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KANSAS GEOLOGICAL SOCIETY

BULLETIN

Volume 83 Number 6

November—December 2008

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Bill Johnson

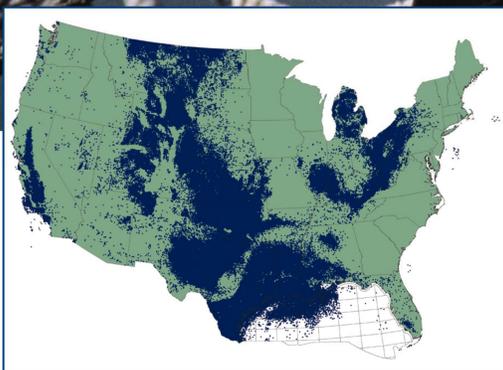
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Be sure to exercise your right to vote for your Kansas Geological Society Board of Directors

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 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>

SOCIETY Technical Meetings

FALL 2008

Nov. 10—Saibal Bhattacharya—“A Low-Cost, Low BTU Upgradation Plant—An Update”

Nov. 18—Dr. Neil Suneson—“Sequence Stratigraphy, Depositional Environment, and Reservoir Character of the Booch Sandstones (Desmoninesian McAlester Formation), Arkoma Basin, Oklahoma”

Nov. 25—Brian Cardott—“Woodford Shale Gas Play”

Dec. 2— TBA

Dec. 16- Robert White, Whitestar Energy

Dec. 30—TBA

Note: December 16th—the KGS Annual Business meeting will be held immediately following the Technical Meeting

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.

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2010	2009	2009

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Rex Buchanan

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Wes Hansen

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LIBRARY MANAGER

Rebecca Radford 265-8676

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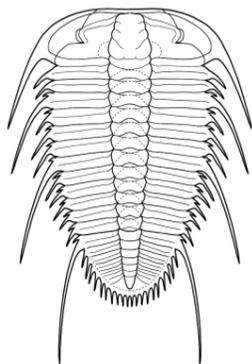
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**Bulletin committee members and PhD's in
Paleontology are prohibited from entering.**



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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.

Fractures & Micro-fractures: Importance to Resource Plays.

Professional Development for Geoscientists: New Hires to Old Hands, Concepts to Completions.

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:

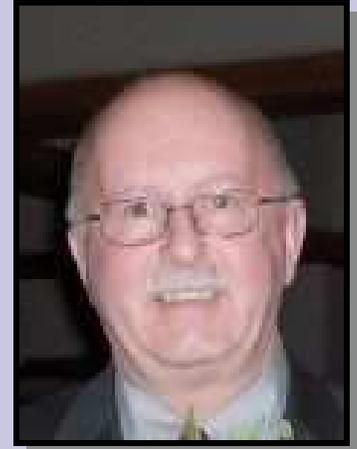
2009aapgmidcon.com



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

Presented by the Tulsa Geological Society

President's Letter



Dear Members,

Hello,

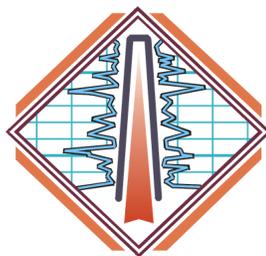
Here it is; my last official letter as President of the Kansas Geological Society. Wow, what a year. It started out with oil prices climbing and is ending with the prices self adjusting to a 17 month low. I think we are still alright but it sure makes the business interesting as usual.

A couple of things that we (KGS Board) are still working on: one is the upgrade of our digital library. We have explored several options and continue to do so. This is an exciting time to be involved with the digital aspect of all the data we have and will continue to have as LAS log files come into our possession. A second issue we are still looking at is the possibility of having a joint building with the Kansas Geological Survey. We would be separated from the Survey but this is an option we need to look at as they hunt for a place to put a new building that is built to withstand tornados; all the data we have deserves to be in a super safe place.

When I go off the presidency there will still be plenty of work to do with the board and I look forward to still serving the membership in some capacity.

