



KENNY C. GUINN
Governor

STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
(775) 684-7040 • Fax (775) 684-7052
<http://minerals.state.nv.us/>

Las Vegas Branch:
1771 E. Flamingo Rd.
Suite #120-A
Las Vegas, Nevada 89119
(702) 486-4343
Fax (702) 486-4345

ALAN R. COYNER
Administrator

NEVADA GEOTHERMAL UPDATE

November 2005

NOTE - UPDATES AND NEW ITEMS ARE HIGHLIGHTED IN GREY

CURRENT POWER OPERATIONS

<u>Plant/Operator (year on-line)</u>	<u>Nameplate Capacity *</u>	<u>Location</u>
Beowawe Power Plant (1985) <ul style="list-style-type: none"> Beowawe Power LLC/Caithness Operating Beowawe Power LLC; Permit #565; API #27-015-90009 for Industrial Production Well "57-13" issued January 14, 2005; SW/4 SE/4 of Section 13, T31N R47E; Beowawe Springs, Lander County, Nevada; PTD 8500'; Set conductor July 26; Drilled out with Nabors rig # 37 August 29, 2005; DRILLING. 	16.6 MW	S13, T31N R47E
Bradys Power Plant (1992) Brady Power Partners/ORMAT Nevada Inc. <ul style="list-style-type: none"> Brady Power Partners (ORMAT); Geothermal Project Area Permit #540PA; Issued Apr 8, 2004, T22N R26E, Sections 13,14,23,24,11,12 and T22N R27E, Sections 7,18,19; Brady/Desert Peak Area, Churchill County, Nevada; The project area includes 3 production wells with an estimated depth of 6000'; Spent geothermal fluid will be re-injected into existing Brady injection wells; Geothermal Project Area Permit. Brady Power Partners (ORMAT); Permit #562; API #27-001-90306 for Production Well #15-12 issued Nov 22, 2004; NW/4 SW/4, Section 12 T22N R26E; Commercial production well in the Desert Peak III Project Area; First production well to be drilled in this Project Area; PTD 5000'; Churchill County, Nevada; Permitted Location. 	26.1 MW	S12, T22N R26E
Desert Peak Power Plant (1985) Brady Power Partners/ORMAT Nevada Inc. <ul style="list-style-type: none"> Brady Power Partners (ORMAT); Well #23-1; DWR Permit #31002; API# 27-001-90024B; Section 23, T27E R22N, Desert Peak East, DOE Enhanced Geothermal Systems Technology Development (EGS); Well drilled in June 1979 to a total depth of 9641' by Phillips Petroleum Co.; Spud Oct 8, 2005 C&L Drilling rig #6; Twisted off drill stem during rework; rig moved off, well shut-in. Project under evaluation. April 27, 2005 – Nevada Public Utilities Commission issued a Compliance Order granting BRADY POWER PARTNERS AND ORNI 3, LLC permission to build an 11 MW geothermal binary power plant at Desert Peak Power Plant in Section 21, T22N R27E, Churchill County, Nevada contingent upon obtaining three permits in process. http://www.puc.state.nv.us/electric/dkt_05-3024/05-3024co.pdf March 24, 2005 - BRADY POWER PARTNERS and ORNI 3, LLC filed an application with the Public Utilities Commission of Nevada for a permit to construct a new geothermal power plant adjacent to the existing Desert Peak Power Plant, in Section 21, T22N R27E, Churchill County, Nevada. The facility will consist of two units, one 15 MW binary power plant and one 11 MW binary power plant. Nevada Power Company will purchase the energy from the plant. The PUC scheduled a hearing for April 13, 2005. - http://www.puc.state.nv.us/electric/dkt_05-3024/05-3024nh.pdf 	12.5 MW	S21, T22N R27E
Dixie Valley Power Plant (1988) <ul style="list-style-type: none"> Caithness Dixie Valley/Caithness Operating 	62.0 MW S33, T25N R37E	S7, T24N R37E
Empire Power Plant (1987) Empire Energy LLC	4.8 MW	S21, T29N R23E

Richard Burdette Geothermal Power Plant (2005) 20.0 MW S29, T18N R20E

- ◆ On November 14, 2005, Ormat Technologies Inc. (NYSE: ORA) commissioned the first geothermal power plant constructed in Nevada under the Nevada RPS legislation. The plant was commissioned only 8 months after Ground Breaking. Formerly known as the Galena 1 Project, the plant was renamed in honor of Governor Kenny Guinn's late energy advisor Richard "Dick" Burdette Jr. The state of the art 20 MW Geothermal Power Plant is integrated into the existing Steamboat Geothermal Complex and brings the total output supplied from Steamboat to Sierra Pacific Power to 45 MW, which is sufficient to power 45,000 homes. It is an air-cooled binary power plant that re-injects 100% of all geothermal fluid produced, and consumes no water or chemicals. Contrary to wind power plants, it works continuously, providing base load power.

Speakers at the dedication included Nevada Governor Kenny Guinn, State Senator Randolph Townsend, Chairman Donald Soderberg of the Public Utility Commission of Nevada, Walt Higgins, Chairman and Chief Executive Officer of Sierra Pacific Resources, Roberto Denis, Senior Vice President of Sierra Pacific Resources, Richard Moorer, Deputy Assistant Secretary of Energy for Energy Efficiency and Renewable Energy and Lucien Y. Bronicki, Chairman of Ormat Technologies, Inc.

Soda Lake No. 1 (1987) 26.1 MW S33, T20N R28E
Soda Lake No. 2 (1991)
Constellation Operating Services

Steamboat 1, 1A (1986) 10.8 MW S29, T18N R20E
Steamboat Geothermal, LLC/ORMAT Nevada Inc.
Steamboat 2, 3 (1992) 47.8 MW
Steamboat Development Corp./ORMAT Nevada Inc.

- ◆ Steamboat Development Corp; Permit #567, API #27-031-90229 for Industrial Production Well #38B-28 issued March 3, 2005; SE/4 SW/4, Section 28, T18N R20E; Production well in the Steamboat Hot Springs area, Washoe County, Nevada; PTD 850'; Will be used to generate electricity for sale to Sierra Pacific Power; Permitted location.
- ◆ ORNI 7 LLC (ORMAT); Permit #563; API #27-031-90228 for Production Well #78-29 issued December 1, 2004; SE/4 SE/4, Section 29 T18N R20E; Industrial production well in Steamboat Springs, Washoe County, Nevada; PTD 1000'; This well is located in the S B Geo/Reno Energy Project Area previously permitted by S B Geo in 1998 (458PA); Two observation holes were drilled by S B Geo in Mar-Apr 2001; This well is first production well in the Project Area. Well completed on June 14, 2005.

Steamboat Hills (1988) 14.4 MW S5, 6, T17N R20E
Steamboat Hills, LP/ORMAT Nevada Inc.

