



KANSAS GEOLOGICAL SOCIETY

BULLETIN

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AAPG MCS October 6-10

Oklahoma City Convention Center

KGS Golf Tournament October 12

KGS Shooting Tournament October 28

Memorial for Robert "BOB" Cowdery



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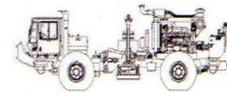
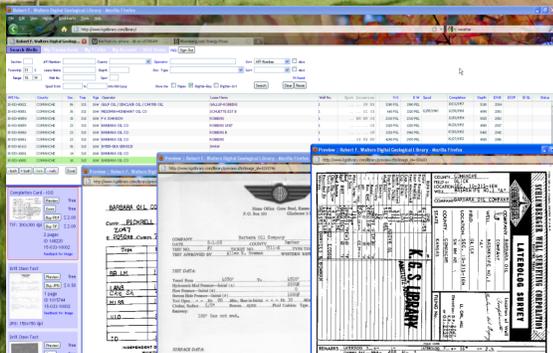
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ON THE COVER:

**Arches National Park
Jurassic Entrada Formation
Overlying Jurassic Navajo Sandstone’ Utah
Photo by Marli Miller**

The Kansas Geological Society Bulletin, which is published bimonthly in 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 length of papers is 6 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 1704 S. Baehr, Wichita, KS 67209. 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

All Technical Meetings will be on Zoom

- Sept 13 **Dr. David Hollenbach, Univ. Kansas TBD**
- Sept 27 **Dr. Ken Johnson/ and Glenn H. Timson: “Syracuse Basin in western Kansas and eastern Colorado results from dissolution of Permian Flowerpot and Blaine salts”**
- Oct 11 **Dr. Richard Koehler: “Reconnaissance geological observations of the February 06, 2023 Earthquakes in Turkey”**
- Oct 25 **Robert Hemmann- Geologist Doe Run Co., “Mining of the Viburnum Trend, SE MO.”**
- Nov 8 **Rex Buchanon, Director Emeritus KGS: TBD**
- Dec 13 **Dr. James Kalbas, Director KGS: “Trends in Midwest energy infrastructure development”**

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

Please remember to check the website for the most up to date information on Technical Talks

<http://www.kgslibrary.com/techtalks.cfm>



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Distinguished Awards

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Fishing Tournament

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2025

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2025

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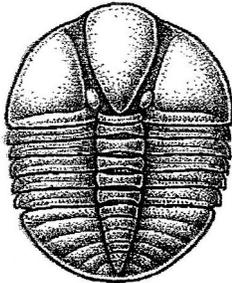
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**Bulletin committee members and PhD's in
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Kansas Geological Society (KGS) Medallion for Scientific Distinction and Excellence

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 and Mike Dealy

AAPG IMAGE and Section Meetings

Mid-Continent Section Meeting

October 6-10 2023

Oklahoma City, OK

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October 6-10, 2023 | Oklahoma City Convention Center, Oklahoma City

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AAPG

Mid-Continent Section



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MID-CONTINENT
SECTION OF AAPG

**October 6-10, 2023 | Oklahoma City Convention Center
REGISTER NOW**

EARLY BIRD REGISTRATION CLOSING AUGUST 20

Hosted by the Oklahoma City Geological Society, the 2023 AAPG Mid-Continent Section Meeting, "Finding New Oil and Gas the Old-Fashioned Way," will be held Oct. 6-10, 2023 at the Oklahoma City Convention Center in Oklahoma City. **Register now** to save with the early bird discount offered through Aug. 20.

Submit your abstracts for this meeting before July 29.



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Sponsorship Opportunities Still Available!

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 the foreseeable future. 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.

Respectfully yours,

Wesley D. Hansen Bulletin Editor and AAPG Delegate



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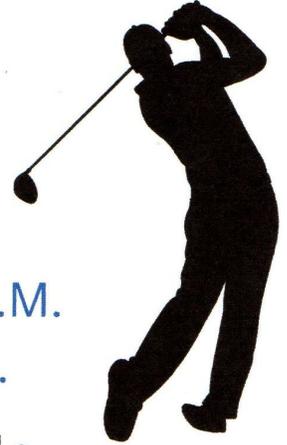
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IT'S TEE OFF TIME!

