

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/>

President

James Faulds
Research Professor
UNR MS 178
Reno, NV 89557-0088
jfaulds@unr.edu

Vice President/Pres Elect

John Snow
Chief Operating Officer
Standard Steam
14075 Saddlebow Dr.
Reno, Nevada 89511
(775) 336-8067 (O)
(775) 85-3458 (H)
jsnow@standardsteamtrust.com

Secretary

Jim Branch
GIS Specialist/Geologist
3532 Bombero Ct
Reno, NV 89502
775-324-2505
jbranch@hotmail.com

Treasurer

Steve Foster
Geophysicist/Geologist
886 Marsh Ave.
Reno, NV 89509
775-329-4123
sfostermammoth@aol.com

Past President

Alan R. Wallace
Research Geologist
1050 Sumac St.
Reno, NV 89509
wallacealan@sbcglobal.net

AAPG Delegate

Bill Ehni
Geologist
Ehni Enterprises, Inc.
P. O. Box 4228
Carson City, NV 89702
775-883-1107
ehni@ehni.com

RMS-AAPG Representative

Jerry Walker
Geologist
1455 Shewmaker Ct.
Reno, NV 89509
775-348-0650
jerry_reno@charter.net

AAPG EMD Representative

Bill Ehni
Ehni Enterprises, Inc.
ehni@ehni.com

Dinner Meeting: Thursday, Mar 1, 2012

Speaker: Yoram Bronicki
President & COO
Ormat Technologies, Inc.

Title: ORMAT - Green Energy You Can Rely On

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

Agenda: Cocktail Reception 6:30
Skyline Bar, 14th Floor

Redeem your dinner ticket for a drink at the Skyline Bar
Hosted by Barbour Well, Inc.

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**

RSVP Tuesday Feb 28, 2012

Diane Phillips (775) 267-4663 or trailsend@pyramid.net

► **ABSTRACT – NPS Monthly Dinner Meeting – Mar 1, 2012**

ORMAT -Green Energy You Can Rely On

Ormat Technologies, Inc. is a world leader in the geothermal power plant sector. As a geothermal company, we have over four decades of experience in the development of state-of-the-art environmentally sound power solutions; primarily in geothermal and recovered energy generation (REG). In addition to designing, developing, building, owning and operating geothermal energy and recovered energy-based power plants in the United States and other countries, Ormat also designs, manufactures and sells power units and other power generating equipment for geothermal power plants and recovered energy-based electricity generation.

Ormat is today's only vertically-integrated provider of geothermal and recovered energy-based equipment, services and power that designs, develops, builds and manufactures most of the equipment used in its plants.

► **About the Speaker:**

Yoram Bronicki is president and COO of Ormat Technologies, Inc. Prior to his appointment as president in 2007, Bronicki served as Ormat's Chief Operating Officer for North America. Bronicki was Vice President of OPTI Canada Inc. from 2001 to 2004.

Bronicki obtained a Bachelor of Science in Mechanical Engineering from Tel Aviv University in 1989 and a Certificate from the Technion Institute of Management Senior Executives Program and the Stanford School of Business Executive Program.



Barbour Well, Inc. would like to extend regards and appreciation for all of the attendees at the March NPS meeting who, like ourselves, are committed to the advancement of oil and geothermal energy production throughout Nevada. Please enjoy a complimentary cocktail on us as you receive a ticket when paying for your event. It is our hope to provide you with excellence in oil and geothermal drilling services.

Steve Zarcone Business Development

Barbour Well Inc., 260 Sunpac Ave. Suite A, Henderson, NV 89011
Direct: 805-207-6407, Cell: 661-755-7687, www.barbourwell.com

► **Proposed Name Change for NPS – Membership Business:**

The board of the Nevada Petroleum Society (NPS) would like to bring the following to a vote of NPS members:

The name of the *Nevada Petroleum Society* be changed to *Nevada Petroleum and Geothermal Society*.

