IN THIS ISSUE

Honorary Member Profile: Richard S. Jordan

Member Profile: Louis Ford

Memorial: James Ralstin

KGS Board of Directors 2009
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Introducing LASSO

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With LASSO, look in TGS’ program rates on digital LAS well data from our US collection, growing at an unprecedented pace to more than 500,000 wells over the next several months. LASSO strengthens your exploration projects with the higher-order capabilities of increased digital well log use. LASSO digital data from TGS, the industry’s well log data leader, is quality controlled and available online for immediate downloads.

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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 Technical Editor Dr. Sal Mazzullo at salvatore.mazzullo@wichita.edu, whose mailing address is Department of Geology, Wichita State University, Wichita, Kansas 67260. 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.

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ON THE COVER:

This photo was taken by Tim Pierce on a summer trip to Alaska a few years ago. A nice shot of the glacier moving along its course, displacing and carrying rock particles to new locations down stream.

CALL FOR PAPERS

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SPRING 2009

January 6—TBA

January 20—Jim Puckett, Oklahoma State—TBA

January 27—Tony Walton Class—KU— “Field Studies”

February 3—Larry Richardson’s WSU Class— “Pool Studies”

February 17—Ashley Kerschner, KS Geological Survey— “Preserving Oil & Gas Well Samples”

February 24—H & R Block— “Oil & Gas Taxation”

March 3—Matt Brueseke, Kansas State University— “Volcanology”

March 24—Brian Wilhite— TBA

Location for Technical Meetings

All KGS technical presentations are held at 12:30 p.m. at the Wichita Bar Association, located at 225 N. Market, ground floor conference room, unless otherwise noted.

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.
CAN YOU NAME THE CRITTER?

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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 that you see him.

Frank Mize guessed the last two! Come on you guys, give Frank some competition!!

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

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Call for Papers & Posters

AAPG MID-CENTINENT SECTION MEETING
TULSA MARRIOTT SOUTHERN HILLS
OCTOBER 11-15, 2009
www.2009aapgmidcon.com

Now in the 21st Century both we and future generations must develop every available energy resource at our disposal. The AAPG is welcoming an entirely new generation of geoscientists into our ranks and it is our responsibility as a professional organization to provide the intellectual resources to these new hires (and old hands alike) so that they can develop the new energy resources for generations yet to come.

Abstracts may be submitted for either oral or poster presentations on any of the following topics, in keeping with the Meeting’s theme, “Resources for the Generations”:

- The Woodford Formation.
- Applications for 3-D Seismic: Structure Stratigraphy & Fracture ID.
- Reservoir Stimulation: Design, Costs & Results.
- Horizontal Plays in the Mid-Continent: Geologic Opportunities, Drilling & Completion Techniques.
- New Oil & Gas Ventures: Buy, Drill & Sell
- Mid-Continent Petroleum Systems.
- Unconventional Technology in Mature Fields.
- Shale & Coalbed Reservoirs in the Mid-Continent.

Submit ONLINE for poster, oral or either at:
www.2009aapgmidcon.com

Deadline for abstract submittal is February 1, 2009. Abstracts are limited to 250 words.

Presented by the Tulsa Geological Society
Greetings and Happy New Year!

My thanks to Ernie Morrison for his steady hand on the helm as President of the Kansas Geological Society in 2008. His thoughtful leadership of the Society was precisely what the Society needed. Thanks to Rebecca Radford and staff for working hard on the Library, WDL, and society activities throughout the year. Thank you Bob Cowdery for untiring efforts in Continuing Education and your willingness to continue this year.

The board will continue in a deliberate course to finally establish a new Walter’s Digital Library where the legacy data are accessible and new information including electronic image and LAS logs are incorporated as they are released from the State. Looking long-term, we envision new business opportunities to better serve you and keep the WDL and the Society viable for many years to come. An electronic type log project, agreed upon by the board last year, will be implemented using latest technology to convey stratigraphic nomenclature and the diverse geologic conditions that comprise the Kansas’ subsurface. The reference set of well data will be contributed by society members and assembled by a technical committee to aid the science and practice of subsurface geology and enable current and future activities.

This past year has been a profitable year for both the WDL and the Library in spite of the second-half economic downturn. While we all will face challenges this coming year due to the economy, I am convinced our membership, representing energy and environmental geology, will be important in the economic recovery of this region. You have weathered economic challenges in your business in the past and developed strategies that are long term. Since 2000, a long standing decline in oil production in Kansas was reversed, an indication of the potential when price, technology, and ideas meet opportunity.

