**Dinner Meeting: Thursday, Feb 6, 2014**

**Speakers:** Lowell Price, NDOM, Carson City  
John Menghini, BLM, Reno

**Topic:** Hydraulic Fracturing Updates in Nevada

**Place:** Ramada Reno Hotel  
1000 East 6th Street, Reno, Nevada

**Cocktail Reception 6:30; Skyline Room, 14th Floor**

**HOSTED BY:**

**Buffet Style Dinner Served at 7:00 PM**  
Baked Chicken, Flank Steak, Baked Potato, Vegetables, Salad, Dessert

**Dinner Costs:**  
NPGS Members $20; Non-Members $23; Students $10

RSVP at the following link to make reservations for the Feb 6th Dinner Presentation:

[https://docs.google.com/forms/d/1Ea2MIl0PI4q25WHs_hTnNeah8QX4UT9W06YCwqfxsw4/viewform](https://docs.google.com/forms/d/1Ea2MIl0PI4q25WHs_hTnNeah8QX4UT9W06YCwqfxsw4/viewform)

**SEE CALENDAR Pages 21-22 for upcoming meetings**
Title: Proposed Hydraulic Fracturing Regulations
Lowell Price, NDOM Carson City
Lowell will be discussing the proposed hydraulic fracturing regulations. Topics to be included will cover proposed water sampling, NDEP involvement, well bore construction requirements, chemical usage and reporting, handling, storage and disposal of hydraulic fracturing back-flush, and scheduling of regulatory changes and workshops within our region.

Title: The Game Changer- Hydraulic Fracturing
John Menghini, BLM, Reno
John’s presentation is an overview of hydraulic fracturing techniques, recent developments in Nevada and the status of the Federal Hydraulic Fracturing regulations.

About the Speakers:

Lowell Price, Oil, Gas, and Geothermal Program Manager
Nevada Commission on Mineral Resources, Nevada Division of Minerals
400 West King Street, Suite 106, Carson City, NV 89703-4212, lprice@govmail.state.nv.us
Lowell Price received his Bachelor’s degree in Geology from the University of Texas at Arlington in 1978. As the Oil, Gas, and Geothermal Program Manager for the Commission on Mineral Resources, Nevada Division of Minerals in Carson City, Nevada, he oversees oil, gas, and geothermal permitting and drilling activities within the State of Nevada. Prior to the Division of Minerals, Lowell was Operations Geologist for Epoch Well Services and Horizon Well Logging, performing well site geology in Nevada, California, Alaska, Belize, and Guatemala.

John R. Menghini, Oil and Gas Program Lead, State Petroleum Engineer
Bureau of Land Management, Reno, Nevada
Nevada State Office, 1340 Financial Blvd, Reno, NV 89502-7147, 775-861-6573
John is responsible for program development, budget, drilling permits, unitization and communitization, drainage, reasonable foreseeable development for NEPA documents and all engineering operations for geothermal activity. He holds degrees in petroleum engineering and business administration from the University of Wyoming.

John began his career as a drilling engineer for Dowell-Schlumberger in Cameron, Louisiana before returning to school to get his degree in business administration. He started his BLM career in Rawlins, Wyoming as an operations engineer later transferring to Casper, Wyoming as an operations/reservoir engineer working for the Reservoir Management Group. In 2003 he moved to the Nevada State Office as the program lead and state Petroleum Engineer.

He has a wide range of knowledge with all aspects of the Federal requirements dealing with permitting and unitization agreements including lease suspensions, unavoidable delay requests, paying well determination and establishment/revisions of participating areas.
► **Cocktail Reception 6:30 Hosted by Barbour Well:**

![Barbour Well Logo]

**Scott Watkins**  
Client Relations  

► **WELCOME NEW NPGS MEMBERS:**

Hinz, Nicholas  
Nevada Bureau of Mines & Geology, UNR  
Reno, NV

McGraw, Michael  
Rain for Rent  
Sparks, NV

► **NPGS Research Awards in Geosciences – 2014 Applications Due Feb 28:**

2014 Scholarship Application flyer in this newsletter.  
For more information [trexler@unr.edu](mailto:trexler@unr.edu)

► **SWITCH – Showing Feb 12 @ UNR:**

The Nevada Petroleum and Geothermal Society, in conjunction with the UNR AAPG Student Chapter, is sponsoring **SWITCH**, a 98-minute film that provides a well-balanced, informative perspective on energy and shows alternatives to how we can transition from the energy that built our world to the energy that will shape our future.

Join us on Wednesday, February 12th, at the Joe Crowley Student Union Theater (3rd level), at 7:00 p.m. We will have a Q&A Session after the viewing co-moderated by Jerry Walker, P.G., and Dr. David Boden, Chair Physical Sciences, Professor of Geoscience, TMCC and part of the faculty for UNR’s Renewable Energy Department. [See the flyer in this newsletter for more information.](#)

► **Upcoming Nevada BLM Geothermal Lease Sale; Sep 9, 2014:**

Deadline for Nominations for this sale was Jan 31, 2014.

Scheduled BLM Oil & Gas Lease Sales: Parcel listings are available.

Nevada’s Competitive Oil & Gas Lease Sale Schedule (Tentative)

<table>
<thead>
<tr>
<th>Sale Date</th>
<th>Parcels Offered for District Office at Sale</th>
<th>*EOIs Due</th>
<th>Sale Posting Date</th>
<th>Protest Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 17, 2014</td>
<td>Battle Mountain</td>
<td>September 13, 2013</td>
<td>April 14, 2014</td>
<td>May 16, 2014</td>
</tr>
</tbody>
</table>

*EOI = Expression of Interest

NOTE: This is a revised schedule. For a listing of parcels for the June & July sale, use the following link:


AAPG Rocky Mountain Section Annual Meeting:

July 20-22, 2014 – Denver Convention Center, Denver CO
Call for Papers included in this newsletter – EXTENDED Deadline Feb 15, 2014.
www.aapgrms.org

News from Nevada Bureau of Mines & Geology: From: Charlotte Stock

2014 NWRA Annual Conference–Panel with Jim Faulds
What: 2014 NWRA Annual Conference
When: February 3–6, 2014
Where: Tuscany Suites & Casino, Las Vegas, Nevada
http://www.nwra.org/event-information

