

NEWSLETTER

Serving the Petroleum and Geothermal Community

Nevada Petroleum Society; P. O. Box 11526; Reno, NV 89510

Visit our NPS Homepage: <http://www.nbmq.unr.edu/nps/>

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Dinner Meeting: Thursday, Mar 3, 2011

Speaker: Corné Kreemer
Research Associate Professor
Nevada Geodetic Laboratory
Nevada Bureau of Mines and Geology
University of Nevada, Reno
<http://geodesy.unr.edu/cornekreemer.html>

Title: "Using GPS to Measure Plate Motion and the Deformation of the American Southwest"

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

Agenda: Cocktails begin at 6:30 PM
Dinner Served at 7:00 PM

Dinner Costs:

NPS Members \$ 20; Non-Members \$23; Students \$10

Menu

Buffet style; including chicken & beef entrees, side dishes and salad.

****RSVP by Monday, Feb 28**

Vicki Ehni (775) 883-1107 or vehni@aol.com

► **ABSTRACT – NPS Monthly Dinner Meeting – Mar 3, 2011**

Corné Kreemer, Ph.D.

University of Nevada, Reno

Title: Using GPS to Measure Plate Motion and the Deformation of the American Southwest

The precise measurement of ground motion using GPS technology has revolutionized the Earth sciences. The motion of GPS stations provided the first direct evidence that plates move relative to one another, confirming the theory of plate tectonics. The explosion of GPS stations worldwide has since provided unprecedented insight into the detailed deformation of plate boundaries, earthquake cycle mechanisms, and geodynamic processes. This talk will provide an overview of some of the most exciting discoveries, with particular focus on the slow deformation in the American Southwest.

► ***About the Speaker:***

Corné Kreemer, Ph.D.

Research Associate Professor, Nevada Geodetic Laboratory
Nevada Bureau of Mines and Geology, University of Nevada, Reno
<http://geodesy.unr.edu/cornekreemer.html>

Dr Corné Kreemer is a research associate professor at the Nevada Bureau of Mines and Geology at the University of Nevada, Reno. His interests and expertise are in the fields of geophysics, geodynamics, and geodesy. He obtained an M.S from Utrecht University, the Netherlands, in 1997, and a Ph.D. from Stony Brook University, New York, in 2001. Before joining NBMG in 2004 he spent a couple of years as a postdoctoral fellow in France.

► ***NPS Officer Elections:***

It's time to elect next year's NPS officers. The Board has put together a new slate of candidates for the vote, and the nominees even agreed to serve! The slate includes:

Jim Faulds, President
John Snow, Vice President/President-elect
Jim Branch, Secretary
Steve Foster, Treasurer
Alan Wallace, Past President

Please come to the March 3 dinner meeting and cast your vote!



**17th ANNUAL
3D SEISMIC SYMPOSIUM
TUESDAY MARCH 29, 2011
DOWNTOWN DENVER MARRIOTT**

The 2011 3D Seismic Symposium will feature case histories and the latest in seismic technology and imaging techniques. Vendors will be onsite to demo the latest technological advances in 3D Seismic.

**Kick Off Speaker: Eric Erslev University of Wyoming
4D Investigation of the Rockies: The Bighorn Arch Seismic Experiment**

**Key Note Speaker: Dr. Steve Sonnenberg
Colorado School of Mines, Charles Boettcher Distinguished Chair in Petroleum Geology
Niobrara: A Rockies Resource Reignited**

Also: Fred Hilterman on new seismic reflectivity techniques, 9C Bakken and Piceance, Eagle Ford inversion and attributes, Marcellus fracture detection, a 4D Seismic Success Story and more!