75th Annual Golf Tournament

Thursday, October 12th
at *Rolling Hills Country Club*

223 S. Westlink, Wichita, KS 67209



Check in: 7:30 A.M.

Coffee & Donuts: 7:30 A.M. - 9:00 A.M.

Tee Off Shot Gun Start: 9:00 A.M.

6 Member Teams, Best Ball Scramble,
Lunch provided

Entry Fee = **\$125.00** (payable to KGS)

Prizes awarded to 1st, 2nd, 3rd, 4th & 5th place teams in 4 flights

Additional prizes awarded for: Closest to the Pin and Longest Putt for various hole

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REGISTRATION FORM

***ALL ENTRIES MUST BE RECEIVED BY MONDAY,
OCTOBER 9TH, 2023***

Player 1 & team captain: _____

Phone: _____

Email: _____

Player 2: _____

Player 3: _____

Player 4: _____

Player 5: _____

Player 6: _____

Total Enclosed for Golf: _____

Invoice Requested (check here):

All participants must adhere to the *Rolling Hills Country Club* dress code
Collared shirts are required.

No denim or cut-off shorts are allowed on the course.

**Tournament Questions: David Barker (316) 259-4294 //
2barker@sbcglobal.net**

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Please pay and register by October 27th, 1:00 pm for planning purposes.

Prizes awarded to top three overall in each of four flights. The breaks between flights will be determined after the match is over. Also if donations allow - Drawings for door prizes will also be held after the match. Entrants may include KGS members, guests, Kansas oil & gas industry associates, and friends of Larry.

RULES

1. Eye and ear protection required.
2. Bring your own shells. Shells MAY be available to purchase onsite. (Only 7½, or smaller shot sizes are permitted.)
3. Shooters must provide own gun.
4. No pistol or rifle shooting permitted
5. No alcoholic beverages may be consumed prior to or during any shooting.

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For further information Call Seth Evenson at 620-953-2066, or Dave Barker at 316-259-4294



Robert "Bob" Cowdery

Robert "Bob" Douglas Cowdery, a petroleum geologist, passed away on August 26, 2023. He was born on August 20, 1926 in Lyons, Kansas to Herman Rayburn Cowdery and Blanche Charles Cowdery. His grandfather, Jacob Andrew Cowdery, his wife, Abigail, and two-year old Herman came to Lyons, Kansas in 1886 after Jacob served in the Civil War.

Bob is survived by his wife of 68 years, Mary Sue (Barlow) Cowdery; daughter, Patricia Lynn Drexler, and her husband Bill of Aurora, CO. He is preceded in death by sons, Brian Scott and Craig Douglas.

He enrolled at Kansas State University in 1944, then in December of that year he enlisted in the army and after training was on his way to Taiwan when the A bomb was dropped on Japan. He then served in Honolulu as a Tech St. After his discharge in 1946 he returned to Kansas State and graduated in 3 years with a degree in Physical Science with a major in Geology in 1949. He was a member of Beta Theta Pi, Phi Kappa Phi (an honorary scholastic fraternity), and Sigma Delta Epsilon (an honorary geological fraternity). In 1991 Bob received the Kansas State University Distinguished Service Award. Bob completed many courses in anthropology and business attending the University of Denver, University of Colorado, Colorado School of Mines, Butler Co. Community College and Wichita State University.

After graduation he was employed by Cities Service Oil Company in Oklahoma City and Great Bend. Bob began working for Petroleum, Inc. in 1951 and continued for 38 years. He spent 22 years in the Denver area exploring for oil in the Rockies. In 1975 he moved to Wichita as the company exploration manager responsible for oil exploration in 11 states. In 1985 he served Petroleum, Inc. as president and chief operating officer and retired in 1988.

Bob was a member of the Rocky Mountain Association of Geologists, Kansas Geological Society, a charter member of American Institute of Geologists, Kansas Geological Foundation, Society of Independent Earth Scientists, and a senior member of the Geological Society of America. He served as president and headed many committees of these professional organizations. In 1996 he was elected president of the American Association of Petroleum Geologists.

