



NEWSLETTER

March 2016

MGS Luncheons:

March 15th : Barney Issen presents *Technology and Innovation Are the Engines That Create Exploration Opportunities: Examples From the Deep Water Gulf Of Mexico* page 5

April 26th : Stuart Parker presents *Polycyclic Quartzite Conglomerates of the Northern Basin and Range Province* page 6

Members can RSVP by email or by calling Doretta Brush at Ballard Petroleum 406-259-8790

All meetings are held at the Billings Petroleum Club at 11:45 a.m. unless otherwise noted

MGS HOME PAGE:
<http://mtgeo.org>

MGS EMAIL:
montanageologicalsociety@gmail.com

Other Announcements:

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- 2016 Short Course: IT'S NOT TOO LATE TO SIGN UP! page 4
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MGS Membership,

MGS Vol. 60 No. 3

I've been up to my ears in science projects. A young man in my neighborhood needed help selecting consistent samples of Eagle Sandstone and then cutting them up into uniform sizes and shapes. The daughter of a running buddy of mine needed help with fossils, and one of my scouts asked for rock samples and help on understanding fossil fuels. My own sons have been doing their best to keep me busy. One hiking me all over the Pryor Mountains to test the radioactivity of caves there and the other hiking me up and down the headwall of Bear Creek, East of Red Lodge to study headward erosion. If I have to hike up one more muddy slope, I might have to kick him out of the herd. My oldest son has been hiking up and down the Four Dances Natural BLM Park on top of Sacrifice Cliffs to inventory dead, sick, and healthy trees, which he claims can only be done with my iPhone. "Sorry dad, I didn't mean to drop that rock on it... I think I can tape it back together."



So you'd think with the recent warm weather, kids' minds would rather wander to swimming pools, video games, camping, or just trying to forget this past year's curriculum. But that has not been the case! There has been a huge interest in science within Billings youth. So you're probably asking yourself now, what is the cause of all this scientific research? Well it could have something to do with the Science Expo going on Friday and Saturday, March 18-19th. This year 420 students have registered for the competition and of those 108 in high school, the highest number they've had in years!



Didn't someone once say, 'a good science project is hard to find?' Okay, maybe not, but it can be a tricky thing to be sure. The project needs to be exciting enough to engage the budding scientist, yet difficult enough to challenge them to collect relevant data. With data comes its own unique challenges as we all well know. The right data

needs to be collected and then analyzed in order to answer the question(s) they are trying to prove or disprove. The hard part is to make sure that kids aren't left floundering in the dark or at least not floundering too long. Most of all, the student needs enough guidance that they can do the project safely and learn the scientific method in the process but enough independence that they can develop ideas and come to conclusions on their own. They need to learn to fail a little bit, but still have the help to pull their ideas together and not give up. "Remember...chocolate chip cookies, post-it notes, & potato chips were all invented by accident. Don't be afraid to make mistakes!" –Amy Poehler, SmartGirls.