Panel: Economic Perspective on Water Resources and Energy
Wednesday, February 5, 2014 3:45 p.m. – 5:15 p.m.
Discussion of the role of the economics of water resources within the context of the profitability of geothermal and other renewable energy development in Nevada, and related natural resources. Perspectives will be given on Regulations, Competing Local Water Uses, Cooperation and Stewardship.
Moderator: Thomas Piechota, Ph.D., P.E., University of Nevada, Las Vegas

➢ James E. Faulds, Ph.D., Director/State Geologist/Professor, Nevada Bureau of Mines & Geology, University of Nevada, Reno, “Why is Nevada in Hot Water: New Approaches to Understanding and Harnessing Nevada’s Vast Geothermal Resources”
➢ Randal Peterson, Manager, Corporate Permitting Group, Ormat Energy Systems, “Geothermal Energy’s Role in Nevada’s Water Future”

NBMG Information Video—Just Posted!
The Nevada Bureau of Mines and Geology conducts cutting edge, societally relevant science that fosters economic development and public safety and involves training of the next generation of geoscientists. Major projects include earthquake hazard studies in the
nation’s third most seismically active state, mineral and geothermal resource assessments, and regional tectonic studies of Nevada’s rapidly evolving landscape.

Learn how the Nevada Bureau of Mines and Geology serves the citizens of Nevada in this informative and beautiful video with audio (produced in cooperation with WebsEdge):
http://www.youtube.com/watch?v=h2MVieeukNg&feature=youtu.be

**New OFR on Eglington Fault—Clark County**
**Open-File Report 13-12**
Evidence for High Contemporary Slip Rates along the Eglington Fault, Clark County, Nevada, by Craig M. dePolo, Wanda J. Taylor, and James E. Faulds, 2013, 8 pages, color, $2.40:
or free online:
http://www.nbmg.unr.edu/dox/of1312.pdf

The Eglington fault in northern Las Vegas Valley is an unusual fault in that it is expressed as a faulted warp at the surface and accommodated a large vertical surface offset (10-14 m) in latest Pleistocene sediments relative to its short length of 11 km. Coupled with a competing hydro-compaction hypothesis for faults within Las Vegas Valley, the earthquake hazard of the Eglington fault has been poorly understood and likely underrepresented. Radiocarbon dates from faulted sediments in the area indicate that the vertical displacement across the fault has occurred in the last ~22 kyr. A preferred vertical fault slip rate of 0.6 m/kyr, and range of 0.25 to 0.9 m/kyr, are estimated using available data. How single event displacements are manifested along the Eglington fault and what the size of those displacements might be is not known, generating uncertainty in estimating the potential earthquake recurrence interval for the fault.

**W.M. Keck Museum Mineral Sale—Fri Feb 7**
The Lady Muckers and Keck Museum will hold a mineral sale this Friday Feb. 7 from 9:00 a.m. to 1:00 p.m. Proceeds of the sale will go towards the ladies’ mining team at UNR.
http://www.unr.edu/keck
Office: 775.784.4528

**SWITCH: Discover the Future of Energy**
**What:** SWITCH: Discover the Future of Energy (film)
**When:** Wednesday, February 12, 2014 at 7:00 p.m.
**Where:** Joe Crowley Theater at the Joe Crowley Student Union, third floor, UNR
http://www.unr.edu/around-campus/facilities/crowley

See the film that’s changing the global energy conversation.

A message from NPGS: The Nevada Petroleum and Geothermal Society, in conjunction with the UNR AAPG Student Chapter, is sponsoring SWITCH, a 98-minute film that provides a well-balanced, informative perspective on energy and shows alternatives to how we can transition from the energy that built our world to the energy that will shape our future.

In SWITCH, Dr. Scott Tinker gets the straight answers to our most controversial energy questions. He explores the world’s premier sites for all energies, coal to solar, oil to biofuels. He talks to the people driving energy today, international leaders of government, industry and academia. In the end, he cuts through the confusion to discover a path to our energy future as surprising as it is practical.

Watch the trailer and get more info at SwitchEnergyProject.com

Click the link below for free tickets:
Seats will be held until 6:50 p.m. Remaining seats will be open to the public after 6:50 p.m.

Join us on Wednesday, February 12th, at the Joe Crowley Student Union Theater (3rd level), at 7:00 p.m. We will have a Q&A Session after the viewing co-moderated by Jerry Walker, P.G., and Dr. David Boden, Chair, Physical Sciences, Professor of Geoscience, TMCC and part of the faculty for UNR’s Renewable Energy Department.
Be sure to bring money to feed the parking meters!

**Parking Meters**
Close-in, short term, day or night parking is available at $1.50 per hour, most can be paid for two hours, however some can be paid up to four hours and some as little as thirty minutes. Meters are located in various areas throughout the campus for your convenience. **Meters are enforced Monday-Thursday 7:30am to 8:00pm** and Friday 7:30am to 5:00pm. Note: Parking at a non-functioning meter will result in a citation.

**Parking Permits**
If you need to come to campus frequently, you may want to purchase a parking permit at the Parking and Transportation Services Department. If your visits to campus are less frequent, you may stop at the Parking and Transportation Services Office and obtain a daily permit. The daily permit price for 2013-2014 is $3 for Green and Blue Zones, $5 for The West Stadium Parking Complex, and $7 for the Silver - Brian J Whalen Garage. **Permit dispensers are located on the top level of both the West Stadium Complex and the Whalen complex for your convenience.** These machines take cash, debit or credit cards. The daily permits go down in price after 3:30pm, $3 for the West Stadium Parking Complex and $5 for the Silver 11- Brian J Whalen Garage. After 5pm, the Silver 11 is reduced to $3 for the remainder of the day. Due to the construction and maintenance in the Brian Whalen Garage, visitor parking may be limited on the top floor of the garage. Visitors may be directed to the meter parking or to the West Stadium Parking Complex during these times.

