



**KANSAS GEOLOGICAL SOCIETY**

# **BULLETIN**

Volume 78 Number 4

July—August 2003

## **IN THIS ISSUE...**

**9 KGS Annual Picnic**

**14 Photos: Sternberg Field Trip**

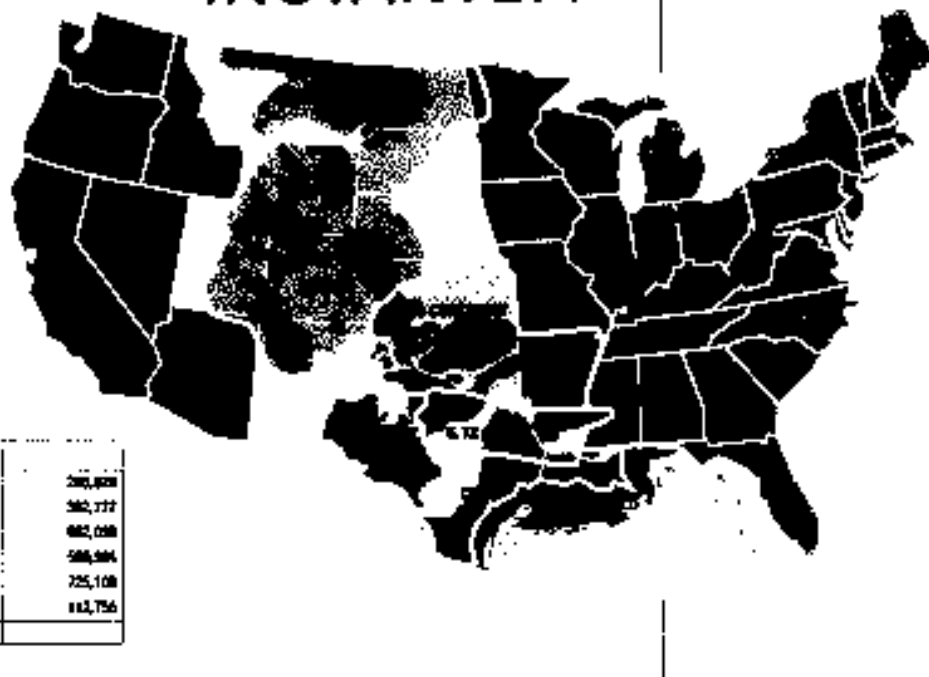
**20 Profile—Robert Busby**

## **THIS MONTH AT THE KGS**

## **NEXT MONTH AT THE KGS**

August 1st      KGS Annual Picnic

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# KANSAS GEOLOGICAL SOCIETY

# BULLETIN

Volume 78 Number 4

July / August 2003

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## ON THE COVER

An overview with photos regarding the Sternberg Field Trip is highlighted on page 14.

Page 9 contains all the information needed to have a wonderful time at the KGS Annual Picnic. See you there!

The KGS *Bulletin* is published bi-monthly by the Kansas Geological Society, with offices at 212 North Market, Wichita, Kansas 67202 Copyright @1993, 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.



# KANSAS GEOLOGICAL SOCIETY

Established 1925

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## KANSAS GEOLOGICAL SOCIETY TECHNICAL PROGRAMS

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*No Technical Meetings will be held over the summer months.*

*We will resume Technical Meetings in September*

Preliminary Schedule of Programs for the Fall of 2003

September 18  
September 25 Bob Diffendahl, Nebraska Geological Survey, "*Geology of the Lewis and Clark Expedition*"  
October 16  
October 23  
October 30  
November 6 Rick Chimbola, ARAMCO, "*Arabian Oil Fields*"  
November 13  
November 20 Marty DuBois, Kansas Geological Survey, TBA  
December 4 Rick Andrews, Oklahoma Geological Survey, TBA  
December 11  
December 18

Paul Ramondetta and James Bruggeman have agreed to give presentations.

All technical meetings are held at 12:30 p.m. in the Bank of America Auditorium  
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.

**The Bulletin is now On-Line!**

Check out the complete KGS Bulletin on our web site  
[www.kgslibrary.com](http://www.kgslibrary.com)

A simple way to help your Society save money would be to let us know if you like  
viewing the Bulletin on line. This would allow us to reduce our mailing & printing  
costs of sending the Bulletin to every member.

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## EDITOR'S PAGE

---

Dear KGS members and friends,

Summer has finally arrived with our first sustained hot weather in Kansas in late June. The unseasonably cool Spring was welcome, as several of the past few years seem to have gone from Winter to Summer in the span of a week.

In my last letter I said I was going to fish and play golf in the KGS tournaments. Graduations, weddings and work got in the way, however. It does appear that activity is up, as many of my compatriots are busy. With some good sustained activity levels, the industry can grow instead of just treading water. I encourage all of you to keep working to turn your prospects.

I catch a lot of you know what from friends, when I detail my travel plans. That being the case, Betty and I are going to Vegas July 2nd for her cousin's wedding. With all the weight that I have put on in the past several months, I hope I can come back with my shirt. Cash donations to the "Pay Off Wes's Markers Fund" will be gladly accepted.

The Annual KGS Family Picnic is scheduled for August 1st at the All Star Sports facility on west 21st Street in Wichita. Complete details are available on page 9 in this issue. Work comes first of course, but I hope that Betty and I can make it to the Picnic this year. Last year's event seems to have been well received.

Betty and I were able to share in an interesting evening of cowboy music on the evening of June 22nd. We went to an open air, bring your lawn chairs, chuck wagon supper concert starring Michael Martin Murphy. The concert was held on the 12,000 plus acre Farrell Ranch in Greenwood County, Kansas, a few miles south of

Beaumont, Kansas. The ranch is a real working cattle ranch in the lovely Flint Hills region. The Farrell Ranch is run by Pete Farrell. Pete represents the 4th generation to operate the ranch in its 115 years of continuous family ownership. There were perhaps only about 300 people in attendance. Cow attendance was estimated at about 6600. From our lawn chairs, we looked uphill to a small stage with a cow covered hill in the background. Even though the day was warm, the evening cooled down with a nice breeze. It was really nice to go to something that was out of the ordinary. The Farrell's are considering doing another event this fall. Perhaps we can get some of the membership to go on an outing like this. We could dodge cow pies and look at rocks in the afternoon and listen to music in the evening. I'll see if I can make contact with Mr. Farrell if enough of you are interested.

Have a great remainder of the summer! Hope to see you all at the picnic!

Bye for now,

Wes

---

## PRESIDENT'S LETTER

---



Dear Members,

Summer is here and drilling activity has picked up in our state. I want to get this letter out before I go to the field again. After the last two wells I have watched it is amazing to me how quickly geologic changes can occur in a short lateral distance and how that new piece of information can change your perspective or interpretation of what is going on geologically. On my way to the AAPG convention in Salt Lake City in May, I drove through Southern Utah and was able to see evidence of geologic events – folds, faults, anticlines, and erosional processes that I normally only perceive happening in the subsurface of Kansas. It was a nice refresher course in geologic processes, and I tried to envision what each circumstance would look like in the subsurface if I only had electric log information to interpret.