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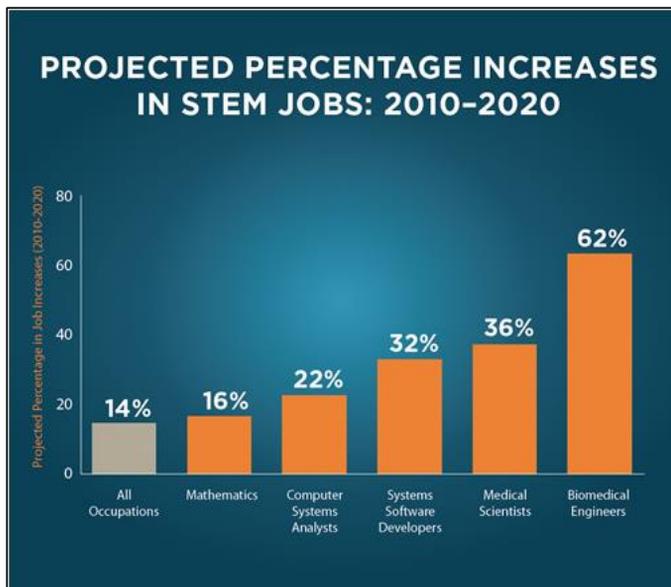
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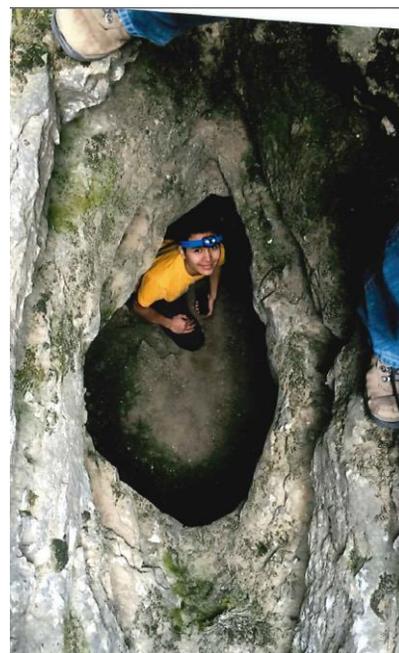
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<http://www.ed.gov/stem>

29th in math and 22nd in science. A 2013 podcast from Claudio Sanchez mentioned the “sobering” results of the Program for International Student Assessment (PISA). He compares it to the movie “Groundhog Day,” where nothing has changed and Bill Murray keeps reliving the same day over and over again. The PISA results for 15 year olds in the U.S. have not changed since 2003! Countries that used to be behind us, i.e., Italy and Portugal, are now catching up. *“We are in a race in the global economy. The problem is not that we’re slowing down. The problem is that the other runners are getting faster,”* says Harvard Professor Jan Rivkin. Even Vietnam, a poorer developing country, now has higher average scores than the U.S. in math and science. Seeing as how STEM jobs are projected to increase in the future, this situation is unacceptable.

Whether our kids pursue careers in science or not, let’s keep on encouraging them to do so. Whatever their career paths take, we want to make sure they are: literate in the scientific process, able to judge claims made in the media or online, think independently, conduct their own research, and formulate their own opinions. Let’s give them the chance to become the innovators, educators, researchers, and leaders of the future who will be the people solving the most pressing challenges facing our nation today and in the future.



I hope that you will take the opportunity on March 18th and 19th of this month to come help judge the science projects that our community’s kids have been working so hard on and help staff the MGS booth. And if you see a kid with a taped up iPhone, you’ll know science is happening somewhere...that, or my kids have taken my iPhone again.

Maybe not all of our kids will be scientists, but I say, why not! We should still encourage them to follow that path. According to U.S. Department of Education, only 16 percent of American high school seniors are proficient in math and have interest in a STEM career. Of those who pursue a college degree in a STEM related field, only about **half** continue to work in that related career.

Unfortunately, United States is falling behind in this department. Our current ranking among industrialized nations is

What is the Science Expo?

- A regional science fair for southeastern Montana sanctioned by the Intel International Science and Engineering Fair (ISEF)
 - Held at the Montana State University-Billings (Alterowitz Gymnasium)
- Has Guest Scientist(s) Lectures and
- Interactive Science Exhibits
 - **A way for the MGS to promote and encourage kids to pursue careers in geology and science!**



***If you are interested in judging student projects on March 18th, volunteering at the MGS booth on March 19th 2016 or learning more about this event, please contact Sarah Edwards at sedwards@sm-energy.com or (406) 869-8763.**

STEM Billings is hosting their third event for elementary school students in the Billings area on the afternoon of April 9 at the Billings Career Center. The event theme is Medical and students from grades K-6 will participate in hands-on activities with professionals in the medical industry including learning how to take vitals, suture, and make prostheses, among other activities. Registration is \$20 and covers materials, supplies, and snacks. Registration is open and filling up fast! To register, go to <http://www.stembillings.org/registration.html>. If you'd like to volunteer at the event, contact Anna Phelps at aphelps@sm-energy.com.