Respectfully submitted,

Ernie Morrison



Update on Walters Digital Library

Many of you have expressed your concern over the time it is taking to complete the new software project for the digital library. We have run into some issues that we hope will be resolved quickly and we want you to know that we are still working on solutions and upgrades.

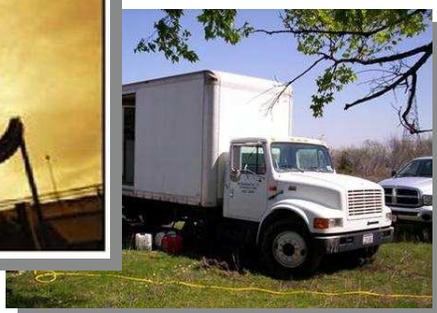
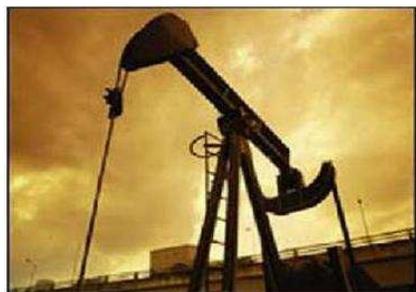
The KGS Board of Directors and myself are striving for a product that will work the best for you, our members. Please feel free to contact us if you want more information. Our goal is still in sight and we plan to get there!

Rebecca Radford, Manager

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From The Manager

Dear Members,

Another year wraps up and what an interesting year it has been, seeing the highest oil prices ever and then the big slide downward. It's hard to believe how much change can happen in one year.

By the time you read this, we will have a new President of the United States and you all will be thinking about who to vote for on the KGS board. Please look over the candidates information starting on page 14. Every year I say the same thing, thank you to all of those individuals who have agreed to run for office and serve their Society—these people make time for all of the issues that affect all of you in your day-to-day business.

Upcoming dates to remember: The KGS Annual Business Meeting will be held on Tuesday, Dec. 16th, immediately following the tech talk. We have a holiday library schedule posted on page 17. Please plan ahead for your log orders!

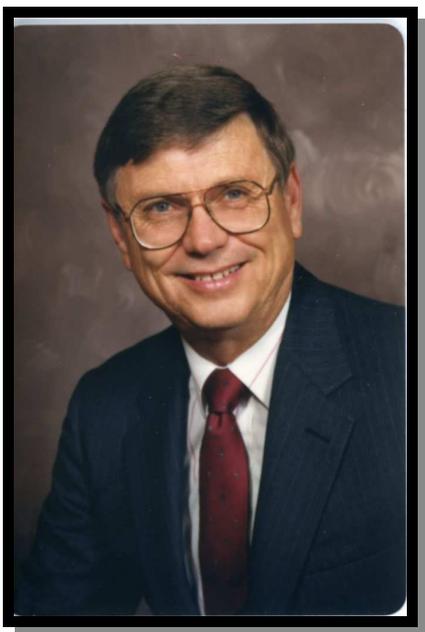
I want to take this opportunity to thank my staff here in the library. Your library would not be the same without them! I also want to thank all of the committee chairs for putting on another year of great events for the KGS. The latest being the shooting tournament which had a record number of shooters this year! Please note the thank you to our sponsors on page 11. Those of you who sponsor these events, time after time and event after event—these events would not happen without your support and that support is greatly appreciated.

We have had a very good year in this business and we will hope things start to rebound and we can look forward to several more years of producing more oil & gas in our state.

Happy Holidays to all!

Respectfully submitted,
Rebecca Radford





The geologist profiled in this issue is a man of many talents both within the profession and outside the profession.

He was born on October 30, 1932 in El Dorado and with the exception of time spent in the United States Army and at college has resided there his entire life.

His father worked at the refinery in El Dorado as an electrician and later as a foreman. He has one brother, now retired, who served as an administrator at Virginia Tech.

Commencing his education at Washington Grade School, Bill continued his education in El Dorado culminating in his graduation from El Dorado High School in 1951. Bill then attended Butler County Jr. and later completed his formal education at Kansas State University where he graduated in 1956. He had originally planned to be an engineer and was enrolled in engineering, but a friend who was enrolled in geology persuaded him to take a course in Physical Geology and he changed his major. At K-state Bill, encountered Dr. Henry Beck a professor who he says was really able to relate the subject matter to the students. One of his classmates at K-State was former KGS member, Tom Wesselowski.