At the convention I met a lot of new people with vastly differing backgrounds and geologic experiences. The wealth of knowledge that was represented at the convention was very impressive. Equally im-

pressive were the exhibitors and the technology that is being used to evaluate data for exploration and development. It is apparent that data management is going to be crucial for future exploration. Our KGS Library has a wealth of information and we are working toward ways to preserve this data as well as expose it to a larger group of explorationists in a manner which it can be accessed and used from remote locations. By doing this we will have a better chance to continue to grow and keep our library operational.

Since our last issue we have completed a number of social and technical activities of the Society. Our technical talk spring session concluded at the end of May, including a field trip to Hays, KS to visit the Sternberg Museum of Natural History with a trip to the field to hunt fossils. I want to thank Bob Cowdery for all his hard work finding and scheduling speakers for technical talks this past spring, as well as organizing and leading the field trip to Hays. He is a tremendous asset to our society. He has agreed to work on the fall schedule of speakers as well so if you have any desire to present work you have done, I am sure he would appreciate hearing from you, or get in touch with Rebecca at the KGS library and let her know. The fishing and golf tournaments have been completed, our next social event will be the annual picnic the first of August – look for details in this issue of the bulletin. Hope to see you there!

Have a great summer,

Timothy G. Pierce

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**It's Picnic Time!!!!!!**



**KANSAS GEOLOGICAL SOCIETY  
ANNUAL PICNIC**

**When: Friday, August 1, 2003  
Where: ALLSTAR Sports Entertainment  
8333 W. 21st Street  
(Between Ridge Road & Tyler on 21st)**

**Bingo**

**In Air Conditioned Room!**

**6:00 pm : Eat, Drink & Mingle  
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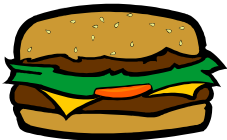
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Children under 14 years old are free!**



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**Grilled Ham burgers & Hot Dogs  
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**Dessert & Drink**

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**Committee: Brian White-Chair, Corey Baker, Kimberly Dimick-Wells  
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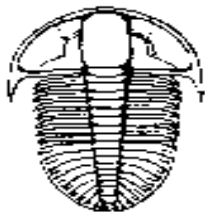
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Remember that Trilobite Testing is sponsoring your efforts, so be sure to thank Paul Simpson the next time that you see him.

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

**New Contest**



How about a guess on the identity of this "old fossil?" I don't know what you will win as yet, but call Wes at 316-263-7313 with your guess. First caller with correct answer only.



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## SIPES Notes – July, August

On May 22<sup>nd</sup>, an Ethics Panel consisting of Alfred James III, Jon Callen, and Dr. Lynn Watney with Phillip Knighton as moderator in a joint session with the Kansas Geological Society, discussed several ethical questions that had been published in 1998 and 1999 in the AAPG’s Explorer. This discussion was very well received by those assembled and there was good audience participation. It was suggested that such a discussion be held several times per year. This might be “overkill,” but another session perhaps next Spring might be in order.

The park adjoining the Kansas Oil Museum in El Dorado, Kansas was the setting for a very successful “Steak Sizzle” on May 30<sup>th</sup>. It was held in conjunction with a tour of the museum and a discussion of the El Dorado Field by Paul Ramondetta, Geologist and Bill Horigan, Engineer, both employees of Vess Oil. There were 57 individuals attending the “Steak Sizzle” and everyone seemed to be having a good time visiting with old friends and meeting new members and guests.

As is the custom of the Wichita chapter,  
*(Continued on page 24)*

## COMMITTEE CHAIRMEN

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<u>Technical Program</u>	Robert Cowdery
<u>Ticket Sales</u>	Bill Shepherd

### Fort Hays State Re-Offers Course In Fall! Limit 10 students (This will fill up quickly, act now!)

A one-day workshop for working Kansas Geologists seeking earned credit toward licensing under the Kansas State Board of Technical Professions.

This course is worth 45 CEUs

**When:** Friday, October 10, 2003,  
8:00 am to 5:00 pm

**Where:** Tamanek Hall #225, Fort Hays State U.

**Course:** GSCI 475 CA

You can enroll in this course through  
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## GEOLOGIST'S WIVES

### MEMBERSHIP REQUIREMENTS

Husband must belong to the Kansas Geological Society or be an acting geologist. Wives of deceased members are eligible to retain their membership. Officers and voting privileges shall be restricted to widows and wives of active Kansas Geological Society members.

A special announcement for those readers of the Bulletin who really pay attention. Wes will buy a beverage or two of your choice at a location of my choosing for those who contact me at 316-263-7313 by July 20, 2003. I have jokingly talked about this for a number of years, but finally decided to roll the dice. No one currently pursuing help via the AA should call, as I do not want to help anyone fall off of the wagon. I am sure that Ted J. will see this and call way too many people. I don't think I hid this very well.



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To volunteer, please contact Tyler Sanders or Rebecca at the Library 265-8676

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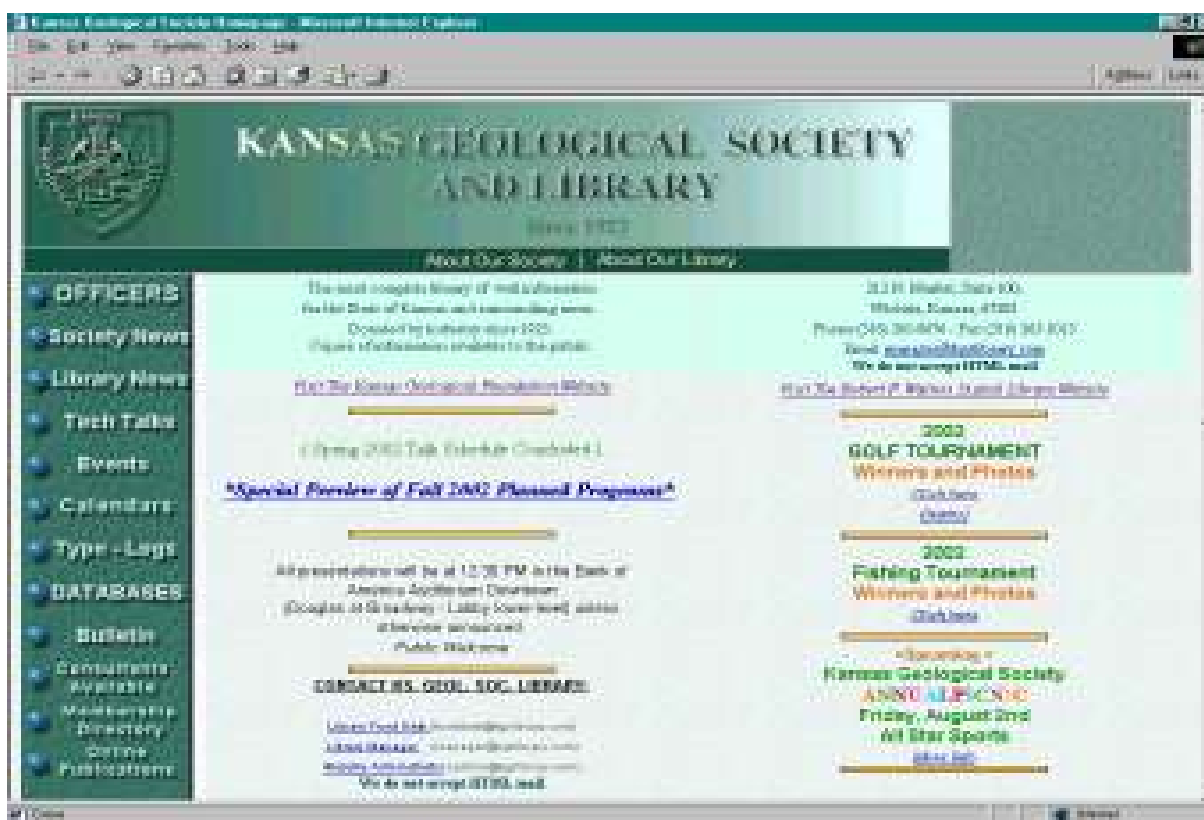
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KGS website administrator: ***admin@kgslibrary.com***