How to Find Bypassed Pay in Old Wells Using DST Data

Monday - Wednesday, March 14-16, 2016

Billings Petroleum Club, Crowne Plaza Hotel Billings Montana

Fee: \$600 members, \$650 non-members; Includes: lunch, workbook, and PDH certificate

Instructor: Hugh Reid

Course Focus For Today's Low Priced Oil Environment

This year a major focus of the course will be how to identify tight oil sand from DSTs to use as candidates for horizontal wells with multi-stage frac's. However we will also identify better permeability zones which are damaged and can be simply re-entered or re-perf'd in a cheaper vertical well. *"No need for an expensive horizontal well where a simple vertical well will do the trick"*. We will also cover using water DSTs to find zones for water disposal wells pertinent today's industry.

Who should attend? Geologists, engineers & technicians who encounter or utilize DST results and reports in their exploration & production decisions. In fact, any professional who needs to make more sense of the numerous old DSTs which are present in so many wells, often with confusing results. Particularly appropriate for those prospecting for bypassed pay using logs and geology, who may wish to verify their conclusions from the DST, or for regional geologists using show maps of DST results.

Objectives

By the end of the course participants should be able to accomplish the following:

- understand DST pressure charts to identify obvious formation damage & depletion (small reservoir) and mechanical problems (eg. tool plugging).
- recognize high vs. low permeability tests.
- understand why data from cores and logs often conflict with DST data.
- "make more sense" of DST results printed in PI well cards and field reports where no chart is available and even estimate approximate permeability & damage in some cases.
- identify presence of limited natural fractures.
- appreciate where recoveries of "oil cut mud" and gas rates of "TSTM" may be significant from an exploration standpoint.
- determine when a gas test is co-producing water.
- identify gas presence even where no gas was reported in certain tests.
- identify potential oil zones from DSTs which recovered no oil (from the chart shape and air blow description).
- estimate the approximate gas rate in DSTs of "GTS TSTM" by knowing the time gas took to reach the surface and the air volume of the test string.
- make a decision as to whether old DSTs can be recompleted as commercial wells today from limited information.

Content

This course is a non numerical introduction to understanding DSTs & DST pressure charts focusing on pattern recognition and practical "quick look" techniques. Numerous field examples & case histories are utilized and theory is kept to a minimum. Course manual contains numerous DST charts which can be used for trouble shooting problem DSTs later. It is a permanent reference source. To avoid problem of attendees forgetting procedures taught at the course, all techniques are given in cookbook format 'fill in the blanks'. A key emphasis of the course is to show how to *identify missed (damaged) pay in competitor's 'dry' wells & additional pay in your own producing wells*. This is an important skill to complement log skills! In summary, the course is designed to provide participants with information not normally encountered in routine service company training seminars and to impart some interpretive skills gained by the instructor in over 25 years of experience.

Class Descriptions and Register Online: www.pttcrockies.org

For more information, contact Mary Carr, 303.273.3107, mcarr@mines.edu

Supporting Billings Art and Film

Due to its popularity this past week, the Arthouse will be featuring Makoshika for a second week!

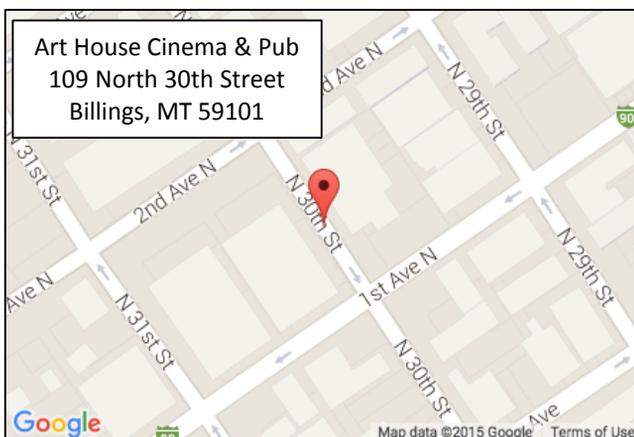
In this film, Billings film makers Jessica Jane Hart (director) and Pete Tolton and Stan Parker (producers) explore the boom-bust cycle that has happened in Eastern Montana and North Dakota as well as highlight the downturn in activity currently going on in the Williston Basin. Makoshika tries to capture the stories of diverse communities and characters experiencing today's oil boom/bust, while diving into its history to understand this fascinating region.