Bill spent a brief period working for the Kansas Department of Transportation before being inducted into the United States Army in October of 1956. He attended Ft. Bliss Missile School as a 2nd Lieutenant. He was then sent to a missile unit in Germany and after serving for two years was discharged at Ft. Dix.

After his discharge, Bill returned to KDOT where he remained until 1978. At KDOT, he investigated geological conditions for the engineering design of bridge footings and roadways among other professional activities.

In 1959, he married Norma Beck of Pratt, Kansas who he had met while they were both attending K- State. Norma and Bill have two children: Amanda who lives in California and has four children and Anna, a pharmacist who lives in El Dorado and is in charge of the Pharmacy at Walgreens.

Bill joined Star Street Ventures an oil company headquartered in El Dorado. There he worked with Dean Seeber, a KGS member for the next 16 years. He performed the typical duties of a petroleum geologist, subsurface mapping, wellsite supervision etc. Bill believes that Dean exerted some influence on his career as a petroleum geologist. One surprising well on which he was the wellsite geologist during this period was located at Valley Center and it had a very minor show in the Lsg-KC, but the operator decided to set pipe and made a producer out of this very small show. A mentor during this period was Wilbur Bradley.

With the oil industry depressed in 1994, Bill departed from Star Street Ventures to become a consultant. He consulted from 1994 until 1996. It was during this period that at Tom Hansen's recommendation, he attended the Hydrology and Environmental Geology School at Oklahoma State University.

In 1996, obtained employment with the Kansas Corporation Commission and remained there until September 5, 2008 when he retired.

Looking back on his extremely wide range of experience as a geologist, there isn't any doubt in Bill's mind that, if he had it to do over, he would still be a geologist. His advice to a young geologist entering the field is "get all the experience you can and stay in the field".

Bill is a member of the AAPG and with the KGS, in the past; he has served on the Licensing Committee and the Nomenclature Committee.

He has been involved in other activities outside of the profession including serving on the Board of Trustees of the Methodist Church, and as a City Commissioner in El Dorado.

Bill has other interests of note: he writes poetry, and he recently authored an article in the "The Crown Block", the Butler County History Center Newsletter concerned with early day rooming houses in El Dorado, inspired by the fact that both his maternal and paternal grandmother's owned and operated these historical houses.

Norma and Bill have traveled extensively in the United States, Europe, Africa, and China and plan to continue the activity.

This profile doesn't really do justice so someone who has been active in practically all phases of geology: engineering, petroleum, environmental, etc. and has had interesting activities outside of the profession.

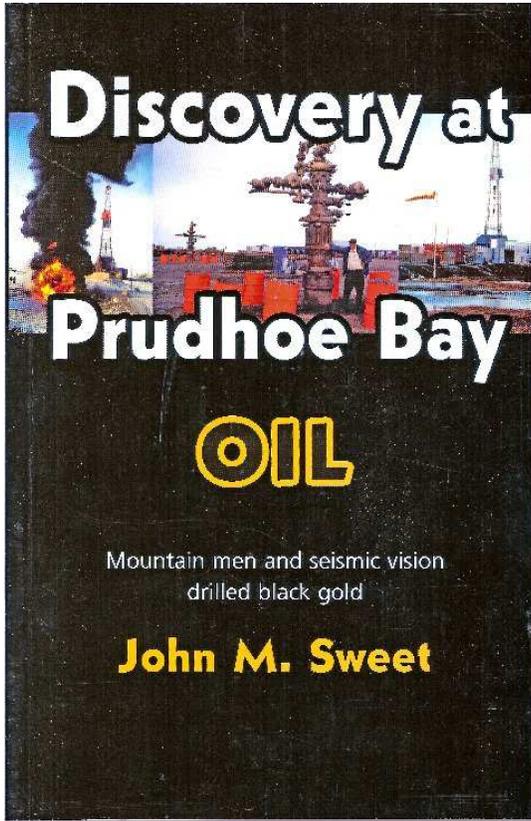
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BOOK REVIEW

by James E. Barkdull

Discovery at Prudhoe Bay—Oil—Mountain Men and Seismic Vision Drilled Black Gold by John M. Sweet (Hancock, 312 pp. \$19.95)