I look forward to serving the membership as best as I am able. It has been my home society for the last 33 years and I have gained a lot from all of you. It’s my time to give back. I hope we all have a great new year.

Respectfully submitted,

W. Lynn Watney
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Dear Members,

As we start off this new year, we are seeing a significant slow down of activity in the business. Thus, we are seeing that slow down in the use of our library. But, like many of you, we are finding that our costs are not coming down so we had to raise the price of data here at the library. The price increase will be in effect starting January 1, 2009. I wish we didn’t need to raise the prices but we have to keep this library viable so please try not to complain too loudly about the increase!

Please mark your calendars for the KGS Annual Banquet which will be held Friday, January 23, 2009 at the Petroleum Club. This year the Society will be honoring Richard “Dick” Jordan as honorary member and we will also be recognizing 9 of our members who have reached the 50 years of membership status. Those individuals are: Don Beauchamp, William K. Clark, Warren O. Johnson, Donald J. Malone, John Roger McCoy, Walter Innes Phillips, Arden D. Ratzlaff, Glenn N. Rupe, and Richard D. Smith. Please plan to attend and help to honor these gentlemen.

Congratulations to our new 2009 Board of Directors who are featured on page 14 of this Bulletin. I look forward to working with Lynn Watney and the rest of the board as we move forward on many projects.

If things stay slow, and you find yourself with nothing to do……offer to volunteer. We have boxes of data that we are trying to get scanned and filed and yet, we really don’t have the funds to increase our staff so if you are so inclined, we could use your help!

Respectfully submitted,

Rebecca Radford
The time of the year has arrived when the Kansas Geological Society bestows Honorary Membership on one of its deserving members. This year it is a very well known and active geologist.

Dick’s story commences in 1950 in Minneapolis, Minnesota. His parents have an extremely interesting background. His mother, Colette met his father, Stan during World War II when she was a French nurse assigned to the American Army serving behind the lines and then in a refuge camp where his father was a Lieutenant with the 1st Infantry supervising the same refugee camp. They were married after the war in Rosenheim, Germany. Later they returned to Minneapolis, Minnesota and to the union three sons were born all of who have dual citizenship, American and French as their mother remained a French citizen until Dick was in high school. His older brother, Bruce lives in Decorah, Iowa and his younger brother, lives in Overland park, Kansas near his parents.

Dick attended grade school in Minnetonka, Minnesota and then the family moved to Cedar Rapids, Iowa where Dick attended both Jr. High and High School, graduating in 1968. He graduated from Wichita State in 1973 with a degree in Geology. Some of his classmates at WSU were: Tyler Sanders, Bill Jackson, Rene Stucky, Randy Wilson, Chuck Immich, and Bo Darrah. Also in 1971 he met a nursing student, Christie Wood of Prairie Village and they were married in August of 1973. They have two children: Heather Tignor who lives in Chicago with her husband Brent and daughter, Audrey; and Dr. Matthew Jordan, a 2nd year Internal Medicine resident at the University of Iowa and is married to Jennifer. Jennifer and Matthew have a daughter, Lindsay.

Dick’s professional career commenced with his employment in January 1974 by Cities Service Oil Co. In October 1975 he joined Raymond Oil and then in 1978 he joined Vincent Oil where he is currently employed. Dick believes he owes a great deal to three men who provided employment: Eldon Frazey at Cities Service, Mike Raymond at Raymond Oil and Vince Hiebsch at Vincent Oil. Looking back on his professional career, he cherishes relationships he had with many fellow geologists at CSO; Eldon Frazey, Bill Jacques, Herb Johnson, Jerry Honas and John Rose, at Raymond Oil: Mike Raymond, Tim Hellman and Bob O’Dell; at Vincent: Wayne Walcher, Deane Jirrels, Jene Darmstetter, Larry Friend, Paul Hagemeier, John Hastings, Maurice Korphage, and Mark Newman. Among this group, the two geologists who were most influential in his career were Mike Raymond and Jene Darmstetter.

He is a member of the AAPG, KGS, and KGF, but particularly in the KGS where he has served over the years in many capacities commencing in 1987 as KGS Library Committee, Chairman, then in 1988 as KGS Future Plans Committee, Chairman, 1988-89 KGS Manager Search Committee Chairman, 1990 KGS Annual Banquet Chairman, 1993 KGS Director.