2011 3D Seismic Symposium REGISTRATION FORM

Name: _____ Name Tag: _____
 Company: _____ Email: _____
 Address: _____
 City/State/Zip: _____ Phone: _____

Registration fee <i>through</i> March 15 for RMAG/DGS Members	\$175
Registration fee <i>through</i> March 15 for Non-Member	\$200
Registration fee AFTER March 15 for BOTH Members & Non-Members	\$210
Full-Time Student Registration	\$40

Student ID Number (required) _____
 No cancellations or refunds after March 25, 2010 Total Enclosed \$ _____

Circle Payment Type: Check (payable to RMAG) Visa MasterCard American Express
 Name on Credit Card (Print): _____
 Card No.: _____ Expiration Date: _____
 Billing Address: _____
 Signature (credit cards only) _____

Please Email, Mail or FAX registration form to:
RMAG
 910 16th Street, Suite 1125
 Denver, CO 80202
 TEL: 303-573-8621 FAX: 303-628-0546
 EMAIL: rmagdenver@aol.com

For Online Registration:
<http://www.rmag.org>

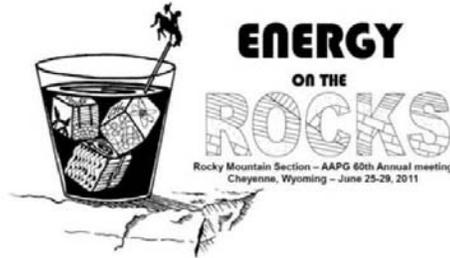
Please note: If you register online you will receive a confirmation notice by return email within 24 hours. If not, your registration was not accepted by RMAG computer.

Call for Papers – Press Release

2011 Rocky Mountain Section – AAPG Annual Meeting

June 25 – 29

Little America Conference Center, Cheyenne, Wyoming



www.rms-aapg.org/2011_meeting/

The Rocky Mountain Section (RMS) of the American Association of Petroleum Geologists (AAPG) and the Wyoming Geological Association (WGA) is issuing a Call for Papers for their 2011 Conference, which will be held, in Cheyenne, Wyoming. The conference is taking place at Cheyenne's Little America Conference Center from June 25-29, 2011 and will include oral and poster sessions, exhibits, short courses, and field trips, including a pre-meeting Niobrara Shale trip.

Oral and poster sessions include:

- **Niobrara-Featuring a Special Plenary Session**
- Tertiary Resources of the Powder River Basin
- Fractured Shale Plays
- Producing Fields
- Evaluation of Unconventional plays
- CO₂ EOR and Sequestration
- EMD including Geothermal, Uranium and Coal
- Seismic Detection of Fractures
- Legal and Surface Issues Affecting Current Oil and Gas Operations
- Completions and Engineering Economics
- Gravity/Aeromagnetic Data and Collection Methods
- Structure of Rocky Mountain Basins
- Sedimentology and Stratigraphy of Rocky Mountain Basins
- Student Papers

The abstract deadline is **January 15, 2011**.

Abstracts may be submitted at: <http://aapg2011rms.abstractcentral.com>.

CONTACT INFORMATION

Technical Program Chair, Andy Finley – andy@goolsbyfinley.com

The following is a tentative list of Short Courses to be offered:

- Niobrara Core Workshop
- Petrophysical Analysis of Unconventional Reservoirs
- Carbonate Diagenesis
- Bakken Shale Workshop

A Prospect Expo is planned for Wednesday, morning, June 29.

► **Nevada BLM Oil & Gas Lease Sale Schedule**

BLM State office, 1340 Financial Blvd, Reno, NV – 10:00 AM

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

Sale Date	Parcels Offered for District Office at Sale	*EOIs Due	Sale Posting Date	Protest Deadline
March 8, 2011	Elko/Southern Nevada	June 11, 2010	December 3, 2010	January 3, 2011
June 14, 2011	Battle Mountain	September 17, 2010	March 11, 2011	April, 11, 2011
September 13, 2011	Ely	December 17, 2010	June 10, 2011	July 11, 2011
December 13, 2011	Winnemucca/Carson City	March 18, 2011	September 9, 2011	October 10, 2011

*EOI = Expression of Interest

Note: Lease sales will be held at Bureau of Land Management, Nevada State Office, 1340 Financial Boulevard, Reno, Nevada 89502.

http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/oil_gas/oil_and_gas_leasing/upcoming_sales.html