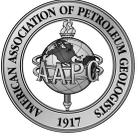
This is the story of early adventurers sleeping under wolf skin blankets, shivering while trekking across ice and tundra in 1900, and whose findings ultimately led their followers along the greatest path of petroleum exploration geology. Atlantic Richfield Company, ARCO, followed this path and found the Prudhoe Bay Oil Field, biggest in North America and probably never to be surpassed on land.

John M. Sweet has written the first history of the Prudhoe Bay oil discovery. This is the inside story that lets you experience the cold, the logistics, and years later, after the decisions are made to drill or not to drill, you are given a pass into the boardrooms – you are a mouse in the wall. If you are an exploration petroleum geologist as I am, you soon realize that this is a ‘page-turner’. But for the non-oil folks, John successfully treads the line between the reader off the street and geologists who were not involved – “for the man on the street I tried to give enough Geology 101 for them to understand what oil exploration is all about.” Petroleum folks understand what exploration is all about, but we have not tuned in to the general population that only sees us at the gas pump. They will find this book clarifies objectively, the whys and

wherefores of the basic and essential talents of oil industry personnel, both stubborn and optimistic at the same time, but totally dedicated to their charge – FIND OIL. Some finds are big like the Prudhoe Bay Field. Some finds are small, but these don’t make the news.

John Sweet’s book begins with a bang with a forward by Walter J. Hickel, Alaska’s second governor. Quote: “This is the story of one of the greatest adventures of the twentieth century.” That is putting it mildly. John’s beginning simply states the obvious, “The inside story leading to the discovery of the Prudhoe Bay oil field has never been told.” Readers will be surprised that there is much to be learned. I have known John for more than fifty-one years since my earliest days as an employee of The Atlantic Refining Company (now morphed to ARCO). I broke out in 1957 in Dallas. In a few months our paths crossed in Billings, Montana, where John was promoted to District Geologist and I transferred to Billings barely knowing which end of a pencil was used to make a contour map. John got me clued in shortly. He has an innate ability to get the most and best out of his associates and that attribute certainly was drawn upon many times in the quest to find oil on the North Slope.

Ask anyone on the street what they can tell you about Alaskan oil. The answers, if any, will be parsed into just a few key words - Prudhoe Bay, ANWR, the Trans-Alaska Pipeline, and the Exxon-Valdez oil spill and that about covers the popular and general knowledge of the subject. Do they know that the U. S. Navy drilled many test wells toward the end of WW II and found some oil, but not in commercial quantities? And, circa 1960, do they know the earliest efforts undertaken to learn about the North Slope geology that eventually lead to the discovery began six decades earlier in 1900? Did they know of the two large oil seepages near Pt. Barrow at the northern tip of Alaska? Doubtlessly, it was centuries ago that the first Eskimos saw those seepages, but it wasn’t until the beginning of the twentieth century that the Eskimos told a government school teacher in Barrow, Alaska, about the seeps. They were easy to find because they were flowing from two large mounds over fifty feet high and about 200 feet in diameter. By word-of-mouth this news got back to geologists and prospectors alike. It got to the U. S. Geological Survey folks probably around 1910 who then approved to outfit an expedition to explore northwestern Alaska from the central interior north across the Brooks Mountain Range to Barrow, Alaska. Thus began the long involvement of the USGS in studies that culminated in the Prudhoe Bay oil discovery. But their interest was not to find oil, but to assist in the search for



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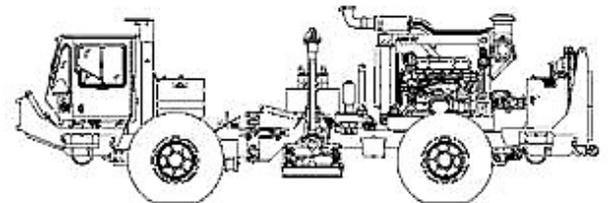
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MEET THE CANDIDATES

Vice President 2009 / President Elect 2010



Rick Saenger

Education:

B.S. Math, North Texas State;
B.S. Geology, University of Houston;
19 hours graduate studies.

