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STATE OF NEVADA  
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**ALAN R. COYNER**  
Administrator

## NEVADA GEOTHERMAL UPDATE

February 2005

**NOTE - UPDATES AND NEW ITEMS ARE HIGHLIGHTED IN YELLOW**

The Nevada Division of Minerals is pleased to announce the appointment of Christy Morris to the position of Oil, Gas, and Geothermal Program Manager with responsibility for oil, gas, and geothermal well permitting and drilling operations in the state. She also serves as the state contact person for the DOE GeoPowering the West Program and the Interstate Oil and Gas Compact Commission. Christy was formerly the regulatory affairs administrator for ORMAT Geothermal. She can be reached at 775/684-7045 (office) or [clmorris@govmail.state.nv.us](mailto:clmorris@govmail.state.nv.us) (email).

### CURRENT POWER OPERATIONS

<u>Plant/Operator (year on-line)</u>	<u>Nameplate Capacity *</u>	<u>Location</u>
<b>Beowawe Power Plant (1985)</b> <b>Beowawe Power LLC/Caithness Operating</b>	<b>16.6 MW</b>	<b>S13, T31N R47E</b>
<ul style="list-style-type: none"><li>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'; NEW LOCATION.</li><li>The permit # 565 was obtained to use as a replacement well in the event it is necessary. The existing Power Sales Agreement with Southern California Edison will expire in December 2005.</li></ul>		
<b>Bradys Power Plant (1992)</b> <b>Brady Power Partners/ORMAT Nevada Inc.</b>	<b>26.1 MW</b>	<b>S12, T22N R26E</b>
<ul style="list-style-type: none"><li>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.</li><li>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; NEW LOCATION.</li></ul>		
<b>Desert Peak Power Plant (1985)</b> <b>Brady Power Partners/ORMAT Nevada Inc.</b>	<b>12.5 MW</b>	<b>S21, T22N R27E</b>
<b>Dixie Valley Power Plant (1988)</b> <b>Caithness Dixie Valley/Caithness Operating</b>	<b>62.0 MW</b>	<b>S7, T24N R37E</b> <b>S33, T25N R37E</b>
<ul style="list-style-type: none"><li>Caithness Dixie Valley; SW Lamb #2; Permit #539, API 27-001-90305 issued Apr 8, 2004; NE/4 NE/4; Section 13, T24N R36E; Injection well permit for existing well drilled in August, 1979, Total Depth 8588'; Dixie Valley, Churchill County, Nevada; Permitted Injection Well Location, Apr 2004.</li></ul>		
<b>Empire Power Plant (1987)</b> <b>Empire Energy LLC</b>	<b>4.8 MW</b>	<b>S21, T29N R23E</b>
<b>Soda Lake No. 1 (1987)</b> <b>Soda Lake No. 2 (1991)</b> <b>Constellation Operating Services</b>	<b>26.1 MW</b>	<b>S33, T20N R28E</b>

**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; **NEW 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 will be the first production well in the Project Area.

**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.

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

- ♦ 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 2003.

## DIRECT USE OPERATIONS

**Empire Group LLC; Empire, Washoe County, Nevada**  
<http://www.empirellc.com>

**Gilroy Foods, A ConAgra Food Ingredients Company; Onion Dehydration Plant; Fernley, Nevada**  
<http://www.gilroyfoods.com/aboutus.jsp>

Seasonal onion dehydration processing operations currently idle. Plan to commence operations 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 (T32N R23E), 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](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 #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'; NEW LOCATION.
- ♦ 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'; NEW LOCATION.
- ♦ 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'; NEW 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'; NEW 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'; NEW LOCATION.
- ♦ 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'; NEW 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](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.
- ♦ 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; All spent geothermal fluid will be injected via an approved Class 5 UIC well issued by NDEP; PTD 750'; NEW LOCATION.
- ♦ 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. New Permit.

#### **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 rigging up to deepen 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.
- ♦ Geothermal Resource Development, NAS Fallon, NV  
U. S. Navy Request for Proposal (RFP) N47408-04-R-2530 – Issued 9/9/2004  
Receipt of Offers due by 1600 hours Pacific Time, Feb 7, 2005.  
Available by INTERNET ACCESS ONLY - All solicitation (or RFP) documents and solicitation amendments will be posted on the NAVFAC E-Solicitation (E-SOL) Website at <http://www.esol.navy.mil/>. Interested parties are required to register for the solicitation at the NAVFAC E-Solicitation Website.

For inquiries related to the RFP, contact Mr. Chris Henschel at the Naval Facilities Engineering Command Contracts Office (NAVFACCO), Port Huueneme, CA, telephone (805) 982-3872, or e-mail at [Christopher.henschel@navy.mil](mailto:Christopher.henschel@navy.mil)

#### **Hot Sulphur Springs (Tuscarora), T41N R52E, Elko County**

- ♦ 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'; 1<sup>st</sup> 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)**

#### **Fly Ranch Geothermal Prospect Area; West Black Rock Desert, T34N R23E, Washoe County**

##### **Black Warrior Peak, Washoe County**

- ♦ NORAMEX CORP. geothermal lease application filed 3/5/2005, Black Warrior Peak area, Washoe County, Nevada; T23N R25E, 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.