- ◆ Steamboat Hills LP: Permit #561, API 27-031-90227 for Industrial Production Well #83B-6 issued Sep 10, 2004; NE/4 NE/4; Section 6, T17N R20E; Steamboat Springs, Washoe County, Nevada; PTD 3200'; to serve as production well for existing power plant. Permitted Production Well Location, Sep 2004.
- ◆ Steamboat Hills, LP: Permit #575 issued Mar 28, 2005, API #27-031-90231 for Industrial Injection Well 42-32 located in NE/4 NW/4 of Section 32, T18N R20E, Washoe County. To serve as additional injection well to existing power plant. Proposed depth is 1500'. C & L rig #6 spud June 25, 2005; Drilled to TD 4889'; Completed July 18, 2005.
- ◆ Steamboat Hills, LP: Permit #574PA, Project Area Permit issued March 30, 2005, located in T17N, R20E Section 5 and T18N, R20E Section 32 in Washoe County. The permit includes 3 production wells and 1 injection well. The planned use of the geothermal resource is for flash and binary electric power production.
- ◆ Steamboat Hills, LP: Permit #576 issued Mar 28, 2005, API #27-031-90230 for Industrial Production Well 66-32 located in NW/4 SW/4 Section 32, T18N R20E. Proposed depth is 1500'; Permitted location.
- ◆ Steamboat Hills, LP: Permit #577 issued Mar 28, 2005, API #27-031-90232 for Industrial Production Well 44-32 located in SE/4 NW/4 Section 32, T18N R20E, Washoe County. Proposed depth is 1500'; Spud Aug 1, 2005, drilled to TD; Completed Aug 17, 2005.
- ◆ Steamboat Hills, LP: Permit #578 issued Mar 28, 2005, API #27-031-90233 for Industrial Production Well 34-32 located in SE/4 NW/4 Section 32, T18N R20E, Washoe County. Proposed depth is 1500'; Spud Aug 2005, TD 1558', completed as a producer September 19, 2005.

Stillwater (1989)**21.0 MW****S1, T19N R30E****Stillwater Holdings, LLC**

- ◆ August 2005 - AMP Resources (Stillwater) LLC has filed an Application for a Permit to Construct Utility Facilities with the PUC for a new 30 MW binary geothermal power plant to be built adjacent to the existing 7 MW Stillwater Power Plant currently in operation approximately 15 miles northeast of Fallon. The location of the proposed facility is in Section 1, T19N R30E, Churchill County. AMP plans to drill 3 to 4 new production wells, which along with the existing production wells, to support the power plant. The proposed facility is scheduled to be in service by the end of 2007.
- ◆ AMP Resources (Stillwater) LLC: Permit #606, API #27-001-90316 for Industrial Production Well 67-19 issued July 19, 2005; located in the SW/4 SE/4 of Section 19 T20N R31E, Churchill County. The proposed depth of well is 2600'; Project Area Permit #579. Spud Sep 9, 2005, Equipment 2000 drilling rig #1; Completed drilling Sep 25, 2005.
- ◆ AMP Resources (Stillwater) LLC: Permit #594, API #27-001-90314 for Industrial Injection Well 34-7 issued June 17, 2005; located in the SE/4 NW/4 of Section 7 T19N R31E, Churchill County. The proposed depth of well is 1200'; Project Area Permit #579. Spud Aug 13, 2005, Equipment 2000 drilling rig #1; Drilled to TD, completed Aug 27, 2005.
- ◆ AMP Resources (Stillwater) LLC: Permit #595, API #27-001-90315 for Industrial Injection Well 54-7 issued June 17, 2005; located in the SW/4 NE/4 of Section 7 T19N R31E, Churchill County. The proposed depth of well is 1400'; Project Area Permit #579. Spud Oct 9, 2005, Equipment 2000 drilling rig #1; Drilled to TD, completed October 21, 2005.
- ◆ AMP Resources (Stillwater) LLC: Project Area Permit 579 issued May 9, 2005. Permit covers the drilling of 15 production wells with an estimated depth of 5500', 17 injection wells with an estimated depth of 5500', and 5 observation wells with an estimated depth of 3000'. The area encompasses portions of Sections 15-22 and 27-33 in T20N R31E, Churchill County.
- ◆ AMP Resources, LLC purchased the Stillwater Power Plant effective 12/31/2004.

Wabuska (1984)**2.2 MW****S15, 16, T15N R25E****Homestretch Geothermal LLC**

* Nameplate Capacity as reported to the Division of Minerals for 2004.

DIRECT USE OPERATIONS**Empire Group LLC; Empire, Washoe County, Nevada****Gilroy Foods, A ConAgra Food Ingredients Company; Onion Dehydration Plant; Fernley, Nevada**

<http://www.conagrafoodingredients.com/products/gilroyfoods.jsp>

Seasonal onion dehydration processing operations commenced mid-May 2005 and operated until the end of October 2005.

Steamboat Hot Springs; Washoe County, Nevada

- ◆ Reno Retail Company, LLC; Permit #541, API #27-031-90223 for Observation Well #24-28 issued April 30, 2004; SW/4 NW/4, Section 28, T18N R20E; Observation well in the Steamboat Hot Springs area, Washoe County, Nevada; PTD estimated at 700-800', maximum depth of 1000'; Will be used to further evaluate commercial potential of the geothermal resource. Spent geothermal fluid will be re-injected into the test well; Permitted Observation Well Location, Apr 2004.

OTHER ACTIVE AREAS**Gerlach KGRA, T32-33N R23-24E, Washoe County**

- ◆ November 2, 2004, Granite Fox Power Plant Project – Nevada Public Utilities Commission Procedural Order. A portion of the proposed location for the power plant is on BLM land; therefore, the BLM must conduct an environmental analysis. Within 30 days following the analysis, Sempra must submit an Amended Application to the Commission. Following the environmental analysis and the filing of the Amended Application, the

Commission has 120 days to grant or deny the UEPA permit application by Sempra. - http://www.puc.state.nv.us/ELECTRIC/dkt_04-5027/04-5027po.pdf

