



Established 1925

KANSAS GEOLOGICAL SOCIETY

BULLETIN

Volume 90 Number 5

September—October 2015

IN THIS ISSUE

Memorials:

*Edward Birmingham
George Stoppeworth*

Transporting Crude Oil A 155 Year Old Problem

Lawrence H. Skelton
Page 10

**Active Society Members:
Please read notice on page 11
regarding by-law changes**

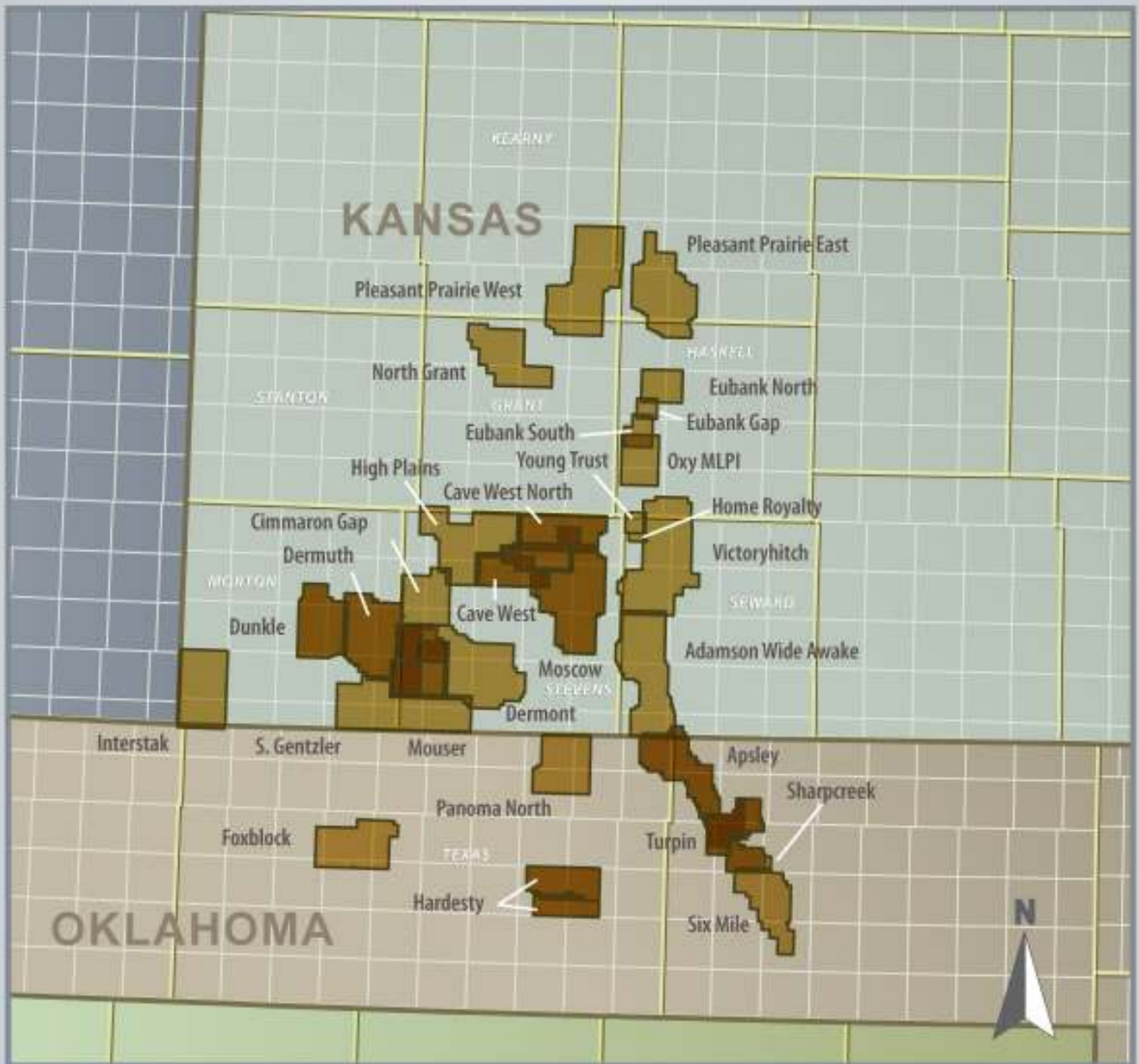
Mid-Continent Section Meeting

*October 4th—6th
Tulsa, Oklahoma*



THE ART OF DISCOVERY

3D Surveys now Available for Licensing



- 1994 - 2003 Vintage
- Good quality data
- Volume packages available
- 2D seismic also available



Kansas 3D Surveys

For more information, please contact:
Leigh Carder, American Geophysical Corporation
leigh.carder@anadarko.com
832-636-1438

Pending Management Approval

Date: 3/25/15

Table of Contents

Features

Transporting Crude Oil.....	10
Memorials	18

Departments & Columns:

KGS Tech Talks	4
President's Letter	7
Advertiser's Directory	8
From the Manager.....	9
KGS Board Minutes	10
Professional Directory	19 & 20
Exploration Highlights	24 & 25
Kansas Geological Foundation Memorials.....	26

ON THE COVER:

- Please read about by-laws changes needed on page 11
- Please See Information on Mid-Continent meeting on page 12

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 Rebecca Radford, 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

2015 Technical Talks

Sept. 22— (Tuesday) - Kevin Evans, Missouri State University, “*Mid-Mississippian Weaubleau Structure*”

Sept. 29—(Tuesday) - Fred Gassert, Kansas Astronomical Observers, “*How Telescopes Changed Our Understanding of Our Universe*”

Oct. 20—(Tuesday) - Warren Martin, Director of Kansas Oil Museum, El Dorado, “*Geology: A Lesson In Being A Lifelong Learner*”

For More Information or suggestions of speakers please contact Dave Clothier: dave@mccoypetroleum.com

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.

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



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



BOARD OF DIRECTORS

PRESIDENT

Frank Mize

PRESIDENT-ELECT

Tim Hellman

SECRETARY

Chuck Brewer

TREASURER

Leah Kasten

DIRECTORS

Brian Fisher

Ted McHenry

Paul Gunzelman

ADVISORS

Alan DeGood

M.L. Korphage

COMMITTEE CHAIRMEN

Advertising

Kent Scribner

Advisory

Alan DeGood

M.L. Korphage

Annual Banquet

Bob Bayer

Budget Committee

Leah Kasten

Bulletin

Rebecca Radford

Continuing Education

Dave Clothier

Distinguished Awards

Brian Fisher

Environmental

Kent Matson

Field Trip

Larry Skelton

Fishing Tournament

Randy Teter

Future Plans

Chuck Brewer

Golf

David Barker

Historian

Larry Skelton

Investment

Leah Kasten

Library

Roger Martin

Ted Jochems

Membership

Larry Friend

Nomenclature

John H. Morrison, III

Picnic

Wes Hansen

Public Relations

Robert Cowdery

Shooting Tournament

Larry Richardson

Technical Program

Dave Clothier

Ticket Sales

Bill Shepherd

A.A.P.G. DELEGATES

Ernie Morrison
2018

Douglas Davis
2018

BULLETIN STAFF

EDITOR

Ernie Morrison (316) 264-6366

ADVERTISING

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

PROFILES/MEMORIALS

Robert D. Cowdery
Consultant (316) 267-9030

EXPLORATION HIGHLIGHTS

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

STATE SURVEY

Rex Buchanan
KS Geological Survey (785) 864-3965

SOCIETY NEWS

KGS Library (316) 265-8676

EDITOR EMERITUS

Wes Hansen (316) 263-7313
Larry Richardson (316) 262-8427

K.G.S. LIBRARY

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

email: frontdesk@kgslibrary.com or

Web: www.kgslibrary.com

LIBRARY MANAGER

Rebecca Radford 265-8676

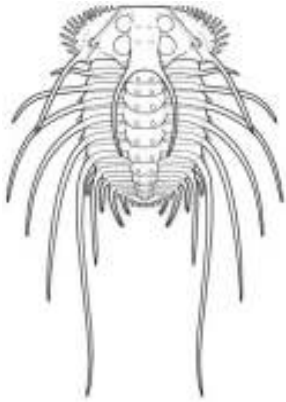
manager@kgslibrary.com

The KGS *Bulletin* is published bi-monthly by the Kansas Geological Society, with offices at 212 North Market, Wichita, Kansas 67202 Copyright 2015, 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!!