One parcel listed for the March O&G Lease Sale:

http://www.blm.gov/pgdata/etc/medialib/blm/nv/minerals/oil_gas/2011_lease_sales.Par.7926.File.dat/20110308_OG_Sale_Parcels.pdf

► **March 22, 2011 Next Nevada BLM Geothermal Lease Sale**

58 parcels offered for March 2011 Geothermal Lease Sale

Note: Lease sales will be held at Bureau of Land Management, Nevada State Office, 1340 Financial Boulevard, Reno, Nevada 89502.

http://www.blm.gov/pgdata/etc/medialib/blm/nv/minerals/geothermal.Par.93993.File.dat/20100322_Geo_Sale_Parcels.pdf

► **DOE Leverages Fossil Energy Expertise to Develop And Explore Geothermal Energy Resources - February 7, 2011**

From: Office of Energy Efficiency and Renewable Energy (EERE)

Focusing on reducing the upfront costs of geothermal development as well as improve its effectiveness, the U.S. Department of Energy (DOE) today announced plans to leverage oil and gas expertise to test the reliability and efficiency of geothermal power generation at oil and gas fields. DOE's Office of Fossil Energy and Office of Energy Efficiency and Renewable Energy will combine efforts to have experts test and validate low temperature geothermal power generation technologies at the Rocky Mountain Oilfield Testing Center (RMOTC) near Casper, Wyoming.

The goal of this project is to leverage the resources of both program offices to support state-of-the-art research and development into geothermal power generation technology using co-produced fluids from older oil and gas operations. This hybridization combines traditional fossil energy operations with emerging renewable technologies to evaluate low temperature geothermal power production from oil fields. Leveraging existing oil and gas infrastructure reduces the upfront costs of geothermal development. The potential to produce renewable energy from existing sites extends beyond the work with RMOTC to oil and gas fields worldwide.

The full article is available at:

http://apps1.eere.energy.gov/news/progress_alerts.cfm/pa_id=477

► ***News from Nevada Bureau of Mines and Geology:***

Ron Hess recently retired from NBMG. Hard to believe, but true! Ron has been a member of the Nevada Petroleum Society for many years and has been a tremendous asset to the Society's development, maintenance & storage of publications. I won't begin to mention his role or accomplishments at NBMG, just that we will miss having him there, as I'm sure his fellow employees will, too. Ron put together this letter, which serves as a great resource to help direct your future NBMG inquiries. Thanks, Ron, enjoy your retirement, but don't wander off; an NPS volunteer's work is *never* done!

From Ron Hess, RETIRED Chief Information Officer, NBMG:

I am retiring after many years as an Information Specialist with the Nevada Bureau of Mines and Geology (NBMG).

This change means that those of you that normally contact me for information on Oil, Gas, Geothermal, Air Photos, Core and Cuttings, the Engineering Files, the Mining District Files, or general information on the Geology of Nevada should now contact David Davis at 775-682-8767 or Email ddavis@unr.edu .

To order or obtain information on NBMG bulletins, reports, geologic maps, open-file reports, USGS topographic maps, or any of an assortment of USGS publications that we carry contact Charlotte Stock at 775-682-8766 or Email cstock@unr.edu , or check out the NBMG Publication Sales Web page at <http://www.nbmgs.unr.edu/Departments/PubSales/PubSales.html> .

For questions regarding NBMG's digital document conversion program, scanning capabilities, large format printing, print on demand maps, or current and historic document scanning progress contact Martha Henson at 775-682-8781 or Email hensonm@unr.edu .

To report missing Web pages, broken Web links, or malfunctioning Web tools on the NBMG Web site contact Jennifer Mauldin at 775-682-8759 or Email mauldin@unr.edu .

For those of you who have not checked out our continually developing Web site at <http://www.nbmgs.unr.edu/index.html> , I urge you to do so. Most of our current reports and many of our older reports as well are available free of charge on the Web (as time allows we are moving almost our entire document collection to the Web). We also have made available on the Web oil, gas, and geothermal well records and production data, over 24,000 mining district documents, interactive mapping applications, document searching capability, links to a variety of other resources, and much much more.