KGS library manager: ***manager@kgslibrary.com***

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## Continuing Education – Tour of Sternberg Museum, Hays

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**Greg Liggett of The Sternberg Museum, addressing the group**

On May 3<sup>rd</sup>, 36 members, spouses and guests assembled at the parking lot of the Sternberg Museum in Hays, Kansas. With Greg Liggett, Assistant Director of the museum as leader, they toured the exhibits currently on display including the famous “fish within a fish” and many other vertebrate fossils.

Following the tour of exhibits, open to the public, they were treated to a “behind the scenes” tour including the areas where the fossils and other objects are prepared for exhibition. The group then proceeded to the lecture hall to hear an excellent presentation of the stratigraphy of the area by Greg Liggett.

After lunch the tour group assembled at Castle Rock south of Quinter, Kansas to examine the Smoky Hill Formation from which many of the vertebrates were excavated. Additional interpretative geology was presented at that area.

This was an excellent tour of an outstanding museum and there have been requests that it be repeated next year. In the meantime, it is recommended that if you are in the Hays area that you visit this museum. You will find a visit to be well worth your time.



**Castle Rock**



**Standing up to the Kansas Wind**



**Shot of what is referred to as "The Badlands"**

## SCIENTIFIC COMMUNICATIONS

### New genus of armored dinosaur welcomed to FHSU' s Sternberg Museum

HAYS, KS -- One of the few dinosaur fossils ever discovered in Kansas returned home today when *Niobrara-saurus coleii* (NYE-oh-BRAIR-a-saw-rus KOH-lee-eye) was officially welcomed to the collections of Fort Hays State University' s Sternberg Museum of Natural History at a news conference in the collections area of the museum.

"We are proud to be able to add this extremely valuable fossil specimen to the collections of the Sternberg Museum," said university President Edward H. Hammond. "It is appropriate that it should be here, because it was discovered in Gove County in 1930, and it is gratifying that after so many years out of state it should return to someday go on display at our fine museum of natural history."

This specimen, which was only recently identified as a new genus of armored dinosaur, is the "type specimen" for this genus, meaning it is the fossil complete enough for scientists to tell that it is a new animal, one not previously discovered.

"I am also happy to have this opportunity to showcase the Sternberg Museum for its scientific value to the world," said Hammond. "The Sternberg Museum is known around the world as a tourist attraction, but it is even more widely known as a scientific resource for its large and, in many cases, unique specimens."

Dr. Jerry Choate, professor of biological sciences and director of the Sternberg Museum, introduced Mike Everhart, adjunct curator of paleontology for the museum, who was responsible for finding and studying the *Niobrara-saurus* fossil and in getting the specimen moved to the Sternberg Museum.

"Mike' s true love is paleontology," said Choate, who said Everhart is one of the world' s leading experts on mosasaurs.

*"He has collected fossils in the chalk of western Kansas for about 35 years and has earned an international reputation as an authority on the Smoky Hill Chalk and its*

*vertebrate fauna," said Choate.*

Everhart, who founded and is webmaster for OceansofKansas.com, one of the largest paleontological Web sites and which focuses on the marine fossils of western Kansas, gave a brief history of the fossil.

The fossil was discovered in early 1930 by Virgil Cole in southeastern Gove County. Cole thought that he was collecting a plesiosaur, an aquatic reptile, but then concluded that it was, in fact, a dinosaur when he found an articulated hind limb. He sent the remains to the University of Missouri at Columbia where they were described by M.G. Mehl in 1936 as a new "aquatic" dinosaur. The specimen consists of vertebrae, parts of the skull, the pelvis, limb bones, and dermal scutes (skin armor).

*Mehl identified this dinosaur as a nodosaur, a group of armored dinosaurs that sort of look like overgrown armadillos. He named this new dinosaur Hierosaurus (HYE-roh-saw-rus) coleii. Recently, the specimen was studied again, and it is now thought to be a different kind of nodosaur dinosaur not belonging to the Hierosaurus group, so a new genus name was created and it is now called Niobrara-saurus coleii.*

Everhart, studying a specimen collected in 2000 by Shawn Hamm of Wichita State University, compared Hamm' s find with the specimen at the University of Missouri, and he and Hamm concluded that Hamm' s find was the same species. These two are also the only known specimens. Both are housed at the Sternberg Museum.

In this process, Everhart learned from Dr. Raymond Ethington, professor emeritus of geology at Missouri, that the university there had no plans to display the fossil in their collection. Recognizing the fossil' s value to science and the people of Kansas, the University of Missouri agreed to transfer the specimen to Sternberg. Dr. Richard Zakrzewski (zak-SHEFSKI), professor of geoscience and chief curator



of the Sternberg Museum, highlighted several paleontology research projects now under way, including a dinosaur dig in southeastern Colorado and an international research project in Meade County, Kansas, with scientists from Spain and Italy, on several million years of rodent evolution.

*The Sternberg Museum's holdings include more than 3 million specimens, including more than 2 million fossils. The paleontology collections contain some of the finest Cretaceous era fossils ever found. Its collection of flying reptiles is recognized as the third best in the world and its collection of mosasaurs and plesiosaurs have some of the most complete specimens of those animals in any museum.*

The famous Fish-Within-a-Fish is unique.

Altogether, the museum houses collections representing the disciplines of paleontology, geology, history, archaeology and ethnology, botany, entomology, ichthyology, herpetology, ornithology and mammalogy.

The news conference ended in a tour of the museum's rooms containing the various collections and areas where specimens and displays are prepared. The tour also included the recently completed permanent geological exhibits on the museum's main floor.

The preceding press release is from Fort Hays State University.

During Greg Leggett's tour of the Sternberg Museum, he discussed some of the current thinking (fact and conjecture) about the Smokey Hill chalk sea(80—85 million years ago) and the creatures associated with it:

There was abundant sea life, but low diversity of species.

The sea depth varied between 200 and 600 feet, and possibly as deep as 1000 feet.