At age 43 Bob began practicing martial arts and continued until age 83. He was very proud of receiving his 6th degree black belt in Tae Kwon Do at Joon Yi Kim's Academy of Tae Kwon Do.

He continued his interest in archaeology by working on several archaeological sites in 3 states, He belonged to several archaeological organizations.

Bob was a member of Saint James Episcopal Church.

A memorial service will be held on Wednesday at 10:00 a.m. at Saint James Episcopal Church.

Memorials gifts may be made in Bob's name to St. James Episcopal Church, 3750 E. Douglas Ave., Wichita, KS 67208; Breakthrough Episcopal Social Services, P.O. Box 670, Wichita, KS 67201; and to the Kansas Geological Society Foundation, 1704 S. Baehr St., Wichita, KS 67209.

Gratitude goes to all of the staff of Larksfield Place Health Care Center, espe-

cially Kelsey and Brad, for the special care given to Bob over the past 5 years and to Faith Hospice.

Editor's Note

As a long time editor of this bulletin over two lengthy stints, I had much contact with Bob over the years. Bob wrote the memorials when members passed away and profiles of members when they would turn 70 years of age. Often his emails to me would be sent in the wee hours of the day (did he ever sleep?). He also provided donuts for the 5th floor coffee group at Landmark Square. My favorite memory is he provided boxed wine for the KGF Mixer. He laughingly termed it "chateau de cardboard" He will be sorely missed.

Wes Hansen

In Memoriam

KGS and Industry Members Lost in 2022 and 2023

2022

Lee Poulsen

Bill Ham

Pat Kane

William "Bill" Shepherd

Tony Kolodziej

Larry Skelton

Alfred "Fred" James

Jon T. Williams

Phil Knighton

2023

Bill C. Romig

Dean Britting

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Willis Nigh

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Jim Reilly

Robert "Bob" Cowdery

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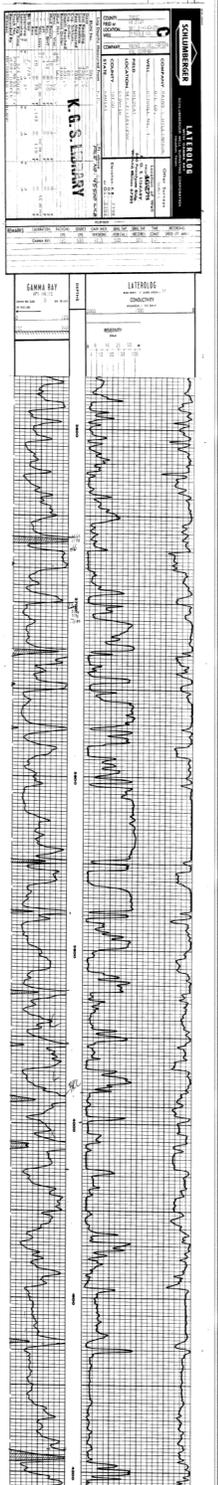
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*Dear KGS members, service company
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sionals,*

*I am urging each of you to attend the
AAPG MCS meeting in Oklahoma
City, OK from October 6-10. The reg-
istration flyer and sponsor list are on
pages 8-9. I had a great time 6 years
ago in Oklahoma City's Bricktown
District. It is essential that we as in-
dustry professionals continue to keep
abreast of new technical developments
in the oil and gas industry as well as
new insights from the universities and
state geological surveys. I have long
encouraged younger geologists in the
Mid-Continent to join AAPG to en-
hance their professional resume and
experience.*

*Doug Davis and I will be representing
the Kansas Geological Society at the
meeting.*

I hope to see you there.