Salt Wells KGRA , T16-17N R30-31E, Churchill County

- ◆ Nevada Geothermal Specialists LLC; Permit #570; API #27-001-90310 Industrial Production Well "PW-4" issued March 3, 2005; SW/4 NW/4 of Section 25, T17N R30E; Salt Wells KGRA, Churchill County, Nevada. Production well permit in Project Area 564PA; PTD 750'; Permitted location
- ◆ Nevada Geothermal Specialists LLC; Permit #572; API #27-001-90312 Industrial Injection Well "IW-2" issued March 3, 2005; SE/4 NE/4 of Section 36, T17N R30E; Salt Wells KGRA, Churchill County, Nevada. Injection well permit in Project Area 564PA; PTD 1500'. Lang drilling rig; Spud date 6/21/2005, completed July 8, 2005.
- ◆ Nevada Geothermal Specialists LLC; Permit #573; API #27-001-90313 Industrial Injection Well "IW-5" issued March 3, 2005; NE/4 NW/4 of Section 25, T17N R30E; Salt Wells KGRA, Churchill County, Nevada. Injection well permit in Project Area 564PA; PTD 1500'; Permitted location.
- ◆ Salt Wells Geothermal Power Plant and Transmission Line Proposal, Finding of No Significant Impact and Decision Record authorizing Alternative A Plant Site with Southern Transmission Line issued by BLM with Stipulations, Feb 25, 2005. A complete plan of development must be provided to BLM in order for a right-of-way grant to be issued for the power line. Well drilling and road maintenance may begin immediately. Three identified prehistoric sites must be avoided, a historic marker must be constructed, and effects to the setting of the area must be mitigated, such as paint color, non-reflective wire, etc. The proposed development is for 2 net 10-MW binary cycle geothermal power plants to be constructed in 2 phases along with construction of a 230kV transmission line. The first plant would be constructed in 2005 and the second would depend on demand and resource viability. See the Environmental Assessment including proposal figures - http://www.nv.blm.gov/carson/Planning_Env_Coord/SaltWells/SaltWellsEA.htm.
- ◆ AMP Resources, LLC purchased the Salt Wells geothermal assets from Nevada Geothermal Specialists, LLC.
- ◆ Geothermal Project Area Permit Issued - Nevada Geothermal Specialists, LLC; Permit #564PA issued January 4, 2005; Area will include 6 production wells with PTD 1000', 4 injection wells with PTD 3000', 10 observation wells with PTD 1000'; Location T17N R30E, Sections 23,24,25,26,35,36. The production wells will be located in Sections 25,26,35 and the injection wells will be located in Sections 23 and 24, Churchill County. The purpose of the wells is for the support of electrical generation of an air-cooled binary cycle power plant. The geothermal resource will be used to generate electricity for commercial sale.

Naval Air Station, Fallon, Nevada, Churchill County

Hot Creek Ranch Geothermal Prospect Area, T7-8N R50E, Nye County

- ◆ Nevada Geothermal Specialists/AMP Resources; 5 thermal gradient hole locations were drilled and all sites reclaimed; November 2005.
- ◆ Nevada Geothermal Specialists/AMP Resources; Permit #616 issued September 7, 2005, API #27-023-90132 for Thermal Gradient Well UHCR-15, located in the NW/4 NE/4 Section 1, T7N R50E, Hot Creek Ranch, Nye County; The proposed TD is 500'.
- ◆ Nevada Geothermal Specialists/AMP Resources; Permits for seven temperature gradient wells issued on May 24, 2005. Permits 585 through 591 with API numbers 27-023-9125 through 27-023-9131; Located in Sections 22,29,32,33,34 T8N R50E and Sections 4,9 of T7N R50E; Proposed total depth for each well is 500 feet. Five of these wells were drilled in August 2005.

Grass Valley Geothermal Prospect Area, T24N R47E, Lander County

- ◆ Ormat Nevada, Inc.; Permits for five temperature gradient wells issued May 24, 2005. Permits 580 through 584 with API numbers 27-015-90010 through 27-015-90014; Located in Sections 15, 16, 21 T24N R47E; Proposed total depth for each well is 500 feet. Spud Jun 24, 2005 Welsco Drilling rig; Completed drilling of all 5 holes July 23, 2005.

Hot Sulphur Springs (Tuscarora), T41N R52E, Elko County, Earth Power Resources

- ◆ The power sales contract with Sierra Pacific for this project has been cancelled - <http://puc.state.nv.us/ELECTRIC/proppen.pdf>
- ◆ The Elko County Planning Commission approved an application for a zoning change and a conditional use permit giving Earth Power Resources a green light to begin construction of the power plant in Independence Valley, near Tuscarora, Elko County, Nevada. This project has been plagued with delays caused from permitting and cultural resource problems; Nevada State geothermal project area permit #526PA, Aug 2003.

Rye Patch/Humboldt House KGRA, T31-32N R32-34E, Pershing County

- ◆ Rye Patch Power Plant, 12 MW, 90% complete

Black Warrior Peak, T23N R25E, Washoe County

- ◆ NORAMEX Corp.; Geothermal lease application filed 3/5/2005, Black Warrior Peak area, Washoe County, Nevada; Section 8, 640 acres; Pending.
- ◆ Vancouver, B.C. - Nevada Geothermal Power Inc. (NGP), NORAMEX, announced that it has acquired 7 square miles of private land and has applied for a one section federal geothermal lease south and east of Black Warrior Peak, Washoe County, Nevada. The leases are on private land and are subject to a 3.5% royalty on gross revenue from electricity sales; however, NGP can purchase the royalty for US\$1,000,000. Leases include surface and water rights. <http://www.nevadageothermal.com/s/BlackWarrior.asp>

Blue Mountain Geothermal Prospect Area, T36N R34E, Humboldt County

- ◆ NORAMEX CORP.; Permit #617 issued Sep 22, 2005 for Industrial Production well #26A-14; API #27-013-90045; Located in NW/4 SW/4, Section 14, T36N R34E; Proposed total depth is 6000'; Production well location in the Blue Mountain geothermal project area 605PA; Humboldt County, Nevada; Permitted location.
- ◆ NORAMEX CORP.; Permit #618 issued Sep 22, 2005 for Industrial Production well #38-14; API #27-013-90046; Located in SW/4 SW/4, Section 14, T36N R34E; Proposed total depth is 6000'; Production well location in the Blue Mountain geothermal project area 605PA; Humboldt County, Nevada; Permitted location.
- ◆ NORAMEX CORP.; Permit #619 issued Sep 22, 2005 for Industrial Production well #63-14; API #27-013-90047; Located in SW/4 NE/4, Section 14, T36N R34E; Proposed total depth is 2000'; Production well location in the Blue Mountain geothermal project area; 605PA; Humboldt County, Nevada; Permitted location.
- ◆ NORAMEX CORP.; Permit #613, issued Aug 31, 2005, API #27-013-90042 for Thermal Gradient Well 7; location NW/4 NW/4, Section 14, T36N R34E; Humboldt County; Proposed total depth is 1640'; Permitted location.
- ◆ NORAMEX CORP.; Permit #614 issued Aug 31, 2005; API #27-013-90043 for Thermal Gradient Well 12, Located in SW/4 SE/4 Section 22, T36N R34E, Humboldt County; Proposed total depth is 1640'; Permitted location.
- ◆ NORAMEX CORP.; Permit #615 issued Aug 31, 2005; API #27-013-90044 for Thermal Gradient Well 15, Located in SW/4 SW/4 Section 14, T36N R34E, Humboldt County; Proposed total depth is 1640'; Permitted location.
- ◆ NORAMEX CORP.; Project Area Permit 605 issued July 25, 2005; Allows for a total of 8 production wells with estimated depths of 6,000' and 2000'. The project area encompasses Sections 1, 10-15, 22-26, T36N R34E.