Tom Dudgeon correctly identified
The last one as: Andegavia

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



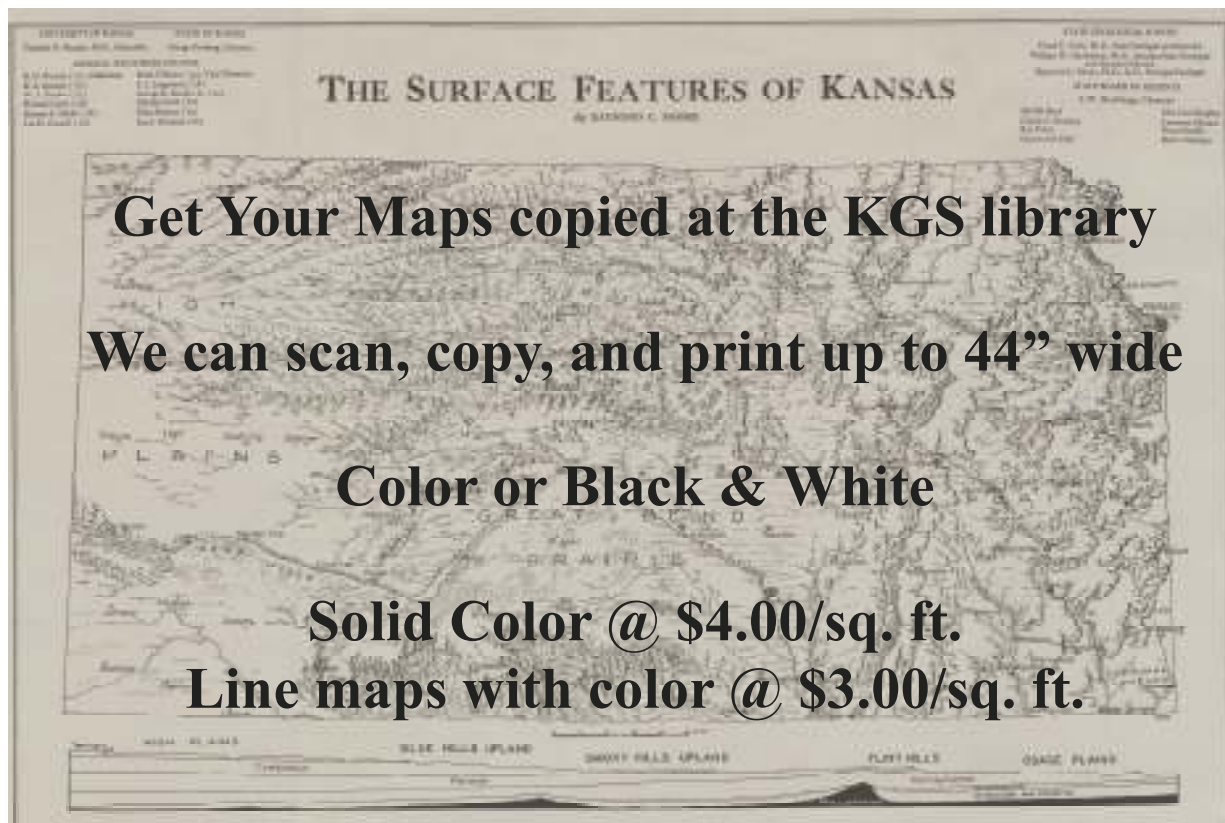
Get Your Maps copied at the KGS library

We can scan, copy, and print up to 44" wide

Color or Black & White

Solid Color @ \$4.00/sq. ft.

Line maps with color @ \$3.00/sq. ft.



President's Letter

Greetings fellow KGS members,

I would like to thank everyone that participated in the KGS Golf Tournament as well as the KGS picnic. I know good times were had by all.

After a brief rise in activity that coincided with oil price, business in the library has been slipping. The Board will be taking additional action at the September KGS Board Meeting to deter the negative cash flow. Rebecca and I will be at this year's EKOGA Convention in Mayetta to try and stir up more support for our Eastern KS project for the digital library.

I had the privilege of hosting a summer intern this year from the University of Louisiana at Lafayette, Aro Terrel. Aro did some work on a project I'm working on in Southeastern KS, and also learned a few things in the field. We toured a drilling rig, describing all the things we KS geologists do along with drilling rig fundamentals.

Gary Reed (licensed petroleum engineer) also met us in the field, and Aro had a chance to witness a Mechanical Integrity Test on a disposal well, learn how a dynamometer works, and gauge a tank! Aro did a good job of restoring my faith in students coming out of college, as she was a very intelligent young lady. Hopefully, she won't mind being pictured in our Bulletin!

As I prepare for a location in Nebraska, I'm reminded that we all need to make use of our library for all of our printing needs. Maps, electric logs, seismic.....the Library can handle anything, and the Society could certainly use the business.

I'm still waiting to see some of those 'bucket list' photos from the rest of you, so send in your pictures, and you will be credited in the next issue of the KGS Bulletin!

Frank S. Mize
President 2015



Kansas State University
DEPARTMENT OF GEOLOGY

Graduate education for active professionals in this innovative program, workshops, site visits and distance courses help professionals advance in their careers. Whether your goal is to receive academic credit, certifications or a master's degree in geology, you'll find a path that leads to your career goals.

CHOOSE FROM SPECIALIZATIONS IN:

- ▶ Petroleum geology
- ▶ Environmental geochemistry
- ▶ Structural Geology
- ▶ Groundwater
- ▶ Exploration geophysics
- ▶ Geomicrobiology

LEARN MORE

Contact Pamela Kempton, department head, for more information at pkempton@k-state.edu. Or contact any of our program partners to learn more.

*K-State Global Campus: dce.k-state.edu
 Geology department: k-state.edu/geology
 Graduate School: k-state.edu/grad*



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>
Allied Cementing Company, Inc	23
American Energies Corp. Nitrogen Rejection	13
Anadarko (American Geophysical Corp.)	2
Breckenridge Exploration Company	15
Duke Drilling	23
GeoSteering	14
Global Geophysical	15
Kansas Geological Foundation	26
Kansas State University	8
Lockhart Geophysical	23
Lone Star Geophysical Surveys	16
MJ Systems	21
MBC Well logging	23
Murfin Drilling Company, Inc	23
Neuralog	15
PARAGON Geophysical Services, Inc	13
Pratt Well Service	15
Professional Directory	19-20
Sunrise Oilfield Supply	23
Tomcat Drilling	23
Trilobite Testing	6
Walters Digital Library	2
Weatherford	27
Well Enhancement Services	14

ADVERTISER'S RATES: 2015

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 Rebecca at 316-265-8676

From The Manager

Dear Members,

As fall approaches, we get busy here at the Society's library. Even though there is not much drilling going on, Society business keeps us busy. First, we will have a booth at the Mid-Continent Section meeting in Tulsa October 4-6. Looking forward to seeing many of our Oklahoma members at the meeting and I think we will have a lot of Kansas members attending as well.

Prior to that meeting, I am taking a booth to EKOGA for the first time. Eastern Kansas remains a little busier than other areas of the state right now and it will be good to make contact with some new geologists and operators in that area. We have scanned all of our Eastern Kansas Plotted Geologist reports and are nearing completion of Eastern Kansas well logs being scanned. We are excited to have a lot more to offer those working east ranges in our state. That meeting is September 15-17 at the Prairie Band Casino in Mayetta, KS.

September 18th will be the **KGS Annual Fishing Tournament** at Pratt County Lake and October 2nd will be the **KGS Annual Clay Shoot**. Hope to see lots of participants at these events!

On another note, **September 19th, the Kansas Oil Museum in El Dorado** is celebrating the 100th anniversary of the 1st well drilled in Butler County, the Stapleton #1. The museum is hosting a steak dinner that Saturday night at the community building. Tickets are \$35.00 and I have some at the library if you are interested. Author Jay Price will be a featured speaker. Proceeds from the dinner go to help support the museum. If you have never been over there, it is worth the trip! You will see many familiar faces on the Legacy Wall at the museum, most recently, Wayne Woolsey was inducted.

Finally, we have an addition to the library, hanging on the long wall as you enter. It is a cross-section map that the Society produced in 1931. It runs from Lake Superior to the Texas/Mexico border. It is an amazing piece! Bob Stolze and his map committee have been going through all of the old donated maps and came across this one and our very talented member, Curtis Covey, built a frame for it. The frame itself is a masterpiece. Here's a photo in case you can't make it into the library to see it in person. We have scanned this and will be selling copies of differing sizes in the near future.

Respectfully submitted,
Rebecca Radford
Manager



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

Transporting Crude Oil – A 155 Year Old Problem

Lawrence H. Skelton

After the Civil War, oil production rapidly increased in the Titusville area of northwestern Pennsylvania. An immediate problem was how to transport this newly found and profitable liquid to market. The initial answer was to fill barrels and leak-proof containers of any size and shape with oil and transport them in mule or oxen-drawn wagons or on barges/rafts down nearby streams to the Allegheny River. These modes were expensive to the oil producers but provided previously unknown income to teamsters. Varying the size of shipping containers created serious accounting problems and it was quickly recognized that a standard container was required. At the time and for many years prior, a unit called the “pipe” that was equal to three lesser units called a “tierce” of 42 gallons each had been in use to ship fish, molasses, wine or any liquid. In 1866, a committee meeting in Titusville decided that the tierce should be their standard container to ship petroleum. Thus, the oil industry adopted the 42-gallon barrel.