The fossils are well preserved because the sea floor was anoxic. It would seem that a shallow, continental sea would be an oxidized environment. Mr. Leggett explained that no one knows exactly why the seafloor was anoxic, but many think it was due to weak or nonexistent currents at the bottom of the sea.

Pterosaurs have long been regarded as gliders. Recently, many scientists think that they were true fliers, with the ability to take off under their own power. Their reptilian metabolism may have enabled them to take off with lower energy requirements than birds. Pterosaurs have been found at the Graneros—Greenhorn boundary (92 million years ago).

Dinosaurs found in Kansas lived and died on land in Colorado. Their bloated bodies were swept out to sea and sank in Kansas.

### Confirmed or probable dinosaur fossils from Kansas



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## BOOK REVIEW by Robert Stozle

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May 20, 2003

**THE KINGDOM**  
Arabia & The House of Sa' ud  
by Robert Lacey

Published in paperback by Avon Books, price \$6.95, copyright 1981

Although this book is a bit out of date, its relevance and insight to the recent fighting in Iraq and the often inscrutable activities within OPEC justifies the time to get through its 522 pages. Actually, this history of Saudi Arabia is one of the most enjoyable and easiest read historical accounts I have encountered and I would recommend it to anyone with an interest in the price of oil.

As a young man living with his family in exile in Kuwait, Abdul Aziz--the father of the current kings of Saudi Arabia--in 1902 recaptured the ancestral home of Riyadh. For fifty days a force of about 60 men on camels and armed with swords, daggers and a few rifles had traveled across the desert to fight a battle that lasted only a day. This success set Abdul Aziz on a series of conquests, trades and diplomacy that ended with the country we know today as Saudi Arabia.

He started well before the discovery of oil there and ended as king of one of the most economically powerful and influential countries on earth. Saudi Arabia is a kingdom with all the residents being subjects of the king and all property owned by the king. It is a devoutly Islamic state that in many ways owes its existence to a fanatical sect known as the Wahabis. The enemies and allies of Saudi Arabia were largely developed during Abdul Aziz' s conquest and reign and persist to this day. Saudi Arabian decisions and the politics of the Middle East are often incomprehensible to the western observer but, viewed from the context presented in "The Kingdom", much of the behavior can be seen as quite logical.

For a book written for western readers, "The Kingdom" is unusual in presenting its history from the perspective of the House of Sa' ud. As such, it offers an interesting perspective not only on the political intrigues of the region, but also on the importance of oil and its continuing development. The misunderstandings that cause much trouble today are usually presented from the Arab view and present an interesting counterpoint to the spin we usually hear in the west, e.g.-why didn' t they give Germany to the Jews, what did we do to deserve having our land given away?

Just in case anyone doubts that the residents of the region don' t understand the oil equation and the basis for western interest there, a common aphorism of the "man in the street" in Arabia today is, "My father rode a camel, I drive a car, my son will fly an airplane, his son will ride a camel."

# GeoGraphix

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## FROM THE MANAGER'S DESK

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Dear Members,

The lull of summer is upon us. It seems to slow down a bit in the summer with no technical meetings taking place. It seems that a lot of geologists are out on wells also, this is a good thing! At any rate, it has been quiet in the library.

The Thursday night volunteer force has accomplished the file stretch as of the 19th of June. Please thank those who worked on this when you see them. That would be **Sal Mazzullo, Chellie Teal-Mazzullo, Marj Crane, Ted Jochems, Larry Friend, Paul Ramondetta, Kimberly Dimmick-Wells & Brian Wilhite**. Another person who worked very hard on this project, as well as other projects, was **Bob Wasson**. It is with great sadness that I have to report that Bob is no longer with us. He left the first of June for Geology Field Camp with WSU and suffered a fatal heart attack. Not only did we lose a wonderful volunteer but also a promising petroleum geologist. If you are so inclined, a memorial has been established with Wichita State University Foundation, 1845 Fairmont, Wichita, KS 67260, the **Robert F. Wasson Scholarship Memorial**. If you would care to give to that memorial, you may send it directly to WSU or contact me here at the library. Bob made a decision rather late in life to pursue the study of geology and would have made a very fine geologist. I am sure he would be pleased that a scholarship fund has been established to help others pursue the study of geology.

The KGS Golf tournament was held on June 16th at the Hidden Lakes Golf Club. We had a fair turnout, 84 golfers. We changed the tee-off time to 1:00 PM this year in hopes of making it easier for out of towners to come and play. We are not sure if this had any great effect on our turnout so we have posted a sign-up sheet in the library to let you tell us which way you like it, morning tee-off or afternoon tee-off. Or just give me a call and let me know or let John Williams know. By the way, a big thank you to **John T. Williams** for putting this golf tournament together. Along with his committee, **Jerry Mason, Mike Reed, Kevin Davis and Ron Schraeder**, they provided members and guests with a wonderful afternoon of golf! Some pictures of the golfing day are included on this page and the following page.

On Friday, **August 1st**, the KGS will hold its annual picnic. It will be at **AllStar Sports Entertainment** again this year. We had a good response to this change of venue last year. Most positive was the fact that we can eat inside an air conditioned room! See more details about the picnic on page 9.

I hope everyone is having a safe and enjoyable summer.

Respectfully Submitted,  
*Rbecca Radford*



Helpers: Desk & Derrick girls, Janice, Rhonda & Sherri from the Library and John T. Williams.



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## AAPG Executive Committee– 2003-04

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**Dr. Stephen A Sonnenberg, President** (EnCana Energy Resources)

**Mr Patrick J. F. Gratton, President-Elect** (Independent)

**Mr. Erik P. Mason, Vice-President** (Shell Oil Company)

**Mr. Robert L. Countryman, Secretary** (Occidental of Elk Hills)

**Dr. Paul Weimer, Treasurer** University of Colorado, Department of Geologic Sciences

**Dr. John C. Lorenz, Editor** Sandia National Laboratories

**Mr. George Eynon, GEOS Energy Consulting**

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## GOLF PHOTOS



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## PROFILE:

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**Robert Busby**

This is the story of a geologist who commenced his life's journey in Wakefield, Nebraska and has now returned to "his roots" after a varied and interesting exploration career.

Bob was born in March of 1926 in Wakefield, where his father was the owner of a grain elevator. Bob has one brother, Jack, who was a petroleum geologist in the Mid-Continent with Texaco, and later a consultant. Jack passed away in 2002.

Bob attended schools in Wakefield where he graduated from high school in 1944. In May of 1944 he commenced service in the U. S. Air Corp. He served as a belly gunner on a B-24 bomber crew. He received a discharge from the service in October of 1944 after serving primarily in Texas, Colorado and Albuquerque, New Mexico.

Following his discharge, Bob enrolled

at the University of Nebraska where he received a Bachelor of Science degree in 1949 and a Master's in 1951. Bob had originally enrolled in engineering, but after 1-½ years he decided to take a course in geology and as he states "I was hooked and became an addict." Also entering into his decision was the fact that his older brother, Jack, and an uncle were geologists. Included in his classmates at Nebraska were: Dick Bick, Earl Brandt, Don Bieber, Bob Rutledge and Roger Welty. Two professors at Nebraska were very influential in Bob's career. Professor Schramm, Head of the Department, taught him the practical side of business and Professor Stout who was a top-notch stratigrapher taught him to be inquisitive. The students at the University of Nebraska were being exposed to the theory of plate tectonics long before it was accepted. Bob also continued his higher education at Tulsa University and the University of Oklahoma.