**UNR Parking and Transportation Services:**
Phone (775) 784-4654
http://www.unr.edu/parking

**W.M. Keck Museum—New Exhibit**
History of Nevada’s second oldest museum to be displayed at Keck Museum

**The “Earthquakes, Chukars and Millionaires: The ‘Mackay Mines’ Story” exhibit will open Feb. 1**
Story by Patrick Harris, Nevada Today, 1/24/2014

A message from Garrett Barmore, W.M. Keck Museum Administrator: You’re invited to experience the new exhibit at the W.M. Keck Earth Science & Mineral Engineering Museum—now through Feb. 1, 2015. Learn the exciting story behind the second oldest museum in Nevada! The exhibit spans three floors! Also, please be so kind to pass on information about our opening reception Saturday February 1, 2014 from 4-6pm. The museum will be providing wine and cheese.

http://www.unr.edu/keck
Office: 775.784.4528

**Discover Science Lecture Series—Feb 6**
Mackay School of Mines grad to talk on trade, technology and environment
Story by Mike Wolterbeek, Nevada Today, 1/28/2014
http://www.unr.edu/nevada-today/news/2013/alan-krause

"Alan Krause, chairman and CEO of MWH Global, whose engineering firm is the lead on the massive Panama Canal Third Set of Locks expansion project, will be the speaker **Thursday, Feb. 6** in the College of Science Discover Science Lecture Series.

Krause, who holds a master's degree in geological engineering from the University of Nevada, Reno's Mackay School of Mines, will present his talk, "**At the Forefront of Trade, Technology and Environment: Designing the New Panama Canal.**"

Admission is free. Lectures are held in the Redfield Auditorium in the Davidson Mathematics and Science Center at the University of Nevada, Reno.”
http://www.unr.edu/around-campus/facilities/davidson
http://www.unr.edu/Documents/around-campus/map_vertical.pdf

Read the complete story here:
http://www.unr.edu/nevada-today/news/2013/alan-krause

UNR College of Science **Discover Science Lecture Series:**
Department of Geological Sciences and Engineering—Seminar Dates

Below is the current University of Nevada, Reno DGSE seminar schedule for Spring 2014.

Spring 2014 Seminar Dates
When: from 4 to 5pm
Where: Davidson Mathematics and Science Center 105 (please note room change)

2/03/2014 Nicole Lautze, U Hawaii, eruptive processes/ Strombolni ejecta (GBCGE invitee)
2/10/2014 TBD
2/17/2014 Presidents Day, No Seminar
2/24/2014 Stephanie McAfee (Geography)
3/03/2014 TBD (David Schmidt, Scott McCoy Backup?)
3/10/2014 Jeff Vervoort
3/17/2014 Spring Break, No Seminar
3/24/2014 Russell DiFiori/ Steve Angster
3/31/2014 Melissa Penfold/ Saige Sanchez
4/07/2014 Kenjo Agustsson/Kate Zeiger
4/14/2014 Connor Newman/Dylan Baldwin
4/21/2014 Tyler Seaman/Erica Key
4/28/2014 Tim Cramer/Corina Forson
5/05/2014 John Wakabayashi

For more information, please contact:
Wendy Calvin
Prof. Geophysics & Remote Sensing
Director, Great Basin Center for Geothermal Energy
Univ. Nevada – Reno, wcalvin@unr.edu, 775-784-1785

NDOM Job Announcement
A message from Richard Perry, Administrator, Nevada Division of Minerals:
The Nevada Division of Minerals has a job opening for a Field Specialist in Oil, Gas, Geothermal and Abandoned Mine Lands programs. The deadline to apply is February 21, 2014.
http://minerals.state.nv.us/news/FldSpecOGG-AML_20140114.pdf

BLM Job Announcements
A message from BLM: We are pleased to announce new, exciting positions available at BLM - BUREAU OF LAND MANAGEMENT. It is our hope that qualified, career oriented individuals at your organization or other professionals known to you will actively consider this position and apply accordingly. Efforts on your part to disseminate this information are greatly appreciated.

Position Information:
Job Description: Natural Resource Specialist/Physical Scientist
Announcement Number: UT-Merit-2014-0017
Location(s) of position: Moab, UT, US
Salary: $47,923 - $75,376
Applications will be accepted until: 02/18/2014.
For additional information on this job posting, please go to:
https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetailexecute.hms?orgId=3&jnum=109234
Job Description: **Management and Program Analyst**
Announcement Number: NV Merit-2014-0100
Location(s) of position: Ely, NV, US
Salary: $47,448 - $61,678
Applications will be accepted until: 03/03/2014.
For additional information on this job posting, please go to:

Position Information:
Job Description: **Management and Program Analyst**
Announcement Number: NV-DEU-2014-0045
Location(s) of position: Ely, NV, US
Salary: $47,448 - $61,678
Applications will be accepted until: 03/03/2014.
For additional information on this job posting, please go to:

Position Information:
Job Description: **Human Resources Specialist**
Announcement Number: AZ-Merit-2014-0017
Location(s) of position: Santa Fe, NM, US
Salary: $68,809 - $89,450
Applications will be accepted until: 02/13/2014.
For additional information on this job posting, please go to:

Position Information:
Job Description: **Hydrologist**
Announcement Number: NV-DEU-2014-0032
Location(s) of position: *Carson City*, NV, US
Salary: $51,298 - $80,685
Applications will be accepted until: 02/18/2014.
For additional information on this job posting, please go to:

Position Information:
Job Description: **Planning and Environmental Specialist**
Announcement Number: UT-Merit-2014-0012
Location(s) of position: Salt Lake City, UT, US
Salary: $57,982 - $75,376
Applications will be accepted until: 01/31/2014.
For additional information on this job posting, please go to:

Position Information:
Job Description: **Park Ranger (Interpretive)**
Announcement Number: MT-DEU-2014-0016
Location(s) of position: Pompeys Pillar, MT, US
Salary: $22.96 - $29.85
Applications will be accepted until: 02/10/2014.
For additional information on this job posting, please go to:
https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetailexecute.hms?orgId=3&jnum=108989