Dick was co-founder of the Kansas Geological Foundation in 1989 with Jene Darmstetter and Fred James and that year served as its first President. He has been a Director of the Foundation in 1993, 1994, 1995, 2004, 2005, and 2006. In May 2000 he joined with Jon Callen to utilize the Kansas Geological Foundation to raise funds to assist in digitizing electric logs in the Society Library and then in June of 2000 help solicit lead sponsorship and naming rights for the Robert Walters Online Library from the Walters family and also the digitizing of that Library. Then raised $600,000 from KGS members and industry and secured a $296,000 grant from the Department of Energy to complete the project in May 2004.

He also served the Society and the AAPG by serving in
Honorary Member Continued

1991 as Publicity Chairman for the Mid-Continent Section Meeting of the AAPG.

He has enjoyed his profession and career from the very beginning as his early undergraduate courses in geology permitted him to work outside. He absolutely would followed the same path, if he had it to do over as it allowed him the opportunity to daydream of finding buried treasure while working within the Kansas Oil Industry which he found was filled with great people. He would suggest to the young geologist just entering the field that he learn the “art of finding oil and gas” as well as absorbing the science and technology.

One amusing experience that he recalls in his career was when he was showing a Vincent Oil prospect to Bob Cowdery who was working for Petroleum, Inc. and Bob fell asleep during the presentation.

Dick has other activities outside his profession, particularly in his service to Country Acres Baptist where he is an elder and adult Sunday school teacher. Recreationally he enjoys golf, hunting and he also follows WSU athletic activities.

With a lot of his career ahead of him, Dick has the ambition and desire to find an oil/gas field in another state.

This has been a short and perhaps inadequate description of the career of the Kansas Geological Society’s newest Honorary Member.

Kansas Geological Society’s Annual Banquet

Friday, January 23, 2009

Petroleum Club
9th Floor—Bank of America Building
Broadway & Douglas

Social Hour:  5:30 PM
Dinner:  7:00 PM
Tickets:  $30.00 / person

Tickets may be purchased from
Bill Shepherd 263-5495
   Or
KGS Library 265-8676

Please Make Your Reservations!
Louis was employed by Texaco from 1955 until 1968, at the following locations: Salem, Illinois 1955-1959; Wichita, Kansas 1959-1961; Tulsa, Oklahoma 1961-63, Wichita, Kansas 1963-1966; and Oklahoma City, Oklahoma 1966-68. In 1968 he joined Walter Duncan Oil Co. and remained there until 1984 when he started his own company, Ford Exploration. Some former KGS members that he worked with while at these companies were: Jack Busby, Truman Logdon, Harry Stevens, Charles Williams, Gordon Smale, Joe Tolle, Dick Renard, Jim Allison and Lynn Wooley.

In March 1957, he married Gayle Carlene Wolff in Salem, Illinois, and they have three children: Melissa Ford, who is CEO of Vetrax Electronics in San Diego, California; Penny Ford Adams, Interior and Commercial Designer in Sierra Madre, California; and Wendy Ford Mackey who resides in Austin, Texas.

Louis’s answer to what was the most challenging well was “I’ve not had a challenging well – I do pretty good and don’t have too many dry holes.” His advice to a young geologist entering the field is “learn everything you can.” From his professional record as a member of the AAPG, SEG, SIPES and OCGS it is evident that he has followed his own advice. One thing he is certain about is whether he would be a Petroleum Geologist if he had it to do over with his answer of “definitely.”

Over the years, his off-the-job activities have included: membership in the Westminster Presbyterian Church, hunting, fishing, tennis, and exercise. Although he loves going to his office, he would like to find more time for fishing, hunting, and golf. As to goals, he is nearing 80 years old and would like to reach that milestone.
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Memorial  

James Ralstin

Jim Ralstin was a man that truly would have been in the “League of Extraordinary Gentlemen”, if it existed outside of the movies and TV. He was a geologist, pilot, polo player, Shrine Potentate, rancher, landman, hunter, and had been a POW during World War II. With his passing on November 14th, after a life that spanned 88 years, the profession lost one of its most outstanding members.

Jim’s father was a Dentist in Wichita, but Jim was raised on a farm about four miles west of Wichita.