In 1948 Bob was married and he has two sons: Michael, President and COO of Kachemak Mining Corp, Chicken, Alaska, where he currently mines placer gold in the Forty Mile Mining District Alaska, and Kirk, CPA and Corporate Auditing Supervisor for the Internal Revenue Service in Denver.

Bob commenced a nineteen-year career with Conoco in 1951, which included positions of Area Geologist, Casper; Assistant Division Geologist, Billings; Division Geologist, Wichita; Division Manager, Casper; and Regional Manager, Denver. He recalls his first day of work at Conoco in 1951. He was sent to the then developing Wyoming field, Sussex-Meadow Creek, to "well sit." He had never been on a rig, nor had he ever examined well cuttings. At the time Conoco had a number of rigs drilling. Because Bob was the only geologist, he was very concerned that he would not be present when he was needed. When he walked on the floor of the first rig, the driller said "we have a drilling break." Since he was concerned about not being present on the other rigs, he re-

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sponded “how long will it take to fix.” Bob says he has forever appreciated the patience exhibited by many drillers when dealing with this “wet behind the ears” geologist.

At Conoco, Bob’s first boss was Maynard Olson. Bob found that he was an excellent influence in the fields of work and professional ethics. For his part Bob has very good advice to the young geologist entering the field: “Never make an interpretation without examining all the material and literature available. Don’t become discouraged; there is an answer to the problem, whether the problem is science or human. Learn from your dry holes!! Remember from each success that you have there is someone that can share the credit.”

Bob recalls from the period that he worked in Wichita that Bill Iversen was one of the favorite characters that he encountered. Bill once submitted to Bob an invoice for well sitting, with his dog. A paw print from the dog, Butch, was used as the signature. Bob says that he always accused Bill of making Butch do most of the work. Bob is looking forward to the hereafter so that he and Bill may resume their arguments on Kansas faulting.

One well in particular sticks in Bob’s memory. There had been eleven successful completions in the Mississippian and Simpson in the Meek North Field in which Bob had a working interest. There was a considerable amount of modern seismic at their disposal. They concluded that their highest Simpson was still undrilled. They proceeded to drill the #8 Bates into the Arbuckle and the well was in fact the highest Simpson datum in the field, surrounded by successful wells, 152 feet higher than the lowest Simpson producer and it tested water. Bob says, “This is Kansas geology.”

While in Kansas, Bob provided information on Kansas drilling to the AAPG, served on the Kansas Field Nomenclature Committee, and also served on the KGS Picnic Committee. He has also served the profession and industry as Delegate to the AAPG House of Delegates,

Chairman of the 1959 Billings Geological Society Field Conference, and Convention Chairman of the Rocky Mountain Section of the AAPG Annual Meeting.

From 1970-until 1973, Bob was an Independent Geologist in Denver. In 1973, he joined Beren Corp in Denver as Exploration Manager where he was employed until 1981. Once again he became an independent and was at this time that he founded Tri-dec Exploration and Kachemak Mining Corporation.

In 1990, he married Angela (Annie) Sandahl Kline who has three children: Richard, Major U.S. Army, retired, now financial supervisor of Veteran’s Hospital, Omaha, NE., Kim, Commander, U.S. Navy, retired, Abstractor, Omaha, NE. and Jonathan, Founder and President, Indigo Graphics, Omaha, NE.

Bob has been active in the community: serving homeowner’s associations, Boy Scouts, etc. He has served his church as Sunday School Superintendent, Board of Deacons member and on the Church Council.

Over the years he has been a member of the AAPG, WGS, RMAG, DAPL, AMA, and Sigma Xi.

Even though he is not currently active in the oil industry, he is active in geological pursuits. He has just commenced a geological and chemical study of the local ground surface water in NE Nebraska. This study is in response to the situation where there is currently little or no meaningful state or local control of surface and ground water, thus the water quantity and quality are deteriorating.

Bob doesn’t leave any doubt about his feelings as to his geological career. As he states, “I have never had a day that I did not enjoy my work. A few people have bothered me, but not many. I love being a geologist.”

For the future, Bob plans to work on his water study and his golf game.

## **KGS Library Open Late on Thursday Nights**

**The KGS Library is open Thursday nights until 9:00 pm**

### **These special hours benefit:**

- ◆ **Geologists who have left the business to work elsewhere during downturns in the oil business**
- ◆ **Out of town members will now be able to maximize a trip to our library to do research, perhaps cutting a full day off of their visits**

**We generally chip in for pizza for dinner. (Or sometimes surprise potluck!)  
Join us for the camaraderie**



*(Continued from page 11)*

there will not be any presentations during the summer months. Plans are in the mill for Curtis Covey to make a presentation on "Gas Detectors" in September. In October the traditional fall picnic will be held at Chairman Terry McLeod's fine facility near Mulvane. At the picnic, there will be a discussion of the depositional features of the adjoining Arkansas River. In November, there will probably be a presentation by Alan Chamberlain on "Exploration in Nevada", if a date mutually satisfactory to him and to SIPES is selected.



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***The Kansas Geological Society  
Would Like To Thank The Following Sponsors  
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## KGF TAPE REVIEWS

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### **Legends in Wildcatting (2003)**

119 Minutes—Houston Geological Society  
Five individuals discuss their careers in the oil industry. They are Michel T. Halbouty, Halbouty Energy Co.; Bill Barrett, Bill Barrett Corporation; Tomas D. Barrow, Humble Oil, Retired; Marvin Davis, Davis Petroleum; and Robbie Gries, Priority Oil and Gas.

### **In Search of Human Origins (Episode 3)**

62 Minutes—The Creative Revolution; NOVA  
This tape essentially a discussion of whether Homo Sapiens (modern man) is an entirely new species or whether they evolved from primitive peoples such as Neanderthal already occupying areas in Africa, Europe, Australia etc.

An additional copy of the tape ‘Legends in Wildcatting-2000’ was received from the Houston Geological Society and they have graciously donated this tape to our Videotape Library



### **NEW CD’S Available for Check-out**

#### **“National Petroleum Reserves in Alaska”**

2 volumes– USGS

#### **“U.S. Geological Survey World Assessment 2000-Description and Results”-2 volumes-USGS**

#### **“Petroleum Systems and Geologic Assessment of Oil and Gas in the Uinta-Piceance Province-Utah and Colorado”-USGS**

#### **Maps Showing Geology, Oil and Gas Field, and Geologic Provinces of South America-USGS**

#### **Ranking of the World’s Oil & Gas Provinces by Known Petroleum Volumes—USGS**

#### **“The Oil and Gas Resource Potential of the Arctic National Wildlife Refuge 1002 Area-Alaska” USGS**

#### **U.S. Geological Survey, Coalbed Methane Field Conference, May 9-10, 2001-USGS**

#### **Oceanside Seismic Data Set—US Dept. of Interior**

#### **From Gateways to Glaciation—Joint Oceanographic Institutions**

#### **Natural Gas Res. Of the Greater Green River and Wind River Basins of Wyoming-DOE**

#### **Microhole Initiative-DOE**

#### **Numerical Simulators—Databases-Analytical Models, DOE**

#### **Exploitation and Optimization of Reservoir Performance in the Hunton Formation, Oklahoma—DOE**

#### **U.S. Geological Survey, Coalbed Methane Field Conference, May 9-10, 2001-USGS**

We also have abstracts of over 950 papers presented at the Annual Meeting of the AAPG—May 2003, Salt Lake City, Utah.