Position Information:
Job Description: Management and Program Analyst
Announcement Number: NV Merit-2014-0093
Location(s) of position: Ely, NV, US
Salary: $38,790 - $61,678
Applications will be accepted until: 02/27/2014.
For additional information on this job posting, please go to:
https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetailexecute.hms?orgId=3&jnum=109206

Position Information:
Job Description: Management and Program Analyst
Announcement Number: NV-DEU-2014-0044
Location(s) of position: Ely, NV, US
Salary: $38,790 - $61,678
Applications will be accepted until: 02/27/2014.
For additional information on this job posting, please go to:
https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetailexecute.hms?orgId=3&jnum=109208

Position Information:
Job Description: Management and Program Analyst
Announcement Number: NV Merit-2014-0097
Location(s) of position: Ely, NV, US
Salary: $47,448 - $61,678
Applications will be accepted until: 03/03/2014.
For additional information on this job posting, please go to:
https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetailexecute.hms?orgId=3&jnum=109221

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Charlotte Stock
NBMG Publication Sales, University of Nevada, mailing address for US Mail, Fed Ex, and UPS:
Nevada Bureau of Mines and Geology
Great Basin Science Sample and Records Library
2175 Raggio Parkway
Reno, NV 89512
phone (775) 682-8766, fax (775) 784-6690
Directions to office, www.nbmg.unr.edu
2014 Application Announcement

THE NEVADA PETROLEUM & GEOTHERMAL SOCIETY

Graduate Student Research Awards in Geosciences

Three to five grants up to $1000 each

Amounts and number of awards will depend on proposal quality, number of proposals, proposal budgets, and applicant need. Awards will be available to support research beginning in the summer of 2014. Applicants must be graduate students in good standing. Successful applicants will be expected to present their results to the Society upon degree completion.

Guidelines: Research topics should be:
- related directly to geology of the Great Basin, and
- of general interest to those interested in bedrock geology problems.

Students working on litho-stratigraphy, biostratigraphy, structure, geothermal systems, geophysical exploration, geochemistry of sedimentary rocks, and tectonic history are especially encouraged to apply.

To apply: Send or email (as PDF file) a 2-page (maximum) research proposal (include results to date, bibliography, and budget), a short (one page) vita that includes academic progress so far, and a letter of recommendation from your academic advisor (sealed if mailed or emailed direct from advisor) to:

Dr. James Trexler, NPGS Scholarship Chairman
Department of Geological Sciences and Engineering, MS 172
University of Nevada, Reno
Reno, NV 89557
trexler@unr.edu

Application materials must be received or postmarked by
February 28, 2014

More information? Contact: trexler@unr.edu
SWITCH will be showing on Wednesday, February 12th

WHERE University of Nevada Reno’s Joe Crowley Theater
Located on the third floor, 1664 N. Virginia Street

TIME 7:00 p.m.

What will it really take, to go from the energy that built our world, to the energy that will shape our future?

SWITCH explores the world’s leading energy sites, from coal to solar, oil to biofuels, and gets straight answers from the international leaders driving energy today, to discover the path to our energy transition.

Embraced across political lines by renewable energy and fossil fuel companies, environmental groups, academics and the general public alike, don’t miss this opportunity to see SWITCH, the acclaimed agenda-free energy documentary. Click the link, below, for free tickets: http://www.eventbrite.com/e/nevada-petroleum-and-geothermal-society-inc-screening-tickets-6466211613

Seats will be held until 6:50 p.m. Remaining seats will be open to the public after 6:50 p.m.
American Association of Petroleum Geologists
Rocky Mountain Section Annual Meeting
Colorado Convention Center, Denver, CO
July 20-22, 2014

Call for Papers!
To submit an abstract for poster or oral presentations, go to:
www.aapgrms.org/2014/conference/technical-program
NEW deadline for abstracts: February 15, 2014

Technical Program themes —
• Source Rocks and Petroleum Systems: Have we deciphered the codes?
• Technology: Paradigm shifts
• Exploration/Exploitation: Looking back; Looking ahead
• Legendary Playmakers of the Rockies: A hotbed of notable people
• Structure and Tectonics: Nothing less than world-class
• Sedimentary Geology: Where the world comes to study

The Annual Meeting is expected to include:
• 2 days of Technical Presentations
  Including oral, poster, and core poster presentations
• 4 Field Trips
• 3 Short Courses
• Student, Young Professional, and Teacher Opportunities
• Several Social and Networking Events

Registration opens Spring 2014
Exhibition and Sponsorship opportunities still available
Visit aapgrms.org/2014 for more information

Hosted by the
Rocky Mountain Association of Geologists
Nevada Petroleum and Geothermal Society Sponsorship Request for 2013-14

On behalf of the Nevada Petroleum and Geothermal Society (NPGS) Board of Directors, I invite you and your firm to join our NPGS Sponsorship Drive for the 2013-2014 term.

Annual support for the NPGS from firms active in Nevada is necessary so that this Society can continue to perform our programs, including distribution of research awards to University of Nevada, Reno, University of Nevada, Las Vegas, and other graduate students performing research relevant to the geology of the Great Basin, monthly professional dinner presentations, and community outreach activities such as the Nevada Bureau of Mines’-UNR’s Earth Science Week Field Trips.

You and your firm’s continual support at any level clearly shows your commitment to our profession. We have three sponsorship levels available this year:

Gold Level Sponsors will receive numerous benefits which allow them to maximize their positions as leaders in our local geological community. As a Gold Level Sponsor, your Company will be prominently displayed on a full page of our monthly newsletter and on our web site (http://www.nbmg.unr.edu/nps/). We will advertise opening positions with your Company at any time that you request during the year. We will also run your Company’s promotional slide show at a monthly dinner where we will present you with an elegant commemorative plaque that you can proudly display at your office. Please also consider developing a short dinner showcase that highlights your firm or is of general interest to the membership. Gold Level Sponsorship costs only $500 per year.

As a Silver Sponsor, your Company’s business card will be displayed in a section of our monthly newsletter and on our website. We will advertise opening positions with your Company as requested at any time during the year. Silver Sponsorship costs $300 per year.