He rode a horse to grade one thru eight to a one-room school near what is now Mid-Continent Airport. He graduated from North High School and while attending, lettered in football and track.

In his early childhood he visited wellsites with his father, particularly those near Valley Center and in doing so developed and interest in geology, thus when he entered Wichita University, he enrolled in geology. During this period, he supported himself by working as a roughneck and tool dresser for McPherson Drilling Company.

He received his degree from Wichita University and one day later was inducted into the Army. After completion of training at Ft. Benning, Georgia, he received a commission as a 2nd Lieutenant. He shipped overseas to Naples, Italy where he joined the 3rd Ranger Battalion. The 3rd Rangers made a landing at Anzio and spearheaded the assault of the beachhead at Cisterna.

During this assault, the division was virtually wiped out and Jim was captured by the Germans. Jim was sent to Oflag #6 in Poland where he spent a year. He escaped and after three months in Poland and Russia avoiding re-capture, he made his way home prior to the end of the European war.

In 1946, Jim went to work for Franco Central and stayed with that company until 1950 when he joined D. R. Lauck. Jim then entered the consulting field in 1953 and remained a consultant for the rest of his career although at various times he joined other geologists and “oilmen” in partnerships and other arrangements.

Jim and Dean Jirrels formed a partnership that lasted four years and during this period they were some of the busiest “wellsitters” in town. At a later date, Jim joined Jack Heathman to form Hydrocarbon Survey Inc., a company that located areas for potential gas storage areas by use of core drill in Iowa, Indiana, and Illinois.

Jim was involved in several significant discoveries including Airbase and East Airbase Fields near Hays. His association with Willis Hartman introduced him to the sport of polo and he pursued that sport for 30 years. In his Masonic activities, he reached the pinnacle with his elevation to Potentate in 1986.

Jim became owner of a working ranch in Kingman County that at one point in time supported 1400 to 1500 head of cattle.

Jim is survived by his wife Anna, son, Dr. James Ralstin, daughter Terry Ralstin-Hamlin, step-daughters; Valerie Marsters and Barbara Canevari; stepson Bill Bloss and brother Robert Ralstin. Also six grandchildren and three step-grandchildren.

The family has established memorials in his name with Plymouth Congregational Church, American Cancer Society and Midian Shrine Plane of Mercy.
Ten Lessons from Bill Barrett’s School of Hard Knocks

LESSON #1 – MAXIMIZE LIFE’S EXPERIENCES/NEVER STOP LEARNING
I believe it might have been Einstein who said experience is more important than knowledge. PUT YOUR LIFE’S EXPERIENCES TO WORK. - Maintain a thirst for knowledge and work will become a labor of love.

LESSON #2 – ANTICIPATE AND EMBRACE CHANGE
There is nothing permanent except change. The 21st century has witnessed explosive growth in new knowledge and technological innovation. UTILIZE TECHNOLOGY
IF NECESSITY IS THE MOTHER OF INVENTION, THEN TECHNOLOGY MIGHT BE THE FATHER.
Nothing has hastened the development of Rockies and U.S. unconventional resources more quickly than technology. UNDERSTAND IT, EMBRACE IT, DEVELOPE IT.

LESSON #3 – EARLY ON IN THE EXPLORATION BUSINESS I LEARNED THAT “EXPOSURE IS THE NAME OF THE GAME”
The late Marvin Davis stated: “Those who drill the most wells find the most oil and gas”. He was right. Improve your odds making certain you drill high quality prospects.

LESSON #4 – IF YOU DON’T TAKE A SWING AT THE BIG RESERVES YOU ARE NEVER GOING TO HIT IT BIG. It is a proven formula that has worked in four previous successful companies I have been associated with, leading to the discovery of 8 giant or near giant size fields.
- As I like to say “HITTING SINGLES IS FOR GUYS NAMED PEEWEE, GUYS NAMED BABE SWING FOR THE FENCES.”....."CALL ME BABE, I GO FOR THE FENCES"
- REMEMBER, it only takes one of these large exploration projects to have a major, major impact on a company or individual. That is why they are called “COMPANY MAKER PROJECTS”.

LESSON #5 – ACQUIRE AND MAINTAIN A DOMINANT OIL AND GAS LEASE POSITION IN HIGH POTENTIAL AREAS. Land is truly the basis of wealth in the oil and gas industry. Without it you have nothing.
- make certain you have a controlling lease position prior to drilling.
- BE A LEADER NOT A FOLLOWER. Get in the play early, before the cost goes up.