Wes Hansen

A shout out to Kansas Oil and Gas Industry

Service Companies

Oil prices are recovering nicely with WTI about \$80 per barrel and Kansas posted price about \$70 per barrel

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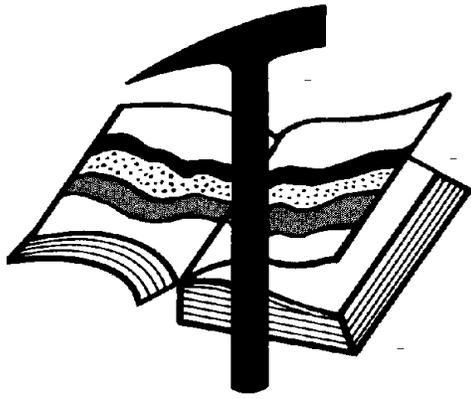
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KGS members please check your files

Fellow KGS members, please remember to check your files of elogs and geologist reports against the KGS paper library and the WDL before discarding them. I was contacted by John Morrison recently about a well I watched years ago that had some tops and DST info missing from his completion card. I took pics from my geo report of tops and DST results and sent them to John to update his card data. If I was to go through all of my files, I'm sure I have many logs and geo reports that are not in the files of either the KGS paper or the WDL. Before I hang things up in my career, I vow to go through all of my data and get it donated and scanned.

KCC rules allow an operator to hold information confidential for a two year period. As long as the well in question is older than the two year period, one can release the data. If one has concerns about alienating a client, of course, feel free to ask for permission.

Wes Hansen



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Web Site: www.kgfoundation.org

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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.

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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, 1704 S, Baehr Wichita, KS 67209 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
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Kansas Geological Foundation

Kansas Geological Foundation News

Fall 2023 KGF Scholarship Recipients

Fall 2023 KGF Scholarships Awarded

Name	University	Scholarship	Amount
Austin Bruner	University of Kansas	KGF Scholarship	\$1000.00
Hannah Proffitt	University of Kansas	KGF Scholarship	\$1000.00
Luqman Olawale	Kansas State University	KGF Scholarship	\$1000.00
Bryan Heyer	University of Kansas	KGF Scholarship	\$1000.00

KGF Grants

Sarah Lamm, PhD candidate at KU
\$2000.00 for Rocks and Rockets Event in Colby
August 2023



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 Fall semester will be due by May 1, 2023.

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.

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We very much value and need your financial support.

PLEASE SUPPORT THE INTEGRATION PROJECT BY DONATING FINANCIALLY TO THE KANSAS GEOLOGICAL FOUNDATION

Thank you to the Current KGF Members

The Kansas Geological Foundation gratefully acknowledges the generous contributions from the following Individual and Corporate Donors during our year end 2021 fundraising. From the Basic Membership up through the Millennium Class Members, we are deeply appreciative of your generosity in one of the most challenging times in our history. We wish you every success in the years and decades ahead.

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J. George Klein	07/94	1994
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Kansas Geological Foundation Memorials

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John Stone	02/10	2010
Craig Caulk	03/10	2010
Joseph E. Moreland, Jr.	03/10	2010

Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Established
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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
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Thomas Ray	07/11	2011
Edgar E. Smith	09/11	2012
Marilyn Messinger	06/13	2013
Micheal Mitchell	09/13	2013
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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
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Jimmy Wayne Gowens	04/17	2017
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Gary Sandlin	01/17	2018
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Allen Siemens	06/18	2018
Ernest R. "Ernie" Morrison	09/18	2018
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J. Fred Hambright	12/18	2019
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BULLETIN CONTENT POLICY

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Professional geoscientists, share your world!