Teamster charges ranged from around one to four dollars per barrel depending on the distance from the well to the railhead or barge pier and new barrels cost as much as \$3.25 each. The standardized barrel helped accounting problems but transport to such refineries as existed remained a major problem. Pipelines were an obvious solution and were discussed in Pennsylvania’s Oil Creek area as early as 1861. A two-inch diameter, two and a half mile long cast iron pipeline was installed to a local refinery in 1863 but it and another slightly longer one were torn up and wrecked by teamsters. An 1864 plan for a pipeline along the Allegheny River to Pittsburgh was blocked by teamsters’ political pressure on the Pennsylvania legislature.

There were yet no cross-country or trunk pipelines and existing refineries tended to be in the larger market areas. Installed pipelines were what are now referred to as gathering systems. They delivered crude oil to the nearest railhead where it could be loaded on tank cars (a new concept) for delivery to refineries. Railroad companies thus became interested in owning pipelines. Refiners understandably began to negotiate with the railroads for favorable rates; such negotiations quickly led to rebates and kickbacks. Rockefeller refineries in Cleveland, Ohio were engaged in such practices by 1867. At the time, such methods were not illegal. Rival refinery operations in Pittsburgh aligned with the Pennsylvania Railroad and the Rockefeller interests worked with the New York Central and Erie Railroads. With either the rail companies or refiners or both owning the gathering systems, petroleum operators were thus trapped to a single purchaser who could set the price for their product. This was the situation in Kansas during the 1890s that is so well-described by the late Wichita State University historian, H. Craig Miner, in his 1976 book, *Fire in the Rock*.

During the latter 1800s, the major markets for petroleum products were along the Atlantic seaboard and in Europe. Railroads from the refining centers to the east coast were the way of transporting crude and they fought to keep their business. Political pressure and likely bribery at state level and occasional sabotage were order of the day. Long distance pipeline construction was thwarted by the necessity to cross rail company rights-of-way that then had existed for a half-century or more. Late in 1878, the Tide-Water Pipeline Company was organized with the aim to transport crude oil from the producing areas of the Bradford Field to Williamsport, Pennsylvania, a distance of 109 miles. At near the same time, the Reading Railroad was organized to furnish transport from Williamsport to the New York City/Bayonne, New Jersey area. Soon after, in 1881, Standard Oil constructed a 315 mile long six inch line from oil fields in the Olean district in southwestern New York to Bayonne. A second line followed within a year, a third in 1884 and a fourth line in the late 1880s. In 1888, the Tidewater Company decided that additional profits were to be made outside the pipeline business and reorganized as the Tidewater Oil Company.

Actions of this type continued as rails and pipelines competed for oil shipments as Standard Oil by the 1880s controlled over 80 percent of the oil business. The fledgling pipeline industry politicked in the Pennsylvania legislature to be put on equal footing with the railroads. Legislation went both directions until finally the federal government stepped in and enacted the Interstate Commerce Act of 1887 that regulated the monopolistic tendencies of the rail companies. Soon after, the Sherman Antitrust Act of 1890 was passed to place a degree of stricture on Standard Oil’s monopolistic tendencies. The 1903 Elkins Act that came next established the Interstate Commerce Commission (ICC) and made railroad rebates and kickbacks illegal. Three years later, the Hepburn Act extended ICC oversight to pipeline companies and gave ICC the authority to set railroad charge rates.

The laws cited above gave the government clout to regulate big corporations. At about the same time, journalist Ida Tarbell published an exposé of Standard Oil that caught the eye of President Theodore Roosevelt and the Kansas fighting that Miner described in *The Fire in the Rock* received national attention. Falling prey to widespread public outcry, President Roosevelt and the public laws, the Standard Oil Trust was broken up by Federal decree in 1911. Among the outcomes was a decision that all petroleum pipelines which transported purchased oil (as opposed to oil produced by the pipeline company) must accept common carrier status.

Thus the stage was set for present-day oil pipeline activities. Changes did occur. The ICC was abolished in 1995 and many of its activities moved to the government’s Surface Transport Board. Pipeline ruptures and spills occur, sometimes caused by poor maintenance and/or human error and draw the attention of anti-oil, Luddite media. Such negative press has delayed the completion of the 36-inch Keystone XL crude oil pipeline from Alberta, Canada to the Gulf of Mexico. At present passage through the state of Nebraska seems to be a major holdup caused by fear of environmental damage, safety concerns and political considerations.

But is that all? Closer examination raises the specter of railroad monopoly and high-level politicking a la the late 1800s. A 2014 issue of the Texas Tribune reported that there were nearly 140,000 miles of rail in the United States compared to approximately 57,000 miles of crude oil pipeline. A recent report by the Congressional Research Service places the cost of pipeline transport of crude oil at \$5.00 per barrel vis-à-vis \$10.00 to \$15.00 per barrel by railroad. As of 2014, the Burlington Northern – Santa Fe Railroad (BNSF) was the largest transporter of crude oil in North America. Second in size only to the Union Pacific Railroad, BNSF as of the year 2000 is wholly owned by Berkshire-Hathaway, Incorporated, a major holding company controlled by Warren E. Buffet. In July 2014, the Association of American Railroads cited the North Dakota Pipeline Authority in reporting that nearly 700,000 barrels of crude oil were moving out of the state by rail; approximately 60% of daily production. That volume is approximately 980 tankcars per day. In 2007, BNSF reported owning 427 tankcars but by 2014 was planning to purchase as many as 5,000 new tankcars to haul crude oil (Wall Street Journal, 20 Feb. 2014). A unit train consisting of 104 to 108 tankcars can haul 81,000 barrels of crude oil and, according to rail

authorities, can move it to market (refinery) up to five times faster than a pipeline. But according to costs cited in the previous paragraph, rail costs two to three times that of a pipeline – a cost paid by the oil producers.

Pipeline ruptures draw more media criticism than railcar accidents that although reported seem to this writer to draw less sustained attention and political reaction. If a valid observation, it would seem to be a media bias against pipelines. However, pipeline spills usually involve substantially larger volumes than do rails. These are problems that have existed since “Pennsylvania days.” Improvements could be made to both processes: tankcar construction could be strengthened and rails more often checked and upgraded; additional check valves could limit the volume of pipeline spills. Both however will add costs. Reuters has estimated that necessary rail car improvements will cost in excess of three billion dollars.

In summary, although separated by more than a century, there is a measure of similarity between pipeline/railroad oil transport from the earliest days in the Pennsylvania oilfields and the present Keystone-XL pipeline controversy: locations, of course, differ; the rail companies differ – Pennsylvania Railroad and Erie Railroad vs. Burlington Northern-Santa Fe; present political influence and fighting at the federal level rather than the state level and finally, the major background protagonists – John D. Rockefeller, Sr. vs. Warren Buffet – very big money in both cases.

References:

- Aljazeera-America, 2014, “New Safety Standards Will Cost Railroads Over Three Billion Dollars per Reuters Estimate”: america.aljazeera.com/articles/2014/1/2crude-oil-flammable.html. Accessed 22 August 2015.
- Johnson, Arthur M., 1956, *The Development of American Petroleum Pipeline: A Study in Private Enterprise and Public Policy, 1862 – 1906*; Cornell University Press, Ithaca, N.Y., 307p.
- McLean, John G. & Haigh, Robert W., 1954, *The Growth of Integrated Oil Companies*; Harvard University, Boston, MA, 728p.
- Miner, H. Craig, 1976, *A History of the Oil and Gas Industry in Kansas: The Fire in the Rock*; Kansas Independent Oil and Gas Association, Wichita, KS, 110p.
- Wikipedia; The Free Encyclopedia, 2015, Common Carrier, https://en.wikipedia.org/wiki/Common_carrier. Accessed 24 June 2015.

NOTICE TO ALL MEMBERS—PLEASE READ

From the Treasurer:

The KGS Board of Directors wishes to notify KGS members that we will be considering a change to the bylaws at our September board meeting. Should the Board proceed with recommending a change, it will then be put before the membership for a vote. Ballots will be mailed in October accompanying the Board of Directors election ballots.

Proposed change:

The possible change is in regards to Article V, Section 3, which reads “.....*Specifically, the Treasurer shall be responsible for an annual **audit** of the Society’s funds by a firm of public accountants, and shall make an annual report of the Society’s finances to the membership.*” While the exact wording has not yet been determined, the word “**audit**” will likely be replaced with something like “**external examination**” or other equivalent. In accounting terminology, an “Audit” is an exhaustive, comprehensive and *expensive* analysis of financial documents, requiring peer review, evaluation of internal controls, and numerous tests and analyses. The KGS Board, however, has been compelled to carry out an annual “audit” in accordance with the wording presented in the bylaws. There are viable options for qualified external examination of financials that are less costly, but will verify accounting practices and maintain transparency and integrity of the Society’s funds for the Board of Directors and the KGS Membership.