Professional Experience:

Hedke-Saenger Geoscience, Ltd.—presently
Mull Drilling Company
Mustang Oil & Gas;
J.M. Huber Corp.;
Mobil Exploration Co., Inc.;
R. Brewer & Co. Consultant;
Professional Geophysics, Inc.— Seismic Data Processing.

Professional Affiliations:

Kansas Geological Society, AAPG; SEG.

KGS Board and Committees:

Shooting Tournament Committee.



Robert Stolzle

Education:

B.S., Geology, 1972,
L.S.U., Baton Rouge, LA

Professional Experience:

Consulting Geologist—1985-Present
Foundation Resources
Team Resources Corp.
Anschutz Corporation
Staff Geologist—Kenai Oil & Gas, Inc. 1982-1985
Exploration Geologist—Terra Resources, Inc. 1980-1982
Exploration Geologist—MAPCO, Inc. 1978-1980
Geologist—R.R. Thorup Consulting Geologists 1972-1978

Professional Affiliations:

Kansas Geological Society
Licensed Kansas Geologist #278
AAPG Certified Professional Geologist #5692
Society of Petroleum Engineers

KGS Board and Committees:

KGS Board Director 2007-2008

MEET THE CANDIDATES

Secretary / Treasurer 2009—2010



David Clothier

Education:

B.S., Geology, 1980
University of Kansas

Professional Experience:

Geological Manager—McCoy Petroleum Corp. 2007-present
Senior Geologist—McCoy Petroleum Corp. 2004-2006
Consulting Geologist—1998-2004
Staff Geologist—McCoy Petroleum, 1993—1998
Consulting Geologist—1983-1993
Staff Geologist—Texas Oil & Gas, Wichita, 1980-1983

Professional Affiliations:

Kansas Geological Society
Oklahoma City Geological Society
AAPG
KIOGA

KGS Board and Committees:

KGS Banquet Chairman



David Withrow

Education:

B.A., Geology,
Wichita State University, 1986;
M.B.A., Wichita State University, 1989

Professional Experience:

Managing Partner,
Edison Energy, L.L.C., since 1995
Vice President of Exploration,
Oil Producers, Inc., since 2001
Petroleum Geologist,
Hugoton Energy Corp., 1988-1995

Professional Affiliations:

Kansas Geological Society, 1988-Present
AAPG #484050, 1984-Present
Licensed Kansas Geologist #158

MEET THE CANDIDATES

Board Member At Large 2009—2010



Photo courtesy AJ Photography

Timothy Hellman

Education:

B.A. Geology, 1980 -Wichita State University
Post Graduate Classes

Professional Experience:

Lotus Exploration Co. & Lotus Operating Co. 1997—present
Raymond Oil Co., Inc. –Exploration Manager, 1980-1997
Staff geologist 1976-1980

Professional Affiliations:

Kansas Geological Society, AAPG, KIOGA,

KGS Board and Committees:

AAPG – Member, 1978 - present
AAPG-Division of Professional Affairs, 1988-present
Kansas Geological Society-Board of Directors: 1991-1992
Kansas Geological Foundation – Charter member
Director- 2006-09, Secretary – 2008-09
Kansas Nomenclature Committee – 1989-1993
KIOGA-Board of Directors 1997 to Present
Petroleum Club of Wichita – Board of Directors, 2004-2009
Petroleum Club Secretary 2004-07, President 2008-2009
AAPG-DPA, Certified Petroleum Geologist #3978



Robert O'Dell

Education:

B.A. Geology, 1979, Wichita State University

Professional Experience:

Independent Geologist, 2004—present
O'Dell-Tomlinson Exploration, 2000-2004
Kansas Geological Survey, 1998-2000
McCoy Petroleum, 1986-1988
Independent Geologist, 1986-1988
Sid Tomlinson Exploration, 1982-1986
Raymond Oil, Staff geologist, 1977-1982

Professional Affiliations:

Kansas Geological Society, AAPG, KS Licensed
Geologist #276

KGS Board and Committees:

KGS Board Member At Large, 1986-1987
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Awards, Future Plans, Library, Picnic committees.

