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KANSAS GEOLOGICAL SOCIETY

BULLETIN

Volume 98 Number 4

July - August 2023

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AAPG MCS

October 6-10

Oklahoma City Convention Center



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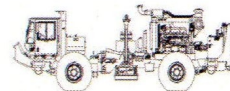
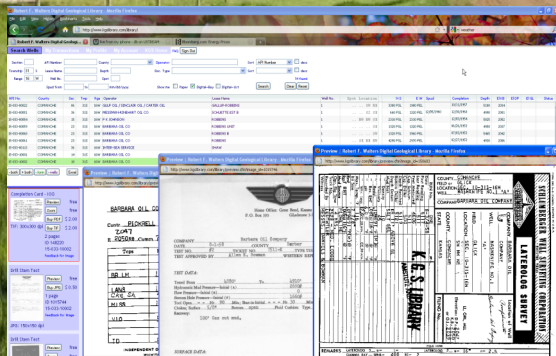
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ON THE COVER:

**Paleosol beneath andesite flow
New Mexico**

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

Aug 9	Dr. Molly Turko Co-Chair MCS AAPG: “A Sneak Peak of the Mid-Continent Convention”
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: “ <i>Reconnaissance geological observations of the February 06, 2023 Earthquakes in Turkey</i> ”
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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Doug Davis

Bulletin

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Tyler Sanders

Continuing Education

Distinguished Awards

Brian Fisher

Environmental

Kent Matson

Field Trip

Jerry Honas

Fishing Tournament

Future Plans

Tyler Sanders

Golf

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2025

Wesley Hansen
2025

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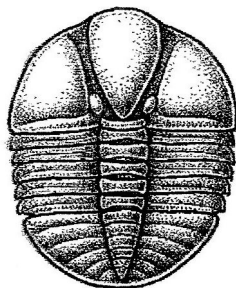
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Kansas Geological Society (KGS) Medallion for Scientific Distinction and Excellence

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

IMAGE August 27, 2023 Houston, TX

Mid-Continent Section Meeting

October 6-10 2023

Oklahoma City, OK

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6 issues	\$600	\$900
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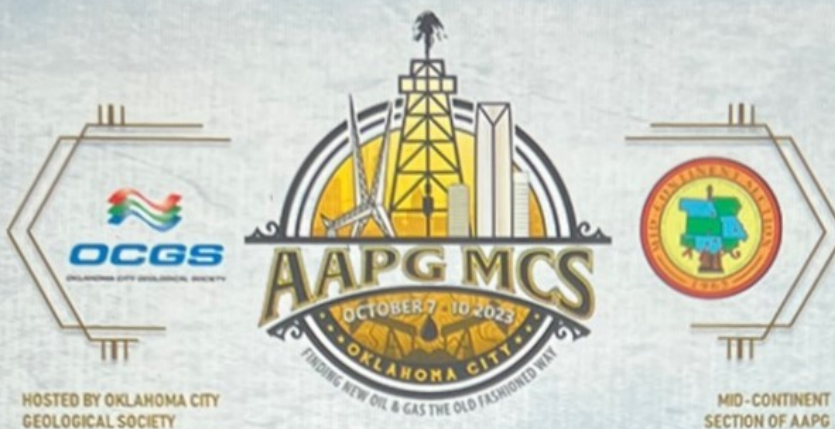
October 6-10, 2023 | Oklahoma City Convention Center, Oklahoma City

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AAPG

Mid-Continent Section



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

EARLY BIRD REGISTRATION CLOSES 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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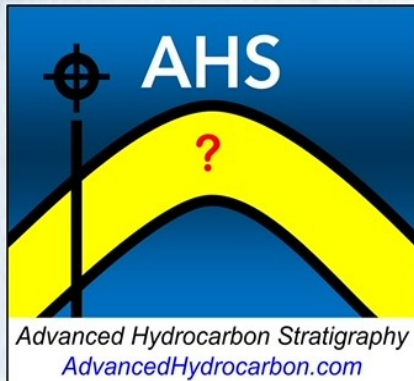
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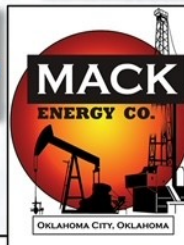
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An Open Invitation to Young Geologists to Join AAPG

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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William “Bill” Shepherd