Last Sunday, March 6th 2016, Billings novelist Russell Rowland read a few excerpts from his new book titled 56 Counties in order to prime the audience prior to the featured film. For this book, Rowland visited all 56 counties in Montana in order to capture the unique history of major industries that have shaped the state (i.e., farming, mining, ranching, timber, railroad etc.). One of the excerpt he chose was about the mining industry and the Berkley Pit in Butte, Montana, one of his favorite places. His eloquent depiction of driving into Butte from the East vs. West is sadly comical yet vividly accurate. What was once the pride of the United States for being the largest copper mine transitioned into a huge liability. Rowland phrases it perfectly, *"it's where commerce and capitalism meets conservationism."* Based on a few of these excerpts, Rowland's book is filled with Montana's rich and unique history and sounds like an excellent read for native Montanan's and transplants alike.



It is with hope that since many of our members in the MGS either work for or have previously worked in petroleum and other commodity driven industries, to take the time and view this film and support local art and authors whether you agree or disagree with their positions. After attending these events, it is amazing to hear the open discussions and view points as well as bring to light our own insights and facts about our industry. It continues to shock me how people in our town that are outside our industry still do not know how these resources impact our daily lives and communities but also how many times they are just not informed and very much so willing to learn and listen to the facts. We just need to be there to foster that discussion. So get out there and tell 'em!

The Art House cinema is a cozy little theatre downtown that typically show independent films and serve popcorn, snacks, and have a beer/wine selections.



Makoshika movie showings: 3/11 (6PM); 3/12 (1:15 & 6PM); 3/13 (3PM); 3/16 (6PM); 3/17 (6PM)

For more information, trailers or further literature, visit:
<http://arthousebillings.com/>

http://billingsgazette.com/entertainment/movies/review-makoshika-is-compelling-montana-story-worth-a-look/article_92821deb-f965-516b-b384-831c6759df2a.html

http://missoulian.com/news/state-and-regional/author-visits-all-counties-to-tell-story-of-montana/article_782a1bb2-32ce-57f9-a5a6-53ae40f72761.html

<http://www2.fiu.edu/~srimal/Pollution/PFHT.html>

MGS Luncheon Meeting

Tuesday, March 15th 2016

11:45 am – Billings Petroleum Club

Please join us for lunch (\$14) and the talk (no charge)

RSVP – montanageologicalsociety@gmail.com, or 406-259-8790

An email reminder will be sent 3 days prior to the talk



Barney Issen

AAPG Distinguished Lecturer

Chevron

Abstract: Technology and Innovation Are the Engines That Create Exploration Opportunities: Examples From the Deep Water Gulf Of Mexico

The deep water Gulf of Mexico play is a classic textbook example of an opportunity that simply would not exist without constant technical innovation. Variations of this talk have been used to explain our industry to people without any science background; for this Distinguished Lecture series it has been modified to be more suitable for earth scientist audience that is perhaps more familiar with the production environment than with “big-E” Exploration.

Biography

Barney’s academic work at the University of Arizona emphasized hard-rock (mineral) geophysics, planetary science, and tectonophysics, so he entered the oil industry with few preconceptions beyond the Wave Equation. In 3+ decades with Chevron, he has witnessed and helped to nurture the emergence of 3D seismic data, depth imaging (first post-stack, then pre-stack), earth modeling, and visualization.

