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NEVADA GEOTHERMAL UPDATE

August 2006

NOTE - UPDATES AND NEW ITEMS ARE HIGHLIGHTED IN YELLOW

CURRENT POWER OPERATIONS

<u>Plant/Operator (year on-line)</u>	<u>Nameplate Capacity *</u>	<u>Location</u>
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*Nameplate Capacity as reported to the Division of Minerals for 2004.

Stillwater Power Plant (1989) AMP Resources (Stillwater) LLC	21.0 MW	S1, T19N R30E
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- September 5, 2006 -- Amp Resources, LLC ("Amp") announced a full and complete settlement and mutual release of all legal claims between Amp and Raser Technologies (NYSE Arca: RZ, "Raser"). An affiliate of Amp Resources, Recurrent Engineering, LLC ("Recurrent"), and an affiliate of Raser also executed a license agreement that enables Raser's affiliate to develop renewable energy projects based on heat transfer technologies licensable by Recurrent.
- May 10, 2006 – PUC Approves Permit to Construct Stillwater 2 Geothermal Plant. The PUC approved the permit for a 26MW power plant to be built approximately 15 miles east of Fallon. AMP proposed to build the binary cycle power plant to replace the existing 7MW plant. The new plant is scheduled to be online by the end of 2007. A long-term power purchase agreement will be filed with the PUC for approval - <http://pucweb1.state.nv.us/PUCN/CommissionInfo.aspx?Util=PressReleases>
- August 2005 - AMP Resources (Stillwater) LLC 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 #631, API #27-031-90322 for Industrial Injection Well 11-1 issued December 5, 2005; located in the NW/4 NW/4 of Section 1 T19N R31E, Churchill County. The proposed depth of well is 2100'. Project Area Permit #579. 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.

Beowawe Power Plant (1985) Beowawe Power LLC/Caithness Operating	16.6 MW	S13, T31N R47E
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- 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; Drilled to below 10,500'; Released rig Feb 14, 2006; TESTING.

Dixie Valley Power Plant (1988) Caithness Dixie Valley/Caithness Operating	67.0 MW	S7, T24N R37E
Soda Lake No. 1 Power Plant (1987) Soda Lake No. 2 Power Plant (1991) Constellation Operating Services	5.1 MW 21.0 MW	S33, T20N R28E
Empire Power Plant (1987) Empire Energy LLC	4.8 MW	S21, T29N R23E
Wabuska Power Plant (1984) Homestretch Geothermal LLC	2.2 MW	S15, 16, T15N R25E

Bradys Power Plant (1992) **26.1 MW** **S12, T22N R26E**
Brady Power Partners/ORMAT Nevada Inc.

- ◆ 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 Brady South Project Area; First production well to be drilled in this Project Area; PTD 5000'; Churchill County, Nevada; Permitted Location.

Desert Peak Power Plant (1985) **12.5 MW** **S21, T22N R27E**
Desert Peak 2 Power Plant (2006) **15 MW** **S21, T22N R27E**
Brady Power Partners/ORMAT Nevada Inc.

- ◆ Construction of the Desert Peak 2 power plant is complete. The plant is a state of the art facility with combined water and air-cooled OEC binary units. Unit testing and well testing is currently taking place. The Plant is due to be on line by the end of 2006. The original Desert Peak flash plant is expected to be decommissioned.
- ◆ Brady Power Partners (ORMAT); Well #23-1; DWR Permit #31002; API# 27-001-90024B; Section 23, T22E R27N, 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.
- ◆ 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.

Richard Burdette Power Plant (Galena 1) (2005) **27 MW S29, T18N R20E**
Ormat Nevada, Inc.

PUC Approves Power Purchase Agreement for GALENA No. 3 Geothermal Power Project

- ◆ August 28, 2006 - Ormat Technologies, Inc. (NYSE: ORA) today announced that a 20-year Power Purchase Agreement (PPA) signed between Sierra Pacific Power Company and ORNI 14 LLC, a subsidiary of Ormat Nevada, Inc., and announced in a press release issued by Ormat Technologies, Inc. on May 9, 2006 received the approval of the Public Utilities Commission of Nevada. Under the PPA, the Galena No. 3 Geothermal Power Project will be integrated into Ormat's existing Steamboat Geothermal Complex located in Washoe County, Nevada. The new plant is expected to increase the total output supplied from the Steamboat Known Geothermal Resource Area to Sierra Pacific Power Company by between 15 and 25 MW, bringing the total output of the Steamboat KGRA Complex to approximately 90 MW. Ormat has already started the development of Galena No. 3 under this PPA and expects to complete its construction in the first half of 2008. http://www.ormat.com/index_news.htm ; <http://www.puc.state.nv.us> ;
- ◆ 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 27 MW (nameplate) 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.

Steamboat 1, 1A Power Plants (1986) 10.8 MW S29, T18N R20E

Steamboat Geothermal, LLC/ORMAT Nevada Inc.