Pumpnickel Valley Geothermal Prospect Area, T33N R40E, Humboldt County

- ◆ Phase I of the drilling program for the Pumpnickel Valley Geothermal Project has been completed with the drilling of 5 thermal gradient holes. The cuttings have been sent to the NBMG and water samples sent to Thermochem labs. A summary report is expected within weeks.
- ◆ NORAMEX CORP.; Permit #608 issued August 8, 2005 for Thermal Gradient Well PVTG-N, API #27-031-90041, Located in NW/4 SW/4 Section 4, T33N R40E, Humboldt County; Proposed total depth is 1640'; This location is on fee land.
- ◆ NORAMEX CORP.; Permit #607 issued August 8, 2005 for Thermal Gradient Well PVTG-GB, API #27-031-90040, Located in NW/4 NE/4 Section 9, T33N R40E, Humboldt County; Proposed total depth is 1640'; This location is on fee land; Spud Aug 30, 2005, drilled to TD 1600' Sep 10, 2005; Tubing ran for temp gradient; Shut-in.
- ◆ NORAMEX CORP.; Permit #604 issued July 5, 2005 for Thermal Gradient Well PVTG-A, API #27-013-90039, Located in NW/4 NW/4 Section 9, T33N R40E, PTD 1000'.
- ◆ NORAMEX CORP.; Permit #603 issued July 5, 2005 for Thermal Gradient Well PVTG-B, API #27-013-90038, Located in SW/4 NE/4 Section 5, T33N R40E, PTD 1000'.
- ◆ NORAMEX CORP.; Permit #602 issued July 5, 2005 for Thermal Gradient Well PVTG-K, API #27-013-90037, Located in SW/4 SW/4 Section 27, T33N R40E, PTD 1000'.
- ◆ NORAMEX CORP.; Permit #601 issued July 5, 2005 for Thermal Gradient Well PVTG-J, API #27-013-90036, Located in SE/4 NE/4 Section 33, T33N R40E; Spud Sep 12, 2005, drilled to TD 1180' Sep 17, 2005; Tubing ran for temp gradient; Shut-in.
- ◆ NORAMEX CORP.; Permit #600 issued July 5, 2005 for Thermal Gradient Well PVTG-E, API #27-013-90035, Located in SE/4 SW/4 Section 33, T33N T40E; Spud Aug 18, 2005, drilled to TD 1000' Aug 23, 2005; Tubing ran for temp gradient; Shut-in.

- ◆ NORAMEX CORP.; Permit #599 issued July 5, 2005 for Thermal Gradient Well PVTG-C, API #27-013-90034, Located in NE/4 NE/4 Section 5, T33N R40E; Spud Aug 25, 2005, drilled to TD 1000' Aug 29, 2005; Tubing ran for temp gradient; Shut-in.
- ◆ NORAMEX CORP.; Permit #598 issued July 5, 2005 for Thermal Gradient Well PVTG-G, API #27-013-90033, Located in SE/4 NW/4 Section 33, T33N R40E, PTD 1000'.
- ◆ NORAMEX CORP.; Permit #597 issued July 5, 2005 for Thermal Gradient Well PVTG-H, API #27-013-90032, Located in NW/4 NW/4 Section 33, T33N R40E, Drilled to TD; Tubing ran for temp gradient; Shut-in.
- ◆ NORAMEX CORP.; Permit #596 issued July 5, 2005 for Thermal Gradient Well PVTG-I, API #27-013-90031, Located in NW/4 NE/4 Section 33, T33N R40E, PTD 1000'.
- ◆ NORAMEX CORP.; 3D "E-Scan" resistivity survey (Premier Geophysics) began June 23, 2005; T33N R40E, Pumpnickel Valley, Humboldt County, Nevada - http://www.nevadageothermal.com/s/News.asp?ReportID=110489&_Type=News&_Title=Nevada-Geothermal-Begins-Mapping-of-Deep-Geothermal-Source-Waters-at-Pumper
- ◆ Oct 14, 2004 Nevada Geothermal Power Inc announced that Inovision Solutions Inc. will fund exploration and development for the Pumpnickel project to earn a 50% joint venture interest. Also, Noramex (wholly owned subsidiary of NGP) has been awarded a US DOE cost-sharing contract, signed Oct 13, where DOE will fund 80% of an initial field evaluation program at the Pumpnickel project. Total budget for this work is \$740,340 and will include a 3-D "E-SCAN" resistivity survey and six temperature gradient holes. Pumpnickel Valley is southeast of Winnemucca, south of Golconda, in Humboldt County, Nevada. - http://www.nevadageothermal.com/s/News.asp?ReportID=90469&_Type=News&_Title=Pumpnickel-Valley-Geothermal-Project

Hazen, Nevada, KGRA T20-21N R25-26E, Churchill and Lyon Counties

- ◆ Geothermal Rail Industrial Development LLC; Permit #609 issued August 22, 2005, API #27-019-90017 for Thermal Gradient Well HTG 1; Location NE/4 NW/4, Section 19, T20N R26E, Lyon County; Proposed total depth is 800'; Spud Sep 6, 2005; Welsco Drilling Corp.; Completed drilling Oct 5, 2005.
- ◆ Geothermal Rail Industrial Development LLC; Permit #610 issued August 22, 2005, API #27-019-90018 for Thermal Gradient Well HTG 2; Location SE/4 NW/4 NW/4, Section 19, T20N R26E, Lyon County; Proposed total depth is 500'; Spud Sep 6, 2005; Welsco Drilling Corp.; Completed drilling Sep 9, 2005; TD 460'.
- ◆ Geothermal Rail Industrial Development LLC; Permit #611 issued August 22, 2005, API #27-019-90019 for Thermal Gradient Well HTG 3; Location NW/4 NW/4 NW/4, Section 17, T20N R26E, Lyon County; Proposed total depth is 500'; Spud Sep 28, 2005; Welsco Drilling Corp.; Completed drilling Sep 30, 2005.
- ◆ Geothermal Rail Industrial Development LLC; Permit #612 issued August 22, 2005, API #27-019-90020 for Thermal Gradient Well HTG 4; Location NW/4 SW/4, Section 17, T20N R26E, Lyon County; Proposed total depth is 500'; Spud Sep 9, 2005; Welsco Drilling Corp.; Completed drilling Sep 24, 2005.
- ◆ Geothermal Rail Industrial Development project (GRID-USA) announced. Plans for alternative energy industrial park east of Reno, Nevada. Contact 1025 Ridgeview Dr., Ste. 100, Reno, NV 89509, (775) 826-3333 or (866) GRIDUSA. See website - <http://www.gridusa.biz/>

Emigrant Geothermal Project, T1S R36E, Esmeralda County

- ◆ Fish Lake Valley, – Esmeralda Energy Company/Geo-Energy Partners-1983 Ltd. (GEO-83) Signed a DOE cost sharing award for the Emigrant Slimhole Drilling Project (GRED III Award). The DOE will fund 80% of a 4000' core hole at a location on GEO-83's leases at the project in Esmeralda County. The DOE total cost share is estimated at \$592,000 of the total budget of \$740,000. Esmeralda is seeking a power purchase agreement for the project. GeothermEx's PRP/PIER report estimated Emigrant to be capable of between 49-118 MW. For more information, contact Jack McNamara (818) 865-8515, jackmack@suesec.com.