- **Yes**
- **No**

As the name of our society is defined in Article I of the Constitution, the procedure to change its name is controlled by the Constitution's Article VIII – Amendments. *Amendments to this Constitution may be made by a ballot mailed out to the entire membership. Amendments will be passed upon receipt of a two-thirds (2/3) majority of ballots returned within thirty (30) days of date of mailing.*

Ballots will be distributed to the entire membership by regular mail or email.

It is anticipated that ballots and voting instructions will be mailed/mailed April 1st, with the deadline for return of ballots to be no later than midnight May 1, 2012.

The following comments were included in the February newsletter and are copied here for your information. These comments address the proposal for a name change for the NPS.

This name change will respect the history of NPS while also recognizing the emerging importance of geothermal energy in the region.

Specific reasons for the name change include:

- Geothermal will likely have a large long-term positive economic impact on Nevada, as evidenced by recent economic trends, revenues, etc. We are truly known as one of the best places in the world for geothermal energy thanks to our tectonic setting. Despite some current problems with some of the smaller companies, the future is bright for geothermal.
- Reno is the hub for geothermal development in the western U.S., with many companies having offices or headquarters here. Although there are many geothermal geologists in the area, only a few regularly attend our meetings. We are clearly missing out on a large segment of the local geoscience population. A name change may attract a larger fraction of this population to our meetings and events.
- The name change would probably have positive effects on the future of NPS. Currently, our membership lacks significant numbers of younger members. Sponsoring students has helped some with this, but has not fully translated yet into a healthy cadre of young members. Geothermal is now attracting some of the best and brightest students, as well as the imagination of a younger generation. A name change would put us in the best position to attract younger geoscientists involved in geothermal energy.

- The ongoing commitment to petroleum-related talks and field trips will not be adversely impacted by this name change. Talks presented at NPS meetings have been diverse, and that diversity will not change. Also, we have checked with the AAPG, and the proposed name change will not impact our affiliation with AAPG in any way.
- Names are important. And, the proposed name change is meant to highlight the two major foci of the society. Non-members will see the new name and recognize that NPGS is the place to go for energy-related talks and information. Currently, many non-members do not realize that good geothermal (and other) talks can be heard at a meeting sponsored by a petroleum-named society. The name change also could increase the number of hits to our website when someone does a search for “geothermal” and “Nevada”. If more people visit our website, then that could increase sales of our publications to people who otherwise might not have known about the society.
- Some bureaucratic work would result from the name change. These include changes in the checking account, web site, post office address-name, and logo. These changes can be accomplished effectively, and our current President and Vice-President are willing to dedicate time to do so.

Ballots will be sent out to the membership by April 1 to be returned by May 1, 2012.

► **National Geothermal Academy – Jun 18 – Aug 10, 2012:**

The National Geothermal Academy is an 8-week intensive summer course in all aspects of geothermal energy development and utilization. The course is offered for 6 credits at either the undergraduate or graduate level. Individual weeks are offered as professional development. In summer 2012 Modules 2,3,4 or 5,6,7 are offered as 3 credit sections.

Schedule for this summer is June 18 to August 10, 2012

Applications for Summer 2012 available http://www.unr.edu/geothermal/Application_2012.pdf

Applications are due February 15, by 5pm in the applicants local time zone.

<http://www.unr.edu/geothermal/NGA.htm>

► **Next Scheduled Oil & Gas Lease Sale – Mar 13, 2012:**

Notice, shape file, etc.:

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

Parcels:

http://www.blm.gov/pgdata/etc/medialib/blm/nv/minerals/oil_gas/2012_lease_sales.Par.24494.File.dat/20120313_OG_Sale_Parcels.pdf

► **UNR/NWRA Spring Dinner Forum – Wednesday, March 28, 2012**

Geothermal Power Production in Nevada - Monte Morrison, USA for Alterra Power Corp.
Super 8 Meadow Wood Courtyard, 5851 S. Virginia Street, Reno, NV 89502
For information and reservations : www.nvwra.org 775-473-5473

► **News from NBMG – Feb 2012**

Submitted by Charlotte Stock

> **Outstanding Nevada geologist to lead the Nevada Bureau of Mines and Geology**

[Dr. James E. Faulds](#) will be replacing [Dr. Jonathan G. Price](#) as State Geologist and Director of the Nevada Bureau of Mines and Geology (NBMG) at the University of Nevada, Reno (UNR) when Jon retires at the end of June. Between now and then, Jim and Jon will be sharing duties of the position, as we transition to Jim's leadership.