Rationale:

For several years, our long time accounting firm Nord and Walsh, has recommended that we make the change from an annual Audit to a different type of external financial examination that is more in line with the needs of the organization.

- 1) Our Audit this year is going to cost approximately \$11,000. This is clearly a significant expense at a time when fiscal responsibility is critical to sustaining a solid financial position during this industry downturn.
- 2) We are currently the only client for whom Nord and Walsh conducts an audit and they are not continuing the service next year. It is a very costly service requiring them to secure additional certification, peer review, as well as fees for testing/analysis programs used in the audit. Since small accounting firms no longer conduct audits, we would need to secure a new (and fairly large) accounting firm to continue an annual audit.
- 3) There are alternative examination tools used by CPA’s, such as a “compilation” that will provide the external oversight necessary to secure confidence of our financial records at approximately 25% of the cost.. A compilation would be conducted by a certified public accountant and return most of the significant information currently provided by an audit, such as any misstatements or misrepresentations of the financial data. This is the method used by most corporations and is recommended by our accountants. ***(Continued on page 25)***

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

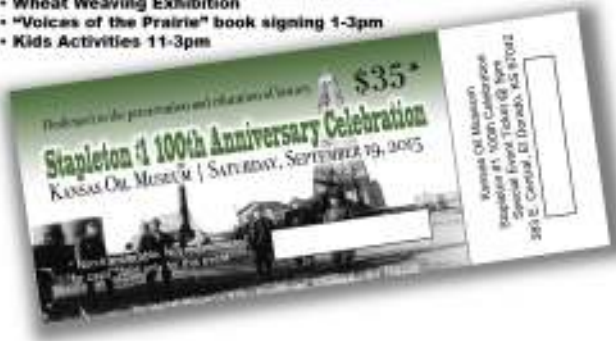
The screenshot displays the Robert F. Walters Digital Library website interface. It features a search bar at the top with fields for 'All Names', 'County', 'Depth', and 'Well Type'. Below the search bar is a table of search results with columns for Well No., County, Well Name, Depth, and Well Type. A detailed record for 'BARBARA OIL CO' is shown, including well information and a 'K.E.S. LIBRARY' logo. The record also includes a 'LATEROLOG SURVEY' section with various data points.

Well No.	County	Well Name	Depth	Well Type
0-001400	CORNWALL	001	100	WATER
0-001401	CORNWALL	002	100	WATER
0-001402	CORNWALL	003	100	WATER
0-001403	CORNWALL	004	100	WATER
0-001404	CORNWALL	005	100	WATER
0-001405	CORNWALL	006	100	WATER
0-001406	CORNWALL	007	100	WATER
0-001407	CORNWALL	008	100	WATER
0-001408	CORNWALL	009	100	WATER
0-001409	CORNWALL	010	100	WATER

Stapleton #1 100th Anniversary Celebration

Join the Kansas Oil Museum for:

- Working demonstrations of Drilling Rotary Rig & Walker-Neer
- Living History Demonstration throughout Boom Town
- Wheat Weaving Exhibition
- "Voices of the Prairie" book signing 1-3pm
- Kids Activities 11-3pm



Saturday Night @ 5pm, Join the Kansas Oil Museum for a public
Steak Dinner & Special Presentation

by Jay M. Price, Author of El Dorado: Legacy of an Oil Boom
Dinner will be held at the Butler County Extension Building, 206 N Griffith

**TICKETS ON SALE NOW
HERE AND AT THE KANSAS OIL MUSEUM**

SEPTEMBER 19, 2015

FOR MORE INFORMATION CONTACT THE KANSAS OIL MUSEUM
316-321-9333 | 383 E. CENTRAL, EL DORADO, KS 67042 | DIRECTOR@KANSASOILMUSEUM.ORG



Providing Quality Seismic Since 1993

Visit our website at
www.parangeo.com



3500 N. Rock Rd., Bldg. 800, Wichita, KS 67226 316-636-5552
paragon@parangeo.com

Mid-Continent Section

2015 AAPG Mid-Continent Section Meeting
4-6 October 2015 | Tulsa, Oklahoma

Theme: "The Art of Discovery"

Registration now open.

<http://aapgmcs.org/section-meetings/2015>

Exhibitor Spots and Sponsorship Opportunities Available



THE ART OF DISCOVERY

WOULD YOU LIKE TO INCREASE YOUR PRODUCTION AT A FRACTION OF THE COST OF HORIZONTAL DRILLING?



Well Enhancement Services, LLC is jetting laterals utilizing new technology and coiled tubing. We now have the ability to place hundreds of gallons of acid hundreds of feet away from the well bore. This allows us to not only enhance existing production but to produce reserves previously unreachable. It has established itself by repeatedly increasing production in both new and existing wells. Contact us for more information, questions or to schedule your next well with **WES**.



“Tap into success.....with WES”

Please Contact Us:

Phone: (785) 625-5155

Fax: (785) 625-4151

Field: (785) 259-4638

wesofhays@hotmail.com
Box 87, Schoenchen, KS 67667

www.**GeoSteering**.com

281-573-0500
info@geosteering.com

Free introductory consultation with modeling: let us demonstrate whether images or propagation resistivity could add value to your well.

Personnel with degrees & 20+ years of oilfield experience

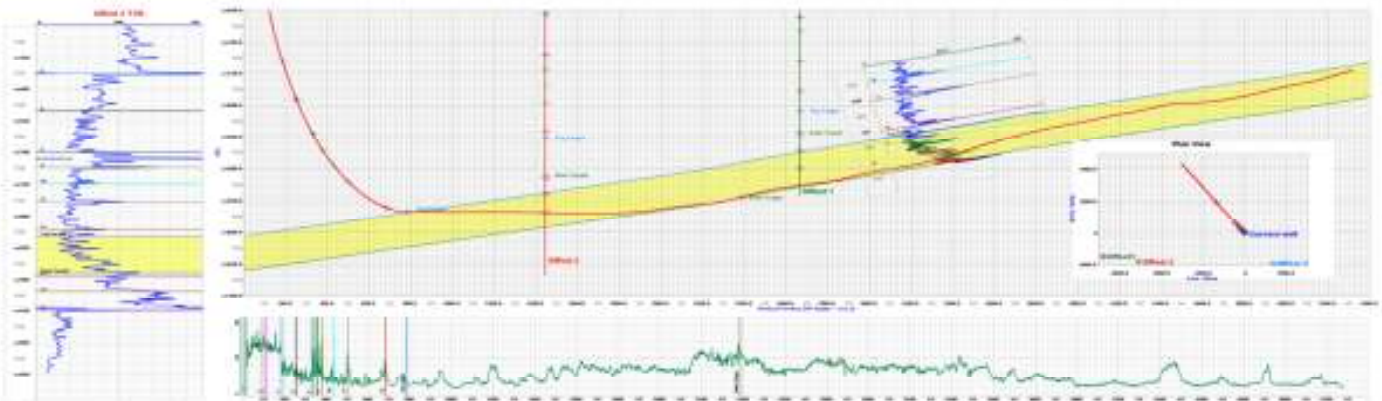
Proprietary software

TST interpretation for GR only jobs

Image displays / interpretation for jobs with azimuthal GR, resistivity or density

Resistivity modelling / interpretation for jobs with LWD propagation resistivity

Real-time (always)





Complete Well Service

Since 1946

P.O. Box 847
Pratt, Kansas 67124

Kenneth C. Gates
President

Kevin C. Gates
Vice President

1-800-660-7974
Fax: 620-672-5902

Member KIOGA /AESC

Equipment yard & field office:
1 3/4 miles North on Highway K-61 from 54 & K-61 Junction

Call us 24
Hours-A-Day
620-672-2531

- . Experienced Crews . Rod & Tubing Service . Workover & Completions . Swab Tanks
- . Pole Masts-Single and Double Derricks . Air Foam Unit . Monitor & Water Well Drilling
- . Reverse Circulating Pump & Power Swivel Equipment . Statewide Oilfield Hauling
- . Environmental Cleanup . Vacuum Trucks/Water Trucks . Dirtwork-Dozers, Grader, Backhoe

Hydrovac Excavation Service

- . Cleaning cattle guards
- . Mud tank cleaning
- . Potholing . Trenching
- . Pipeline Crossings

www.prattwell.com



Neuralog
Turning Paper Into Petroleum

Bryan Mills
Regional Sales Manager

Solutions for Today's Geoscientists

- Scan, Print & Digitize - Logs & Maps
- Geological Interpretation
- Master E&P Data Management

1.281.240.2525

bmills@neuralog.com · www.neuralog.com



**BRECKENRIDGE
EXPLORATION
COMPANY, INC**

SEISMIC ACQUISITION

Check us out at www.breckex.com

Breckenridge Exploration Co., Inc.
Highway 180 E
P.O. Box 789
Breckenridge, TX 76424
Bus: (254) 559-7566