Kansas Geological Society

Annual Business Meeting

Tuesday

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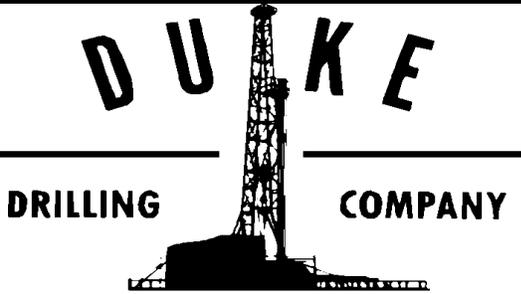
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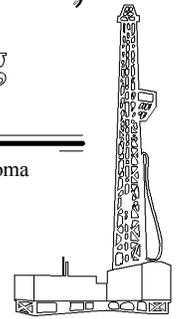
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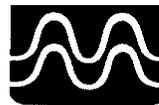
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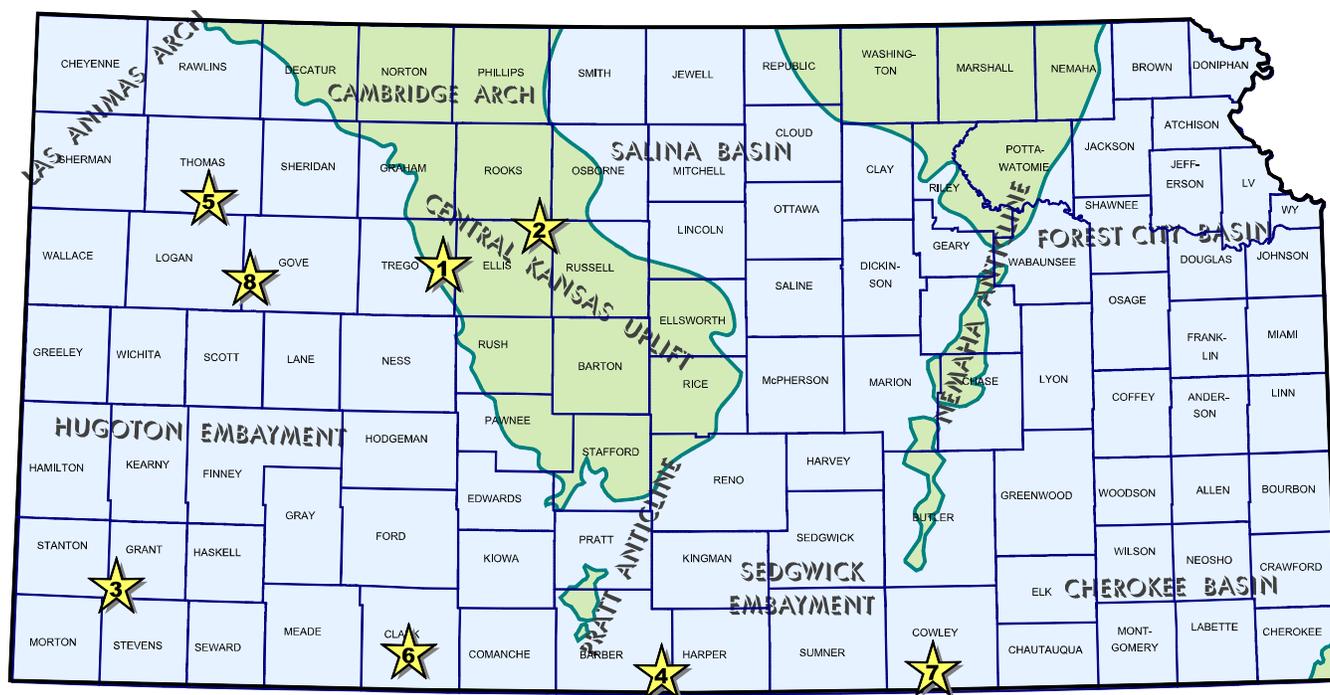
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Exploration Highlights