Best wishes,

Ron

Nevada Petroleum Society – Publication List 2010



SPECIAL VOLUMES

- NPS 1 Oil Fields of the Great Basin (1994) R.A. Schalla and E.H. Johnson, editors, 31 papers on regional and field specific geology, 4 plates, hardbound, 380 p. \$65.00**
- NPS 2** Membership Directory (only available **free on the Web** at <http://www.nbmg.unr.edu/nps/membershipdir.htm>)
- NPS 15** 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**
- NPS 21** Carboniferous–Permian (Late Paleozoic) Hydrocarbon System, Rocky Mountains–Great Basin Region, U.S., Major Historic Exploration Objective (2001, updated 2003) J. Peterson, RMAG Open-File Report on CD only; 54 p., 45 illustrations, CD **\$15.00**

FIELD TRIP GUIDEBOOKS

- NPS 3 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. (xerox copy only – unbound) \$8.00**
- NPS 4** 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) **\$15.00**
- NPS 5** 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. **\$15.00**
- NPS 6** Structural Geology and Petroleum Potential of Southwest Elko County, Nevada (1992) J.H. Trexler, Jr., T.E. Flanigan, D.M.H. Flanigan, M. Hansen, and L.J. Garside, editors, 9 papers, 2 plates, 96 p. **\$25.00**
- NPS 7** Structural and Stratigraphic Relationships of Devonian Reservoir Rocks, East Central Nevada (1993) C.W. Gillespie, editor, 15 papers, 3 plates, 203 p. **\$33.00**
- NPS 8** Dating of Pre-Tertiary Attenuation Structures in Upper Paleozoic and Mesozoic Rocks and the Eocene History in Northeast Nevada and Northwest Utah (1994) C.H. Thorman, C.J. Nutt, and C.J. Potter, editors, 11 papers, 125 p. **\$25.00**
- NPS 9** 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, 2 volumes, 13 papers, 22 plates, 281 p. **\$40.00**
- NPS 10** Mississippian Source Rocks in the Antler Basin of Nevada and Associated Structural and Stratigraphic Traps (1995) M.W. Hansen, J.P. Walker, and J.H. Trexler, Jr., editors, 16 papers and 7 abstracts, 166 p. **\$25.00**
- NPS 11** Cenozoic Structure and Stratigraphy of Central Nevada (1996) W.J. Taylor and H. Langrock, editors, 11 papers, 122 p. **\$25.00**
- NPS 12** The Roberts Mountains Thrust, Elko and Eureka Counties, Nevada (1997) A.J. Perry and E.W. Abbott, editors, 4 papers, 2 abstracts and reference papers/abstracts, 86 p. **\$25.00**
- NPS 13** Hydrocarbon Habitat & Special Geologic Problems of the Great Basin (1998) D.E. French and R.A. Schalla, editors and co-chair **\$25.00**
- NPS 14** Cenozoic Geology of the Northern Colorado River Extensional Corridor, Nevada and Arizona: Economic Implications of Extensional Segmentation Structures (1999) J.E. Faulds, editor, 183 p., 3 color plates **\$35.00**
- NPS 16** Structure & Stratigraphy of the Eureka, Nevada Area (2001) Marilyn S. Miller and Jerome P. Walker, editors, 108 p., 11 color plates **\$30.00**
- NPS 17** Detachment and Attenuation in Eastern Nevada and its Application to Petroleum Exploration (2002) W. Ehni and J. Faulds, editors, 163 p., book & CD **\$40.00**, book only **\$35.00** (NPS17b), CD only **\$15.00** (NPS17c)
- NPS 18** Oil, Gas, and Geothermal Occurrences in Northwestern Nevada (2003) S. Foster, editor, 102 p. **\$25.00**
- NPS 19** Megabreccias and Impact Breccias of East Central Nevada (2004) C.W. Gillespie and S. Foster, editors **\$35.00**
- NPS 20** Great Basin Paleozoic Carbonate Platform: Facies, Facies Transitions, Depositional Models, Platform Architecture, Sequence Stratigraphy, and Predictive Oil and Gas Reservoir and Mineral Host Models (2006) H.E. Cook and J.J. Corboy, 129 pages **Out of print** (bulk of report from USGS Open-File Report 2004-1078, free on Web at <http://pubs.usgs.gov/of/2004/1078/>)
- NPS 22** 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. **\$25.00**
- NPS 23** 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 **\$25.00**

These publications are only available from the Nevada Bureau of Mines and Geology (NBMG).