Barney actually does play a geophysicist on TV, appearing in the Chevron “We Agree” ad campaign, as well as representing Chevron (and, by extension, our industry) in interviews with NBC Today, ABC 20/20, PBS Nightly Business Report, CNN, Fox News, NPR All Things Considered, NY Times, Wall Street Journal, Financial Times, Houston Chronicle, Contra Costa Times, Newsweek, Forbes, Wired, and MIT Technology Review. - See more at: <http://www.aapg.org/career/training/in-person/distinguished-lecturer/details/articleid/23157/barney-issen#sthash.7ow4rHLb.dpuf>

MGS Luncheon Meeting

Tuesday April 26th, 2016

11:45 am – Billings Petroleum Club

Please join us for lunch (\$14) and the talk (no charge)

RSVP – montanageologicalsociety@gmail.com, or 406-259-8790

An email reminder will be sent 3 days prior to the talk



STUART PARKER

Master's Candidate, Structural Geology/Tectonics

2015 MGS Scholarship Award Recipient

University of Montana

Missoula, Montana

Polycyclic Quartzite Conglomerates of the Northern Basin and Range Province

The Late Cretaceous Beaverhead Group crops out across much of southwest Montana and Idaho. The Divide quartzite conglomerate unit has long been assigned to the Beaverhead Group but has never been directly dated. A consistent northerly transport direction within the Divide unit is anomalous to the Beaverhead. Interbedded Kilgore Tuff (4.5 Ma) suggests deposition into the Pliocene. These conflicts with age and source suggest that the Divide unit is a much younger deposit than the Cretaceous Beaverhead. This study will provide a revised interpretation for the Divide unit, highlighting the complex geological history of recycled quartzite from the Cretaceous to the present.

Evidence for a Tertiary, rather than Cretaceous, age demands a reinterpretation of the structural evolution of this gravel deposit. This presentation will provide an alternative model for recycling of Laramide conglomerates, syntectonic deposition in the Tertiary and ultimately emergence of an active Centennial shear zone in the Quaternary. This model for sedimentation and deformation, will be used to improve our tectonic timeline for the region. Recycling of persistent quartzite cobbles throughout the region has long been overlooked and misinterpreted. This investigation will use subtle changes within these multi-cyclic deposits to address multiple phases of extension and ultimately shear within the northern Basin and Range.

Biography

Stuart Parker is a graduate of the University of North Carolina – Asheville (2014). During his undergraduate career, his time was split between the greater Yellowstone area and the Appalachians. Through the National Student Exchange program, he studied at Montana State University, where he gained an interest in Basin and Range tectonics and the Yellowstone Hotspot. While in Asheville, he worked with the NC State Minerals Research Lab, focusing on pilot plant design. Currently, Stuart is pursuing a Master's degree at the University of Montana. In the coming months he will present his thesis to the department before spending his summer instructing in the field.

What's Happening in and around Billings?

Billings Gem and Mineral Club is hosting their Annual Show again on April 30 and May 1st!

Admission: \$3 (for 12 yrs. and above)

The Billings Gem and Mineral Club is a non-profit organization devoted to the study of Mineralogy, Geology, Paleontology and the Lapidary Arts.

For more details, check out their website regarding other events, field trips, and club meetings coming up. <http://www.billingsgemclub.com/?page=events>

Events: 2016 Club Meetings

April 3rd, 2016

June 5th, 2016

August - Club Picnic

September 1st, 2016

October 6th, 2016

November 3rd, 2016

December: Holiday Pot Luck/Swap Meet

Field Trip Opportunities

•May 20-22, 2016

BGMC Field Trip to Blue Forest in the Eden Valley, Wyoming

•July 29-31, 2016

American Federation of Mineralogical Societies annual show

Billings Gem and Mineral Club Annual Show

Vendors from around the Northwest

Beads, Jewelry, Fossils

Silent Auction

Activities for Kids

Educational Displays



Fairburn Agate

Saturday April 30, 2016 10 AM – 5 PM

Sunday May 1, 2016 10 AM – 4 PM

Al Bedoo Shrine Auditorium

1125 Broadwater Avenue

Billings MT

Past Presidents Dinner

Well it was definitely a roasting that will live in infamy! Our Past President Mark Millard was given the proper send off with quality roasting... as you can see from the flames!