Spencer Hot Springs Area, T17N R45E, Lander County

- ◆ The Greater Austin Chamber of Commerce has requested that Lander County proceed with Nevada Division of State Lands Question 1 Program Grants to purchase 200 acres of open space recreation at Spencer Hot Springs. There was discussion regarding this at the March 28, 2005 Commission meeting. The Chamber of Commerce has requested \$5,000 from the County for a feasibility study of the project.
- ◆ BLM Environmental Assessment completed for geothermal leases filed in T17N R45E. BLM report recommends approval of geothermal lease applications, N77778, N77779, N77780 - http://www.nv.blm.gov/bmountain/eis/Spencer_Hot_Springs/Spencer_Hot_Springs_Final_EA_fp.htm

Ruby Valley/Ruby Lake, Sulfur Hot Springs, T31N R59E, Elko County

- ◆ Elko BLM notes public interest in a non-competitive lease sale for parcel(s) in the area. Analysis is on hold pending completion of an EA on the district-wide geothermal leasing program.

Recent BLM Geothermal Leases Filed

- ◆ For more information on BLM leases in Nevada, see the website: <http://www.blm.gov/lr2000>

At the time of this report, the BLM website has been down for several months, due to "litigation" and will be unavailable for an undisclosed amount of time. Call (775) 861-6500 for information.

Non-Competitive Geothermal BLM Lease Applications (11/04-03/05), Pending:			
Kingzett, James M. 11/03/2004	NVN 79275; 2560.00 acres	T22N R27E (12,24) T22N R28E (18,30)	Hazen, Churchill & Lyon Cos.
Kingzett, James M. 11/03/2004	NVN 79276; 2560.00 acres	T21N R26E (36) T21N R27E (30)	Hazen, Churchill & Lyon Cos.
Kingzett, James M. 11/03/2004	NVN 79277; 2560.00 acres	T21N R27E (2) T22N R27E (32,34,36)	Hazen, Churchill & Lyon Cos.
Kingzett, James M. 11/03/2004	NVN 79278; 2560.00 acres	T21N R27E (4,6,8,18)	Hazen, Churchill & Lyon Cos.
Southwest Geothermal 11/04/2004	NVN 79291; 1935.86 acres	T20N R26E (24) T20N R27E (6) T21N R26E (36)	Hazen, Churchill & Lyon Cos.
Southwest Geothermal 11/04/2004	NVN 79292; 1985.23 acres	T20N R26E (2,12,14)	Hazen, Churchill & Lyon Cos.
Pacific Spar Corp. 11/29/2004	NVN 79352; 2560 acres	T28N R32E (22,26)	Near Woolsey, Pershing County
Barrick Goldstrike Mines 1/18/2005	NVN 79646; 560 acres	T36N R49E (22,23)	Tuscarora Mts, Eureka County
Barrick Goldstrike Mines 1/18/2005	NVN 79647; 1703.679 acres	T36N R49E (12,13,24,26) T36N R50E (19,30)	Tuscarora Mts., Elko/Eureka
Vulcan Power Co. 1/25/2005	NVN 79662; 1280 acres	T16N R30E (4,9)	Near Salt Wells, Churchill Co.
Vulcan Power Co. 1/25/2005	NVN 79663; 2213.10 acres	T17N R30E (20,21,28,29)	Near Salt Wells, Churchill Co.
Vulcan Power Co. 1/25/2005	NVN 79664; 1280 acres	T17N R30E (32,33)	Near Salt Wells, Churchill Co.
Vulcan Power Co. 1/25/2005	NVN 79665; 2560 acres	T17N R30E (13,14,16,17)	Near Salt Wells, Churchill Co.
Vulcan Power Co. 1/25/2005	NVN 79666; 2560 acres	T17N R30E (9,10,11,12)	Near Salt Wells, Churchill Co.
Vulcan Power Co. 1/25/2005	NVN 79667; 1920 acres	T16N R30E (10,11,12)	Near Salt Wells, Churchill Co.
Vulcan Power Co. 1/25/2005	NVN 79668; 2080 acres	T17N R30E (1,2,3,4)	Near Salt Wells, Churchill Co.
Miller, Dusty LLC 2/2/2005	NVN 79705; 1280 acres	T13N R33E (34,35)	Near Wedell Springs, Gabbs Valley, Mineral County
Miller, Dusty LLC 2/2/2005	NVN 79706; 1280 acres	T12N R33E (15,16)	Near Wedell Springs, Gabbs Valley, Mineral County
NORAMEX CORP 3/5/2005	NVN 79745; 640 acres	T23N R25E (8)	Near Black Warrior Peak Washoe County
Kingzett, James M 3/15/2005	NVN 79821; 2560 acres	T20N R26E (2,12,14,28)	Hazen, Churchill County
Kingzett, James M 3/15/2005	NVN 79822; 2560 acres	T21N R27E (12,14,22) T21N R28E (34)	Hazen, Churchill County
Kingzett, James M 3/15/2005	NVN 79823; 2560 acres	T20N R27E (6) T21N R27E (10,28,32)	Hazen, Churchill County
Kingzett, James M 3/15/2005	NVN 79824; 2560 acres	T21N R28E (6) T22N R28E (21,28,32)	Hazen, Churchill County

Recent Geothermal BLM Leases Issued:			
Katz, Lewis 5/24/2004	NVN 74266; 640.00 acres	T28N R49E (10)	Crescent Valley, Eureka Co.
Cortez Joint Venture 5/24/2004	NVN 74501; 640.56 acres	T28N R49E (4)	Crescent Valley, Eureka Co.
Geo-Energy Partners 7/2/2004	NVN 76208; 640.00 acres	T01S R36E (16)	Fish Lake Valley, Esmeralda Co.
Evans David M. 7/22/2004	NVN 76302; 1912.00 acres	T26N R35E (25) T26N R36E (29,30)	Buena Vista Valley, Pershing Co.
Kingzett James M 7/22/2004	NVN 77645; 2,560.00 acres	T21N R26E (10,14,24,26)	Hazen, Lyon/Churchill Cos.
Western Geothermal Ptnrs 7/22/2004	NVN 77658; 642.46 acres	T44N R30E (1)	Howard HS, Humboldt Co.