NBMG contact information:

Phone: (775) 682-8766

Fax: (775) 784-6690

Web: <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.nbmq.unr.edu/>.**

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**

Databases, Lists, Indexes, and Digital Maps

List of wells by API and permit numbers; operator and well names; township, range, and section (as of October 27, 2008) at <http://www.nbmq.unr.edu/lists/oil/oil.htm>
See also: <http://www.nbmq.unr.edu/Oil&Gas/index.html>

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. Selective data searches and index lists available upon request. 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.nbmq.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)
OF86-13 **Nevada petroleum production statistics, 1954-1986:** Hess, Loomis and Garside, 14 pages, \$5.00
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*
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

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

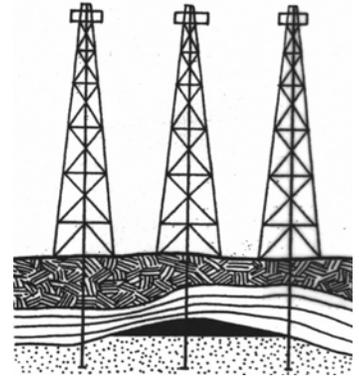
USGS

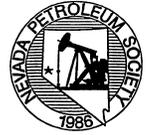
Assessment of undiscovered oil and gas resources of the Eastern Great Basin Province, 2005, Fact Sheet **FS-2005-3053**, free at <http://pubs.usgs.gov/fs/2005/3053/>
Basin and Range Carbonate Aquifer System Study:
<http://nevada.usgs.gov/barcass/data.htm>

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.nbmq.unr.edu>





Nevada Petroleum Society Calendar: Year 2010/2011

Mar 3, 2011	<p>NPS Monthly Dinner Meeting – Thursday Mar 3, 6:30 PM Ramada Reno Hotel, 1000 E 6th St, Reno, NV Speaker: Dr. Corne Kreemer, Research Asst Professor, NBMG University of Nevada – Reno Title: <i>Using GPS to Measure Plate Motion and the Deformation of the American Southwest</i></p>
Mar 29, 2011	<p>RMAG & DGS present: Out In Front 17th Annual 3D Seismic Symposium – Tue Mar 29 Downtown Marriott Hotel, Denver CO http://www.rmag.org/events/index.asp?content_id=290</p>
Apr 7, 2011	<p>NPS Monthly Dinner Meeting – Thursday Apr 7, 6:30 PM Ramada Reno Hotel, 1000 E 6th St, Reno, NV Student Speakers, Details TBA</p>
Apr 10 2011	<p>AAPG Annual Convention & Exhibition – Houston TX <i>Making the Next Giant Leap in Geosciences</i> http://www.aapg.org/houston2011/</p>
May 5, 2011	<p>NPS Monthly Dinner Meeting – Thursday May 5, 6:30 PM Ramada Reno Hotel, 1000 E 6th St, Reno, NV Details TBA</p>
Jun 25, 2011	<p>2011 Rocky Mountain Section – AAPG Annual Meeting June 25-29, Little America Conference Center Cheyenne, Wyoming – www.rms-aapg.org/2011_meeting/</p>
Oct 23, 2011	<p>GRC's 35th Annual Meeting - October 23-26, 2011 Town & Country Resort & Convention Center San Diego, California - http://www.geothermal.org/meet.html</p>

The NPS Newsletter is provided to members of the Nevada Petroleum Society.
 For information about membership and events, see the NPS website at <http://www.nbmgs.unr.edu/nps/>
 To submit articles, corrections or suggestions for the newsletter; Contact Vicki Ehni 775-883-1107, cell 775-720-6387; email vehni@aol.com .

Nevada Petroleum Society; Mar 2011

NEVADA PETROLEUM SOCIETY
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TO: NPS Member