Tony Kolodziej

Larry Skelton

Alfred “Fred” James

Jon T. Williams

Phil Knighton

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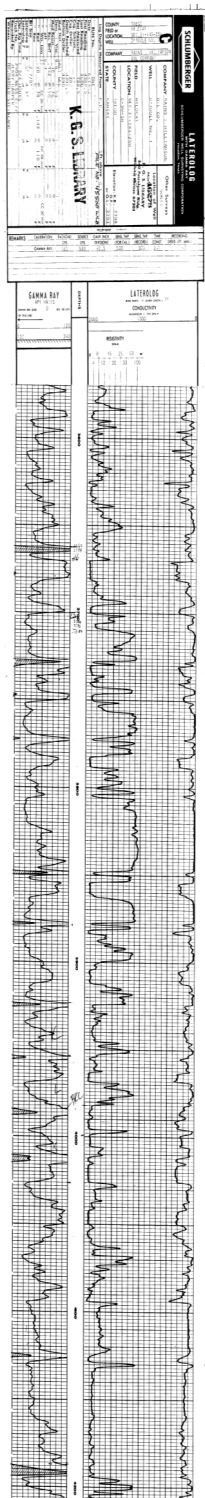
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*Dear KGS members, service company
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*I am urging each of you to attend the
AAPG MCS meeting in Oklahoma
City, OK from October 6-10. The reg-
istration flyer and sponsor list are on
pages 8-9. I had 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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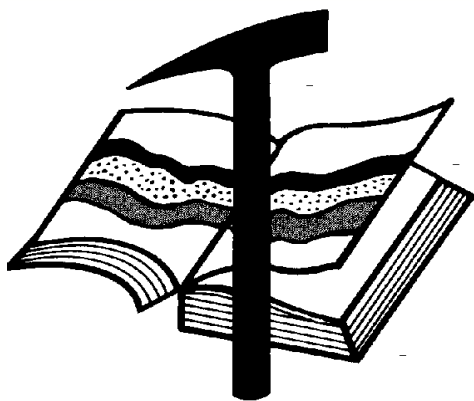
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KGS members please check your files

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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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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Millennium Club	\$1000 to \$5000
President's Club	\$5000 and over

Kansas Geological Foundation

Kansas Geological Foundation News

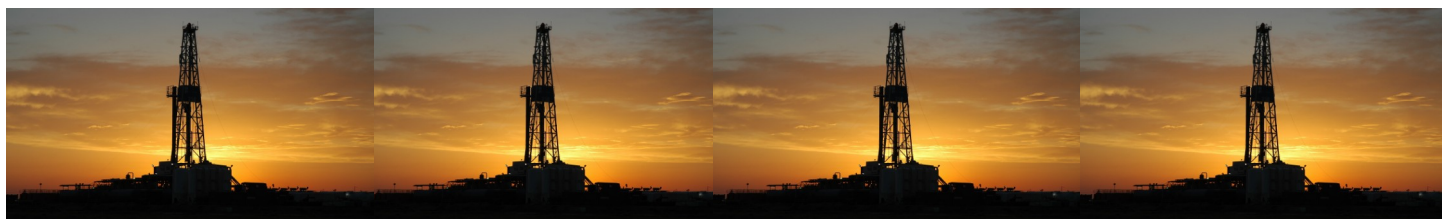
Fall 2023 KGF Scholarship Recipients

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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Scholarships - Maurice Korphage
Publicity - Wes Hansen

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.

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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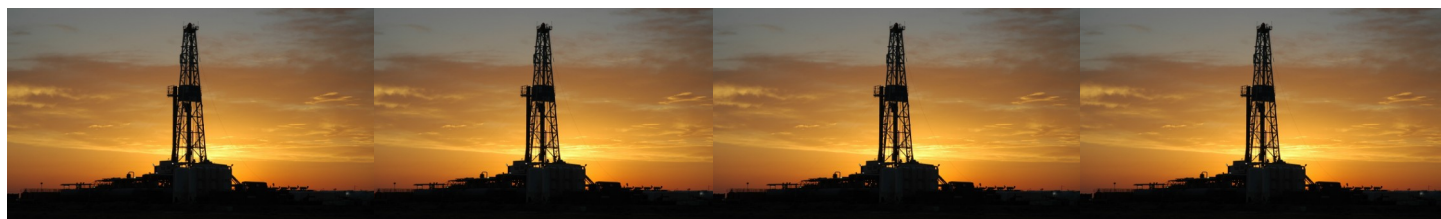
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Dan Bowles	09/89	1990
John Brewer	10/89	1990
George Bruce	08/89	1990
Robert Gebhart	01/90	1990
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Clinton Engstrand	09/91	1991
M.F. "Ted" Bear	10/91	1991
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Heber 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. Schaaake	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
Craig Caulk	03/10	2010
Joseph E. Moreland, Jr.	03/10	2010

Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Established
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
Byron Hummon	12/18	2019
Mike Raymond	11/19	2019
James Roberts, Jr.	3/19	2019
Herb Johnson	8/19	2020
Lloyd Parrish	2/20	2020
Bruce Reed	5/20	2020
Bob Scull	6/20	2020
Thornton E. Anderson	7/20	2020
Don Shawver	12/16	2020
Phillip Hart	12/20	2021
Timothy Lauer	05/21	2021
Fredrick Stump	09/21	2021
Larry J. Richardson	10/21	2021