Geo-Energy Partners 9/16/2003; 7/22/2004	NVN 77627; 2560.0 acres	T01S R36E (14,15,21,22)	Fish Lake Vly, Esmeralda Co.
Geo-Energy Partners 9/16/2003; 7/22/2004	NVN 77628; 2556.24 acres	T01S R36E (3,10,11,13)	Fish Lake Vly, Esmeralda Co.
NORAMEX CORP. 10/1/2003; 7/22/2004	NVN 77668; 1959.00 acres	T36N R34E (10,12,22)	West of Blue Mtn, Humboldt Co.
NORAMEX CORP. 10/1/2003; 7/22/2004	NVN 77669; 1338.94 acres	T36N R34E (24,26)	West of Blue Mtn, Humboldt Co.
Kingzett, James M. 10/21/2003; 7/22/2004	NVN 77740; 2560.00 acres	T21N R26E (2,8,12,16)	N of Hazen, Churchill & Lyon Cos.
Kingzett, James M. 10/21/2003; 7/22/2004	NVN 77741; 2560.00 acres	T21N R26E (4) T22N R26E (34,35,36)	N of Hazen, Churchill & Lyon Cos.
Bright-Holland Company 2/19/2004; 7/22/2004	NVN 78098; 800.00 acres	T34N R23E (13,24)	Fly Ranch, Washoe County
Bright-Holland Company 2/19/2004; 7/22/2004	NVN 78099; 2192.61 acres	T34N R23E (1-3,10-12)	Fly Ranch, Washoe County
Bright-Holland Company 2/19/2004; 7/22/2004	NVN 78100; 2083.23 acres	T34N R23E (14,15,22,23)	Fly Ranch, Washoe County
Western Geothermal Ptnrs 3/4/2004; 7/22/2004	NVN 78144; 1280.00 acres	T02S R39E (21,22)	Silverpeak, Esmeralda County
Western Geothermal Ptnrs 6/14/2004; 9/30/2004	NVN 78687; 1180.00 acres	T24N R43E (32,35)	Shoshone Range, Lander County
Western Geothermal Ptnrs 6/14/2004; 9/30/2004	NVN 78688; 2525.00 acres	T23N R43E (3,6,8,9)	Shoshone Range, Lander County
Western Geothermal Ptnrs 7/2/2004; 9/30/2004	NVN 78780; 1,918.36 acres	T02S R39E (2,11,14)	Silverpeak, Esmeralda Co.
McGee, Charles M. 11/12/2003, 11/3/2004	NVN 77801; 635.00 acres	T14N R43E (34)	Big Smoky Valley, Nye County
JAYCOR Mining Inc 6/3/2004, 10/28/2004	NVN 78572; 1920.00 acres	T17N R39E (23,24,26)	Smith Creek Valley, Lander County

OTHER NEWS

109th Congress - Geothermal Related Bills Introduced – <http://thomas.loc.gov>

- ◆ H.R.6.ENR - Energy Policy Act of 2005 – Enrolled as agreed to or passed by both House and Senate; Signed by President Aug 8, 2005; Became Public Law Aug 8, 2005. Purpose of bill to ensure jobs for our future with secure, affordable, and reliable energy. Public Print Version H.R.6.P.P.
- ◆ H.R. 174 Geothermal Energy Initiative Act of 2005; To encourage greater use of geothermal energy resources; Sponsor Millender-McDonald, introduced in House 1/4/2005; Referred to Subcommittee on Forests and Forest Health 2/3/2005; Referred to House Subcommittee on Department Operations, Oversight, Nutrition, and Forestry 2/17/2005.
- ◆ H.R. 622 Renewable Energy Production Incentive Reform Act; To reauthorize and revise the Renewable Energy Production Incentive program, and for other purposes; Sponsor Bono, introduced in House 2/8/2005; Referred to Subcommittee on Energy and Air Quality 2/25/2005; Related Bill S. 326.
- ◆ S. 326 Renewable Energy Production Incentive Reform Act; A bill to reauthorize the Renewable Energy Production Incentive program, and for other purposes; Sponsor Smith, introduced in Senate 2/9/2005; Referred to Committee on Energy and Natural Resources 2/9/2005; Related Bill H.R. 622.
- ◆ S. 427 Renewable Energy Investment Act of 2005; A bill to amend the Public Utility Regulatory Policies Act of 1978 to provide for a Federal renewable portfolio standard; Sponsor Jeffords, introduced in Senate 2/17/2005; Referred to Committee on Energy and Natural Resources 2/17/2005.
- ◆ H.R. 610 Energy Research, Development, Demonstration, and Commercial Application Act of 2005; To provide for Federal energy research, development, demonstration, and commercial application activities, and for other purposes; Sponsor Biggert, introduced in House 2/8/2005; Referred to Subcommittee on Energy and Mineral Resources 2/9/2005; Placed on Union Calendar July 29, 2005; Calendar Number 123.
- ◆ H.R. 612 Energy Basic and Applied Sciences Act of 2005; To provide for Federal energy research, development, demonstration, and commercial application activities, and for other purposes; Sponsor Biggert, introduced in House 2/8/2005; Referred to Subcommittee on Energy 2/17/2005; Sec 407, Geothermal. Develop improved technologies for reducing the costs of geothermal energy installations; Sec 411 appropriates \$30M for Sec 407.
- ◆ H.R. 737 Renewable Energy and Energy Efficiency Act of 2005; To establish an energy program for the United States that unlocks the potential of renewable energy and energy efficiency, and for other purposes; Sponsor Woolsey, introduced in House 2/9/2005; Referred to Subcommittee on Energy 2/17/2005.

- ◆ H.R. 983 To amend title VI of the Public Utility Regulatory Policies Act of 1978 to establish a Federal renewable energy portfolio standard for certain retail electric utilities, and for other purposes; Sponsor Udall, introduced in House 2/17/2005; Referred to House Committee on Energy and Commerce 2/17/2005; Referred to House Subcommittee on Energy and Air Quality 3/22/2005.
- ◆ H.R. 1127 Renewable Energy Production Incentive Reform and Reauthorization Act; To reauthorize the renewable energy production incentive and to provide that a qualified renewable energy facility shall not be assigned a priority for eligibility or allocation of appropriated funds on the basis of the energy source used at such facility; Sponsor Terry, introduced in House 3/3/2005; Referred to House Committee on Energy and Commerce 3/3/2005; Referred to House Subcommittee on Energy and Air Quality 3/22/2005.

BLM Sets Meeting to Hear Suggestions for Managing Geothermal Energy

- ◆ The Bureau of Land Management will hold a public meeting in Reno, Nevada to solicit suggestions on how best to implement the provisions of the Energy Policy Act of 2005 that relate to geothermal energy on the public lands. The meeting will be held on Thursday, November 17, 2005 at the Hilton Hotel, 2500 East Second Street in Reno from 1:00 – 4:00 p.m. local (Pacific) time. Representatives of the geothermal industry and interested members of the public from across the region and the nation will be invited to offer suggestions for implementation and to discuss their interests and concerns with the geothermal sections of the Act. Contact John Bebout (202) 557-3377.