Jim, who has been with NBMG since 1997, is an expert in structural geology, tectonics, and geothermal systems. He has published widely on extensional and strike-slip tectonics, nonmarine salt deposits, and structural controls on geothermal systems, including relations between current geothermal activity and young epithermal mineral deposits. He has mapped dozens of quadrangles in Nevada, including some in the Searchlight mining district in southern Nevada, the Carlin trend, the Walker Lane, and several known geothermal resource areas. His geothermal research has been instrumental in developing more sophisticated exploration strategies for geothermal systems. He has also taught courses in structural geology, tectonics, geothermal exploration, and field geology, including serving as Director of UNR's geology field camp for 5 years. He has served as advisor for 14 graduate students while at UNR. He is also the current President of the Nevada Petroleum Society.

Jim earned his B.S. (with highest honors) at the University of Montana, his M.S. at the University of Arizona, and his Ph.D. at the University of New Mexico. He held postdoctoral research positions at the University of Nevada, Las Vegas and at the University of Southern California and was on the faculty at the University of Iowa before joining NBMG.

Dr. Price can be credited with greatly enhancing the NBMG in his 24 years of stewardship and developing it into one of the best state geological surveys in the nation. Our understanding of many facets of Nevada geology has been greatly accelerated under Dr. Price's leadership. Jon will continue as a member of the Bureau with emeritus status.

Please join us in welcoming Jim to his new roles as the NBMG Director and the State Geologist of Nevada.

> **Jon Price receives WSSPC award**

Congratulations to Jon Price, NBMG Director and State Geologist, on receiving the Western States Seismic Policy Council's Lifetime Achievement Award!

Please see story in this link: http://www.wsspc.org/news/news_files/eNews_Winter11-12.pdf

“Dr. Jonathan G. Price, Nevada State Geologist and Director of the Nevada Bureau of Mines and Geology has been selected to receive the 2012 WSSPC Lifetime Achievement Award in recognition of his public policy advocacy and his indefatigable support of seismic safety in Nevada and across the nation.” (from WSSPC newsletter, January 31, 2012)

> **New geologic map of Iceberg Canyon**

M166: Geologic map of the Iceberg Canyon quadrangle, Clark County, Nevada and Mohave County, Arizona, *with text entitled* Overview of the stratigraphy and structure of the Iceberg Canyon quadrangle, Clark County, Nevada and Mohave County, Arizona, by Robert J. Brady, Joan E. Fryxell, and Brian P. Wernicke, 2011, one 30X36-inch color plate and 16 pages of text for \$26.00; plate only for \$16.00; available rolled or folded.

A 1:24,000-scale, color geologic map of the Iceberg Canyon 7.5-minute quadrangle, in Clark County, Nevada and Mohave County, Arizona, with descriptions of 40 geologic units. Accompanying text includes overview of the stratigraphy and structure, full unit descriptions, and references. M166 supersedes OF03-18.

Available *free on the Web*:

<http://www.nbmgs.unr.edu/sales/pbsdtls.php?sku=M166>

> **Kyle House featured in Earth Magazine**

Kyle House (formerly a research geologist at NBMG and now with USGS) and the "Preliminary Surficial Geologic Map of Clark County, Nevada" (NBMG Open-File Report 10-7) are featured in the February 2012 issue of Earth Magazine. You can see a part of this article on Kyle's blog:

<http://geologicfroth.com/>

Preliminary surficial geologic map of Clark County, Nevada (NBMG OF10-7, published in 2010):

<http://www.nbmgs.unr.edu/sales/pbsdtls.php?sku=OF10-%207>

> **Erionite in the news again**

Also in the same February 2012 issue of Earth Magazine, North Dakota state geologist discusses the health risks of erionite.