LESSON #6 – IT IS STILL ABOUT THE CREATIVITY AND MOTIVATION OF TALENTED PEOPLE, despite our reliance on the science of geology, geophysics, engineering, land and technology as the foundation of our industry. It is about “getting the light to come on.” It’s about THINKING OUTSIDE THE BOX.” Keeping and open mind for new ideas and new ways to do things.
- Any success I have had is directly due to the TALENTED PEOPLE I have been fortunate enough to work with.
- These talented people are Doer’s, Be a DOER. As Henry Ford once said "you can't build a reputation on what you are going to do" You must do it.

LESSON #7 – THE HARDER YOU WORK THE LUCKIER YOU GET. Remember it’s the work and not the clock that tells you when it’s quit’ in time.

IF YOU WANT TO IMPROVE YOUR LUCK DO THE FOLLOWING:
♦ PREPARE RELENTLESSLY. "If you are going to itch to have something, you better be ready to scratch for it".
♦ REMEMBER DETAILS MAKE THE DIFFERENCE. A lot of conventional thinkers overlook details that might lead to an unconventional or previously unrecognized discovery.
♦ HAVE PATIENCE but be PERSISTANT.
♦ BE ACCOUNTABLE all of the time.
♦ FOCUS, FOCUS, FOCUS, ON YOUR AREA OF EXPERTISE. Grass is not always greener on the other side of the street. Don’t spread yourself too thin.
♦ LISTEN TO YOUR GUT…Again, in our field science, technology and numbers are kings, but TRUST YOUR INSTINCTS, which are formed from your past experiences…believe in your ideas…your gut.
♦ BE YOU’RE OWN MAN, believe in your ideas, pound the table for what you believe.
LESSON #8 – UNDERSTAND THE BUSINESS ASPECTS OF E&P – Take a long term view, maintain a conservative fiscal posture, preserve financial flexibility.
- Understand all facets of risk.
- Make certain you have enough insurance.
- Understand oil and gas price hedging strategy.
- Make safety a priority in all facets of your business.
- Don’t burn any bridges. You might find a need to cross them in the future. It is a small world.

TO SUM IT ALL UP DO AS THE LATE CORT DIETLER SAID, “YOU WILL NEVER GO BROKE MAKING A PROFIT. DO WHAT YOU SAY, PAY YOUR BILLS AND HONOR YOUR FRIENDS”

LESSON #9 – CHALLENGE ONEROUS, UNNECESSARY REGULATORY AND ENVIRONMENTAL REGULATIONS AND ROAD BLOCKS. Become involved in the political process, fight for what is fair and right. “If you don’t do politics, someone is going to do politics for you.” This election is the most important, from a public policy perspective, in decades. People are finally talking about energy, and it is up to us to help them understand it. YOU, WE, ALL NEED TO GET INVOLVED.

LESSON #10 – BE A VIP – STRIVE FOR VISION, INTEGRITY AND PERFORMANCE AS VALUES FOR YOURSELF AND YOUR COMPANY.
Speaking of integrity, I’ve found that your reputation is more important than your reserves on the books, and more delicate. Develop a strong personal code of ethical behavior and practice it in every aspect of your lives. As the French novelist and playwright Victor Hugo puts it, “Change your opinions, keep your principles; change your leaves, keep intact your roots”.

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KGJ ENTERPRISES  
Contract Oil & Gas Accounting & Office Management  
Kathryn G. James, MBA  
4278 SW 100th ST.  
Augusta, KS 67010   (316) 775-0954   (316) 250-5989   kgjames@comcast.com  

ROBERT J. GUTRUD  
Geologist  
300 Farmers & Bankers Bldg.  
200 East First Street  
Wichita, Kansas 67202  
Off: (316) 265-3402  

MELLAND ENGINEERING  
Petroleum Engineering & Geological Consulting  
James E. Melland, P.E.  
Owner  
Office: (620) 241-4621   Fax: (620) 241-2621   Cell Phone: (661) 319-5950   Email: jemelland@sbcglobal.net   Jamesm@mellandengineering.com  
P.O. Box 841, McPherson, KS 67460  