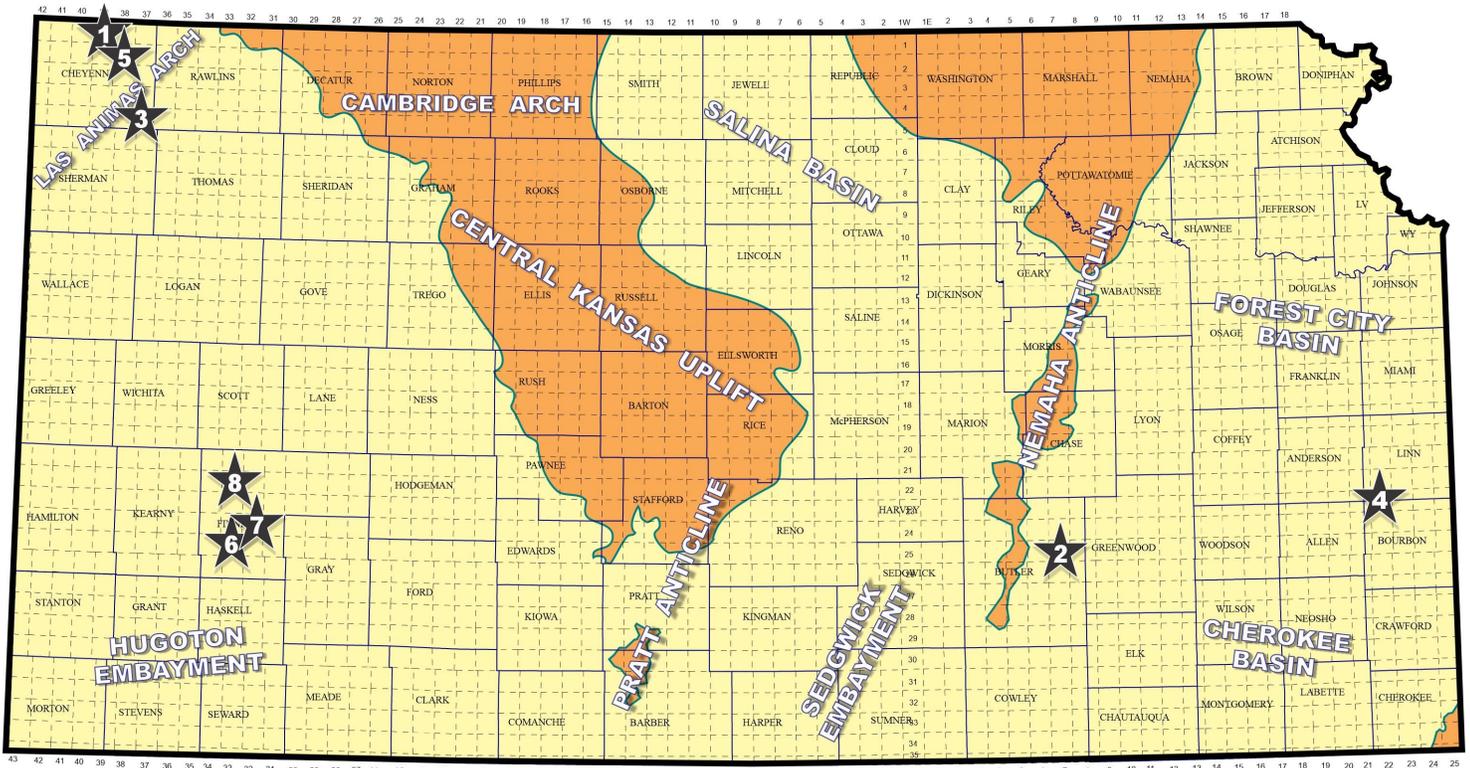
The Mid Continent Section has 17 AAPG Student Chapters, but only 3 Visiting Geoscientists...which makes it almost impossible to have a professional geoscientist visit to each school at least once a year or even once every two years. The aim of AAPG's program is to give students a flavor of a professional 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

Exploration Highlights

By John H. Morrison, III
Independent Oil & Gas Service



Map courtesy of Marc Summerville

1. Murfin Drilling Company Inc, Wichita (KS), has discovered new Lansing-Kansas oil reserves at a rank wildcat well near the Nebraska state line in Cheyenne County. The #1-7 Hester, ~ SE NE NW in section 7- T1s- R39W, was placed on pump in mid April. Company drilling tools bottomed the well at a total depth of 5,100 ft. Completion details remain confidential. The new discovery lies nearly five miles northwest of the Judy pool, which produces oil from the Marmaton formation. Murfin's new pool has been officially given the name "Sarah Ann". (Ref: API 15-023-21597)

2. Satchell Creek Petroleum LLC, Wichita (KS), is producing an undisclosed amount of oil from the Squirrel Sand formation in the Cherokee Group at their #A1-23 Masters, NE NE NE in section 23- T25s- R7E, Butler County. The new find is located over one and one-quarter miles from closest production in the Rosalia pool, which also produces oil from the Squirrel Sand. Operator drilled the wildcat well to around 3,200 ft. The squirrel zone lies around 2,400 to 2,500 ft in depth in the area. No other information has been released. The new field has been officially named "Rosalia South" and is located about three miles south of the town of Rosalia. (Ref: API15-015-24181)

