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NEVADA GEOTHERMAL UPDATE

September 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) Beowawe Power LLC/Caithness Operating | 16.6 MW | S13, T31N R47E |
| <ul style="list-style-type: none"> Sierra Pacific Power Co. signed a twenty-year contract with Beowawe Power LLC for geothermal power from their plant in Nevada. The plant will begin supplying power to Sierra Pacific In January 2005. 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 August 29, 2005; DRILLING. | | |
| Bradys Power Plant (1992) Brady Power Partners/ORMAT Nevada Inc. | 26.1 MW | S12, T22N R26E |
| <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. | | |
| Desert Peak Power Plant (1985) Brady Power Partners/ORMAT Nevada Inc. | 12.5 MW | S21, T22N R27E |
| <ul style="list-style-type: none"> 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 | | |
| Dixie Valley Power Plant (1988) 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 |

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; TESTING.

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. TESTING.
- ◆ 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; TESTING.
- ◆ 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' September 19, 2005. TESTING.

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 8, 2005, Equipment 2000 drilling rig; DRILLING.
- ◆ 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; 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'; Permitted location.

- ◆ 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.

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 (AMP); Permit #568; API #27-001-90308 Industrial Production Well "PW-2" issued March 3, 2005; SW/4 NW/4 of Section 36, T17N R30E; Salt Wells KGRA, Churchill County, Nevada. Production well permit in Project Area 564PA; PTD 750'; Spud date 4-8-2005, completed 4-19-2005. The first of up to four new geothermal wells at Salt Wells (PW-2) was successfully drilled by Amp Resources, LLC in the spring of 2005 to a depth of 143.6 m (471 ft). A static temperature survey showed a peak temperature of 145°C and a flowing temperature of 140°C. The well was flowed at a rate of 2500 gpm for 46 hours with no evidence of drawdown. The well is likely to produce between 4 and 5 MW of electricity, approximately one-third of the planned capacity of the proposed power plant. An article discussing the project can be found at: <http://www.lahontanvalleynews.com/article/20050408/News/104080011>
- ◆ Nevada Geothermal Specialists LLC; Permit #569; API #27-001-90309 Industrial Production Well "PW-3" issued March 3, 2005; SE/4 SE/4 of Section 26, T17N R30E; Salt Wells KGRA, Churchill County, Nevada. Production well permit in Project Area 564PA; PTD 750'. Lang drilling rig; Spud date 6-1-2005, completed 6-8-2005.
- ◆ 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 #571; API #27-001-90311 Industrial Injection Well "IW-1" 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 5-11-2005, completed 5-22-2005.

- ◆ 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 #566; API #27-001-90307 Industrial Production Well "PW-1" issued January 14, 2005; NW/4 NW/4 of Section 36, T17N R30E; Salt Wells KGRA, Churchill County, Nevada. First production well permit in Project Area 564PA; PTD 750'. Lang drilling rig; Spud date 4-28-2005, completed 5-8-2005.
- ◆ 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

- ◆ Fallon Naval Air Station; T18N R29E, Churchill County, Nevada; Well FOH #3; Welch & Howell, WH Drilling Rig #17 deepened well; FOH #3 was originally drilled in 1993 to TD of 6952'; 4.5" production liner was set from 2850'-TD, BHT 376 deg F; NAS is deepening well to augment resource database. Project completed.

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

- ◆ 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'; New permitted location.
- ◆ 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/propgen.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.
- ◆ Earth Power Resources, Inc.; State Permit #526PA issued Aug 5, 2003 for a geothermal project area to include 8 production wells (PTD 4000'), 6 injection wells (PTD 4000'), and 10 observation wells (PTD 4000'); The project area will encompass sections 4,5,8,9,16, & 17, T41N R52E; Hot Sulphur Springs, near Independence

Valley and Tuscarora, Elko County, Nevada. The purpose of the project area is to supply a 25 MW power plant for a power purchase contract awarded by Sierra Pacific.

- ◆ Earth Power Resources, Inc.; State Permit #528 for Observation Well #67-8 issued Aug 8, 2003; API #27-007-90028; NE/4 SE/4, Section 8, T41N R52E; Hot Sulphur Springs, Elko County, Nevada; Projected total depth 4000'; 1st observation well location in Project Area 526PA; Spud Dec 5, 2003 Lang Drilling Company rotary rig; Set 7" at 1350', set 4.5" at 2490', shut down 12/18-28 for Holidays; Resumed operations on Dec 29 with Boart Longyear continuous core rig; Drilled to TD 3810'; Ran tests, evaluating; COGITATING.
- ◆ Earth Power Resources, Inc.; Permit for 2D shot hole seismic survey; Project Area 526Pa; Hot Sulphur Springs, near Tuscarora, Elko County, Nevada; Approximately 7 line miles of acquisition planned including sections 4,5,8,9,10,16 &17, T41N R52E; Exploration survey permit.