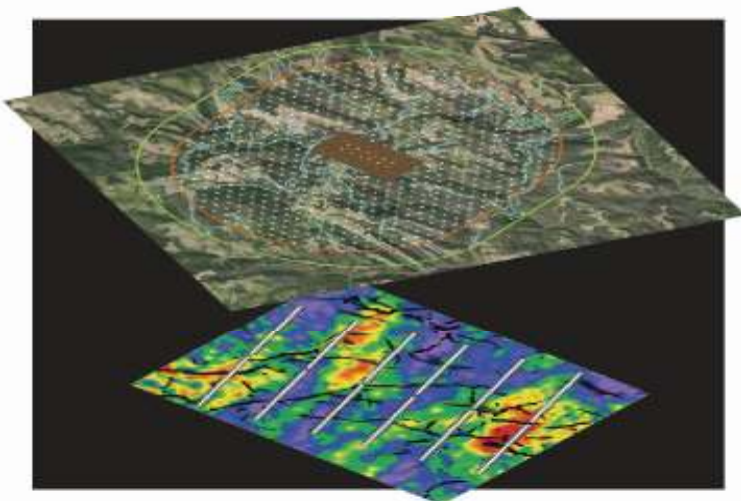
Denver Colorado Office
600 17th Street, Ste. 2800 S
Denver, Colorado 80202-5428
Bus: (303) 563-5301
Mob: (254) 559-0587

Sensible Seismic Acquisition in the Mid-Continent and the Rockies



FAST. ACTIONABLE. AFFORDABLE.

SEISMIC on DEMAND



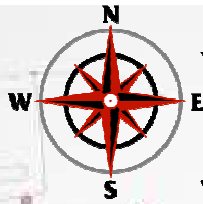
SEISMIC on DEMAND makes high-resolution seismic a practical choice for pad-based operations.

- Innovative 3D design makes acquisition fast and affordable – days in the field rather than months
- Nodal acquisition is fast and leaves minimal environmental footprint – easier permitting; happier landowners
- Acquire both active and ambient seismic to maximize the understanding of faults, fractures and stress fields
- Quick delivery of high resolution fault images and rock property attributes - timely and actionable information
- Affordable data for customized well plans and optimized completion designs

www.globalgeophysical.com/DEMANDSEISMIC or
Contact us at DEMANDSEISMIC@globalgeophysical.com

Global Geophysical Services
+1 713-972-9200 www.globalgeophysical.com

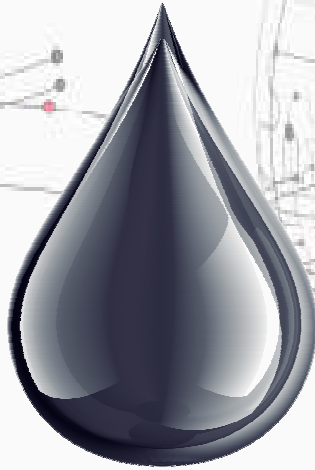




LSGS

LoneStar Geophysical Surveys

It's Real Simple. It's Real Effective.



Locating every last drop.



Superior Seismic Acquisition System



Data Recording 2D, 3D, 4D & VSP



AHV-IV™ Commander 364



Permitting Services



HSE Management System



Front-End Services



Shot Hole Drilling



Brush Clearing



Chainsaw Crews



Heliportable



Submit a bid request online:

www.lstargeo.com

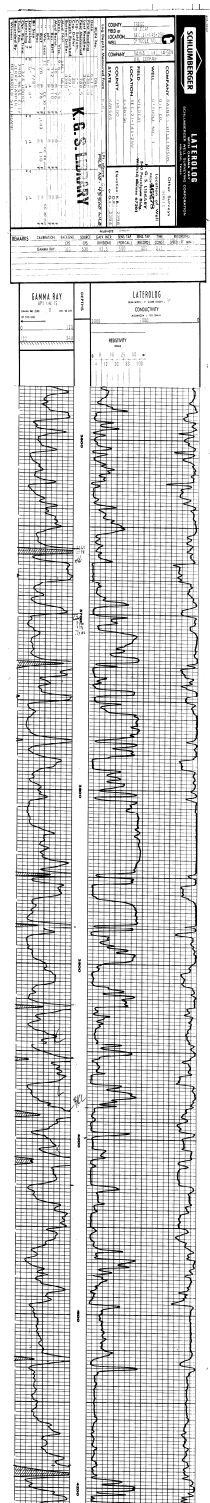
441 So. Fretz Avenue Edmond, Oklahoma 73003 (O) 405.726.8626 (F) 405.285.8521 lsgs1@lstargeo.com

*The KGS Wishes To Thank The
Following For Their Support of the
KGS Picnic*

Murfin Drilling Company
Woolsey Petroleum Company, Inc.
Edmiston Oil Company, Inc.
Ernie & Pat Morrison
Palomino Petroleum, Inc.
Bittersweet Energy, Inc.
Cobalt Energy LLC
Geotechnical Services, Inc.
Wes & Betty Hansen
Independent Oil & Gas
Phil & Chris Knighton
Landmark Resources, Inc.
Lario Oil & Gas Company
McCoy Petroleum Corporation
Mull Drilling Company, Inc.
Nabors Completion & Production
Robert O'Dell
Kirk T. Rundle
Sunrise Oilfield Supply
Richard Jordan
Basic Energy Services
Brito Oil Company, Inc.
COVEY- The Well Watchers
Range Oil Company
Eagle Creek Corporation
Lotus Operating Company, LLC
Frank Mize
Raymond Oil Company, Inc.
Larry Richardson
Fred Stump
Gerald D. Honas
Tim Pierce
Roger Martin



*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.

316-256-8676

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

Memorials



George Stoepfelwerth, III passed away peacefully on Sunday, July 26, 2014. He was born in Wichita, Kansas, on September 26, 1933, and spent his childhood in Russell, Kansas. George graduated with a degree in Geology from the University of Kansas in 1955. He was a member of the Kappa Sigma Fraternity and an active participant in the ROTC at the University of Kansas. He joined the [United States Air Force](#) following graduation. He served as an Air Force pilot for two years. George then began his oilfield career with Standard Oil in Houston, Texas. In 1961, he married Elaine Hoffman, who preceded him in death. In 1964, he and Elaine moved to McCook, Nebraska, where he continued the legacy of his father's drilling company, Stoepfelwerth Drilling, which was very active in Nebraska and Kansas. He was President of Stoepfelwerth Drilling for nearly 20 years. He was passionate about his work in the oil industry, and he continued to pursue that work throughout his life. George lived in Wichita, Kansas since the late 1980s. He was a member of the Kiwanis club and was actively involved in the remodeling of the Orpheum Theater. He also was a long time member of the Kansas Geological Society. He was blessed with many good friends and he loved spending time with his family, including his granddaughters, who brought great joy to his life. He is survived by his daughter, Ann Stoepfelwerth; son, Joe Stoepfelwerth; his son-in-law, Robert Fitz-Patrick; his daughter-in-law, Amy Stoepfelwerth; and his granddaughters, Megan Fitz-Patrick, Eliza Stoepfelwerth, Emily Stoepfelwerth, and Phoebe Stoepfelwerth.

ing his granddaughters, who brought great joy to his life. He is survived by his daughter, Ann Stoepfelwerth; son, Joe Stoepfelwerth; his son-in-law, Robert Fitz-Patrick; his daughter-in-law, Amy Stoepfelwerth; and his granddaughters, Megan Fitz-Patrick, Eliza Stoepfelwerth, Emily Stoepfelwerth, and Phoebe Stoepfelwerth.

Edward Louis "Lou" Birmingham age 100, died June 20, 2015. He was born November 18, 1914 in Tulsa, Oklahoma where he met his childhood sweetheart, Helen, to whom he was married for 62 years. He was a 1938 graduate of the University of Tulsa where he earned his degree in petroleum engineering. After college, Lou was employed by several major oil companies before starting his own company, Birmingham-Bartlett Drilling Company, in Wichita, Kansas. Under his supervision and with his expertise in petroleum engineering and geology, his company discovered, drilled, produced and owned many oil wells in Kansas.



While in Wichita, Lou became a licensed, instrument rated pilot and flew his beloved Beechcraft Bonanza on many family fishing trips to Canada, Mexico and the Bahamas. For many years Lou and Helen would host family summer gatherings with their son and daughter and their children in Minaki, Canada.

In the mid 1970's, Lou sold his oil company and he and his wife Helen moved to Gulfstream, Florida where they lived happily until 1996 when Helen died. He then moved to Bella Vista, Arkansas and made his home with his son Tom and Tom's wife

Janie. Lou loved family gatherings, flying his plane, fishing and golfing. He and Helen traveled the world and at his death, at age 100 plus six months, there were no items left unchecked on his bucket list.