New BLM Cost Recovery Fees Take Effect November 7

- ◆ November 1, 2005 – The BLM will begin charging cost recovery fees for several mineral extraction activities on public lands, effective November 7, 2005 – Copies of the final rule are available at local BLM offices, or may be accessed through <http://www.gpoaccess.gov> published in The Federal Register Vol. 70, No. 194, page 58854 - http://frwebgate.access.gpo.gov/cgi-bin/getpage.cgi?position=all&page=58854&dbname=2005_register. The BLM issued this final rule to amend its mineral resources regulations to increase certain fees and to impose new fees to cover costs of processing documents relating to its minerals programs. The new fees include costs of environmental studies, lease applications, name changes, corporate mergers, lease consolidations and reinstatements, and other processing related costs. These fees will extend to oil and gas, mining law administration, geothermal, coal, sand and gravel permits, and other minerals extraction activities. The final rule provides for case-by-case fees, as well as fixed fees. The new fees are listed in Table 1 of the final rule. For geothermal leases, Noncompetitive Lease Application fees will increase from \$75 to \$335 and Competitive Lease Application fees will increase from \$0 to \$130.
- ◆ August 30, 2005 – The recently enacted Energy Policy affects the BLM cost recovery proposal. The Policy has limited the BLM's authority to recover some of its costs, and requires deferral of fees for processing permits, which are related to drilling for fluid minerals, until a pilot program to improve the process has been completed. Any new fees related to APDs and GPDs, which were included in the BLM proposal, will not be included in the final rule, expected to be issued this year. However, geophysical exploration permits are not affected by the new legislation and the BLM will include the new fees for those permits in their rule, which they plan to issue after processing public comments. - http://www.blm.gov/nhp/news/releases/pages/2005/pr050830_energy.htm
- ◆ The BLM issued a proposed rule July 19, 2005 for regulation changes that would enable the agency to recover costs of processing documents related to mineral operations on public lands. The proposal would authorize the BLM to increase or set new fees for environmental-impact studies, monitoring activities, and other processing-related actions. The proposal includes solid minerals as well as fluid minerals; it covers oil & gas Applications for Permits to Drill (APDs) and geothermal permits to drill (GPDs) and geophysical exploration surveys. The fees would be phased in over 5 years, with the first year fees set at \$1600 for APDs and GPDs and \$500 for geophysical exploration permits. Each year the fees would increase by \$500 until the full fee of \$4000 for APDs, \$3500 for PDs and \$2500 for geophysical exploration permits is met. Currently, there are no fees for these three types of permits. The BLM published its proposal in the Federal Register, opening up a 30-day public comment period that will close on August 18, 2005.

Governor Guinn Names Wagner Energy Advisor

- ◆ August 24, 2005 – Governor Kenny Guinn announced the appointment of Rebecca Wagner as his energy advisor and the director of Nevada's Office of Energy. She replaced Richard Burdette from the Office of Energy, where she has served as interim advisor since April 27, 2005. Prior to her position in the Office of Energy, Wagner was Public Information Officer at the PUC from December 2003. http://gov.state.nv.us/pr/2005/PR_2005-08-24WAGNER.htm

- ◆ **Partnership Developing Renewable Energy Center at Redfield Campus -**
<http://www.unr.edu/geothermal/UNRREC.htm>

- ◆ On November 11, 2005, Ormat Technologies, Inc. (NYSE ORA) received the Nevada Governor's Distinguished Business of the Year award for 2005. Governor Kenny Guinn and Lieutenant Governor Lorraine Hunt presented the Award to Daniel Schochet, Vice President of Ormat, at the Governor's Industry Appreciation Dinner at the Reno Hilton on November 8, 2005. The Economic Development Authority of Western Nevada (EDAWN) co-hosted the award ceremony with the Northern Nevada Development Authority, in cooperation with the Nevada Commission on Economic Development. The Award is given to companies that exemplify good corporate citizenship.
- ◆ ORMAT received the Geothermal Industry Excellence Award and UNR received the Geothermal Community Excellence Award at the recent GRC Annual Meeting/GEA Trade Show held at the Hilton in Reno for their contributions in the partnership developing the only college campus in the world to be powered completely by geothermal energy. ORMAT will provide up to one megawatt of electricity and hot water for heating and research to the university. Some of the goals for the UNR-REC are to provide geothermal based electricity to power the facility, conduct research on hydrogen production, and provide classrooms and laboratories for research and education in geothermal and renewable energy. The campus is located in south Reno near the Steamboat Springs geothermal area. To open Fall 2005.

Public Utilities Commission of Nevada - <http://www.puc.state.nv.us/>

- ◆ August 8, 2005 – The PUC granted Sierra Pacific Power and Nevada Power Co an exemption from fines for Noncompliance with the Renewable Energy Portfolio Standard during Compliance Year 2004. The Utility is required to provide a detailed compliance plan to the Commission by December 15, 2005. http://puc.state.nv.us/electric/dkt_05-4003/05-4003io.pdf
- ◆ April 1, 2005 - Sierra Pacific Power Co. and Nevada Power Co. filed the Annual Report with the PUC of Nevada in regard to their efforts to comply with the renewable energy portfolio standard. The report is available for public review at the PUC offices in Carson City and Las Vegas. The PUC must issue an order stating whether or not the companies complied with the law, within 30 days. Regulatory Operations Staff will conduct an investigation and present their report to the PUC no later than April 27, 2005. The companies have asked regulators to exempt them from fines for failure to comply, which prompted the introduction of bill SB188 to the 2005 Legislature.

CA Energy Commission Geothermal Program

- ◆ The California Energy Commission's (Energy Commission) Geothermal Program announces a new grant solicitation for geothermal projects. Up to \$3.9 million is available from the Geothermal Resources Development Account (GRDA) to fund projects that relate to geothermal development, planning, or mitigation. Project funding is contingent upon the Energy Commission receiving the projected GRDA revenues and the authority to expend those revenues for the fiscal year 2005/2006. Project applications closed on November 14, 2005, 4:00 p.m. <http://www.energy.ca.gov/contracts/index.html#grda>

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

- ◆ Contact Information:
 - DIRECTOR - Dr. Lisa Shevenell, Hydro geologist. Email: geothermal@mines.unr.edu - Phone (775) 784-1779 Fax (775) 327-5801. Nevada Bureau of Mines and Geology, University of Nevada, Reno, MS 178, Reno, NV 89557-0057
 - ASSOCIATE DIRECTOR – Dr. Allen Gates, Professor and Interim Chair, Mechanical Engineering. Email: gates@unr.edu - Phone (775) 784-6906 Fax (775) 784-1701. Department of Mechanical Engineering, University of Nevada, Reno, MS 256, Reno, NV 89557
 - PROGRAM OFFICER – Peggy Brown, Central Point of Contact for the Great Basin Center for Geothermal Energy. Email: geothermal@mines.unr.edu - Phone (775) 784-7018 Fax (775) 327-5801. Great Basin Center for Geothermal Energy, 259 Paul Laxalt Mineral Research Building, University of Nevada, Reno, MS 172, Reno, NV 89557-0138
- ◆ Great Basin Center for Geothermal Energy (GBCGE) helped organize, host, and participated in three geothermal meetings at the end of July 2005. On July 21-22 the Nevada Southwest Energy Program (NSWEP) held their peer review of funded projects at the recently completed Redfield campus south of Reno. Approximately 40 people participated in the introduction of the NSWEP supported Renewable Energy Center at Redfield, as well as participating in the subsequent project reviews. The Geothermal Energy Association (GEA) organized and co-hosted a workshop with the GBCGE on July 25, 2005. Approximately 25 individuals participated in the Power Supply Curve Workshop held on the University of Nevada, Reno campus. With participant input, GEA staff subsequently prepared a power supply curve for presentation to the Western Governor's Association in early August. The GBCGE also hosted the DOE Exploration peer review on July 26-

28 during which 21 projects being conducted by universities, national laboratories and the USGS were presented and reviewed.