Corporate Sponsorships are flexible. Corporate Sponsors will be able to provide NPGS with any amount of their choosing. Sponsors providing greater than $500 will receive all the benefits as a Gold Level Sponsor. Sponsors providing less than the Gold Level amount will receive name recognition in both our website and our monthly newsletter.

Please help to sponsor the NPGS by filling out the attached Sponsorship Application Form and telling us where you would like to designate your sponsorship dollars. NPGS is a 501c3 non-profit organization. Contact your tax advisor to determine which portion(s) of your donation is (are) deductible.

We also have opportunities for you and your Company to host the Ramada bar during our dinner meetings. If you would like to host the bar, please contact me prior to one of the meetings at 775-200-5143 to set that up. Or you can provide a donation to our NPGS Scholarship fund which has provided significant assistance to our University of Nevada Mines and Geology students, or even to our General Fund, which helps us to provide you with our informative dinner meetings. Please designate the desired amount(s) on the attached Sponsorship Application.

As always, we welcome your suggestions on how our Society’s programs and activities can be improved. More importantly, we welcome the participation of you and your firm’s staff at our monthly dinner presentations and at all of our events. If you know of anyone who is interested in serving in a leadership position on our Society’s Board of Directors, please encourage them to contact us. Their involvement will ensure a vibrant future for the Nevada Petroleum and Geothermal Society.

We look forward to working with you to help make our Society the best that it can be. Please contact me at 775-200-5143 or email me at jkareck@lumosengineering if you have any questions or require any additional information.

Judy M. Kareck, P.E., Vice-Chair, Nevada Petroleum and Geothermal Society
NEVADA PETROLEUM AND GEOTHERMAL SOCIETY
2013-2014 Sponsorship Application

Nevada Petroleum and Geothermal Society
P.O. Box 11526
Reno, NV 89510
Minden, Nevada 89423

Firm/Agency Name: ____________________________________________
Mailing Address: ______________________________________________
Phone Number: _________________________________________________
Fax Number: ___________________________________________________

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<th>Sponsor Name</th>
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<tr>
<td>Primary Contact (1)</td>
<td></td>
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<tr>
<td>Secondary Contact (2)</td>
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Indicate Level of Sponsorship Desired:
(3) GOLD $500
(4) SILVER $300
(5) CORPORATE $0

Indicate where you would like to designate your sponsorship dollars:
A. NPGS - University of Nevada Mines and Geology Student Support
B. NPGS General Support

Total Amount Designated will Add up to Total Amount Sponsored $ __________

Primary and Secondary Contacts represent the individuals who will serve as direct liaisons with the NPGS Board of Directors. They will be counted on to distribute information, solicit involvement, and provide feedback as to what they would like to see this Society accomplish. They can also develop leadership skills by participating and volunteering in NPGS functions.

(3) GOLD Level Sponsors receive numerous benefits which allow them to maximize their positions as leaders in our local geological community. As a GOLD Sponsor, your Company logo and business write up will be prominently displayed in a full page of our monthly newsletter and on our website (http://www.nbmg.unr.edu/npgs/). NPGS will advertise opening positions with your Company at any time during the year. We will present you with an elegant commemorative plaque that you can proudly display at your office showing your commitment to this community. Please also consider developing a brief dinner showcase that either highlights your firm’s expertise or is of general interest to the membership.

(4) SILVER Level Sponsorship costs $300 for the 2013-2014 year.

As a SILVER Level Sponsor, your Company’s business card and/or logo will be displayed on a portion of our monthly newsletter and on our website. We will advertise opening positions with your Company at any time during the year. SILVER Level Sponsorship costs $300 for the 2013-2014 year.

(5) CORPORATE Level Sponsors can provide the NPGS with any amount of their choosing. Amounts exceeding $300 will be given the same benefits as the GOLD Level. Amounts less than $300 will be given name recognition in both our website and monthly newsletter.

Notes: Checks written to the Society should be written to: Nevada Petroleum and Geothermal Society and mailed to Steve Foster, Treasurer, at the above address.

The NPGS is a 501c3 non-profit organization. Contact your tax advisor to determine which portion(s) of your donation is (are) deductible.
APPLICATION FOR MEMBERSHIP

Name

Occupation/Title

Company/Affiliation

Work Address

Street

City

State

Zip Code

Residence Address

Street

City

State

Zip Code

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Address

Street

City

State

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Phone

Address

Street

City

State

Zip Code

Education – list colleges and universities attended, degree(s) received, and date of degree(s) (OPTIONAL)


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Signature

Date

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□ ASSOCIATE $15.00/year

□ STUDENT $10.00/year

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For NPS Membership Committee Signatures Only