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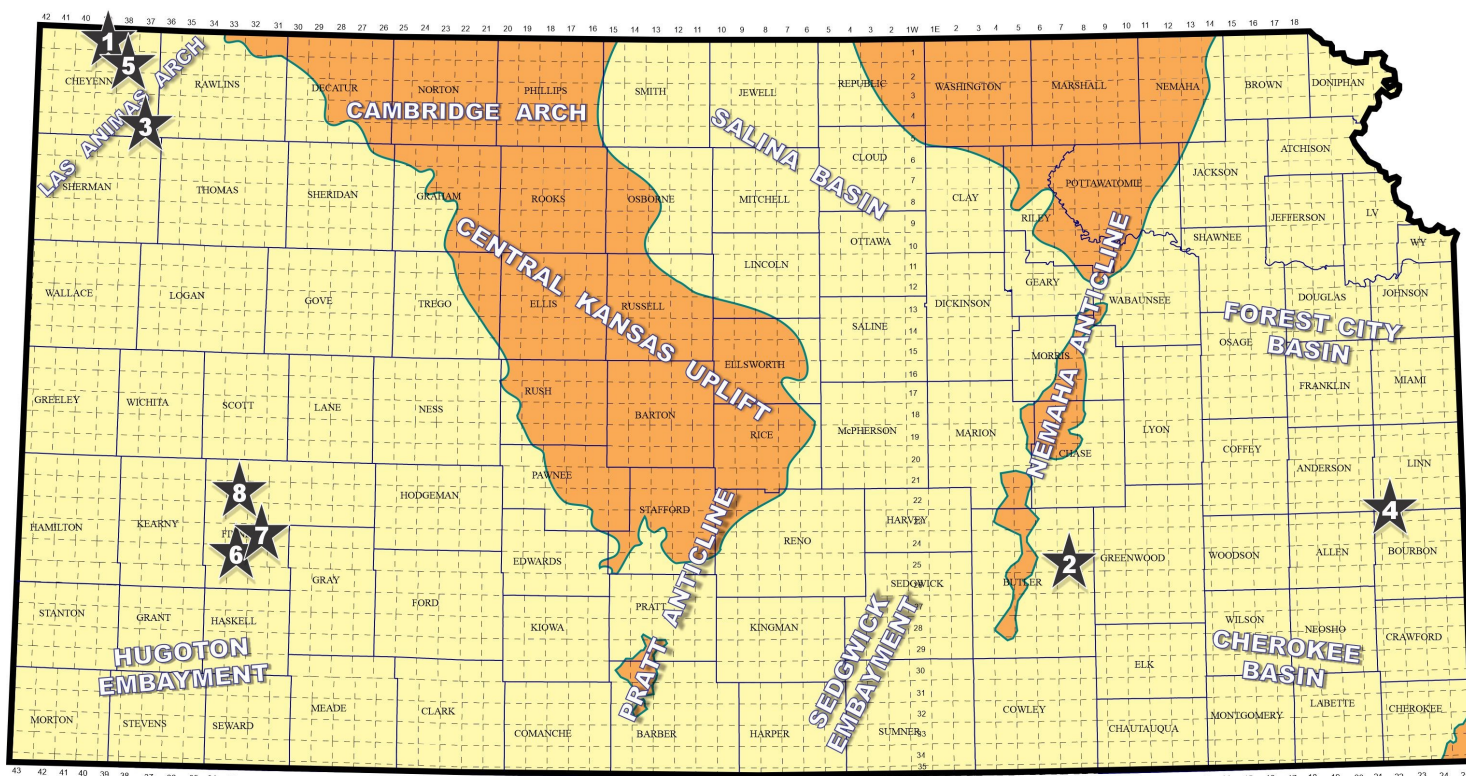
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Contact Robbie Gries, co-Chair VGP committee, Denver, if you are interested in learning more. rrgries@aol.com

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)

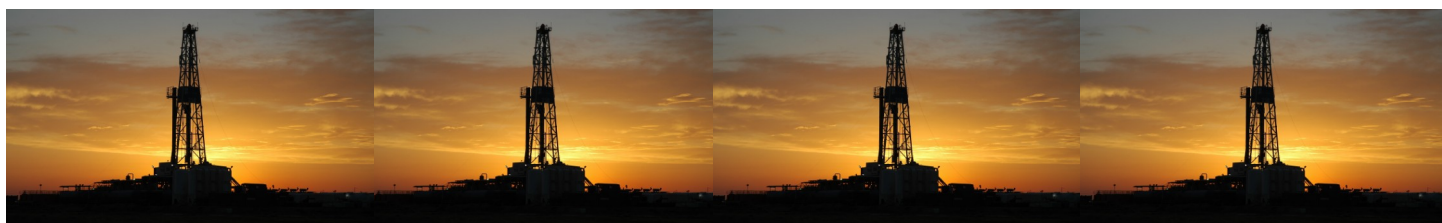
4. McGown Drilling, Inc., Mound City (KS), has established new Cherokee (Bartlesville Sand) oil production nearly two miles east of active wells in the Blue Mound Southeast in Linn County, eastern Kansas. The BB27 Wilson was drilled with company tools in the SE/4 of section 12- T23s- R22E, about two 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)



July 2023

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

August 2023

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