Steamboat 2, 3 Power Plants (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; Spud January 18, 2006 with Circle 4 drilling rig #1; Completed, Testing.

Steamboat Hills Power Plant (1988) 14.5 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 #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.

GEOTHERMAL PRODUCTION FOR 2005

Company	Plant	Output Gross MWH	Output (Sales) MWH	Nameplate Capacity
AMP	Stillwater	99,345	60,321	21
Caithness	Beowawe	106,464	87,042	16.6
	Dixie Valley	564,464	511,340	67
Constellation	Soda Lake 1	31,242	21,484	5.1
	Soda Lake 2	67,274	46,262	21
Homestretch	Wabuska I&II	8,661	5,782	2.2
Empire	Empire	33,814	23,317	4.8
ORMAT	Brady Hot Spr.	165,493	115,838	26.1
	Desert Peak	60,771	50,506	12.5
	R.Burdette (Galena 1)	20,786	17,017	27
	SBI	41,783	28,172	8.4
	SBIA	17,371	16,047	2.4
	SBII	149,672	109,166	23.9
	SBIII	151,634	112,161	23.9
	Steamboat Hills	72,166	64,336	14.5
TOTALS		1,590,940	1,268,791	276.4

DIRECT USE OPERATIONS

Empire Group LLC; Empire, Washoe County, Nevada

- ♦ This drying facility is currently not in operation.

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 2006 and will operate until the end of October.

OTHER ACTIVE AREAS

Gerlach KGRA, T32-33N R23-24E, Washoe County

- ◆ Gerlach Green Energy, LLC; Permit #633, API #27-031-90239 for Industrial Production Well 68-3 issued January 12, 2006; located in the SW/4 SE/4 of Section 3, T32N R23E, Washoe County. The proposed depth of well is 6000'; Planned use of the resource is for electrical power generation and potential direct use applications; New permitted location.
- ◆ March 29, 2006 – Sempra Generation announced plans to sell its development rights for Granite Fox Power, the proposed 1200 MW coal-fired power generation plant near Gerlach, Nevada - <http://www.granitefoxpower.com/index.htm>
- ◆ Bureau of Land Management Winnemucca Field Office held public meetings in May 2005 and ended the public scoping period on June 22, 2005. All public comments were taken into consideration and baseline studies are continuing as of January 2006. At this time, the BLM anticipates completing a Draft EIS by the end of the year. Other opportunities for public comment will be made available during the process. The BLM will notify the public with News Releases, or by other means. Winnemucca Field Office (775) 623-1500.
- ◆ 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

Pyramid Lake Paiute Reservation, T27-28N R19-20E, Washoe County

- ◆ Pyramid lake Paiute Tribe, Pyramid Lake Energy Project for the development of geothermal resources on the Pyramid Lake Paiute Reservation situated in Washoe, Lyon, and Storey counties. The project includes geophysical exploration surveys, gravity and magnetic, mapping, thermal gradient drill holes and slim holes. Seven 500' thermal gradient hole locations have been proposed in the area of T27-28N R19-20E, Washoe County. Drilling began in November 2005, Welsco Drilling Corp., and 3 gradient holes were drilled as of March 2006.

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

- ◆ Geothermal geophysical exploration application filed by AMP Resources with the BLM 7/5/2006; T17N R30E, Sections 35, 36, 31; Salt Wells, Churchill County, Serial # 82298.
- ◆ 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 #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, T18N R29E

- ♦ January 24, 2006 - ORMAT Technologies has entered into an agreement with the U. S. Navy to build a geothermal power plant near the Naval Air Station in Fallon. They announced a 50-year contract to develop geothermal energy on the NAS property. Following an exploratory drilling program, an estimated 30-megawatt power plant will be constructed near the southeast border of the base. Energy from the plant would be sold through a power purchase agreement with Sierra Pacific Power Company. The Navy will receive 5 percent of gross income from sales for the first 20 years, and 15 percent thereafter. See Lahontan Valley News article; Jan 24, 2006 – by Burke Wasson, bwasson@lahontanvalleynews.com - <http://www.lahontanvalleynews.com/article/20060124/News/101240027>

Carson Lake Geothermal Prospect Area, T18N R30E, Churchill County

- ♦ August 3, 2006 – Ormat announced that they have signed a 20-year power purchase agreement with Nevada Power Company for the sale of energy to be produced from the Carson Lake geothermal power plant to be built in Churchill County. The Carson Lake power plant is projected to be online late 2009.