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Nevada Petroleum Society

P.O. Box 11526

Reno, NV 89510-1526
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<tr>
<th>Paper</th>
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<tr>
<td>NPS1</td>
<td>n/a</td>
<td>n/a</td>
<td>Oil Fields of the Great Basin (1994) R.A. Schalla and E.H. Johnson, editors, 31 papers on regional and field specific geology, 5 plates, soft cover with plastic comb binding, 380 p.</td>
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<tr>
<td>NPS2</td>
<td>n/a</td>
<td>n/a</td>
<td>Membership Directory (only available free on the Web at <a href="http://www.nbmg.unr.edu/nps/membershipdir.htm">http://www.nbmg.unr.edu/nps/membershipdir.htm</a>)</td>
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<tr>
<td>NPS15</td>
<td>$20.00</td>
<td>$5.00</td>
<td>TerraScan’s Geologic Map of the Eastern Great Basin, Nevada and Utah (1978, rev. 1987) compiled and edited by E.L. Howard, 3 sheets (includes cross-sections) $20.00/NPS or $25.00/non-NPS, order by phone only for discounted price of $5.00</td>
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<tr>
<td>NPS3</td>
<td>n/a</td>
<td>NPS3y</td>
<td>Oil Fields, Production Facilities and Reservoir Rocks of Northern Nye County, Nevada (1989) compiled by W.J. Ehni and D.M. Evans, 8 abstracts and papers, 30 p.</td>
</tr>
<tr>
<td>NPS4</td>
<td>$15.00</td>
<td>$20.00</td>
<td>Oil Fields and Geology of the Pine Valley, Eureka County Area, Nevada (1990) D.M.H. Flanigan, L.J. Garside, and M. Hansen, editors, 15 papers and abstracts, 74 p. (xerox copy only – unbound)</td>
</tr>
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<td>NPS5</td>
<td>n/a</td>
<td>NPS5y</td>
<td>Geology of White River Valley, the Grant Range, Eastern Railroad Valley and Western Egan Range, Nevada (1991) D.M.H. Flanigan, M. Hansen, and T.E. Flanigan, editors, 10 papers and abstracts, 74 p.</td>
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<tr>
<td>NPS7</td>
<td>$33.00</td>
<td>$33.00</td>
<td>Structural and Stratigraphic Relationships of Devonian Reservoir Rocks, East Central Nevada (1993), C.W. Gillespie, editor, 15 papers, 3 plates, 203 p.</td>
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<tr>
<td>NPS9</td>
<td>n/a</td>
<td>$40.00</td>
<td>Structural and Stratigraphic Investigations and Petroleum Potential of Nevada, with Special Emphasis South of the Railroad Valley Producing Trend (1994) S.W. Dobbs and W.J. Taylor, editors, two volumes bound as one, 13 papers, 22 plates, 281 p.</td>
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<td>NPS13</td>
<td>n/a</td>
<td>NPS13y</td>
<td>Hydrocarbon Habitat &amp; Special Geologic Problems of the Great Basin (1998) D.E. French and R.A. Schalla, editors and co-chair</td>
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<td>NPS19</td>
<td>n/a</td>
<td>NPS19y</td>
<td>Megabreccias and Impact Breccias of East Central Nevada (2004) C.W. Gillespie and S. Foster, editors</td>
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<tr>
<td>NPS22</td>
<td>n/a</td>
<td>NPS22y</td>
<td>Geology, Geothermal Resources and Petroleum Exploration of Neogene Basins in the Reno, Nevada Area (2007, 2nd ed., includes two papers not in 1st ed.) S. Limerick, editor, 7 papers, 3 reprints, and roadlog, 140 p.</td>
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<td>NPS23</td>
<td>NPS23c</td>
<td>NPS23y</td>
<td>Sedimentology and Tectonic Setting of the Late Cretaceous to Eocene Sheep Pass Formation in the Southern Egan Range (2008) P. Druschke, trip leader; J. Trexler, Jr., editor</td>
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These publications are only available from the Nevada Bureau of Mines and Geology (NBMG). If a publication is out of print or unavailable, it is marked "n/a" (not available). Please check with us for the most current prices. Thanks.

**NBMG contact information:**
Phone: (775) 682-8766  
Fax: (775) 784-6690  
Web: [http://www.nbmg.unr.edu](http://www.nbmg.unr.edu)  
Web: [http://www.nbmg.unr.edu/nps/](http://www.nbmg.unr.edu/nps/)
Oil and gas resources from NBMG

The following publications are available from the Nevada Bureau of Mines and Geology. NBMG publications that are underlined are also available free on the Web at http://www.nbmg.unr.edu/.

Oil and gas information page on the NBMG website
http://www.nbmg.unr.edu/Oil&Gas/index.html

Bulletins

B104 Oil and gas developments in Nevada: Garside, Hess, Fleming and Weimer (1988), $15.00, for updates, see OF01-7, OF04-1, and M162

Educational Series

E-6 Oil and gas in Nevada (Student book for grades 4-8, 23 pages) $3.45
E-24 Nevada oil: Division of Minerals (Brochure, 1996) free

Lists

L-8 List of oil and gas wells drilled in Nevada since 1907: Hess, Davis, and Boldi (2001, updated 2003) superseded by OF04-1, see also OF01-7
L-12 Nevada oil and gas well catalog (NVOILWEL), superseded by OF04-1, see also OF01-7
Complete list of Nevada oil and gas well exploration data, 1906-present. Listed logs and cuttings are housed at NBMG. Shows, geologic tops and tests are given when available.

Maps

M162 Petroleum data map of Nevada: Garside and Hess (2007), 1:1,000,000, $15.00

Mineral Industry Series

The Nevada Mineral Industry is published annually, beginning in 1979. Each volume has a section on oil and gas in Nevada. Most of these reports are available free on the Web at http://www.nbmg.unr.edu/.

Open-File Reports

OF83-5 Nevada oil shale: Garside, 10 pages, $4.00 (for more oil shale information, see also USGS MF-1546 and MF-2091)
OF92-5 Nevada oil and gas source-rock database: Hess, compilation of source-rock analyses performed on cuttings samples taken at varying depth intervals from oil and gas exploration wells in Nevada up to 1992, complete print-out, $20.00
OF96-6c Nevada oil and gas wells, 1907-1996: 1:1,000,000 color digital map of Nevada showing major roads, county boundaries, and locations of oil wells drilled since 1907, original printout, $20.00, see also OF01-7, M162
OF01-7 Nevada oil and gas well database map: Hess, CD and 4 page text, $15.00
Contains the following: L-12, updated OF96-6, partial; L-8, B104 text; digital base layers of Nevada data in Shapefile and Arc/Info export file format designed for use at scale 1:1,000,000 (county, towns, roads, USGS topo boundaries for 1:100,000 and 1:24,000, Township and Range); georeferenced raster graphic of the Nevada state base map, B&W, scale 1:1,000,000; 18 USGS digital raster graphic maps (DRG), 1:250,000-scale, topo maps in tiffw format
OF00-2 Hydrocarbon assessment of the Yucca Mountain vicinity, Nye County, Nevada: French, 78 pages and 4 plates, $44.40
OF04-1 Nevada oil and gas well database (NVOILWEL): Hess (2004), $86.40 for photocopy
OF07-7 Assessment of the potential for carbon dioxide sequestration with enhanced oil recovery in Nevada: LaPointe, Price, and Hess (2007), 24 pages, $7.20
OF11-2 Qualitative petroleum potential map of Nevada: Garside and Hess (2011), plate 1:1,000,000 and text
OF11-6 Oil and gas well information for Nevada – 2011 update: Hess, Henson, David, Limerick, Siewe, and Niles; portable hard drive, 105 GB, 9643 files, $115; free on web at http://www.nbmg.unr.edu/Oil&Gas/NVWellInfo.html