<http://www.earthmagazine.org/article/dangerous-dust-erionite-asbestos-mineral-causing-cancer-epidemic-turkey-found-least-13>

From the 12-15-11 e-mail:

Jon Price, NBMG director and state geologist, reported recent interest in the health hazards of erionite. Due to that interest, Bulletin 79 was just posted free on our website:

<http://www.nbmgs.unr.edu/dox/b79/index.html>

<http://www.nbmgs.unr.edu/sales/pbsdtls.php?sku=B%2079>

<http://www.cdc.gov/niosh/blog>

> **Digital historical topographic maps now available for Nevada**

Digital historical topographic maps are now available for Nevada. USGS has just posted its historical topographic map collection for the state of Nevada online for download by the public. This map collection includes over 3,634 historic maps across the state with some maps dating back over 100 years. All published map scales are available, including: 7.5-minute (1:24,000), 15-minute (~1:63,000), 30-minute (1:100,000), and 1x2 degree (1:250,000), and have been scanned at a higher density than previous DRG editions.

You are invited to access the collection and download any of the maps.

To get the maps, visit the USGS Store site at:

store.usgs.gov <<http://store.usgs.gov/>>

Then click on the "Map Locator & Downloader" in the center of the page.

From there you can locate your favorite maps in AZ by searching by map or place name or by pan/zoom on the viewer. Maps are available as GeoPDF® files (viewable in your Adobe reader).

We have lots of additional information on the maps and the program that produced them. For example:

1. Information about the USGS historical topographic map collection and the historical quadrangle scanning project can be found here:

<http://nationalmap.gov/historical/>
<http://pubs.usgs.gov/fs/2011/3009/>

2. We have a 19 minute video from the September 2011 International Map Trade Association Conference on distribution of USGS historical topo maps:

<http://gallery.usgs.gov/videos/465>

3. See a press release on the historical topographic map collection.

The article pre-dates the Arizona map release but provides additional information on the project:

<http://www.usgs.gov/newsroom/article.asp?ID=3024>

Note that while looking around the USGS Store and the National Map web pages, you may also come across new maps for Nevada called US Topo.

These are new topographic maps now in production for Nevada (shown as red hachuring). These can also be downloaded through the USGS Store and are available as GeoPDF® files. I'll have further announcements on US Topo as production wraps up for Nevada in the near future. US Topo will be produced over USFS areas.

US Topo is the next generation of digital topographic maps from USGS.

Arranged in the traditional 7.5-minute quadrangle format, digital US Topo maps are designed to look and feel like the traditional paper topographic maps for which the USGS is so well known. At the same time, US Topo maps provide modern technical advantages that support wider and faster public distribution and enable basic, on-screen geographic analysis for all users.

US Topo maps are available free on the Web. Each map quadrangle is available as a GeoPDF® file created from key layers of geographic data – orthoimagery, roads, geographic names, contours and hydrographic features - found in the National Map, which is a nationwide collection of integrated data from local, State, Federal, and other sources.

Like the historical topographic map collection, we have lots of information on US Topo and related products.

1. US Topo information is online at

<http://nationalmap.gov/ustopo/>
<http://pubs.usgs.gov/fs/2009/3108/>

2. Additional fact sheets about National Map products and services are at

<http://nationalmap.gov/factsheets.html>

3. News items and tweets on the USGS National Geospatial Program are at

http://nationalmap.gov/tnm_news.html
<http://twitter.com/#!/USGSTNM>

4. USGS values your comments and suggestions about new US Topo and historical topographic maps. Please submit comments online at

http://nationalmap.gov/ustopo/ustopo_feedback.html

Carol Ostergren; 916-278-9510 costergren@usgs.gov

US Geological Survey National Geospatial Program 3020 State University Drive East, Suite 3005 Sacramento, CA 95819

Subscribe to our blog:

<http://nbgm.posterous.com>

Nevada Bureau of Mines and Geology

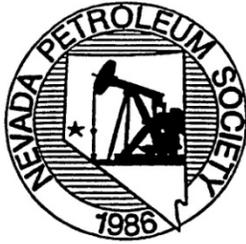
Mail Stop 178

University of Nevada

Reno, NV 89557-0178

Phone (775) 784-6691

www.nbgm.unr.edu



APPLICATION FOR MEMBERSHIP

Name _____

Occupation/Title _____

Company/Affiliation _____

Work Address _____
Street City State Zip Code

Residence Address _____
Street City State Zip Code

Preferred Mailing Address? **WORK** -or- **RESIDENCE**

Work Phone _____ Residence Phone _____ Fax _____

Mobile Phone _____ Email _____

Member of AAPG? **YES** -or- **NO**

Professional References – list two references with phone numbers and addresses

1) Name _____ Phone _____

Address _____
Street City State Zip Code

2) Name _____ Phone _____

Address _____
Street City State Zip Code

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

Membership Type

- ACTIVE \$20.⁰⁰/year
- ASSOCIATE \$15.⁰⁰/year
- STUDENT \$10.⁰⁰/year
- LIFE \$200.⁰⁰ (one-time payment)

Signature _____

Date _____

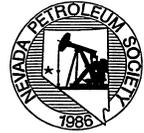
Please make check payable to:

Nevada Petroleum Society
P.O. Box 11526
Reno, NV 89510-1526

DO NOT COMPLETE

For NPS Membership Committee Signatures Only

Nevada Petroleum Society – Publication List 2012



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, 5 plates, soft cover with plastic comb binding, 380 p. \$65.00
- NPS 2** Membership Directory (only available **free on the Web** at <http://www.nbmj.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. on CD-ROM only **\$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, two volumes bound as one, 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, book and CD **\$40.00** (NPS16), book only **\$30.00** (NPS16b), CD only **\$30.00** (NPS16c)
- 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** (NPS17), 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** (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.nbmj.unr.edu>

Web: <http://www.nbmj.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/>.**

Oil and gas information page on the NBMG website
<http://www.nbmq.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.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, 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.nbmq.unr.edu/Oil&Gas/NVWellInfo.html>

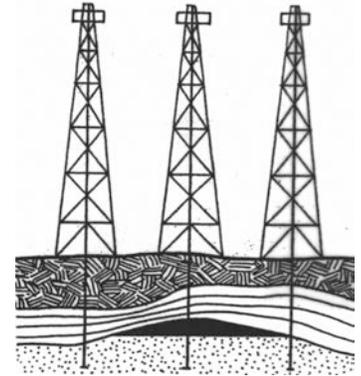
Reports

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

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>



Geothermal resources from NBMG

Geothermal information page on the NBMG website

<http://www.nbmq.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.nbmq.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*)
B99B Mineral resources of northern Nye County, Nevada: Kleinhampl and Ziony (1984) pp. 37-38, \$19.00

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 Geothermal 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.nbmq.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: Faulds and Garside (2003), \$15.00 (*see also B97*)
OF06-5 Mineral- and energy resource potential for White Pine County, Nevada
OF06-6 Mineral- and energy resource potential for Pershing County, Nevada
OF06-7 Mineral- and energy resource potential for Lyon County, Nevada
OF06-12 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)

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

Nevada Petroleum Society; Mar 2012

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. (1978) 1:500,000, *available rolled only*, \$20.00 available free on the Internet at <<http://keck.library.unr.edu/>> and click on "Great Basin geoscience dataset" or at <<http://www.nbmjg.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

NPS5 Geology of White River Valley, the Grant Range, Eastern Railroad Valley and Western Egan Range, Nevada
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

