confidential. Discovery site lies over one mile north of the now abandoned Dormitory Field that Pickrell Drilling Company discovered in 1986. Their #1-A Jordan produced 52 BOPD from the Lansing-Kansas City. Non-commercial shows of oil were tested in the Marmaton (Fort Scott) and the Cherokee (Johnson Zone) formations. Mull's new unnamed pool is located about three miles east of the town of Oakley, Kansas. (ref: API 15-193-21044)

4.) Northern Lights Oil Company, LLC, Andover (KS), has established a new unnamed oil field in Rush County. The #1 Rhonda, drilled in the SW/4 of section 15- T17s- R20W, is producing an undisclosed amount of crude from the Cherokee formation at site located about two and one-half miles east of McCracken, Kansas. The wildcat well was drilled to a total depth of 4065 ft. Completion details are confidential. Wellsite lies one and one-quarter miles northeast of Cherokee production in the Rixon Field. Bill J. Porter and Jet Drilling discovered the Rixon Field with the completion of the #1 Rixon for 70 BOPD from perforations made between 4043 to 4047 ft in February, 1973. (ref: API 15-165-22169)

5.) Wichita (KS)-based VAL Energy, Inc. has discovered Marmaton (Myrick Station) and Cherokee (Johnson Zone) oil deposits at a wildcat site located in the NW/4 of section 10- T8s- R35W, in Thomas County. The new find, #1-10 Flying S, establishes the new Levant East Field, which lies about one mile east of the Levant Field. VAL also opened the Levant Field in January, 2017 with the completion of their #1-4 Kough - Mattson Unit in section 4 for 40 BOPD with pay from the Lansing - Kansas City, Pleasanton and Marmaton formations. Completion details on the Flying S discovery remains confidential. WW Drilling tools drilled the well to a total depth of 4870 ft. Field area lies one mile north and eight miles east of the town of Brewster, Kansas. (ref: API: 15-193-21041)

6.) Arcadian Resources LLC, Concordia (KS), has added Marmaton oil production to the newly discovered Kindig North Field in Thomas County. The #2-19 Liam, approximately SE NE SE in section 19- T8s- R32W, is producing 80 bbls of water-free oil per day from the Altamont Limestone formation from 4414 to 4418 ft. Crude gravity is 36 degrees. The well was drilled to a total depth of 4742 ft. Arcadian established the Kindig North Field in July this year when the #1-19 Liam was completed for 30 BOPD from the Cherokee Limestone at 4606 to 4608 ft. Field area is located about two miles south and six miles east of Colby, Kansas. (ref: API 15-193-21046)



CHANGE SERVICE REQUESTED

KGS BULLETIN
 September - October 2019

September 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 Labor Day KGS Closed	3	4	5	6	7
8	9	10 KGS Board	11	12	13 KGS Fishing Tournament	14
15	16	17	18 KGF Board	19	20	21
22	23 KGS Golf Tournament	24	25	26	27	28
29	30					

October 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3 AAPG MCS	4 Field Trip	5 Short Courses
6 Short Courses	7 AAPG MCS Meeting October 6-8	8	9	10	11	12
13	14	15 KGS Board	16 KGF Board	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		