Reports

R51 Preliminary assessment of the potential for carbon dioxide disposal by sequestration in geological settings in Nevada: Price and others (2005), CD-ROM or paper copy, 35 pages, $15.00
R52 Assessment of the potential for carbon dioxide sequestration by reactions with rocks in Nevada: Sturmer, LaPointe, Price, and Hess (2007) $22.00 paper

USGS

Basin and Range Carbonate Aquifer System Study: http://nevada.usgs.gov/barcass/data.htm

Ordering information for Nevada Bureau of Mines and Geology
Sales office located at Great Basin Science Sample and Records Library, 2175 Raggio Parkway, Reno, NV 89512
Phone: (775) 682-8766 Fax: (775) 784-6690 Web: http://www.nbmg.unr.edu
Geothermal resources in Nevada

Geothermal information page on the NBMG website
http://www.nbmg.unr.edu/Geothermal/index.html

The following publications on geothermal resources are available from the Nevada Bureau of Mines and Geology. NBMG items that are underlined are available free on the Internet and can be viewed at http://www.nbmg.unr.edu/.

Bulletins
B65 Mineral and water resources of Nevada: Cornwall (1964) pp. 267-269, $7.00
B89 Geology and mineral deposits of Pershing County, Nevada: Johnson (1977) pp. 104-106, $21.00
B91 Thermal waters of Nevada: Garside and Schilling (1979) $22.00, for update see L-5
B97 Discovery and geology of the Desert Peak geothermal field—a case history: Benoit, Hiner, and Forest (1982), $15.00 (see also OF03-27)

Educational Series
E-7 Geothermal resources in Nevada: Student reading/activity book for grades four through eight, 27 pp., $4.05
E-15 Nevada geothermal electric power production, brochure (1992) 2 pp., $0.60
E-35 Major mines, oil fields, and geothermal plants in Nevada
E-46 Taking the pulse of the Earth
E-51 Life’s a beach: In search of ancient shorelines and volcanoes in the Grimes Point and Lahontan Mountains area

Lists
L-5 Index to geothermal well files housed at NBMG: Davis and Hess (2009) updates App. 2 of B91, $19.50

Maps
M126 Nevada geothermal resources: Shevenell, Garside, and Hess (2000), superseded by M161
M141 Nevada geothermal resources (second edition): Shevenell and Garside (2005), 1:750,000, $16.00 for paper copy, available folded or rolled, superseded by M161
M146 Geologic map of the Fraser Flat quadrangle and the west half of the Moses Rock quadrangle, Washoe Co., NV
M151 Geologic potential map of the Great Basin, western United States: Coolbaugh and others (2005), 1:1,000,000, $30.00, rolled only
M161 Nevada geothermal resources: Penfield, Shevenell, Garside, and Zehner (2010), 1:750,000, $18.00, folded or rolled, supersedes M126 and M141

Mineral Industry Series
Mi-1979 through current year—The Nevada mineral industry is published annually and has a section on geothermal activities, varies with year, Mi-1994-current year available free on Internet at http://www.nbmg.unr.edu/ and click on “Online Documents.”

Newsletters
Nevada Geology Newsletter no. 19, page 3 (Summer 1993) “Low-temperature geothermal resources in Nevada” by Larry Garside, free

Open-File Reports
OF83-6 Preliminary map of thermal wells in the Moana geothermal area, Reno, Nevada: Garside, $8.00
OF87-2 Mineral resource inventory – U.S. Navy master land withdrawal area, Churchill County, Nevada: Quade and Tingley, $92.00
OF94-2 Nevada low-temperature geothermal resource assessment: 1994: Garside, with a bibliography by Davis and Garside, $40.00 for text and plate, or $20.00 for text on disk, or $7.00 for plate only
OF96-2-9 Reconnaissance photogeologic map of young (Quaternary and late Tertiary) faults in Nevada: (Plate 9) 1:1,000,000, map and text, $15.00
OF03-27 Preliminary geologic map of the Desert Peak-Brady geothermal fields, Churchill County, Nevada: Faults and Garside (2003), $15.00 (see also B97)
OF08-5 Mineral- and energy resource potential for White Pine County, Nevada
OF08-6 Mineral- and energy resource potential for Pershing County, Nevada
OF08-7 Mineral- and energy resource potential for Lyon County, Nevada
OF08-12 Potential resources associated with proposed roadless areas in Nevada
OF09-10 Preliminary geothermal potential and exploration activity in Nevada: Zehner, Coolbaugh, and Shevenell, 1:1,000,000-scale plate and text, $20.00 (supersedes OF09-1)
OF10-6 Preliminary geologic map of the Lee-Allen geothermal area, Churchill County, Nevada
OF11-3 Preliminary geologic map of the Reese River geothermal area, Lander County, Nevada
OF11-10 Descriptive logs, skeletonized samples, and photographs of core from Presco Energy’s thermal gradient wells P3-1, P 10-1, and P 32-2 in the Rye Patch area, Pershing County, Nevada: Davis (2011, Web version only)
OF11-11 Preliminary geologic map of the northern Lake Range, San Emidio geothermal area, Washoe County, Nevada: Rhodes, Faulds, and Ramelli, scale 1:24,000, $18.00

OF12-3 Data tables and graphs of geothermal power production in Nevada: Shevenell, Price, and Hess (1985-2011, Web version only)

Reports
R21 Geothermal exploration and development in Nevada through 1973
R25 Evaluation of geothermal activity in the Truckee Meadows, Washoe County, Nevada: Bateman and Scheibach (1975), $4.00
R33 Papers on mineral deposits of western North America: (1979), presented at the Fifth Quadrennial Symposium of IAGOD, $10.00
R41 Precious-metal mineralization in hot springs systems, NV-CA: Tingley and Bonham (1986), $15.00
R43 Mineral resources of the Kumiva Peak 30’ by 60’ Quadrangle: Tingley (1989) pp. 16-17, $5.00
R44 Mineral resources of the Pahranagat Range 30’ by 60’ Quadrangle: Tingley (1989) pp. 8-9, $5.00
R45 Mineral resources of the Overton 30’ by 60’ Quadrangle: Tingley (1989) pp. 12-13, $5.00
R46 Mineral resources of the Timpahute Range 30’ by 60’ Quadrangle: Tingley (1991) pp. 30-31, $5.00
R51 Preliminary assessment of the potential for carbon dioxide disposal by sequestration in geological settings in Nevada