Grass Valley Geothermal Prospect Area, T24N R47E, Lander County

- ♦ Geothermal geophysical exploration application filed by Ormat Nevada with the BLM 5/12/2006, approved 6/12/2006; T21N R47E, Sections 15, 21, Grass Valley, Lander County, Serial #82314.
- ♦ Geothermal geophysical exploration application filed by Ormat Nevada with the BLM 7/14/2006, T24N R47E, Sections 15,16,21, Grass Valley, Lander County, Serial #82315.
- ♦ Ormat Nevada Inc; Permit #659 issued May 18, 2006 for Observation well #11-15; API #27-015-90027; NW/4 NW/4 Section 15, T24N R47E; Grass Valley, Lander County, Nevada; PTD 3000'; Permitted location.
- ♦ Ormat Nevada Inc; Permit #661 issued May 18, 2006 for Observation well #66-21; API #27-015-90029; NW/4 SE/4 Section 21, T24N R47E; Grass Valley, Lander County, Nevada; PTD 3000'; Permitted location.
- ♦ Ormat Nevada Inc; Permit #660 issued May 18, 2006 for Observation well #67-16; API #27-015-90028; SW/4 SE/4 Section 16, T24N R47E; Grass Valley, Lander County, Nevada; PTD 3000'; Permitted location.
- ♦ ORMAT Nevada, Inc. 5 thermal gradient holes, PTD 500', were drilled by Welsco Drilling Co. in June and July 2005 in sections 15, 16 and 21, T24N R47E; Grass Valley, Lander County.

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

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

- ♦ 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

- ♦ Nevada Geothermal Power Company (NORAMEX); State Permit #639 issued March 24, 2006 for Industrial Production well #34-23; API #27-013-90051; Located in SE/ NW/4, Section 23, T36N R34E; Proposed total depth is 6000'; Blue Mountain geothermal project area 605PA, Humboldt County, Nevada; Permitted location. CORRECTED WELL NUMBER. Conductor set 6/5/06 using Might Mole auger rig.
- ♦ Nevada Geothermal Power Company (NORAMEX); State Permit #640 issued March 24, 2006 for Industrial Production well #66-14; API #27-013-90052; Located in NW/ SE/4, Section 14, T36N R34E; Proposed total depth is 6000'; Blue Mountain geothermal project area 605PA, Humboldt County, Nevada; Permitted location. Conductor set 7/5/06 using Mighty Mole auger rig. Surface casing set 7/25/06 using WDC #161.
- ♦ Nevada Geothermal Power Company (NORAMEX); State Permit #635 issued February 24, 2006 for Industrial Production well #23-14; API #27-013-90048; Located in SW/ NW/4, Section 14, T36N R34E; Proposed total depth is 6000'; Blue Mountain geothermal project area 605PA, Humboldt County, Nevada; Permitted location.
- ♦ Nevada Geothermal Power Company (NORAMEX); State permit #636 issued February 24, 2006 for Industrial Production Well #26-14; API #27-013-90049; Located in NW/ SW/4, Section 14, T36N R34E; Proposed total

- depth is 6000'; Blue Mountain geothermal project area 605PA, Humboldt County, Nevada; Permitted location.
- ◆ Nevada Geothermal Power Company (NORAMEX); State permit #637 issued February 24, 2006 for Industrial Production Well #28-14; API #27-013-90050; Located in SW/ SW/4, Section 14, T36N R34E; Proposed total depth is 6000'; Blue Mountain geothermal project area 605PA, Humboldt County, Nevada; Permitted location.
- ◆ NORAMEX CORPORATION change of company name to NEVADA GEOTHERMAL POWER COMPANY effected November 2005.
- ◆ 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; WDC Drilling Co. spud May 23, 2006; Set conductor and surface casing and moved in Calco Oil Industries rig #14; Drilling.
- ◆ 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. Conductor set using Mighty Mole auger rig 5-9-06. Surface casing set using WDC #161 rig 7/3/06.
- ◆ 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. Conductor set 7-11-06 using Mighty Mole auger rig.
- ◆ 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'; WDC Drilling Company spud May 15, 2006, TESTING.
- ◆ 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.