##### **Blue Mountain Geothermal Prospect Area, Humboldt County**

- ♦ 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. The report states that, "This drilling has confirmed the area of the thermal anomaly to be in the range of 5 to 8 square kilometers (2 to 3 square miles) with measured temperatures of up to 168 deg C at depths in the range of 500 to 700 meters." A more complete description from the Executive Summary of the report is quoted on the website. An evaluation by Black Mountain Technology of the DB-1 and DB-2 tests is in preparation. Based on the reports from GeothermEx and Black Mountain, NGP has plans to drill 3 13" diameter production test wells. At least one hole will be drilled to 1500-1800 meters - <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 indicated anomalous temperature gradients two to three times the regional gradient extend over 10 square kilometers; waiting on an independent evaluation. – <http://www.nevadageothermal.com/s/News.asp?ReportID=95589& Type=News& Title=Releases-Blue-Mountain-Drilling-Results>
- ♦ NORAMEX CORP. Permits #545-559, API #s 27-013-90016 thru 27-013-90030; 15 thermal gradient hole 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 Nov 20. - <http://www.nevadageothermal.com/s/News.asp?ReportID=95589& Type=News& Title=Releases-Blue-Mountain-Drilling-Results>
- ♦ 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; Plan to test the #1 well in near future.

**Pumpnickel Valley Geothermal Prospect Area, Humboldt County**

- ♦ 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; T21-22N R26E; Churchill and Lyon Counties**

- ♦ 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; Esmeralda County**

- ♦ Fish Lake Valley, T1S R36E – 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](mailto:jackmack@suesec.com).

**Spencer Hot Springs Area; Lander County**

- ♦ 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](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 non-competitive lease sale for parcel(s) in the area. States, “analysis on hold pending completion of EA on the district-wide geothermal leasing program, scheduled for release by spring 2005.”

**Recent BLM Geothermal Leases Filed**

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

<b>Non-Competitive Geothermal BLM Lease Applications (01/04-03/05), Pending:</b>			
Western Geothermal Ptnrs 1/8/2004	NVN 77983; 200.00 acres	T08N R29E (25)	Mineral County, near Hawthorne
Western Geothermal Ptnrs 1/8/2004	NVN 77984; 945.09 acres	T07N R30E (5,6)	Mineral County, near Hawthorne
Western Geothermal Ptnrs 1/8/2004	NVN 77985; 1822.76 acres	T08N R30E (29,30,31,32)	Mineral County, near Hawthorne
Noramex Corp. 2/25/2004	NVN 78124; 1880.00 acres	T33N R40E (10) T34N R40E (28,34)	Tipton Ranch, Humboldt County

Katz, Lewis 4/1/2004	NVN 78364; 2340.00 acres	T29N R48E (24,36) T29N R49E (30,32)	Crescent Valley, Eureka County
NORAMEX CORP 7/13/2004	NVN 78777; 566.40 acres	T24N R25E (30)	Fireball Ridge, Churchill Co.
Clear Skies Energy Ptnr LLC 7/20/2004	NVN 78813; 3,840.00 acres	T34N R36E (4,6,8) T35N R36E (28,32,34)	West of Winnemucca Pershing/Humboldt Cos.
Katz, Lewis 9/13/2004	NVN 79077; 2560.00 acres	T28N R49E (2,6,8,16)	Crescent Valley, Eureka County
Ormat Energy Inc 9/22/2004	NVN 79103; 80.00 acres	T18N R29E (35)	Salt Wells, Churchill County
Ormat Nevada Inc 9/22/2004	NVN 79104; 2481.00 acres	T18N R30E (28,31-33)	Salt Wells, Churchill County
Ormat Energy Inc 9/22/2004	NVN 79105; 2357.00 acres	T18N R30E (19,20,29,30)	Salt Wells, Churchill County
Ormat Nevada Inc 9/22/2004	NVN 79106; 2556.00 acres	T17N R30E (5-8)	Salt Wells, Churchill County
Ormat Nevada Inc 09/22/2004	NVN 79107; 1280.00 acres	T17N R29E (1,2)	Salt Wells, Churchill County
Clear Skies Energy Ptnr LLC 10/25/2004	NVN 79251; 1920.00 acres	T35N R36E (28,32,34)	West of Winnemucca Pershing/Hunboldt Cos
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

<b>Recent Geothermal BLM Leases Issued:</b>			
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

<b>Competitive Sale Geothermal BLM Lease Applications (06/2003), DROPPED:</b>			
NGP Power Corp	NVN 77269; 1346.92 acres	T16N R30E (1) T16N R31E (6)	Salt Wells
NGP Power Corp	NVN 77270; 1360 acres	T16N R30E (2,3)	Salt Wells

## OTHER NEWS

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

- ◆ 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.
- ◆ 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.
- ♦ 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.
- ♦ 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.