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 #613, issued Aug 31, 2005, API #27-013-90042 for Thermal Gradient Well 7; location NW/4 NW/4, Section 4, T36N R34E; Humboldt County; Proposed total depth is 1640'; New permitted location.
- ◆ NORAMEX CORP.; Permit #614 issued Aug 31, 2005; API #27-013-90043 for Thermal Gradient Well 12, location SW/4 SE/4 Section 22, T36N R34E, Humboldt County; Proposed total depth is 1640'; New permitted location.
- ◆ NORAMEX CORP.; Permit #615 issued Aug 31, 2005; API #27-013-90044 for Thermal Gradient Well 15, location SW/4 SW/4 Section 14, T36N R34E, Humboldt County; Proposed total depth is 1640'; New permitted location.
- ◆ NORAMEX CORP.; Project Area Permit issued July 25, 2005; Allows for a total of 8 production wells with an estimated depth of 6,000'. The project area encompasses Sections 1, 10-15, 22-26, T36N R34E.
- ◆ June 27, 2005 - Nevada Geothermal Resource Expansion and Development Plans; The plan is to drill 4 holes west of DB1 to intermediate depths and deepen at least one of those to a greater depth to explore for the high temperature zone - http://www.nevadageothermal.com/s/News.asp?ReportID=110701&_Type=News&_Title=Nevada-Geothermal-Resource-Expansion-and-Development-Plans
- ◆ Jan 13, 2005 – GeothermEx Report Released on Blue Mountain. Nevada Geothermal Power Inc. reports the results from an independent Preliminary Assessment completed by GeothermEx, Richmond, CA. http://www.nevadageothermal.com/s/News.asp?ReportID=97118&_Type=News&_Title=Geothermex-Report-Released-on-Blue-Mountain
- ◆ Dec 20, 2004 Nevada Geothermal Power Inc. reports results from temp gradient drilling program – http://www.nevadageothermal.com/s/News.asp?ReportID=95589&_Type=News&_Title=Releases-Blue-Mountain-Drilling-Results
- ◆ NORAMEX CORP. Permits #545-#559, API #27-013-90016 thru API #27-013-90030; 15 thermal gradient holes permits issued July 19, 2004, located in Sections 1,11-15, 23 of T36N R34E; Blue Mountain area, Humboldt County, NV. PTD 500'. Dynatec Drilling spud first hole Aug 18, 2004. Eight holes drilled with an air rotary rig.
- ◆ NORAMEX CORP. Permit #532, API #27-013-90015 for Observation Well "Deep Blue #2" issued Nov 3, 2003; SW/4 NE/4, Section 14, T36N R34E, Humboldt County; PTD 3400'; Blue Mountain area; Spud March 25, 2004; Moved in Boart Longyear continuous coring rig Apr 1, 2004; Completed to depth of 3700' Apr 28, 2004; Max temp measured during drilling was 330°F @ 1920'; Flow-tested Apr 29 @ 80 gpm; Tests completed in November included new temp and pressure logs, a flow test, and a water injection test. New "equilibrated temps are between 150-160 deg C in the interval 200-585 meters. Injection tests were successfully performed
- ◆ NORAMEX CORP. Permit #500, API #27-013-90014 for Observation Well "Deep Blue #1 issued March 20, 2002; SE/4 SW/4, Section 14, T36N R34E, Humboldt County; PTD 2000'; Drilled in May, 2002.

Pumpnickel Valley Geothermal Prospect Area, T33N R40E, Humboldt County

- ◆ NORAMEX CORP.; Permit #608 issued August 8, 2005; API #27-031-90041 for Temperature Gradient Well PVTG-N, location NW/4 SW/4 Section 4, T33N R40E, Humboldt County; Proposed total depth is 1640'; New permitted location
- ◆ NORAMEX CORP.; Permit #607 issued August 8, 2005; API #27-031-90040 for Temperature Gradient Well PVTG-GB, location NW/4 NE/4 Section 9, T33N R40E, Humboldt County; Proposed total depth is 1640'; New permitted location. August 30, 2005. TD 1600' September 10, 2005. TESTING.
- ◆ NORAMEX CORP.; Permit #601 issued July 5, 2004; API Number 27-013-90036 Location SE/4 NE/4 S 33, T33N, R40E for Temperature Gradient Well PVTG-J SPUD September 12, 2005. TD 1180' September 17, 2005. TESTING.
- ◆ NORAMEX CORP.; Permit # 600 issued July 5, 2005; API Number 27-013-90035, for Temperature Gradient Well PVTG-E, Located SE/4 SW/4 S33, T33N, T40E SPUD August 18, 2005. TD 1000' August 23, 2005. TESTING.
- ◆ NORAMEX CORP.; Permit # 599 issued July 5, 2005; API Number 27-013-90034, for Temperature Gradient Well PVTG-C, Located NE/4 NE/4 S 5, T33N, R40E, SPUD August 25, 2005. TD 1000' August 29, 2005. TESTING
- ◆ NORAMEX CORP.; Permits #596 - #604, API #27-013-90031 through API #27-013-90039, for nine temperature gradient holes issued July 5, 2005; Located in Sections 5, 9, 27 and 33 T33N R40E; Humboldt County. The wells will be used to map the aerial distribution of the thermal anomaly. Proposed TD 1000 feet.
- ◆ 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'; New permitted location.
- ◆ 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'; New permitted location. SPUD September 6. TD 460' September 8, 2005.
- ◆ 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'; New permitted location.
- ◆ 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'; New permitted location. DRILLING
- ◆ 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/Spenser_Hot_Springs/Spenser_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 Cos |
| 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.