Buffalo Valley Geothermal Prospect Area, T29N, R41E, Lander County

- ◆ August 3, 2006 – Ormat announced that they have signed a 20-year power purchase agreement with Nevada Power Company for the sale of energy to be produced from the Buffalo Valley geothermal power plant to be built in Lander County. The Buffalo Valley power plant is projected to be online late 2009.
- ◆ Geothermal geophysical exploration application filed by Ormat Nevada with the BLM 7/14/2006, T29N R41E, Sections 22,24-27,34,35 Buffalo Valley, Lander County, Serial #82317.
- ◆ Ormat Nevada, Inc; State Permits issued May 5, 2006 for 10 temperature gradient holes, BV1 – BV10; Buffalo Valley, Lander County, Nevada; PTD 500'; NEW LOCATIONS:
 - #644; API 27-015-90017; TG BV-1; SW/4 SW/4 Sec 22, T29N R41E
 - #645; API 27-015-90018; TG BV-2; SW/4 NW/4 Sec 27, T29N R41E
 - #646; API 27-015-90019; TG BV-3; NE/4 SE/4 Sec 27, T29N R41E
 - #647; API 27-015-90020; TG BV-4; SE/4 SE/4 Sec 34, T29N R41E
 - #648; API 27-015-90021; TG BV-5; NW/4 SE/4 Sec 35, T29N R41E
 - #649; API 27-015-90022; TG BV-6; NE/4 NW/4 Sec 26, T29N R41E
 - #650; API 27-015-90023; TG BV-7; SW/4 SW/4 Sec 25, T29N R41E
 - #651; API 27-015-90024; TG BV-8; NE/4 SE/4 Sec 25, T29N R41E
 - #652; API 27-015-90025; TG BV-9; SE/4 SE/4 Sec 24, T29N R41E
 - #653; API 27-015-90026; TG BV-10; NE/4 SE/4 Sec 24, T29N R41E
- ◆ Ormat Nevada, Inc; Permit #664 issued May 18, 2006 for Observation well #17-25; API #27-015-90032; SW/4 SW/4 Section 25, T29N R41E, Buffalo Valley, Lander County, Nevada; PTD 3000'; Permitted location.
- ◆ Ormat Nevada, Inc; Permit #662 issued May 18, 2006 for Observation well #27-22; API #27-015-90030; SW/4 SW/4 Section 22, T29N R41E, Buffalo Valley, Lander County, Nevada; PTD 3000'; Permitted location
- ◆ Ormat Nevada, Inc; Permit #665 issued May 18, 2006 for Observation well #42-26; API #27-015-90033; NE/4 NW/4 Section 26, T29N R41E, Buffalo Valley, Lander County, Nevada; PTD 3000'; Permitted location.
- ◆ Ormat Nevada, Inc; Permit #663 issued May 18, 2006 for Observation well #86-24; API #27-015-90031; NE/4 SE/4 Section 24, T29N R41E, Buffalo Valley, Lander County, Nevada; PTD 3000'; Permitted location.

Pumpnickel Valley Geothermal Prospect Area, T33N R40E, Humboldt County

- ◆ NORAMEX CORP.; Phase I of the drilling program for the Pumpnickel Geothermal Project was completed with the drilling of 5 thermal gradient holes. The cuttings were sent to the NBMG and water samples sent to Thermochem labs. A summary report is expected.
- ◆ 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 #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 #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 #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'.

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

- ◆ Geothermal Rail Industrial Development LLC; Permit #638 issued March 13, 2006, API #27-019-90021 for Industrial Production Well Hazen 11-19, Location NW/4 NW/4, Section 19, T20N R26E, Lyon County; Proposed total depth 1550'; Permitted location.
- ◆ Geothermal Rail Industrial Development LLC; 4 thermal gradient holes (TD 500'-800') were drilled in sections 17 and 19, T20N R26E by Welsco Drilling Corp. in Sep and Oct 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

- ◆ Esmeralda Energy Permit #643 issued May 5, 2006 for Observation Well Emigrant 17-31, SW/4 SW/4 Section 31 T1N R37E, Esmeralda County; Fish Lake Valley, Esmeralda County; PTD 4000'; Permitted location.
- ◆ Fish Lake Valley, – Esmeralda Energy Company/Geo-Energy Partners-1983 Ltd. (GEO-83) Signed a DOE cost sharing award for the Emigrant Slim hole 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.

Jersey Valley Geothermal Project Area; T27N, R40E, Pershing County

- ◆ Ormat Nevada, Inc; Permit #658 issued May 18, 2006 for Observation well #33-33; API #27-027-90070; SE/4 NW/4 Section 33, T27N R40E, Jersey Valley, Pershing County, Nevada; PTD 3000'; Permitted location.
- ◆ Ormat Nevada, Inc; Permit #654 issued May 18, 2006 for Observation well #44-28; API #27-027-90066; SE/4 NW/4 Section 28, T27N R40E, Jersey Valley, Pershing County, Nevada; PTD 3000'; Permitted location.
- ◆ Ormat Nevada, Inc; Permit #655 issued May 18, 2006 for Observation well #81-28; API #27-027-90067; NE/4 NE/4 Section 28, T27N R40E, Jersey Valley, Pershing County, Nevada; PTD 3000'; Permitted location.
- ◆ Ormat Nevada, Inc; Permit #657 issued May 18, 2006 for Observation well #86-29; API #27-027-90069; NE/4 SE/4 Section 29, T27N R40E, Jersey Valley, Pershing County, Nevada; PTD 3000'; Permitted location.
- ◆ Ormat Nevada, Inc; Permit #656 issued May 18, 2006 for Observation well #88-28; API #27-027-90068; SE/4 SE/4 Section 28, T27N R40E, Jersey Valley, Pershing County, Nevada; PTD 3000'; Permitted location.

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.

Reese River Geothermal Prospect Area; T23-24N R43E, Lander County

- ◆ Caley Geothermal Inc; Permit #667 issued August 15, 2006 for Observation Well #56-4; API #27-015-90034;

NW/4 SE/4 Section 4, T23N R43E, Reese River, Lander County, Nevada; PTD 4000'; GL 5680'; Permitted location.

- ◆ Caley Geothermal Inc filed a geothermal geophysical exploration application with the BLM on 7/14/2006; T23N R43E Sections 4-5, T24N R43E Sections 32-33, Reese River, Lander County; Serial #82316.