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

KEVIN L. KESSLER  
INDEPENDENT/CONSULTING PETROLEUM GEOLOGIST  
WELLSITE/CONSULTING • GEOLOGIC RESEARCH  
OIL & GAS PROSPECTS  
KANSAS & EASTERN COLORADO  
Mailing Address  
Phone: (316) 522-7338  
Belle Plaine, KS 67013  
Mobile: (316) 706-6638  
Email: kkessler1198@aol.com  

LANG J. FUQUA  
Certified Petroleum Geologist  
4201 Tanglewood Ln.  
Frisco, Texas 75035  

ROBERT J. GUTRUD  
Geologist  
300 Farmers & Bankers Bldg.  
200 East First Street  
Wichita, Kansas 67202  
Off: (316) 265-3402  

MELLAND ENGINEERING  
Petroleum Engineering & Geological Consulting  
James E. Melland, P.E.  
Owner  
Office: (620) 241-4621   Fax: (620) 241-2621   Cell Phone: (661) 319-5950   Email: jemelland@sbcglobal.net   Jamesm@mellandengineering.com  
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Red Oak Energy, Inc., of Wichita, KS., has opened a new oil field in Ness County with the successful completion of the Lamer Trust #1-20 wildcat prospect. The new unnamed field discovery is currently on pump making around 62 barrels of oil per day from perforations shot from 4436 to 4440 ft. The well was drilled to a rotary total depth of 4510 ft. by Southwind Drilling tools. Well site is located in approximately the C W/2 W/2 SE of section 20- T17s- R25W, about six miles southeast of the town of Utica, Kansas. Closest established production near the new find lies one mile west in the Lazy 17 field (Mississippian oil) which was opened by Pickrell Drilling Company in 1989.

Presco Western, LLC has discovered Mississippian Saint Louis oil and gas reserves at the #4-L (8-30-38) Johnson, spotted in the SW/4 of section 8- T30s- R38W in Grant County. The well was drilled to a total depth of 5810 ft. Production depth and well potential has not been disclosed. The new unnamed field is located over one and one-half miles northeast of the Nich field, about twelve miles southwest of Ulysses, Kansas.

In Trego county, independent operator Downing-Nelson Oil Company has established new Lansing-Kansas City and Arbuckle oil production with the completion of the #1-1 Ray Kroeger. Well site is located in the SW/4 of section 1- T14s- R21W, about five and one-half miles southwest of the city of Ellis. Operator bottomed the well at a total depth of 4080 ft. and perforated the LKC ‘A’, ‘C’ and ‘E’ zones between 3600 to 3602, 3626 to 3632 and 3662 to 3668 ft, and Arbuckle from 3988 to 3991 ft. The well was completed for 8 barrels of oil per day. Site lies nearly three-quarters mile southwest of the Kroeger South field.

A new Mississippian oil field has been discovered in Ness county by American Warrior, Inc. The new unnamed field is located in the SW/4 of section 1- T19s- R22W, almost one-half mile south of the city of Bazine. Petromark Drilling was contracted to drill the #2-1 Kuehn to a total depth of 4301 ft. New reserves were found over one and one-quarter miles west of the Dewald North field - another Mississippian oil producer. Daily potential has not been reported.

An unknown amount of natural gas is being produced by Chieftain Oil Company at their Mott #1 in Barber county. Located in the NE/4 of section 8- T35s- R11W, the new discovery found pay in the Mississippian formation, almost one and one-half miles east of the multipay Stranathan field. The well was drilled to a total depth of 5454 ft. The new field has not been named. Field area is located a little over two miles west of Kiowa, Kansas.

Presco Western, LLC has completed it’s #4-J (29-32-39) Green as a Morrow oil and gas producer in the SE/4 of section 29- T32s- R39W, Morton county. Operator discovered new deposits over one and one-quarter miles southeast of the multipay...
Kinsler field, nearly eleven miles southeast of Richfield, Kansas. Total depth is 6301 ft. First production commenced on August 15, 2008.

(7) The Mississippian formation is flowing an undisclosed amount of natural gas at a wildcat site in western Sumner county. New discovery is Future Petroleum Co., LLC's #1 Willey, located in approximately the N/2 N/2 of section 27-T34s- R4W. The well was drilled to a total depth of 4900 ft. last May and started producing into pipeline in July. The new unnamed field lies nearly two miles southeast of the Bluff field, or six and one-half miles northwest of Caldwell, Kansas.