### **CD’s Available in September from USGS**

Oil and Gas Plays (1995)-Federal Lands, and Land Use-Land Cover of the Offshore Gulf Coast Region of the United States

Basin Centered Gas Systems of the United States

Selected Data from Fourteen Wildcat Wells in the National Petroleum Reserve in Alaska

National Coal Resource Assessment Non-Proprietary Data: Location, Stratigraphy and Coal Quality of Selected Tertiary Coals in the Northern Rocky Mountains and Great Plains Region

1999 Resource Assessment of Selected Tertiary Coal Beds and Zones in the Northern Rocky Mountains and Great Plains Region

Geologic Studies of Deep Natural Gas Resources

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## Three Special CD's

### Oil Recovery – Field Demonstrations Program Class 1 – DOE

**Amoco Exploration and Production Company** – West Hackberry Tertiary Project – Louisiana

**Bureau of Economic Geology** – Revitalizing a Mature Oil Play – Texas

**Columbia University** – Dynamic Enhanced Recovery Technologies – Louisiana

**Diversified Operating Corporation** - Advanced Secondary Recovery Project for the Sooner 'D' Sand Unit – Colorado

**Hughes Eastern Corporation** – The use of Microflora Indigenous to Selectivity Plug Porus Zones to increase Oil Recovery During Water Flooding – Alabama

**Lomax/Inland Resources Incorporated** – Green River Formation Waterflood – Utah

**Texaco E&P** – Post Waterflood CO2 Miscible Flood in Light Oil Fluvial Dominated Deltaic Reservoirs – Texas

**University of Kansas** – Improved Oil Recovery in Fluvial Dominated Deltaic Reservoirs – Kansas

**University of Oklahoma** – Identification and Evaluation of Fluvial Deltaic Reservoirs – Oklahoma

**University of Tulsa** - Glenn Pool field-Oklahoma

**Utah Geological Survey** – Increase Oil Production and Reserves from improved Completion Techniques in the Bluebell Field – Utah

### Oil Recovery Field Demonstrations—Class 2 – DOE

**University of Kansas Center of Research Inc.** – Improved Oil Recovery in Mississippian Carbonate Reservoirs of Kansas

**Laguna Petroleum Corporation** – An Integrated

Study of the Grayburg/San Andres Reservoir, Foster and South Cowden Fields, Ector Co. Texas

**Luff Exploration Company** – Improved Recovery Demonstrations for the Williston Basin Carbonates Lateral Drilling and Completion Technologies for Shallow Shelf Carbonates of the Red River and Ratcliffe Formations, Williston Basin Reservoir Characterization of the Mississippian Ratcliffe, Richland Co. Montana, Williston Basin Reservoir Characterization of the Ordovician Red River Formation in Southwest Williston Basin Bowman Co., ND and Harding Co., SD

**Michigan Technological University** – Recovery of Bypassed Oil in the Dundee Formation of the Michigan Basin Using Horizontal Drains

**Oxy USA, Inc.** – Application of Reservoir Characterization and Advanced Technology to Improve Recovery and Economic in a Lower Quality Shallow Shelf Production

**Phillips Petroleum Company** – Design and Implementation of a CO2 Flood Utilizing Advanced Reservoir Characterization and Horizontal Injection Wells in a Shallow Shelf Carbonate Approach Waterflood Depletion

**Texaco Exploration and Production, Inc.** – CO2 Huff-n-Puff Process in a Light Oil Shallow Shelf Carbonate Reservoir

**TotalFina** – Application of Integrated Reservoir Management and Reservoir Characterization

**Utah Geological Survey** – Increased Oil Production and Reserves Utilizing Secondary/Tertiary Recovery Techniques on Small Reservoirs in the Paradox Basin, Utah

**Texas Through Time - Institute of Geophysics, University of Texas**  
(This CD donated by Doug Davis)

This CD in Powerpoint traces the migration of the continents, primarily focusing on the North American Plate thru time from the Late Proterozoic to the Present.

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## KGS Board Minutes

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### May 2003 Board Meeting

This is a summary of the May 6, 2003 KGS Board meeting. The official minutes of all KGS Board meetings are available at the KGS Library. Ms. Radford reported that as of April 30 there was a net profit of \$12,724.58 with a year-to-date net profit of \$3,103.26. It was also reported that as of April 30, there were 536 Society members and 169 Library members that have paid their 2003 dues.

Mr. Tom Hansen and Mr. Larry Skelton represented the Kansas Geological Society and the Kansas Geological Survey at the Zoo for Earth Day on April 22nd. There were over 130 exhibitors and approximately 12,500 people came to the Earth Day celebration. A teacher's seminar was given in conjunction with KIOGA. The seminar took place at Butler County Community College in El Dorado Kansas on April 25th. 61 teachers attended the seminar.

There was discussion on an upgrade of the KGS Web Site. The possibility of putting Type Logs on the web was discussed. There was also discussion on the idea of the website being available for advertisement for consulting geologists.

The meeting was adjourned at 2:10 PM

### June 2003 Board Meeting

The regular meeting of the Board of Directors of the Kansas Geological Society was held on June 10, 2003 at the Petroleum Club. Mr. Pierce welcomed those present and excused those not present. Mr. Pierce reported on his attendance at the AAPG meeting in Salt Lake City, Utah. Upcoming Society Activities scheduled are the KGS Golf Tournament, June 16th at Hidden Valley Golf Course in Derby and the KGS Annual Picnic, August 1st at All Star Sports Entertainment.

Mr. Maune presented the treasurer's report. Mr. Maune reported that after a meeting with the Trust Company of Kansas on May 30, 2003, and following the Board's decision made at the May board meeting, the funds invested with the Trust Company of Kansas would be closed out and transferred to Intrust Bank in the KGS Savings account. There was a motion made to research the best rates available and to place the monies into the highest yield Money Market account available. There was also discussion on the KGS Investment Policy and the need for a new policy to be written.

Ms. Radford presented the Manager's Re-

Reporting as of May 31st, the library had a net profit of \$13,361.71 with a year-to-date profit of \$16,464.97. There were 553 paid Society members and 171 paid Library members.