One cannot easily forget Mark's presidency as most of his talks and ideas were typically followed by some sort of gimmick...usually pertaining to sweets (aka cookies). So this year, we decided to switch up the MGS Past President Award which would compliment his charismatic nature. It definitely didn't have anything to do with low oil prices.



Just kidding, we did give him the actual award... eventually. Mark and Erica Millard, aka Plots and Rocks posing with the real MGS Past President's Award. Thanks again Mark for all your hard work this year!

Teacher of the Year Award for 2015

Catherine Frazer of Absarokee Jr/Sr High School was the 2015 recipient of the Montana Geological Society (MGS) K-12 Earth Science Teacher of the Year Award. Ms. Frazer has taught science for 22 years mostly grade 7-9 Life Science, Earth Science and Physical Science. She believes her students learn best with a variety of teaching methods from traditional lectures to hands on labs and fun activities. Each year Ms. Frazer goes beyond her required teaching duties to have her students compete in local and regional science fairs, Science Olympiad, and Science Bowl.

Absarokee Schools have received generous support from Stillwater Mining Company, and many of the students have family members who are employed there. Although only a few from each graduating class may end up working in mining, Ms. Frazer understands the importance of teaching Earth Sciences to all students. Many of her former students have gone into science related fields or to work in industry, but they all remember her field trips and fun activities. Ms. Frazer received the \$1000 MGS award in December and is eligible to apply for additional awards up to \$8000 through the American Association of Petroleum Geologists (AAPG).



Adventures in Learning

Trying to plan a fun family vacation this summer but don't know where to go? Want to set your inner paleontologist free? Are you a student looking to get a jump start in a career in earth science? Then look no further than **ADVENTURE 360!**

ADVENTURE 360 is a nonprofit organization promoting unique and authentic learning experiences for adults, families, students and educators. Participants can be scientists, researchers, college students studying in the field of earth science or just adults that want to realize their childhood dream as a paleontologist or archaeologist. It's families looking for vacation learning experiences and creating lasting memories. Or high school students interested in careers in science. Or educators wanting to expand their professional knowledge and curriculum to better engage today's youth. Most importantly, *people like you with an enthusiasm for unique adventures, exploring authentic learning opportunities and actively experiencing your world in new and exciting ways.*

ADVENTURE 360 has partnered with the [Bureau of Land Management](#) to offer the Paleo X Family Adventure days free for all Montana residents as part of the '[GET OUTSIDE MONTANA](#)' initiative.

So sign up today! Click on the website below to register for the dinosaur dig. It's free to the first 10 different people each day June 27 – July 1 through Get Outside Montana.