Lou is survived by son Tom and his wife Janie Birmingham of Bella Vista, and a daughter Sandra and her husband Dr. Tom Kelly of Edwards, Co. Grandchildren: Jennifer McGehee of Apex, SC; Steve Jarmon of New York City, NY; Lara Birmingham-Goldberg of Henderson, NV; Tiffany Clark of Norman, OK; Ted Birmingham of Tulsa, OK; Step-grandchildren: Lance Lihou of Webb City, MO, and Dori Galloway of Tulsa, OK, and 9 great grandchildren and one great-great grandson.

Services were held at 2:00 pm., Thursday, June 25, 2015 at the Bella Vista Funeral Home and Crematory Chapel, 2258 Forest Hills Blvd, Bella Vista, AR 72715. In lieu of flowers please make donations in Lou's name to The Bella Vista Animal Shelter, 32 Bella Vista Way, Bella Vista, AR 72714 and or The American Indian Scholarship Fund, 8333 Greenwood Blvd, Denver, CO 80221.

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

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


Blue Ribbon Drilling, LLC
 PO Box 279, Dewey, OK 74029

Phone and Fax: 918-534-2322
 John's Cell Phone: 918-440-9639
 Larry's Cell Phone: 918-440-9638
 Jeff's Cell Phone: 918-440-9647
 Email: johnroutree@bratco-operating.com

ALFRED JAMES III
Petroleum Geologist
 Kansas - Colorado - Utah

4912 E. 29th St. N., Ste. 3, Wichita, Kansas 67220

SIPES # 1111
 Office (316) 267-7592
james.alfred21@yahoo.com



Banks Resources

Scott Banks
 Petroleum Geologist
banksbs@aol.com
 Cell: 316.253.8550

1700 N. Waterfront Pkwy.
 Bldg. 300 • Suite C
 Wichita, KS 67206

Phone: 316.558.5262
 Fax: 316.558.5263

M. Bradford Rine
Honorary Life Member—Kansas Geological Society

*Licensed Geologist—KS, #204
 Registered Professional Geologist—Wyo. # 189
 Certified Geologist—A.A.P.G. # 2647
 S.I.P.E.S. # 1584 S.P.E. #109833-4*

PROSPECT EVALUATION • PROSPECT GENERATION
 WELLSITE SUPERVISION • EXPERT TESTIMONY • OPERATIONS
 PROPERTY EVALUATION • RESERVOIR STUDIES
 DRLG./COMP. CONSULTATION

Suite 415 Office: (316) 262-5418
 100 S. Main Fax: (316) 264-1328
 Wichita, KS 67202 Cell: (316) 250-5941

WESLEY D. HANSEN
Consulting Geologist

Well site Supervision • Geologic Studies
 212 N. Market, Ste 257
 Wichita, Kansas 67202
 Off: (316) 263-7313
 Mobile: (316) 772-6188
whansen4651@sbcglobal.net



Paul Gunzelman
 President/Geologist

Wichita, Kansas 316.634.6026
 email p.gun@sbcglobal.net



KEVIN L. KESSLER
 INDEPENDENT/CONSULTING PETROLEUM GEOLOGIST

WELLSITE SUPERVISION • GEOLOGIC RESEARCH
 OIL & GAS PROSPECTS
 KANSAS & EASTERN COLORADO

MAILING ADDRESS PHONE
 1199 N. PONDEROSA RD. RES.: (316) 522-7338
 BELLE PLAINE, KS 67013 MOBILE: (316) 706-6636
 EMAIL: KKESSLER1199@AOL.COM

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

KGJ ENTERPRISES

Contract Oil & Gas Accounting &
 Office Management

Kathryn G. James, MBA (316) 775-0954
 4278 SW 100th ST. (316) 250-5989
 Augusta, KS 67010 kgjames@onemain.com



Steve Van Buskirk
Petroleum Geologist
Van Buskirk Geo-Consulting

15171 Ridgfield Ln Home: 719-487-8297
 Colorado Springs, CO 80921 Cell: 719-293-2900
 and Steve@vbcinc.com
 514 Ramsey
 Kiowa, KS 67070 **Available for Well site work**



Geotech & Design Services

7171 Highway 6 North, #202
Houston, Texas 77095

Data digitizing, drafting & processing

Tel: (281) 858-7100

Fax: (281) 500-8534

helen.schubert@geotechmaps.com

Helen Schubert
Project / Sales Manager

www.geotechmap.com

Covey—The Well Watchers

“One Thousand Wells and Counting”

Curtis E. Covey

Wellsite Petroleum Geologist

Gas Trailer Cell: 316-217-4679
Email: wellsitegeo1@gmail.com

Office: 316-776-0367
6548 Bedford Circle
Derby, Kansas 67037

Gas Detection Trailer & Internet/Phone Communications

NOTICE!!!!

**WSU GEOLOGY CLUB
& Papa John's Pizza**

Papa John's offered WSU student organizations an opportunity to raise monies for their organizations.

The **WSU Geology Club** is participating
And **YOU** can help them!

When ordering pizza from Papa John's,
Use this code: **WSU004**
(those are zero's, not letter O)

With this code, the customer will receive 40% off their entire online order and WSU's AAPG Student Chapter will receive 10% of the money spent on the order.

**Eating pizza tonight?
Let's help WSU Geology Club!**

Monies raised will be used towards gas money to travel to local schools when they promote the geosciences to grade schools, registration costs for workshops, seminars and AAPG Student Expos, and social and academic events like an upcoming "Lunch and Learn" series next fall.

**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*

The Following Are For Sale

*Kansas Completion Cards:
Several sets (call for more information)*

*1 Set Kansas Well Log Bureau Drillers logs
(1920's—1970's—both east & west ranges)*

Oklahoma Completion Cards: 2 sets—entire state

New Mexico Completion Cards

North Dakota Completion Cards

Utah Completion Cards

Microfiche Electric Logs

*Kansas
Oklahoma
Texas*

Geological Office Furniture:

- 8-drawer completion card cabinets
- 7-drawer cabinets
- Map cabinets—metal—2 available
- Map racks—different sizes—6 available

**Call: 316-265-8676
Ask for Ted**

Kansas Geological Foundation Video / DVD Collection

The KGF has an extensive collection of videos available for check-out at no charge. Only pay for shipping back.

These are ideal for classroom or general public viewing.

See the web for titles & descriptions
www.kgfoundation.org

Call 316-265-8676
Ask for Janice to check out videos

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



Logs Since 1971

www.mjlogs.com

6 MILLION LOGS

DEPTH REGISTERED

**INTERNET
DOWNLOADS**

**ONLINE
SEARCH**

SEARCH AND FILTER BY DEPTH

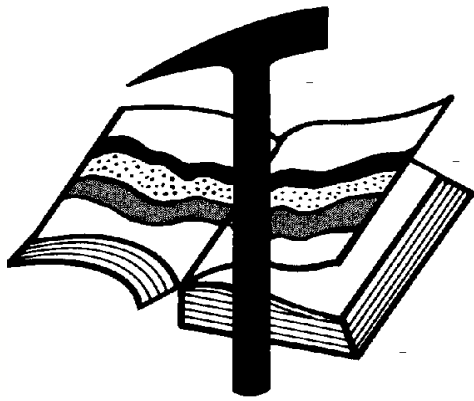
OWN THE LOGS

LogSleuth Software

CLUB WEB

WEB SITE CATALOGUE

1-800-310-6451



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 Janice Bright 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 Janice Bright 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

WESTERN KANSAS
SOUTHERN NEBRASKA



EASTERN COLORADO
OKLAHOMA PANHANDLE

**12 Drilling Rigs
To Depth of 8,500 ft.**

**11 Well Service Rigs &
Roustabout Services**

For contract information, please contact:
Blaine Miller, Drilling Manager
316-858-8607 (Direct) or 316-267-3241

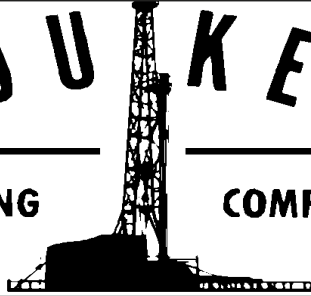
For contract information, please contact:
Jesse Spargo, Well Service Sprvsr.
785-421-2103

250 N. Water #300—Wichita, KS 67202

East Highway 24—Hill City, KS 67642

DUKE

DRILLING COMPANY



ROTARY DRILLING CONTRACTOR

620 Hubbard PO Box 823
Great Bend, KS 67530
Phone 620-793-8366

100 S. Main, Ste. 410,
Wichita, KS 67202
Phone 316-267-1331
Fax 316-267-5180



Great Bend (620) 793-5861 Ness City (785) 798-3843 Medicine Lodge (620) 886-5926

ALLIED CEMENTING CO., INC.