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 Issued: 02/2006-08/2006

- ◆ For more information on BLM leases in Nevada, see the website: <http://www.blm.gov/lr2000>
Call (775) 861-6500 for information.

Lease #	Lessee	Tsp Rge	Sections	Acres	Date	Area
78777	Noramex Corp	T24N R25E	30	566.40	2/28/2006	Blk Warrior Pershing Co
79745	NORAMEX	T23N R25E	8	640.00	2/28/2006	Blk Warrior, Churchill Co
76458	Great Basin Geothermal	T31N R39E	5,6			Leach HS Pershing Co
76458		T32N R39E	32,33	2,606.51	5/25/2006	Multiple townships
77000	Townsend, Gordon	T35N R43E	10,14	1,240.00	6/6/2006	Hot Pot, Humboldt Co
77647	Kingzett, James M	T21N R26E	22,28,32,34	2,560.00	5/18/2006	Hazen, Churchill Co
77657	Western Geothermal Part	T44N R31E	4,5,6	1,588.59	6/1/2006	Howard HS, Humboldt Co
77778	Western Geothermal Part	T17N R452E	1,2,11,12	1,641.00	6/19/2006	Spencer HS, Lander Co
77779	Western Geothermal Part	T17N R45E	11,12,13	1,920.00	6/19/2006	Spencer HS, Lander Co
77780	Western Geothermal Part	T17N R45E	14,24	1,280.00	6/19/2006	Spencer HS, Lander Co
						Pumpnickel, Humboldt Co
78124	Nevada Geothermal Power	T33N R40E	10			
78124		T34N R40E	28,34	1,898.06	5/25/2006	Multiple townships
78813	Clear Skies Energy Part	T34N R36E	4,6,8	1,896.51	5/18/2006	Northern Pershing Co
79251	Clear Skies Energy Part	T35N R36E	28,32,34	1,920.00	5/18/2006	Rose Cr, Humboldt Co
79276	Kingzett, James M	T21N R26E	36			Hazen, Churchill Co
79276		T21N R27E	16,20,30	2,540.14	5/18/2006	Multiple townships
79278	Kingzett, James M	T21N R27E	6,18	1,170.30	5/18/2006	Hazen, Churchill Co
79291	Southwest Geothermal Inc	T20N R26E	24			Hazen, Churchill Co
79291		T20N R27E	6	1,295.88	5/31/2006	Multiple townships
79292	Southwest Geothermal Inc	T20N R26E	2,12,14	1,980.23	5/31/2006	Hazen, Churchill Co
79305	Vulcan Power Co	T27N R32E	22,24,27,28	1,811.11	6/1/2006	Colado, Pershing Co
79306	Vulcan Power Co	T27N R32E	2,10,12,14	2,140.53	6/1/2006	Colado, Pershing Co
79307	Vulcan Power Co	T28N R32E	34,36	1,280.00	6/1/2006	Colado, Pershing Co
79308	Vulcan Power Co	T25N R36E	7,18	1,232.44	6/1/2006	Logan Pk, Pershing Co
						S Buena Vista, Pershing Co
79309	Vulcan Power Co	T25N R35E	13	640.00	6/1/2006	
79352	Pacific Spar Corp	T28N R32E	22,26	1,160.00	5/25/2006	Colado, Pershing Co
79646	Barrick Goldstrike Mines	T36N R49E	22,23	560.00	8/23/2006	Eureka County
79647	Barrick Goldstrike Mines	T36N R49E	12,13,24,26			Multiple townships
79647		T36N R50E	19,30	1,703.68	8/23/2006	Eureka County
79705	Miller, Dusty LLC	T13N R33E	34,35	1,280.00	8/23/2006	Gabbs Vly, Mineral Co.
79706	Miller, Dusty LLC	T12N R33E	15,16	1,280.00	8/23/2006	Gabbs Vly, Mineral Co.
79822	James M Kingzett	T21N R27E	12,14,22	1,920.00	8/23/2006	Hazen Churchill Co
79823	James M Kingzett	T21N R27E	10,28,32	1,912.10	8/23/2006	Churchill County
79824	James M Kingzett	T21N R28E	6			Churchill County
79824		T22N R28E	28,32	1,935.49	8/23/2006	Multiple townships
80070	NORAMEX	T34N R40E	32	640.00	7/27/2006	Pumpnickel/Tipton
80071	Amigo Inc	T24N R64E	19	626.66	8/23/2006	Cherry Crk, White Pine Co
						Gridley Lake, Humboldt Co
80080	Amigo Inc	T44N R27E	1,12	1,367.94	8/23/2006	
80086	NORAMEX	T36N R34E	16	650.32	7/27/2006	Blue Mtn, Humboldt Co