- ◆ Stephanie Luongo and Benjamin Haas (College of Engineering) won the Nevada Governor's Cup for their business plan to develop a shrimp farm at the Redfield Campus and use geothermal energy to provide the necessary temperature control. The team had a tremendous amount of support from Dr. Mehdi Etezadi and Dr. John Kleppe. Their plan beat 33 other teams entered in the Cup.
- ◆ Prof. Geoffrey Blewitt at The Great Basin Center for Geothermal Energy at University of Nevada, Reno reports that there are now 60 stations installed in the MAGNET GPS network in northern Nevada. The latest stations to be installed were in the Honey Lake area. This network has now been operational for over one year, and is scheduled to deliver high-resolution crustal strain data by summer of 2006. For more information, visit the Nevada Geodetic Laboratory on-line at <http://geodesy.unr.edu>.

LINKS: USEFUL DATABASES AND GEOTHERMAL INFORMATION

- ◆ **American Council on Renewable Energy (ACORE)** – <http://www.acore.org/>
- ◆ **American Geological Institute Government Affairs Program** - <http://www.agiweb.org/gap>
- ◆ **Black Rock-High Rock NCA (National Conservation Area) planning website** – <http://www.nv.blm.gov/Winnemucca/>
- ◆ **Bureau of Land Management – Nevada Geothermal Program** - <http://www.nv.blm.gov/minerals/geothermal/index.htm>
- ◆ **Council of State Governments – TrendsAlert; Renewable Energy and State Economics** – <http://www.csg.org>. Summarizes issues and policy options for state officials, regarding economic potential of renewable energy.
- ◆ **Geo-Heat Center, Oregon Institute of Technology, Klamath Falls, Oregon** - <http://geoheat.oit.edu/>
- ◆ **GeoPowering the West** - http://www.eere.energy.gov/geothermal/deployment_gpww.html
- ◆ **GeoPowering the West, GeoPowering the West Calendar** – http://www.eere.energy.gov/geothermal/gpw_calendar.html
- ◆ **Geothermal Biz.com** - <http://www.geothermal-biz.com/>
Geothermal biz.com was created to help the geothermal entrepreneur—companies, small businesses, Native American tribes, homeowners, and individuals—develop geothermal direct use and small power generation projects.
- ◆ **Geothermal Education Office** - <http://www.geothermal.marin.org/>
PURPOSE. To promote public understanding about geothermal resources and its importance in providing clean sustainable energy while protecting our environment. SCOPE. The Geothermal Education Office (GEO) produces and distributes educational materials about geothermal energy to schools, energy/environmental educators, libraries, industry, and the public.
- ◆ **Geothermal Energy Association** - <http://www.geo-energy.org/>
- ◆ **Geothermal Resources Council** - <http://www.geothermal.org>
- ◆ **GeothermEx, Inc** – <http://www.geothermex.com>
Designed to provide information of use to geothermal developers, including downloads of the PIER Geothermal Database of resources in western Nevada and California.
- ◆ **Great Basin Center for Geothermal Energy at the University of Nevada, Reno** - <http://www.unr.edu/geothermal/>
- ◆ **Idaho National Engineering and Environmental Laboratory (INEEL)** - <http://geothermal.inel.gov/>
- ◆ **James & James Science Publishers; Provider of information for energy and environment professionals worldwide; On-line database of renewable energy suppliers** – <http://www.jxj.com/>
- ◆ **National Geothermal Collaborative** – <http://www.geocollaborative.org/>
- ◆ **National Renewable Energy Laboratory (NREL)** - <http://www.nrel.gov/geothermal>. Geothermal Program; Access reports and publications on geothermal energy by Gerald Nix, Charles Kutscher, Barbara Farhar, Keith Gawlik, Brandon Owens, Walter Short.
- ◆ **Nevada Bureau of Mines and Geology, MI-2003, “The Nevada Mineral Industry 2003”** - <ftp://comstock.nbmgs.unr.edu/pub/dox/mi/03.pdf>
- ◆ **Nevada Bureau of Mines and Geology, Geothermal Energy** - <http://www.nbmgs.unr.edu/geothermal/index.html>
- ◆ **Nevada Commission on Mineral Resources, Division of Minerals** - <http://minerals.state.nv.us/programs/ogg.htm>

- ◆ Nevada State Office of Energy, Renewable Energy & Energy Conservation Task Force, including report by Mary Riddel “Potential Economic Impact of Nevada’s Renewable Energy Resources” - <http://energy.state.nv.us/taskforce/default.htm>
- ◆ Nevada Public Utilities Commission - <http://www.puc.state.nv.us/>
<http://www.puc.state.nv.us/ELECTRIC/propgen.pdf>
- ◆ Office of the Governor, Nevada State Energy Office - <http://energy.state.nv.us/taskforce/default.htm>
- ◆ Office of Scientific and Technical Information; Subject portals on renewable energy and energy efficient technologies <http://www.osti.gov/subjectportals/>
- ◆ Renewable Energy Policy Project & CREST (Center for Renewable Energy & Sustainable Technology) - <http://www.repp.org/>
- ◆ Sandia National Laboratories Geothermal Research Dept.
<https://cfwebprod.sandia.gov/cfdocs/GPI/index.cfm>
- ◆ Sierra Pacific Resources, Renewables RFP - <http://www.sierrapacificresources.com/company/RFPs/renewablerfp.cfm>
- ◆ Southern Methodist University Geothermal Laboratory - <http://www.smu.edu/geothermal/>
- ◆ Stanford Geothermal Program - <http://ekofisk.stanford.edu/geotherm.html>
- ◆ U.S. Department of Agriculture, Rural Development - <http://www.rurdev.usda.gov>
- ◆ U.S. Geological Survey, USGS - Geopubs
Online Geologic Publications of the Western United States - <http://geopubs.wr.usgs.gov/>

Due to changes in funding the Geothermal Update Newsletter will be published every other month through the remainder of 2005.

Information compiled by the **Nevada Division of Minerals** with assistance from:

EHNI ENTERPRISES, INC.
P.O. Box 4228, Carson City
NV 89702-4228

Under USDOE Cooperative Agreement: SEP/CA/03/006 supporting GeoPowering the West and a grant from the Western Area Power Administration
12155 W. Alameda Parkway
P.O. Box 281213
Lakewood, Colorado 80228-8213

For further information regarding GeoPowering Nevada or Nevada’s Geothermal Program contact Christy Morris, Oil Gas and Geothermal Program Manager at the Nevada Division of Minerals 775-684-7045, Fax: 775-684-7052, or clmorris@govmail.state.nv.us (email).