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



(1) DaMar Resources, Inc., Hays, Kansas, has added lower Cherokee Conglomerate Sand oil production as a new pay source in the Locker North field in Trego County. The firm has completed it's Bongartz-Augustine #2, SW/4 of section 29- T13s-R21W, for 124.5 barrels of oil per day with only a trace of water. The well topped the lower sand zone at 4093 (-1779 KB) and is producing 39 degree gravity crude from perforations shot at four holes per foot from 4094 to 4098 ft. Production is natural. Discovery Drilling tools drilled the well to a total depth of 4179 ft. The well never found the Arbuckle formation. Field area is located about seven and one-quarter miles southeast of Ogallah, Kansas.

(2) Lansing-Kansas City oil deposits have been discovered at the Dinges #15-1 in Ellis county. Operated by IA Operating, the new field wildcat is producing an unknown amount of crude over one mile east of the Lieb East field which has produced oil from the Shawnee, LKC and Arbuckle zones since 1957. Discovery site lies in the NE/4 of section 15- T11s- R16W.

(3) Presco Western LLC is producing oil and gas from the Mississippian Saint Louis formation at the #5-L (18-30-38) Bond in Grant county. The wildcat well was drilled to a total depth of 5988 ft. in the SW/4 of section 18- T30s- R38W, over one and one-half miles east of the Nich (Morrow) oil and gas field in Stanton county.

(4) A new Mississippian oil field has been discovered in Barber County by VAL Energy, Inc. of Wichita, Kansas. New discovery was made at the #1-21 Logan Unit, located in the SW/4 of section 21- T34s- R10W, about one mile southwest of the town of Hazelton. The wildcat well was drilled to a total depth of 4831 ft. in June this year by company Rig #5. The well was placed on the pump on August 11th at an undisclosed rate. Site lies over one mile south of the established Hazelton Townsite field, which was discovered last year by Chieftain Oil Company. The field also produces oil and gas from the Mississippian formation.

(5) In Thomas County, about three miles northeast of the town of Monument, a new unnamed oil field has been established by Wichita-based McCoy Petroleum Corporation. Operator has completed the 1-35 James A for an undisclosed production volume at site located in the SE/4 of section 35- T10s- R33W. The 4762 foot deep well found oil deposits three-quarters mile northeast of the Cook Northwest field where the Lansing-Kansas City and Cherokee zones have been productive since 1991. The pay source for McCoy's new find has not been reported.

(6) MIDCO Exploration has completed the #1-30 Johnson 'A' as a Mississippian gas well in the SW/4 of section 30- T33s-R23W, in Clark county. The new unnamed field discovery lies one and one-quarter miles north of the multipay Keiger Creek field. Production volume is unknown. The well was drilled to a total depth of 5558 ft.

(7) A new Mississippian oil field has been established one mile west of the Albright field in Cowley county by McGowan Oil Company. New discovery was made at the Christenson #1, NE/4 of section 9-T34s- R5E. The well was put on pump in August at an undisclosed rate. Total depth was 3575 ft.

(8) In Gove county, Lario Oil & Gas Company has completed the Thies Ranch #1-19 for an undisclosed daily potential in the SE/4 of section 19- T14s- R31W. The wildcat well was drilled to a total depth of 4635 ft. at site located two and one-half miles southeast of the recently opened Maurice oil field (Marmaton) in Logan county.



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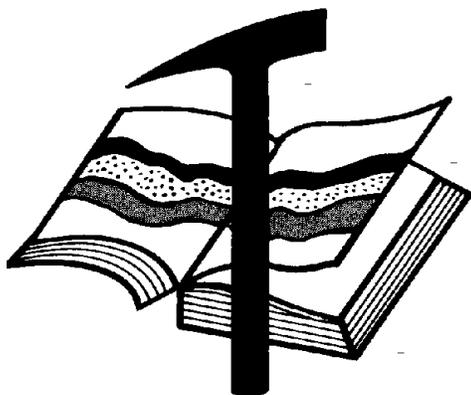
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gold and that's another story.