New business discussed was as follows: Tim Pierce was approached at the AAPG meeting in Salt Lake City, Utah by Pen Energy. They would like to place a computer in our library (at their expense) which would allow us to access their production database for the Mid-Continent area (Texas panhandle, Oklahoma, Missouri, Arkansas and Kansas). Tim Pierce also met with Jack Thomas of the AAPG while in Salt Lake City, and discussed the desire of the AAPG to digitize our publications of Field Guide Books and the Oil and Gas Fields of Kansas Volumes. Discussion followed that we hardly ever sell any of these publications. The AAPG would pay the KGS a royalty after their costs were recouped. Mr. Pierce will discuss this in more detail with Jack Thomas of the AAPG.

The meeting was adjourned at 3:05 PM



### Kansas Geological Foundation Items for Sale

#### Several sets of geological data and publications:

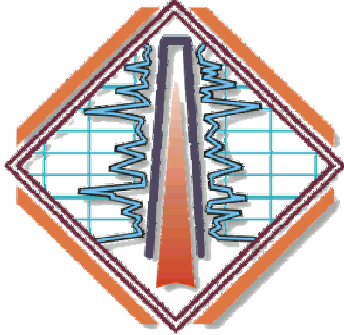
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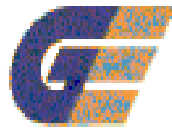
Watch for important upcoming news  
and announcements on the project's  
website:

[www.rfwgeolibrary.com](http://www.rfwgeolibrary.com)

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Upcoming announcement of the date  
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Scanning of the library's west ranges  
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# KANSAS GEOLOGICAL FOUNDATION

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## 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.

**Videotape Library** - The KGF maintains a 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.


**New Slides on Energy from AAPG** - 14 slides are available from the Speaker's Bureau on energy. Please contact Bob Cowdery at 267-9030 to check out the slides.

The Kansas Geological Foundation was founded in March of 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:

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



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**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
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# KGF

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## MEMORIALS

Name	Dc' d Dte	M' l Est.	Name	Dc' d Dte	M' l Est.
Dan Bowles	09/89	1990	Frank M. Brooks	03/98	1998
John Brewer	10/89	1990	Robert F. Walters	04/98	1998
Robert Gebhart	01/90	1990	Stephen Powell	04/98	1998
George Bruce	09/90	1990	Deane Jirrels	05/98	1998
Ray Anderson, Jr.	11/90	1990	William G. Iversen	07/98	1998
Harold McNeil	03/91	1991	Ann E. Watchous	08/98	1998
Millard W. Smith	08/91	1991	W.R. "Bill" Murfin	09/98	1998
Clinton Engstrand	09/91	1991	Donald L. Hellar	11/98	1998
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James & Kathryn Gould	11/91	1991	Charles W. Steincamp	02/99	1999
Benton Brooks	09/92	1992	Robert and Betty Glover	10/86	1999
Robert C. Armstrong	01/93	1993	Howard E. Schwerdtfeger	11/98	1999
E. Gail Carpenter	01/93	1993	W. W. "Brick" Wakefield	03/99	1999
Nancy Lorenz	02/93	1993	V. Richard Hoover	01/00	2000
Norman R. Stewart	07/93	1993	Warren E. Tomlinson	01/00	2000
Robert W. Watchous	12/93	1993	James A. Morris	01/00	2000
J. George Klein	07/94	1994	Eric H. Jager	03/00	2000
Harold C.J. Terhune	01/95	1995	Kenneth W. Johnson	03/00	2000
Carl Todd	02/95	1995	Dean C. Schaake	04/00	2000
Don R. Pate	03/95	1995	Fred S. Lillibridge	05/00	2000
R. James Gear	05/95	1995	Jerry A. Langrehr	07/00	2000
Vernon Hess	06/95	1995	Clark A. Roach	07/00	2000
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Jack Rine	08/95	1995	Robert L. Slamal	02/01	2001
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Raymond M. Goodin	03/97	1997	Don L. Calvin	03/02	2002
James D. Davies	08/88	1997	Harold Trapp	12/02	2002
R. Kenneth Smith	04/97	1997	Claud Sheats	02/02	2002
Robert L. Dilts	05/97	1997	Merle Britting		2002
Delmer L. Powers	06/72	1997	Donald M. Brown	11/02	2003
Gene Falkowski	11/97	1997	Elwyn Nagel	4/03	2003
Arthur (Bill) Jacques	1/98	1998			
Bus Woods	1/98	1998			

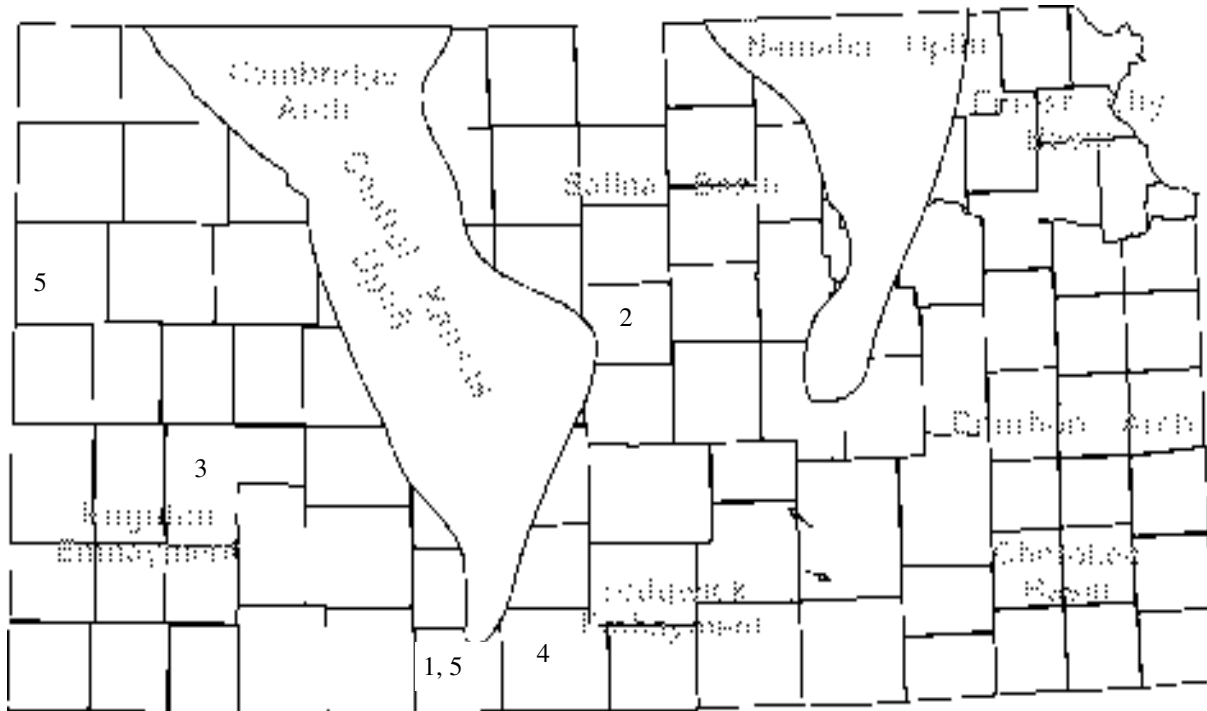
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# EXPLORATION HIGHLIGHTS

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**By John H. Morrison, III**  
**Independent Oil and Gas Service**



**(1) Castelli Exploration Finals Comanche Steepout** (IOGsi Weekly News 4/21/03) - Castelli Exploration, Inc., of Oklahoma City (OK), has successfully completed a Mississippian gas well in the Ham Field in Comanche County, and expanded production in the field nearly three-quarters mile to the northwest of previous recognized boundaries. Located in approximately C E/2 SE NW in section 21-T33s-R16W, the Dorsey Trust #2 is flowing 400 Mcf gas daily, no water. Pay comes from perforations shot at four holes per foot between 4960 to 4966 ft. Dale Padgett, wellsite geologist, called the top of the Mississippian formation at 4953 (-3125 KB). The well is drilled to a total depth of 5005 ft. by loggers measurements. Duke Drilling was drilling contractor. The Dorsey Trust #2 lies about 7-1/4 miles south and 13-3/4 miles east of Coldwater, Kansas.