C1249 Geothermal energy – clean power from the earth's heat: Duffield and Sass, *free on the Internet* at <<http://geopubs.wr.usgs.gov/circular/c1249/>>
I-1701 Bouguer gravity anomalies, depth to bedrock, and shallow temperature in the Humboldt House geothermal area, Pershing County, Nevada: Schaefer (1986), \$9.00
OF74-271 Geothermal systems of northern Nevada: Hose and Taylor (1974), 30 pages, call for prices
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
OF02-374 A helicopter-borne magnetic survey over Dixie Valley geothermal field, Nevada: A web site for distribution: Pearson, deRidder and Johnson (2002), *available free on the Internet* at <<http://pubs.usgs.gov/of/2002/ofr-02-0374/>>, call for prices
OF02-384 High-resolution aeromagnetic survey to image shallow faults, Dixie Valley geothermal field, Nevada: Grauch (2002), <<http://pubs.usgs.gov/of/2002/ofr-02-0384/>>, call for prices

Other Resources

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

For more information, please contact:

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
E-mail: nbmg@unr.edu
www.nbmjg.unr.edu

Nevada Petroleum Society Calendar: Year 2012-2013	
March 1, 2012	<p>NPS Monthly Dinner Meeting – Thursday Mar 1, 6:30 PM Ramada Reno Hotel, 1000 E 6th St, Reno, NV Speaker: Yoram Bronicki, Ormat Technologies, Inc. <i>President and Director, Chief Operating Officer</i> Title: Ormat – Green Energy You Can Rely On</p>
Mar 12, 2012	<p>Northern Nevada SME Meeting, Monday, Mar 12, 2012 - 6PM Please visit our page www.smennv.org for more details Social Hour 6 PM, Dinner 6:45 PM and Technical Session, at 7:30 PM Circus - Circus Hotel and Resort, Mandalay Room in Convention Center 500 N Sierra Street, Reno, NV Members \$22/person and Non-Members \$25/person payable at the door RSVP Required by noon, THURSDAY, Mar 8, 2012 Kaitlin C. Sweet 775.225.6147, email: kcsweet@enviroincus.com</p>
Mar 16, 2012	<p>GSN Monthly Dinner Meeting – Friday Mar 16, 6:00 PM Elks Lodge, 597 Kumle Lane, Reno, NV Drinks at 6:00 PM, dinner at 7:00 PM, and talk at 8:00 PM. Contact Laura Ruud at (775) 323-3500 or e-mail gsn@gsnv.org for reservations.</p>
Mar 28, 2012	<p>UNR/NWRA Spring Dinner Forum - Wednesday, March 28 Geothermal Power Production in Nevada Monte Morrison, USA for Alterra Power Corp. Super 8 Meadow Wood Courtyard 5851 S. Virginia Street, Reno, NV 89502 For information and reservations : www.nvwra.org 775-473-5473</p>
April 5, 2012	<p>NPS Monthly Dinner Meeting – Thursday Apr 5, 6:30 PM Ramada Reno Hotel, 1000 E 6th St, Reno, NV Speaker: Dr. Andrew Hanson <i>Associate Professor, UNLV Dept of Geoscience, Las Vegas, NV</i> Topic: Molecular organic geochemistry of Railroad Valley Oils and Source Rocks andrew.hanson@unlv.edu http://geoscience.unlv.edu/andrewhanson.htm</p>
Apr 22-25, 2012	<p>AAPG Annual Meeting, Long Beach CA http://www.aapg.org/longbeach2012</p>
May 3, 2012	<p>NPS Monthly Dinner Meeting – Thursday May 3, 6:30 PM Ramada Reno Hotel, 1000 E 6th St, Reno, NV Speaker: TBA</p>

Sep 9-12, 2012	Rocky Mountain Section – AAPG 2012 Grand Junction, Colorado - Sep 9-12, 2012 Hosted by Grand Junction Geological Society Vintage Geology – Perfectly Aged, Grand Junction 2012 http://www.rmsaapg2012.com/welcome.html
Sep 30 – Oct 3, 2012	GRC's 36th Annual Meeting – Sep 30 – Oct 3, 2012 Geothermal: Reliable, Renewable, Global. Peppermill Resort Spa – Reno, NV http://www.geothermal.org/Press%20Releases/Dec_6_2011.html

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.nbmjg.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 .