John's has organized his book into 16 chapters, each in itself a comprehensive short story characterizing the steps, taken in historical order of the geological studies of northern Alaska, beginning in 1900 with oil as the ultimate objective, and which headed to the discovery.....the ARCO-Humble *Prudhoe Bay State No. 1* "spudded" on April 22, 1967 at 7:30 in the morning.

Included maps, geological cross sections and photographs provide the reader with visuals of the early surveys and surveyors, explorers, scenery, rivers, mountains, and concomitant color photos that take you into the 60's with planes, mountains, roads, and the exploration folks. The reader will be especially entertained while viewing photo #18 on page 216 – a picture of a large rock to wit: Photo 18. A large example of a large oil-stained rock from the Arctic National Wildlife Area (ANWR) – HmMMMMMMMM! (the HmMMMMMMMM! is the reviewer's).

Lastly let me skip to a day in the life of well-site geologists Marvin Magnus, ARCO senior geologist William C. Pentilla, and staff geologist Robert Anderson. In oil jargon they were "wellsitters." These guys watch the drilling penetration rate and make a microscopic evaluation of the drill cuttings looking for oil shows 24/7. If they see an increase in the drilling rate they can stop the drilling long enough to circulate the cuttings from that depth to the surface for a more detailed examination under the microscope and with the help of a ultra-violet light. And here is some of the Exploration Geology 101 for non-oil folks. "Oil causes a yellow-to-gold fluorescence when viewed under a fluorescent light. Carbon tetrachloride is a solvent (today lighter fluid – yesterday carbon tetrachloride – parentheses mine) that will free or release the oil from the rock fragments. This will, in turn, cause a streaming cut, which will show up under the fluorescent light. In a glass sample dish, about a couple of inches in diameter, it might look something like a small yellow or gold stream. It is actually the oil released from the rock floating on water. Occasionally, if there is enough oil and the rock releases it easily in the presence of carbon tetrachloride, one may see very small globules of oil. Ordinarily, gas shows are the first good indications of hydrocarbons (oil and gas) because gas is liberated more easily from rocks than oil is."

Drill cuttings are also examined by chromatography. The samples are ground up in a blender and fumes from the blender are sucked through a gas chromatograph. If hydrocarbons are present they are recorded on a chart that displays the various hydrocarbon components. Here is what Bill Pentilla said about the gas shows.

"Our procedure in examining the drilling mud and cuttings was to place a certain measure of drill cuttings and mud in a blender,

agitate it for a very short duration, then read [with the chromatograph] the resulting content of the blended mixture. We very soon abandoned this procedure while drilling the Sadlerochit gas and oil reservoir because the resulting gas content was so high the blender would blow its top when the switch was thrown to take a reading. Mud and cuttings would be splattered on us and everything in the mud logging trailer."

John's story goes on with added emphasis projected toward the reader of his profound excitement – that is to contemplate you are an integral part of a major discovery. There cannot be enough superlatives to recreate his work in any but his own words. His early reserve estimate of the discovery well projected oil pay was 2.3 billion barrels of oil. The Prudhoe Bay field ultimately covered about 200 sections (one section is one square mile) with 13 billion barrels of recoverable oil. He said that no one was going to believe this. Subsequent drilling on the Prudhoe Bay structure found many development wells that produced at an initial rate at 24,000 barrels per day, and then some. The Prudhoe Bay fields area today provide 17% of our daily oil demands and all the \$\$\$ stays in the U. S. of A.

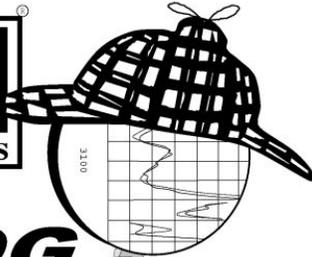
And then there's the 800 mile pipeline and off loading facilities at Valdez. WOW! What a trip.

But for the rest of us, there is no more entertaining reading of a true adventure fully documented and realized in this book.....

Respectfully submitted,
James E. Barkdull

Note: Mr. Barkdull is a KGS member and petroleum geologist living in Colorado.





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December 2008

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