(8) In Edwards county, CMX, Inc. has completed the Stevens #1 for 40 barrels of oil per day, no water, plus 75,000 cubic feet of natural gas. The field stepout well is producing crude and gas from the Pleasanton formation at site located in the SESE SE of section 25- T26s- R17W. It expands production in the multipay Trousdale West field one-half mile to the west. Well site geologist Kenneth M. LeBlanc called the log top of the Pleasanton at 4369 (-2255 kb). Production comes from acid treated perforations shot from 4369 to 4374 ft. Murfin Drilling tools bottomed the well at a total depth of 4440 ft. Field area lies four miles south and two and one-half miles east of the town of Fellsburg, Kansas.

(9) Coral Production Corporation has discovered oil deposits at an exploratory site located nearly three-quarter mile west of established Lansing-Kansas City oil production in the Scanlon East field in Trego county. New discovery was made at the Hober #17-1, spotted in approximately N/2 N/2 NE of section 17- T11s- R24W, about seven miles northeast of the city of Collyer, Kansas. The well was drilled to explore for reserves in both the LKC and Arbuckle zones. Production information has not been disclosed. Discovery Drilling's Rig #3 was used to drill the well to a total depth of around 4500 ft. The new field has not been named.
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.

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Let’s recover that oil that is left behind with…

**Chemical Flooding**

Recent advances in chemical flooding technology, including new high-performance chemicals, have the potential to recover significant amounts of oil left behind after primary recovery and waterflooding processes. The Tertiary Oil Recovery Project (TORP) at The University of Kansas is conducting research and design work on applications of chemical flooding in Kansas. A grant from the US Department of Energy has boosted TORP’s efforts.

Generally more than half of the oil is left in the ground at the end of waterflooding operations due to partial sweep of the reservoir by the water and the residual oil that is left where the water has invaded. Chemical flooding has the potential to displace and produce a significant portion of that remaining oil. A slug of a chemical formulation is injected and displaced through the reservoir. The chemical formulation, which includes surfactants, solvents, polymer and/or alkali, is designed for the particular oil/brine/reservoir rock system. Surfactants in the formulation mobilize the residual oil forming an oil bank which is displaced to production wells. Concentration of polymer is selected to minimize the mixing zone between the chemical slug and the oil bank. Solvents and alkali are added to the chemical formulation to improve the performance of the surfactants. The chemical slug is displaced through the reservoir by a solution containing polymer to minimize mixing, followed by a water drive.

Chemical flooding has performed exceedingly well in the laboratory and a few field trials are underway, but the field performance results are confidential and have not been reported in the literature. A successful, well-documented field trial is key to stimulating interest by oil producers and engaging them with chemical flooding technology. It is TORP’s goal to be a partner with a producer in a field project to test the viability of the process in a Kansas reservoir and to provide field performance results to the public.

Successful field applications of chemical flooding rely on a high-quality design. Laboratory evaluation to determine an efficient chemical formulation for an oil/brine/reservoir system, and reservoir simulations to predict performance and economic evaluation of the process are key elements of the design. Kansas oil producers are not equipped for this type of design work. This is where TORP, through the DOE project, can provide a service to the industry.

The principal objective of the work conducted by TORP under the DOE grant is to supply the design work for chemical flooding processes that is necessary for oil producers to make an informed assessment for implementation of a pilot or demonstration project. TORP will (1) develop a database of Kansas oil reservoirs that will be used to screen, rate and select reservoirs for study, (2) conduct laboratory testing to design chemical formulations for specific oils/reservoirs, (3) determine field responses to chemical flooding by reservoir simulations, (4) evaluate economics of pilot/demonstration and field applications, and (5) transfer the laboratory, simulation and economic results to oil producers and the greater scientific community through technical papers and presentations.

Government funding for implementation of a demonstration project based on one or more of the designs will be pursued. This would allow an oil operator to apply chemical flooding at a much reduced risk and would also assure public access to the performance data of a field trial.

TORP is presently classifying Kansas reservoirs for their chemical flooding potential. TORP plans to partner with several lease holders in the targeted reservoirs to provide designs for chemical flooding applications. Efficient waterfloods that are near completion are prime candidates. Oil operators that are interested in evaluation of chemical flooding potential for their Kansas leases should contact Mark Ballard [785-864-4491, markt@ku.edu] or Stan McCool [785-864-2914, mccool@ku.edu] at the Tertiary Oil Recovery Project.
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### February 2009

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