80159	NORAMEX	T36N R34E	28	640.00	7/27/2006	Blue Mtn, Humboldt Co
80575	Jackrabbit Properties	T33N R23E	23,26,34,35	2,040.00	8/23/2006	Gerlach, Washoe Co
80597	Western Geothermal Part	T16N R31E	5	675.36	8/23/2006	Salt Wells, Churchill Co
80600	Western Geothermal Part	T16N R31E	9,10	1,266.29	8/23/2006	Salt Wells, Churchill Co
80606	Western Geothermal Part	T18N R31E	5,8,17	1,952.00	8/23/2006	Salt Wells, Churchill Co
80607	Western Geothermal Part	T17N R31E	5,6	1,279.70	8/23/2006	Salt Wells, Churchill Co
80609	Western Geothermal Part	T18N R31E	18,19,20	1,891.00	8/23/2006	Salt Wells, Churchill Co
73679	Barr, Ronald C	T16N R29E	28,33	1,280.00	8/23/2006	Lee HS, Churchill Co
73930	Earth Power Resources	T16N R29E	27,34	1,280.00	8/23/2006	Lee HS, Churchill Co
74255	Vulcan Power Co	T15N R29E	4,5,8,9	2,111.36	8/23/2006	Lee HS, Churchill Co
74256	Vulcan Power Co	T15N R29E	16,17,20,21	2,052.44	8/23/2006	Lee HS, Churchill Co
74257	Vulcan Power Co	T16N R29E	19,20,21,22	2,536.63	8/23/2006	Lee HS, Churchill Co
74258	Vulcan Power Co	T16N R29E	23,26,29,30	2,393.96	8/23/2006	Lee HS, Churchill Co
74259	Vulcan Power Co	T16N R29E	31,32	1,279.18	8/23/2006	Lee HS, Churchill Co
74260	Vulcan Power Co	T16N R29E	35	640.00	8/23/2006	Lee HS, Churchill Co
74884	Evergreen Energy LLC	T17N R19E	12			Steamboat, Washoe Co
74884		T17N R20E	8,17,18,20	1,776.98	8/23/2006	Multiple townships
75005	Kingzett, James M	T20N R26E	30	588.96	8/23/2006	Hazen, Churchill Co
76104	Mackie, Stuart	T19N R26E	4	488.64	8/23/2006	Hazen, Churchill Co
76139	Kingzett, James M	T20N R26E	32	630.00	8/23/2006	Hazen, Churchill Co
76421	Katz, Lewis	T29N R48E	2,12	1,189.01	8/23/2006	Crescent Vly, Eureka Co
76630	Katz, Lewis	T41N R52E	8,10,17	480.00	8/23/2006	Tuscarora, Elko Co
76821	Ormat Nevada Inc	T12N R33E	1,2,11,12	2,682.56	8/23/2006	Wedell Sprgs, Mineral Co
76822	Ormat Nevada Inc	T13N R34E	17,20,29,32	2,560.00	8/23/2006	Wedell Sprgs, Mineral Co
76823	Ormat Nevada Inc	T12N R34E	17,18,19	1,897.20	8/23/2006	Wedell Sprgs, Mineral Co
76824	Ormat Nevada Inc	T13N R33E	24			Wedell Sprgs, Mineral Co
76824		T13N R34E	18,19	1,920.00	8/23/2006	Multiple townships
76826	Ormat Nevada Inc	T13N R33E	25,36			Wedell Sprgs, Mineral Co
76826		T13N R34E	30,31	2,560.00	8/23/2006	Multiple townships
76827	Ormat Nevada Inc	T12N R34E	6,7	1,015.22	8/23/2006	Wedell Sprgs, Mineral Co
77158	Amp Resources	T18N R30E	5,6			Stillwater, Churchill Co
77158		T19N R30E	31,32,33	2,308.57	8/23/2006	Multiple townships
77217	Ormat Nevada Inc	T24N R32E	6	705.12	8/23/2006	Carson Sink, Churchill Co
77435	Western Geothermal Part	T18N R31E	30,31	1,260.00	8/23/2006	Salt Wells, Churchill Co
77436	Western Geothermal Part	T18N R30E	25,34,35,36	2,560.00	8/23/2006	Salt Wells, Churchill Co
77538	Western Geothermal Part	T38N R62E	4,16,18,20,30	2,659.28	8/23/2006	Wells, Elko Co
77550	Western Geothermal Part	T38N R62E	6,28,32,34	1,036.57	8/23/2006	Wells, Elko Co
77551	Western Geothermal Part	T38N R62E	32	160.00	8/23/2006	Wells, Elko Co
77552	Western Geothermal Part	T38N R62E	28	160.00	8/23/2006	Wells, Elko Co
77646	Kingzett, James M	T20N R25E	26	80.00	8/23/2006	Hazen, Churchill Co
77690	Amp Resources	T19N R30E	28,29	400.00	8/23/2006	Stillwater, Churchill Co
77711	Western Geothermal Part	T17N R31E	33,34	1,280.00	8/23/2006	Salt Wells, Churchill Co
77712	Western Geothermal Part	T16N R31E	3,4	1,296.58	8/23/2006	Salt Wells, Churchill Co
77722	Western Geothermal Part	T18N R30E	22,26,27	1,920.00	8/23/2006	Salt Wells, Churchill Co
77739	Kingzett, James M	T19N R26E	6			Hazen, Churchill Co
77739		T20N R25E	34			Multiple townships
77739		T20N R26E	31	1,896.54	8/23/2006	Multiple townships
77983	Western Geothermal Part	T8N R29E	25	200.00	8/23/2006	Hawthorne, Mineral Co
77984	Western Geothermal Part	T7N R30E	5,6	945.09	8/23/2006	Hawthorne, Mineral Co
77985	Western Geothermal Part	T8N R30E	29,30,31,32	1,904.76	8/23/2006	Hawthorne, Mineral Co
78364	Katz, Lewis	T29N R48E	24,26			Crescent Vly, Eureka Co
78364		T29N R49E	30,32	2,392.44	8/23/2006	Multiple townships
78771	Miller, Dusty LLC	T13N R33E	31,32,33	1,986.00	8/23/2006	Wedell Sprgs, Mineral Co
78772	Miller, Dusty LLC	T12N R33E	5,6,7,8	2,541.14	8/23/2006	Wedell Sprgs, Mineral Co
78773	Miller, Dusty LLC	T12N R33E	3,4,9,10	2,551.68	8/23/2006	Wedell Sprgs, Mineral Co