Special Publications
SP4 Geology of Nevada: a discussion to accompany the Geol. map of Nevada (see below): Stewart (1980), $25.00

00001 Geologic map of Nevada: Stewart and Carlson, U.S.G.S. (1976) 1:500,000, available rolled or folded, $20.00 available free on the Internet at <http://www.geologicmaps.unr.edu> and click on "Great Basin geoscience dataset" or at <http://www.nbmg.unr.edu/dox/dox.htm>, see SP4 for descriptive text

Urban Map Series
3Ah Energy and mineral resources map of the Las Vegas SE Quadrangle: Papke and Bell (1973) available rolled or folded, $2.00

4Ah Energy and mineral resources map of the Reno Quadrangle: Bingler, Bonham, and Luza (1973) available rolled or folded, $2.00

5Ah Energy and mineral resources map of the Washoe City Quadrangle: Papke and Jones (1978) available rolled or folded, $2.00

Nevada Petroleum Society
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NPS18 Oil, gas and geothermal occurrences in northwestern Nevada
NPS22 Geology, Geothermal Resources and Petroleum Exploration of Neogene Basins in the Reno, Nevada Area

USGS Publications

I-1701 Bouguer gravity anomalies, depth to bedrock, and shallow temperature in the Humboldt House geothermal area, Pershing County, Nevada: Schaefer (1986), $9.00


OF74-1066 The chemical composition and estimated minimum thermal reservoir temperatures of the principal hot springs of northern and central Nevada, call for prices

OF81-918 Geothermal resources of the western arm of the Black Rock Desert, northwestern Nevada, part I, geology and geophysics: Schaefer, Welch, and Maurer (1983), 41 pages and 4 plates, call for prices


Other Resources
Great Basin Center for Geothermal Energy is at <http://www.unr.edu/geothermal/.

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| Feb 3-6, 2014 | **2014 NWRA Annual Conference**  
Tuscan Suites & Casino, Las Vegas, Nevada  
[http://www.nvwra.org/event-information](http://www.nvwra.org/event-information) |
| Feb 6, 2014 | Discover Science Lecture Series  
Alan Krause, chairman and CEO of MWH Global  
"At the Forefront of Trade, Technology and Environment: Designing the New Panama Canal." Admission is free. Redfield Auditorium, Davidson Mathematics and Science Center, UNR  
[http://www.unr.edu/around-campus/facilities/davidson](http://www.unr.edu/around-campus/facilities/davidson)  
[http://www.unr.edu/Documents/around-campus/map_vertical.pdf](http://www.unr.edu/Documents/around-campus/map_vertical.pdf) |
| Feb 6, 2014 | **NPGS Monthly Dinner Meeting**  
– Thursday Feb 6, 6:30 PM  
Ramada Reno Hotel, 1000 E 6th St, Reno, NV  
Speakers: Lowell Price, NDOM, Carson City NV and John Menghini, BLM, Reno NV  
Topic: Hydraulic Fracturing Updates in Nevada |
| Feb 7, 2014 | **W.M. Keck Museum Mineral Sale**  
The Lady Muckers and Keck Museum will hold a mineral sale this Friday Feb. 7 from 9:00 a.m. to 1:00 p.m.  
Proceeds of the sale will go towards the ladies’ mining team at UNR.  
[http://www.unr.edu/keck](http://www.unr.edu/keck), Office: 775.784.4528 |
| Feb 12, 2014 | **SWITCH: Discover the Future of Energy** (film)  
Wednesday, Feb 12, 2014 at 7:00 p.m.  
Joe Crowley Theater at the Joe Crowley Student Union, third floor, UNR  
[http://www.unr.edu/around-campus/facilities/crowley](http://www.unr.edu/around-campus/facilities/crowley)  
| Mar 6, 2014 | **NPGS Monthly Dinner Meeting**  
– Thursday Mar 6, 6:30 PM  
Ramada Reno Hotel, 1000 E 6th St, Reno, NV  
Speaker: Patrick Walsh, Ormat Nevada, Reno NV  
Topic: Steamboat Geothermal Complex |
| Apr 3, 2014 | **NPGS Monthly Dinner Meeting**  
– Thursday Apr 3, 6:30 PM  
Ramada Reno Hotel, 1000 E 6th St, Reno, NV  
Speaker: James Faulds, Director/State Geologist, NBMG, Reno NV  
Topic: Hot Springs Mountain |
| Apr 6-9, 2014 | **AAPG Annual Convention & Exhibition** – Houston, TX  
George R Brown Convention Center.  
Submit abstracts by Sep 19.  
[www.aapg.org](http://www.aapg.org) |
| May 1, 2014 | **NPGS Monthly Dinner Meeting**  
– Thursday May 1, 6:30 PM  
Ramada Reno Hotel, 1000 E 6th St, Reno, NV  
Speaker: Rick Stucker, Senior Geologist, Noble Energy, Denver CO  
Topic: Overview of Noble Energy’s Current Drilling Program in Nevada |
| Jun 24, 2014 | **Nevada BLM Oil & Gas Lease Sale**  
Reno NV  
Elko, Southern NV District, posting date: Mar 21, 2014  
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<td>Jul 20-22, 2014</td>
<td>AAPG Rocky Mountain Section Annual Meeting Denver Convention Center, Denver, CO CALL FOR PAPERS - <a href="http://www.aapgrms.org">www.aapgrms.org</a></td>
<td>Denver, CO</td>
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<td>2016</td>
<td>Rocky Mountain Section/Pacific Section Meeting – AAPG 2016 2016 joint RMS-AAPG/PS-AAPG annual meeting, Las Vegas, Nevada</td>
<td>Las Vegas, Nevada</td>
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