3. Arcadian Resources LLC, Glen Elder (KS), has successfully completed the #26-1 Fisher for 100 BO and 40 BWPD to extend the parameters of the Wet Beaver pool in Cheyenne County. Located in ~ NW SE SW in section 26- T5s- R37W, the well was placed on pump in late February. Production comes from the Marmaton (Pawnee) limestone formation, perforated from 4,528 to 4,534 ft in depth. White Knight Drilling cut the well to a total depth of 4,834 ft (4,839 ft by logs). The Wet Beaver pool was established in 1977 and produces Lansing-Kansas City, Marmaton, and Cherokee oil. (Ref: API 15-023-21593)

4. McGown Drilling, Inc., Mound City (KS), has established new Cherokee (Bartlesville Sand) oil production nearly two miles east of active wells in the Blue Mound Southeast in Linn County, eastern Kansas. The BB27 Wilson was drilled with company tools in the SE/4 of section 12- T23s- R22E, about two miles south and three miles east of Blue Mound, Kansas. Total depth is 750 ft. No completion details have been released. The well was placed on pump on May 26, 2023. The new oil field has been named "Yoro", based on a nearby railroad stop 130 years called Yoro Station. (Ref: API 15-107-25529)

5. Murfin Drilling Company, INC., Wichita (KS), has completed their #1-3 Waters A as a commercial oil well producing crude from both the Shawnee (Leavenworth) and Lansing - Kansas City limestone formations. The Cheyenne County wildcat well opens the "Devil's Canyon Southeast" pool eleven miles north and two miles west of Bird City, Kansas. Well Location is in the NW/4 of section 3- T2s- R38W. Company drilling tools bottomed the well at a total depth of 4,850 ft. No completion details are available. Closest recognized production in the vicinity of Murfin's new find lies almost two miles away in the Devil's Canyon oil field, which Murfin also discovered in 1988. (Ref: API 15-023-21599)

6. Merit Energy Company LLC, Dallas (TX), has completed the #1 Wolverine in the NW/4 of section 26- T25s- R33W as an oil well producing crude from the Morrow and Mississippian (Chester Sand) formations effective March 15, 2023. Edge Services Rig #12 drilled the well to a total depth of 5,240 ft. Completion details are confidential. The new "Wolves Northwest" pool opener found reserves over three-quarters mile east of production in the Coyote Northeast Field, which Merit Energy also discovered in July 2015 in section 27. The #6 Drussel A discovery well was completed for 46 BOPD with pay coming from the upper and lower Morrow and Mississippian (Chester) formations. The two oil fields lie about seven miles south and one mile west of Garden City, Kansas. (ref: API 15-055-22576)

7. In section 28- T24s- R32W, Merit Energy Company has established new Mississippian (Chester) oil production at the #1-28 Napeste located about one mile southwest of Garden City, Kansas. The well was drilled to a total depth of 4,941 ft and was placed on pump on April 20, 2023. Completion details are confidential. Discovery of the new reserves was made about one and one-half miles northwest of recognized Morrow and Mississippian oil production in the Arkansas River pool in section 26, which Merit Energy established in 2016. The new pool discovery on the Napeste lease has been "Arkansas River West". (ref: 15-055-22581)

8. American Warrior, Garden City (KS), has a new pool discovery with the completion of the #1-24 Holsted Twin in the SE/4 of section 24- T22S- R33W. The wildcat well was drilled to a total depth of 4,925 ft by Duke Drilling Rig #9, about nine miles north of Garden City, Kansas. Operator placed the well on pump on May 5, 2023, with commercial pay from the Mississippian (Saint Louis) formation. Completion details are confidential. Field area lies over one and one-quarter miles northeast of the Damme pool, which has produced crude from the Marmaton, Cherokee, Morrow, and Mississippian formations since 1951. The new oil field is named "Holsted". (ref: API 15-055-22587)



September 2023

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

October 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10 KGS Board	11 Tech Meeting	12 KGS Golf Tournament	13	14
15	16	17	18 KGF Board	19	20	21
22	23	24	25 Tech Meeting	26	27	28 Shooting Tournament
29	30	31				