78775	Miller, Dusty LLC	T12N R32E	13,24			Wedell Sprgs, Mineral Co
78775		T12N R33E	17,18	2,552.80	8/23/2006	Multiple townships
79077	Katz, Lewis	T28N R49E	2,6,8,16	2,454.34	8/23/2006	Crescent Vly, Eureka Co
79103	Ormat Energy Inc	T18N R29E	35	80.00	8/23/2006	Carson Lake, Churchill Co
79104	Ormat Nevada Inc	T18N R30E	28,31,32,33	2,480.99	8/23/2006	Carson Lake, Churchill Co
79105	Ormat Nevada Inc	T18N R30E	19,20,29,30	2,356.36	8/23/2006	Carson Lake, Churchill Co
79106	Ormat Nevada Inc	T17N R30E	5,6,7,8	2,588.75	8/23/2006	Carson Lake, Churchill Co

OTHER NEWS

BLM and MMS Host Public Meeting:

- ◆ A meeting on the Implementation of the Geothermal Sections of the Energy Policy Act of 2005 was held August 31, Reno, NV to solicit comments from the public and from industry in regard to the two sets of draft rules; which were written in response to the Energy Policy Act of 2005. The EPACT mandated comprehensive changes to leasing and royalty policies to encourage geothermal energy use without imposing additional administrative burdens on industry or government agencies. Comments can be submitted until September 19, 2006. If by email, either directly through www.blm.gov/nhp/news/regulatory/index.htm and follow instructions, or send to: comments_washington@blm.gov and include "Attn: AD86" in the subject line.

Department of Energy, GeoPowering the West – <http://www.eere.energy.gov/geothermal/gpw/> .

- ◆ A third solicitation by the GPW Nevada Working Group for funding has been granted to the Geo-Rail Industrial Development (GRID) for a feasibility study of an industrial / commercial park proposed exclusively for businesses whose products or services involve alternative or renewable energy. The Geo-Heat Center, OIT, will conduct the study in cooperation with UNR's Great Basin Center for Geothermal Energy. The study is due in Fall 2006.
- ◆ The Mt. Grant Hospital, Hawthorne, NV feasibility study is complete. The study found geo-heat pump replacement of the existing oil burner heating system to be economically attractive at approximately one half of the capital cost of upgrading the existing boiler system. A 500-foot test well is recommended for use in an open loop geothermal heat pump system. The feasibility study allowed for a GO-NO GO decision and the Hospital and County administrators are seeking financial aid to drill the needed well for geothermal system implementation.
- ◆ Two solicitations by the GPW Nevada Working Group for funding have been granted.
 - Geothermal Industrial Park, Elko, NV. Approximately \$7,000 grant. The project involves expansion and diversification of a highly successful district heating system by constructing a geothermal-heated industrial park to be located on the western edge of town. Project partners are Chilton Engineering, developer, markay@frontiernet.net and the Oregon Institute of Technology, Geo-Heat Center, technical consultant, <http://geoheat.oit.edu> . The funds will be used to provide engineering assistance as construction develops for an estimated 100,000 sq. ft of floor space.
 - Mt Grant Hospital, Hawthorne, NV. Approximately \$25,000 grant. Engineering assistance in the form of a feasibility study is being requested by the hospital staff so that decisions can be made as to the lowest life-cycle cost of a replacement of a fuel oil / propane heating plant with a geothermal system. Project partners are the Mt. Grant Hospital, administrators, 775-945-2461 and the Oregon Institute of Technology, Geo-Heat Center, technical consultant, <http://geoheat.oit.edu/> .

109th Congress - <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.