Acidizing Available at Medicine Lodge District

Russell (785) 483-2627 Oakley (785) 672-3452

LOCKHART GEOPHYSICAL

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

MBC

**WELL LOGGING & LEASING
UNMANNED GAS DETECTORS
MUD LOGGING
CERTIFIED INSTRUMENT TECH**

AUSTIN GARNER MARLA GARNER

**24-HOUR PHONE (620) 873-2953
MEADE, KANSAS**



FULL LINE SUPPLY STORE
With Pump Shop, New & Used Pipe,
Equipment and Fittings
Exclusive S-55 casing source

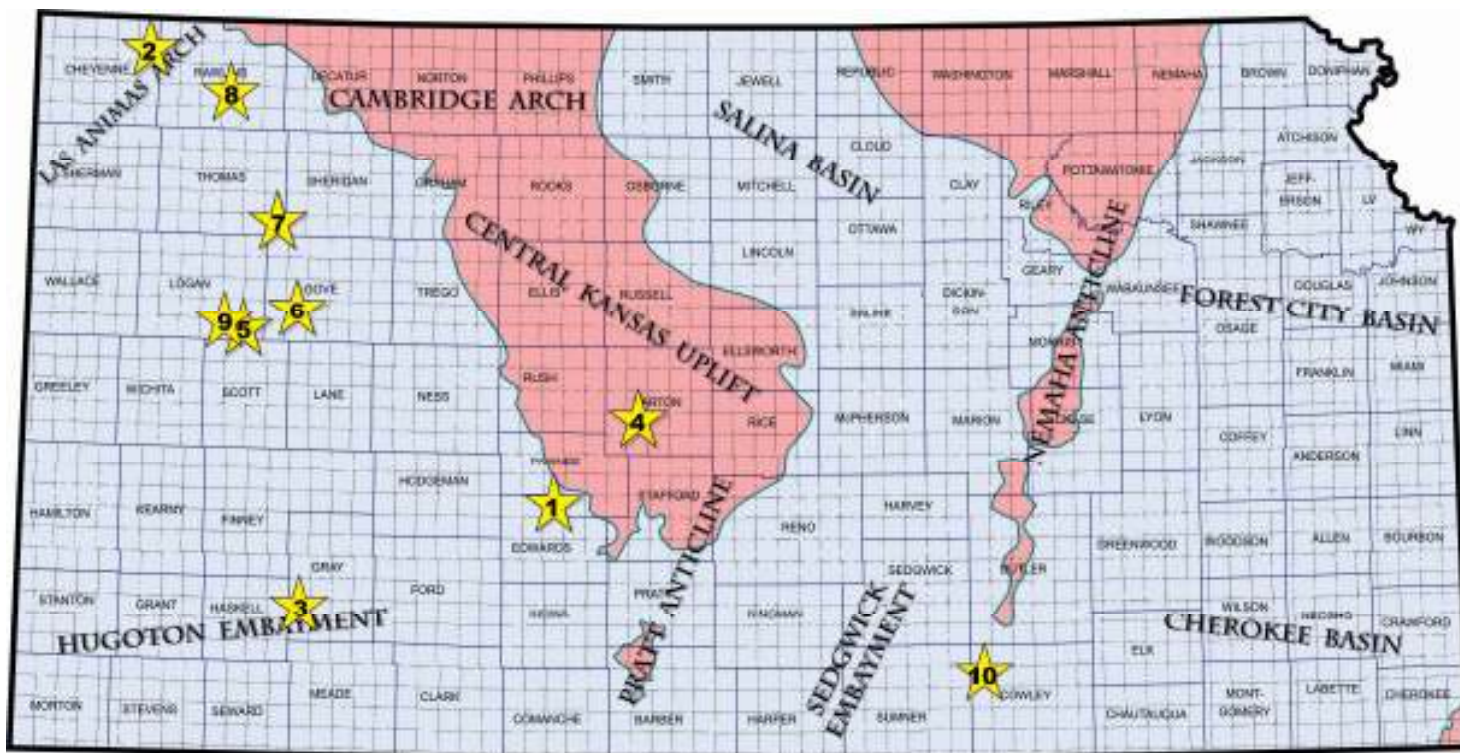
STORES:

Chanute, KS	620-431-6500	Ness City, KS	800-589-5733
El Dorado, KS	316-321-9323	Osawatomie, KS	913-755-2297
Garden City, KS	877-976-1700	Spivey, KS	620-532-5261
Hays, KS	785-650-0199	Trenton, NE	308-344-5426
Hugoton, KS	620-428-6604	Brighton, CO	303-659-4934

SALES OFFICE:
Wichita, KS 800-777-7672

Exploration Highlights

By John H. Morrison, III
Independent Oil & Gas



1-Downing–Nelson Oil Company, Inc., Hays (KS), has discovered new Conglomerate Sand and Mississippian oil reserves with the completion of the #1-20 Leta Faye for 16 barrels of oil per day, no water. The wildcat pool opener is located in the NE/4 of section 20- T23s- R18W, about two miles south and four miles west of the town of Garfield in Pawnee County. The well found productive zones in the Mississippian from 4,428 to 4,432 ft, and in the Conglomerate Sand from 4,386 to 4,389 ft. Total depth of the well is 4,880 ft. Discovery site lies over one mile south of the Badger Hill East Field (estbl: 1988, Cherokee oil/gas). The new oil field has been named Badger Hill Southeast.

2-Independent oil producer L. D. Drilling, Inc., Great Bend (KS), has discovered new Lansing – Kansas City oil reserves at the #1-7 Casey in Cheyenne County. Spotted in the SW/4 of section 7- T2s- R37W, the wildcat well is producing 80 barrels of oil per day from perforations between 4,208 to 4,424 ft. Rotary total depth is 4,951 ft. The new Sawyer Canyon field lies over two miles from established production in the Ken Field (estbl: 1959, Cherokee oil). Production commenced on June 17th at site located about nine miles north of Bird City, Kansas.

3-Falcon Exploration, Inc., Wichita (KS), is producing oil from the Marmaton formation at the #1-19 (SW) Steve Tucker, spotted in the SW/4 of section 19- T28s- R30W, in Gray County. The wildcat well was drilled to a total depth of 5,550 ft into the Mississippian formation. Production comes from the Morrow formation. The well establishes the new Long Knife North oil field, about four miles north and one mile west of Copeland, Kansas.

4-F.G. Holl Company LLC, Wichita (KS), is producing an undisclosed amount of crude oil at the #1-12 G.B.F. The Barton County wildcat well discovered Lansing - Kansas City oil production about two miles south and one mile west of Great Bend, Kansas. The new discovery was made in the NW/4 of section 12- T19s- R14W, or nearly one mile south of existing production in the Weber Field (estbl: 1962, LKC oil). Operator hired Duke Drilling tools to drill the well to a total depth of 3,700 ft. The new oil field has been named Weber South.

5-Black Tea Oil LLC, Hays (KS), has opened a new Marmaton oil field in Logan County. The #1 Fairleigh E, spotted in the NE/4 of section 18- T15s- R32W, has discovered new Marmaton oil reserves about eleven miles south and fourteen miles east of Russell Springs, Kansas. The well was drilled to a total depth of 4,630 ft. Operator has successfully confirmed the new find with the completion of #1 Fairleigh F, which was drilled about five-hundred feet to the south in the SE/4. The new oil field was given the name Butte Creek Southwest.

6-Palomino Petroleum, Inc., Newton (KS), is producing 111 barrels of oil and 6 barrels of water per day at the #1 Brownie, spotted in approximately the SW NE SE of section 7 - T 14s- R 30W, in Gove County. The wildcat pool discovery well is producing crude from the Lansing – Kansas City I and Cherokee (Johnson Zone) limestone formations. Production depths are from 4,058 to 4,063 ft and 4,418 to 4,422 ft respectively. WW Drilling tools were used to drill the well to a total depth of 4,648 ft. Sean P. Deenihan was wellsite geologist. The new Brownie oil field lies nearly two miles northwest of the Butterfield – Overland Northeast Field (estbl: 1999, LKC, Marmaton oil), and is seven miles south and ten miles west of the town of Gove, Kansas.

7-Becker Oil Corporation, Ponca City (OK), has discovered new oil reserves in the Cherokee Sand formation at the #1 Ladenburger, located in approximately the NE NW SW of section 36- T 10s- R 31W, in Thomas County. The new pool discovery found oil deposits nearly one mile north of the Campus Siding Field (estbl: 1972, LKC oil) and lies several miles from other Cherokee production in the area. WW Drilling tools bottomed the well at a total depth of 4,585 ft. Well site is about six miles east of Oakley, Kansas. The field has been named Campus Siding North.

8-Murfin Drilling Company, Inc., Wichita (KS), has a dual-pay oil discovery in Rawlins County. The #1-27 Franklin 'A' , spotted in the C S/2 SW of section 27- T 4s- R 33W, is producing crude from the Lansing – Kansas City and Marmaton (lower Pawnee) formations. The new Simon Says pool discovery located the oil deposits over two miles southwest of the Waterman Field (estbl: 1958, LKC, Marmaton oil). Company rotary tools drilled the well to a total depth of 4,668 ft. Stephen J. Miller was on site as geologist. Field area is located about nine miles south and one mile east of Atwood, Kansas.