### **GRED-III, Funding**

- ♦ The following companies will receive financial assistance from DOE's Office of EERE under the Geothermal Resource Exploration and Definition (GRED 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, GRED-III  
Number: DE-PS36-04-GO94016  
[http://www.eere.energy.gov/geothermal/current\\_solicitations.html](http://www.eere.energy.gov/geothermal/current_solicitations.html)  
<https://e-center.doe.gov/iips/faopor.nsf/UNID/FE9EF9C9026D358585256E5F007D292D?OpenDocument>

### **Sierra Pacific Press Release – March 15, 2005**

- ♦ "Ormat Nevada, Inc. broke ground today on the first geothermal electric generating plant to be built at Steamboat Nevada since 1991." When completed, the Galena Geothermal Project will increase total output at this complex by 20 megawatts; Also, see new production well permit for Steamboat Development Corp. - [http://www.sierrapacific.com/news/releases/ShowPR.cfm?pr\\_id=4568](http://www.sierrapacific.com/news/releases/ShowPR.cfm?pr_id=4568)

### **PUC Approves New Renewable Energy Contract**

- ♦ October 13, 2004, CARSON CITY, NV – The Public Utilities Commission approved a renewable energy contract for 20 megawatts of new geothermal power to be supplied by ORNI 7 (Ormat Nevada Inc). The 20 year contract is one resulting from the RFP issued by Sierra Pacific in 2003. The power plant, Galena Geothermal 1, will be located south of Reno, NV at Steamboat Springs and is expected to be online by 2006. - <http://www.puc.state.nv.us/NEWS/Archived%20News/2004/2004/SPPCcontract.pdf>

### **Report on Geothermal Resources in California and Nevada**

- ♦ At the California Geothermal Summit in Sacramento on May 20, 2004, Jim Lovekin presented a summary of geothermal resource capacities and development costs in Nevada and California. The presentation summarized the results of a study GeothermEx has recently completed for the San Francisco Public Utilities Commission (Hetch Hetchy Water and Power) with funding from the PIER program of the California Energy Commission (CEC). The full report is now available - [http://www.energy.ca.gov/pier/final\\_project\\_reports/500-04-051.html](http://www.energy.ca.gov/pier/final_project_reports/500-04-051.html)

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

- ◆ Contact Information:
  - DIRECTOR - Dr. Lisa Shevenell, Hydrogeologist. Email: [geothermal@mines.unr.edu](mailto: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](mailto: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](mailto: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

### **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>

### **Renewable Energy Finance Forum – New York, NY – June 22-23, 2005**

- ◆ Annual Renewable Energy Finance Forum joint venture with Euromoney Institutional Investor. Leaders of the finance industry discuss venture capital, debt and equity markets, project finance, and public sector finance. – <http://www.euromoneyenergy.com>

### **Geological Society of Nevada Symposium 2005, Window to the World – May 15-18, 2005, John Ascuaga’s Nugget, Reno/Sparks, Nevada**

- ◆ “This is the fifth in a series of symposia designed to provide an international forum for scientific discussion of geological processes and their relationships to ore deposits.” Technical sessions including “Geothermal Resources of the Western US” on May 17; Co-Hosted by SEG, NBMG, USGS, AAG – <http://www.gsn2005.org>

### **Geothermal Power Generation Workshop – March 29, 2005 – Red Lion Hotel, Yakima WA**

- ◆ Designed for utility resource personnel, focusing on benefits and risks of including geothermal power in a resource portfolio. Hosted by GeoPowering the West & Washington State Working Group. No registration fee, but you must register to attend – <http://www.energy.wsu.edu/renewables/geothermal/frmreg.aspx>

### **Power Gen Renewable Energy Trade Show – Las Vegas, Nevada – March 1-3, 2005**

- ◆ Second annual conference and exhibition, expected attendance of more than 2000 – <http://www.acore.org/> - <http://pgre05.events.pennnet.com/>

### **Renewable Energy in America – Policy Meeting, Washington D.C. – Dec 6-7, 2004**

- ◆ Forum presentations, photos and video available from the 2 day conference addressing key issues facing the renewable energy community. Participants include government, industry, and nonprofit. – <http://www.acore.org/>

### **Great Basin Geothermal Workshop, November 5, 2004; Information Available from the Meeting**

- ◆ JTSU Auditorium, University of Nevada, Reno - Reno, Nevada • USA  
For more information, contact: Peggy Brown, Phone (775) 784-7018, Fax (775) 327-5801, E-mail: [geothermal@mines.unr.edu](mailto:geothermal@mines.unr.edu), Website: <http://www.unr.edu/geothermal/GBGeothermalMeeting.htm>

## **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\\_gpw.html](http://www.eere.energy.gov/geothermal/deployment_gpw.html)
- ♦ **GeoPowering the West, GeoPowering the West Calendar** – [http://www.eere.energy.gov/geothermal/gpw\\_calendar.html](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/>
- ♦ **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/>

Information compiled by the Nevada Division of Minerals with assistance from:  
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 P.O. Box 4228, Carson City  
 NV 89702-4228

Under USDOE Cooperative Agreement: SEP/CA/03/006 supporting GeoPowering the West.

For further information regarding GeoPowering Nevada or Nevada’s Geothermal Program contact Nevada Division of Minerals at 775-684-7040, Fax: 775-684-7052.