**(2) Rupe Oil Company Tests Discovery** (IOGsi Weekly News 5/12/03) - Rupe Oil Company, Wichita (KS), has taken a State Test at their recent new Empire pool opener in Ellsworth County. The

Kanopolis Federal #1-21, located in approximately SW SE in section 21-T16s-R7W, has gauged a One-Point Calculated Open Flow rate of 655 Mcf gas daily with some water. Test was conducted through a 56/64th inch orifice registering a flowing tubing pressure of 287 psi. The well has been completed for an initial flow potential of 350 Mcf gas per day with pay coming from perforations in the first Tarkio Sand in the Grandhaven member of the Wabaunsee Group from 1723 to 1727 ft. James C. Musgrove, wellsite geologist, called the log top of the first Tarkio Sand at 1723 (-197 KB). Total depth of the well is 2392 ft. The new Kanopolis Federal discovery establishes production in an area about 1-1/2 miles south of gas production in the Kanak Field which Rupe also discovered. Rupe's Kanak #1 was dually completed in 1973 for 410 Mcf gas daily from Chase perforations at 1089 to 1099 ft., as well as 800 Mcf gas daily from the Grandhaven at 1769 to 1786 ft. Admire sand gas was added to the field's resources in 1979. Field area is located about 4-1/2 miles south and 2-3/4 miles east of the town of Kanopolis, Kansas.



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**(3) PetroSantander (USA) Completes Morrow Producer**

(IOGsi Weekly News 5/12/03) - PetroSantander (USA), Houston (TX), has completed its Bulger #7-16 well in Finney County for 120 barrels of oil and 1 barrel of water per day. The 4900 ft. deep well is located in approximately SW NE SE in section 7-T23s-R30W, and is an addition to the Bulger Field which has produced Morrow and Mississippian oil since 1988. The well topped the Morrow Sand formation at 4745 ft. (-1893 KB). Operator perforated the zone from 4748 to 4765 ft. with four holes per foot. Production came in naturally. First oil sales began on December 13, 2002. PetroSantander has been very active in Finney County, however, this is their first producer in the Bulger Field. They have staked a new location in the SW SE of section 8. The Isaac-Adams #8-1 is scheduled to begin the next few weeks and is a proposed 4,900 ft. Mississippian test.

**(4) Chieftain Oil Company Has Gas Discovery**

(IOGsi Weekly News 6/23/2003) - Chieftain Oil Company, Kiowa (KS), has discovered a new natural gas field in Barber County, southern Kansas, at its Kristi #1, located in approximately C N/2 N/2 SW of section 11-T33s-R10W. The unnamed pool opener has been completed for 500 Mcf gas daily with production established from the Marmaton (Pawnee Limestone) formation at a depth from 4312 to 4318 ft. Duke Drilling rotary tools drilled the well to a total depth of 5019 ft. Additional information will be released later. Well site lies over 3-1/2 miles from closest known Marmaton production which is located in the Antrim South oil and gas field in sections 31 and 32 in T32s-R10W. Wells are producing Mississippian gas about 1-1/4 miles to the north of the Kristi well in the McGuire-Goemann South field, and the Simpson formation has given up oil in the one-well Little Sandy Creek South field located about 1-1/2 miles to the east. Discovery site is located 4 miles south and 1-3/4 miles east of Sharon, Kansas.

**(5) Oil Producers Inc. of Kansas Completes Two Producers—New Information Released on Comanche County Wells**

(IOGsi Weekly News 6/23/2003) - New information has been released on two sizeable producers that were recently completed by Wichita-based Oil Producers Inc. of Kansas in Comanche County. Both are development wells in the northern portion of

the Bird East oil and gas field which has produced Mississippian pay since 1981 and Marmaton pay since 1992. Now, the firm has discovered Viola oil in the field with the completion of the Rich 'C' #10, located in approximately SE SW of section 22-T32s-R19W. The Rich 'C' #10 was drilled in April last year to a total depth of 5930 ft. by Mallard JV tools. Five and one-half inch production casing was set at 5929 ft. The well was completed on May 4, 2002 for 350 barrels of oil per day, no water. Production comes from Viola perforations shot at four holes per foot from 5802 to 5810 ft. The new pay discovery lies about one-half mile south of three Viola producers completed by Oil Producers Inc. of Kansas in late 2001 and early 2002 in the multipay Herd oil and gas field in the north-half of section 22. Their Rich 'C' #3 was completed for 250 barrels of oil daily in August, 2001 in the NE/4 of the section. In the NW/4, the Rich 'C' #5 was completed for 270 barrels of oil and 650 Mcf gas daily in December, 2001 and the Rich 'C' #7 was completed in March, 2002 for 700 barrels of oil and 350 Mcf gas daily. Field area is located about two miles southwest of the city of Coldwater, Kansas.

In the C W/2 W/2 of section 22-T32s-R19W, Oil Producers Inc. of Kansas has also completed its Rich 'C' #6 for 170 barrels of oil, no water, and 200 Mcf gas daily. The well is producing commingled pay from both the Marmaton and Mississippian formations. The Altamont Limestone and the Pawnee Limestone zones in the Marmaton were perforated from 4963 to 4968 ft. and 5018 to 5025 ft. respectively. The upper Mississippian was perforated from 5154 to 5160 ft., 5164 to 5170 ft. and 5175 to 5177 ft. The lower Mississippian was perforated from 5205 to 5210 ft., 5256 to 5258 ft. and 5266 to 5276 ft. Log tops reported include Altamont 4962 (-2969 KB), Mississippian 5133 (-3140), and Viola 5819 (-3826). Rotary total depth is 5910 ft. The well is located one mile south and 2-1/4 miles west of Coldwater.

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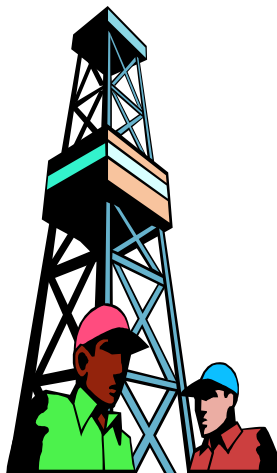
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