U.S. Department of Energy

- ◆ June 14, 2005 - The **U.S. Department of Energy** announced that it is making nearly \$2.5 million available to 18 Native American tribes to advance the use of renewable energy and energy efficient technologies on tribal lands. DOE Press at:
http://www.energy.gov/engine/content.do?PUBLIC_ID=18063&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

BLM Proposes Regulatory Changes to Recover Costs of Processing Minerals-Related Documents

- ◆ 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.

GREED-III, Funding

- ◆ The following companies will receive financial assistance from DOE's Office of EERE under the Geothermal Resource Exploration and Definition (GREED III) Program; a funding opportunity to provide financial support for the exploration and definition of new geothermal resources:
ORMAT Nevada, Inc.; Earth Power Resources, Inc.; Esmeralda Energy Company; Noramex Corp.; AMP Resources; New Mexico Institute of Mining & Tech.; Fort Bidwell Indian Community; Western Geothermal Partners; NGP Power Corp.; Arizona Public Service; Chena Hot Springs Resort LLC.
Title: Geothermal Resource Exploration and Definitions, GREED-III
Number: DE-PS36-04-GO94016
http://www.eere.energy.gov/geothermal/current_solicitations.html
<https://e-center.doe.gov/iips/faopor.nsf/UNID/FE9EF9C9026D358585256E5F007D292D?OpenDocument>

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

2005 Nevada Legislature - <http://leg.state.nv.us/>

- ◆ The Senate passed SB188 on April 19, 2005. The bill allows the electric company to receive credits toward their portfolio if they pay part of the costs for energy efficiency measures that save electricity. The bill also allows the PUC to establish a Development Program to assist with completion of the renewable projects with power purchase contracts and to classify the financial impact of long-term contracts as imputed debt of the electric company.

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.

Sierra Pacific Resources Announces Renewable Energy RFP -

- ◆ May 12, 2005 - Sierra Pacific Resources has announced that its two Nevada-based utility subsidiaries, Nevada Power Company and Sierra Pacific Power Company, have issued a Request for Proposals (RFP) for energy and credits generated by renewable energy fuel sources. Sierra Pacific Resources is seeking renewable proposals totaling approximately 200 megawatts of wind, geothermal, hydro, biomass, reverse polymerization and biogas, and 70 megawatts of solar.
http://www.sierrapacific.com/news/releases/ShowPR.cfm?pr_id=4582

Frontier Line – Transmission through Wyoming, Utah, Nevada and California

- ◆ The governors of four western states created a partnership through a Memorandum of Understanding (MOU) out of recognition that there is growing consumer electric power demand in the West and that it is best handled through regional cooperation. The project will also more tightly coordinate the four states' development of renewable and conventional resources. http://www.reviewjournal.com/lvrj_home/2005/Apr-05-Tue-2005/business/1052097.html

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. The Energy Commission GRDA Geothermal Team invites interested parties to attend a **pre-application workshop to be held on: July 14, 2005**. Deadline to Submit Pre-Applications: August 30, 2005, 4:00 p.m. Deadline to Submit Final Applications: October 31, 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>.

Geothermal Resource Council – GRC 2005 Annual Meeting – Reno, NV – Sep 25-28, 2005

- ◆ *Geothermal Energy – The World's Buried Treasure* Annual meeting to be held at the Reno Hilton Conference Center in conjunction with the GEA 2005 Geothermal Energy Trade Show – <http://www.geo-energy.org> - <http://www.geothermal.org>

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.nbmng.unr.edu/pub/dox/mi/03.pdf>
- ◆ **Nevada Bureau of Mines and Geology, Geothermal Energy** - <http://www.nbmng.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:

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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).