9-Black Tea Oil, LLC, Hays (KS), has reported a new Morrow oil discovery in Logan County. The #1 Fairleigh 'H' opens the Little Pyramids Southeast oil field in approximately the NE SW NE of section 19- T 15s- R 32W, about eleven miles south and fourteen miles east of the town of Russell Springs, Kansas. The well was drilled to the Mississippian at a total depth of 4,543 ft. Kevin James Bailey served as wellsite geologist. The Fairleigh 'H' well found oil deposits nearly one mile south of another recent Black Tea discovery, #1 Fairleigh 'E', in the NE/4 of section 18, which established the Butte Creek Southwest Field (Marmaton, Morrow oil) last month.

10-Knighton Oil Company, Inc., Wichita (KS), has discovered Arbuckle oil reserves in Cowley County at the #2 Barnett, spotted in about the NE NW SW of section 2- T 31s- R 3E. The new Smith Northeast pool opener found deposits nearly one mile northeast of production in the Smith Field (estbl: 1958, Cherokee oil), or two miles east of Udall, Kansas. Total depth was obtained at 3,353 ft. Fossil Drilling served as contractor.

(From the Treasurer: Continued from page 11)

- 4) "Audits" are used primarily in the following circumstances:
- a. Corporation on the selling block requiring verification of assets/liabilities
 - b. Corporations taking on significant loans
 - c. Non-profits using large amounts of grant funding

KGS is not in a situation that would require such intensive analysis.

- 5) The wording will be such that a full audit could be conducted if deemed appropriate for a specific need in the future.
- 6) In practice, an audit is no more effective than a compilation for vetting out any fraudulent practices.

In Closing:

I would like to emphasize that this has not been firmly decided by the Board at this time, and if we do move forward with a recommendation for new wording, it must go before the membership for a vote. Our accounting firm has called this to our attention and has made the suggestion of utilizing alternative methods, such as a compilation, for reviewing our financial statements. This is not an attempt to cut corners or skirt financial accountability, but rather to control costs and provide accounting protocols that will be more congruent with the needs of the KGS.

Sincerely,
Leah A. Kasten
Treasurer



Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Est.	KGS Member	Date Deceased	Memorial Est.
Dan Bowles	09/89	1990	Claud Sheats	02/02	2002
John Brewer	10/89	1990	Merle Britting	2002	2002
George Bruce	08/89	1990	Harold Trapp	11/02	2002
Robert Gebhart	01/90	1990	Donald M. Brown	11/02	2003
Ray Anderson, Jr.	11/90	1990	Elwyn Nagel	03/03	2003
Harold McNeil	03/91	1991	Robert Noll	09/03	2003
Millard W. Smith	08/91	1991	Benny Singleton	09/03	2003
Clinton Engstrand	09/91	1991	Jay Dirks	2003	2003
M.F. "Ted" Bear	10/91	1991	J. Mark Richardson	02/04	2004
James & Kathryn Gould	11/91	1991	John "Jack" Barwick	02/01	2004
E. Gail Carpenter	06/91	1993	Richard Roby	03/04	2004
Benton Brooks	09/92	1992	Ruth Bell Steinberg	2004	2004
Robert C. Armstrong	01/93	1993	Gordon Keen	03/04	2004
Nancy Lorenz	02/93	1993	Lloyd Tarrant	05/04	2004
Norman R. Stewart	07/93	1993	Robert J. "Rob" Dietterich	08/96	2004
Robert W. Watchous	12/93	1993	Mervyn Mace	12/04	2004
J. George Klein	07/94	1994	Donald Hoy Smith	04/05	2005
Harold C.J. Terhune	01/95	1995	Richard M. Foley	06/05	2005
Carl Todd	01/95	1995	Wayne Brinegar	06/05	2005
Don R. Pate	03/95	1995	Charles B. Moore	09/96	2005
R. James Gear	05/95	1995	Jack Heathman	05/06	2006
Vernon Hess	06/95	1995	Charles Kaiser	09/06	2006
E. K. Edmiston	06/95	1995	Rod Sweetman	08/06	2006
Jack Rine	07/95	1995	Karl Becker	10/06	2006
Lee Cornell	08/95	1995	Frank Hamlin	10/06	2006
John Graves	10/95	1995	Marvin Douglas	12/06	2006
Wilson Rains	10/95	1995	Robert W. Hammond	04/07	2007
Heber Beardmore, Jr.	09/96	1996	Eldon Frazey	04/07	2007
Elmer "Lucky" Opfer	12/96	1996	Pete Amstutz	05/07	2007
Raymond M. Goodin	01/97	1997	Charles Spradlin	05/07	2007
Donald F. Moore	10/92	1997	Donald R. "Bob" Douglass	09/07	2007
Gerald J. Kathol	03/97	1997	Vincent Hiebsch	11/07	2007
James D. Davies	08/88	1997	Glen C. Thrasher	03/08	2008
R. Kenneth Smith	04/97	1997	Peg Walters	06/08	2008
Robert L. Dilts	05/97	1997	Theodore "Ted" Sandberg	07/08	2008
Delmer L. Powers	06/72	1997	James Ralstin	11/08	2008
Gene Falkowski	11/97	1997	Earl Brandt	04/09	2009
Arthur (Bill) Jacques	01/98	1998	Walter DeLozier	05/09	2009
Bus Woods	01/98	1998	Don D. Strong	01/10	2010
Frank M. Brooks	03/98	1998	John Stone	02/10	2010
Robert F. Walters	04/98	1998	Craig Caulk	03/10	2010
Stephen Powell	04/98	1998	Joseph E. Moreland, Jr.	03/10	2010
Deane Jirrels	05/98	1998	Gene Garmon	03/10	2010
William G. Iversen	07/98	1998	James F. Dilts	05/10	2010
Ann E. Watchous	08/98	1998	Jerry Pike	05/10	2010
W.R. "Bill" Murfin	09/98	1998	Donald Hollar	06/10	2010
Donald L. Hellar	11/98	1998	Delbert Costa	08/10	2010
Joseph E. Rakaskas	01/99	1999	John Tanner	08/10	2010
Charles W. Steincamp	02/99	1999	William (Bill) Owen	09/10	2010
Robert and Betty Glover	10/96	1998	Harold (Hal) Brown	10/10	2010
Howard E. Schwerdtfeger	11/98	1999	Edmund G. Lorenz	11/10	2010
W. W. "Brick" Wakefield	03/99	1999	Thomas E. Black	05/11	2011
V. Richard Hoover	01/00	2000	Wayne E. Walcher	07/11	2011
Warren E. Tomlinson	01/00	2000	Henry F. Filson	07/11	2011
James A. Morris	01/00	2000	Thomas Ray	07/11	2011
Eric H. Jager	03/00	2000	Edgar E. Smith	09/11	2012
Kenneth W. Johnson	03/00	2000	Marilyn Messenger	06/13	2013
Dean C. Schaake	03/00	2000	Micheal Mitchell	09/13	2013
Fred S. Lillibridge	05/00	2000	Orvie Howell	11/13	2013
Jerry A. Langrehr	07/00	2000	James Thompson	11/13	2013
Clark A. Roach	07/00	2000	Dick Rowland	09/13	2014
Floyd W. "Bud" Mallonee	10/00	2000	Robbie Thompson	12/13	2014
Ralph W. Ruuwe	09/00	2000	Kris Kennedy	04/14	2015
Robert L. Slamal	02/01	2001	Annette Hedke	02/15	2015
Jerold E. Jespersen	06/01	2001	James Devlin	04/15	2015
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			



All Around You

Weatherford has always been driven by your needs.

Now, with the addition of Precision Energy Services we're continuing to build a world of skills, services and technologies that revolve – and evolve – around you.

The result?

An expanded global network of 25,000 people, 730 service bases and 87 manufacturing facilities in 100 countries.

This increased local knowledge and service is there to support you anywhere, anytime. From midday in the Middle East to midnight in the middle of nowhere.

And with greatly strengthened capabilities in the critical evaluation skills of directional drilling and wireline logging, we can do even more to improve the profitability and productivity of your wells.

To see how our sphere of services can work for you, visit www.weatherford.com or contact either your Weatherford or former Precision Energy Services representative.

Drilling | Evaluation | Completion | Production | Intervention

© 2005 Weatherford International Ltd. All rights reserved. Incorporates proprietary and patented Weatherford technology.

CHANGE SERVICE REQUESTED

KGS BULLETIN
 September—October 2015

September 2015

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

October 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2 KGS Clay Shoot	3
4 Mid-Continent Section Meeting AAPG—Tulsa, OK	5	6	7	8	9	10
11	12	13 KGS Board	14 KGF Board	15	16	17
18	19	20 Tech Talk	21	22	23	24
25	26	27	28	29	30	31