<http://www.adventure-360.com/#!paleo-x/cq4e>

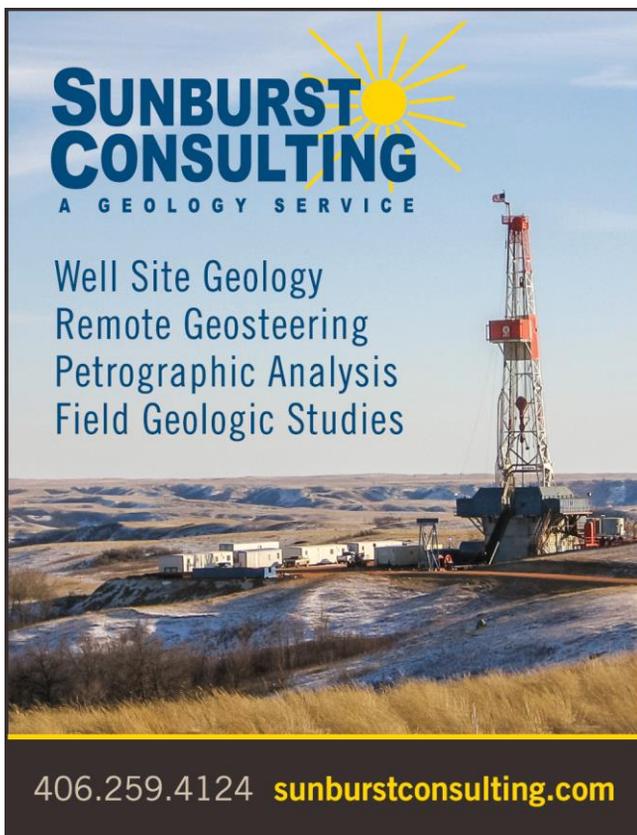
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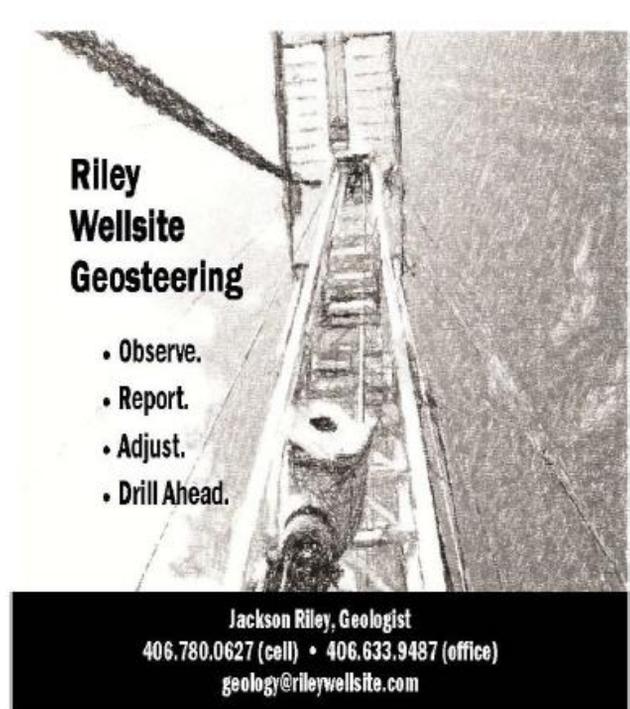
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2006 Montana Oil & Gas Fields CD		\$65.00	
2006 AAPG Datapages - MGS Publications DVD		\$180.00	
2006 AAPG Datapages - MGS Publications DVD (MGS Member price)		\$150.00	
2000 50th Anniversary Symposium		\$125.00	
1998 8th Int'l Williston Basin Symposium		\$55.00	
1998 8th Int'l Williston Basin Symposium Core Workshop		\$30.00	
1997 Big Horn Basin Symposium		\$50.00	
1997 MGS-TRGS: The Edge of the Crazyes		\$25.00	
1997 AAPG - Rocky Mtn. Section Meeting / Abstract Volume		\$16.00	
1995 7th International Williston Basin Symposium - Core Workshop		\$30.00	
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1995 Big Horn Basin Symposium		\$40.00	
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1993 Energy and Mineral Resources of Montana		\$54.00	
1991 6th International Williston Basin Symposium		\$55.00	
1991 Geology & Horizontal Drilling of the Bakken		\$50.00	
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1991 Sequence Stratigraphy of Eagle Sandstone		\$7.50	
1990 Bakken Workshop Short Course Study Notes #1		\$12.00	
1989 Geologic Resources of Montana		\$80.00	
1986 Geology of the Beartooth Uplift		\$45.00	
1985 Montana Oil & Gas Fields		\$55.00	
1984 Northwest Montana & Adjacent Canada		\$45.00	
1978 Economic Geology of the Williston Basin		\$100.00	
1971 Stratigraphic Names of Montana		\$10.00	
1957 BGS 2nd Annual Centrail Montana Field Conference		\$12.50	
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