FY 2007 Budget – Senate and House Committees Take Action to Restore Geothermal Research Program

- ◆ June 27, 2006 From GEA, Karl Gawell <http://geo-energy.org/publications/pressReleases.asp>
Senate Energy and Water Subcommittee voted to restore full funding for the DOE geothermal research program in FY 2007. The funding bill provides \$22.5 million for geothermal research. Also the House Science Committee accepted an amendment reiterating the obligation of a geothermal research program in FY 2007 as directed by the Energy Policy Act of 2005.
- ◆ **DOE Budget Request eliminates Geothermal Technologies Program**
In response to the FY 2007 Budget request submitted by the White House, new bills have been introduced to maintain some of the incentives for geothermal development. Both the Senate and the House are preparing to

act on their FY 2007 Appropriations bills, possibly as early as the week of May 8, 2006.

- ◆ **S.2571** - A bill to promote energy production and conservation, and for other purposes. Sponsor Sen Conrad, Kent (ND), introduced 4/6/2006; Latest Major Action: 4/6/2006 Referred to Senate committee. Status: Read twice and referred to the Committee on Finance. Includes extension of investment tax credit for business through 2012, establishes a federal renewable portfolio standard with a goal of 20% renewable by 2020.
- ◆ **S.2401** - A bill to amend the Internal Revenue Code of 1986 to extend certain energy tax incentives, and for other purposes. Sponsor: Sen Grassley, Chuck (IA), introduced 3/13/2006, Related bill S.2398; Latest Major Action: 3/13/2006 Referred to Senate committee. Status: Read twice and referred to the Committee on Finance.
- ◆ **H.R. 5331** – A bill to promote energy production and conservation and for other purposes. Sponsor: Rep Pomeroy, Earl (ND), introduced 5/9/2006; Latest major action 6/5/2006 Referred to House Subcommittee, Referred to Subcommittee on Energy and Air Quality.

Intermountain West Geothermal Consortium

- ◆ IWGC, authorized by the Energy Policy Act of 2005, is comprised of six institutions from four western states; Idaho National Laboratory, Idaho Water Resources Research Institute, the Geo-Heat Center at the Oregon Institute of Technology, the Desert Research Institute in Nevada, The Energy and Geoscience Institute at the University of Utah and Boise State University.
- ◆ July 11, 2006 – Full Committee Hearing – Geothermal Energy – Energy and Natural Resources Committee, U.S. Senate – Statement by Director Dr. Walter Snyder. Dr. Snyder testified about the importance of geothermal energy production and described a function of the IWGC to “conduct targeted studies of low, moderate, and high temperature geothermal systems in Idaho, Oregon, Utah, Nevada and California”...”The IWGC will work with industry and state and federal agencies to assist in bringing geothermal resources online for direct use and power generation” -

http://energy.senate.gov/public/index.cfm?FuseAction=Hearings.Testimony&Hearing_ID=1576&Witness_ID=4455&SuppressLayouts=True

Nevada County Land Bills

- ◆ The Nevada Division of Minerals and the Nevada Bureau of Mines and Geology have compiled “Mineral and Energy Potential Posters” to assist in the decisions regarding land withdrawals and future development of these public land areas. The posters are available at the NBMG website at – www.nbmq.unr.edu/dox/of065.pdf (White Pine Co), www.nbmq.unr.edu/dox/of066.pdf (Pershing Co), www.nbmq.unr.edu/dox/of067.pdf (Lyon Co). County officials/contacts: Pershing County, Karen Wesner kwesner@pershingcounty.net (775) 273-2342; Lyon County, www.lyon-county.org (Commissioner information) (775) 463-6531.
- ◆ The draft version of the White Pine County land bill was entered in the Senate on August 2. They expect the bill to be edited in the House in September. This link provides the maps referenced in the Draft White Pine County Land Bill – http://ensign.senate.gov/issleg/issues/white_pine_county.htm . Contact your representative with comments.
- ◆ The Nevada Division of State Lands, State Land Use Planning Agency, has posted a spreadsheet on their website to update and summarize the status of the Statewide Land Bills. You may contact that office in Carson City (775) 684-2723. The spreadsheet is available online at - <http://www.lands.nv.gov/program/slupa.htm> .

US Forest Service, Humboldt-Toiyabe National Forest Plan Revision

- ◆ Assessment of lands on the Humboldt-Toiyabe National Forest that have potential for consideration by Congress for Wilderness designation; an inventory prepared as a part of the revision of the Humboldt-Toiyabe National Forest Land and Resource Management Plan as per Forest Service Manual direction. The Forest Service have identified 1.3 million acres of the Humboldt-Toiyabe Forest as “capable areas” for wilderness consideration. You may access the Forest Plan and timetables for public comment at www.fs.fed.us/r4/htnf/projects/forestplan .
- ◆ The most recent information available from USFS on the Forest Plan Revision can be found at <http://www.fs.fed.us/r4/htnf/projects/forestplan/index.shtml> contact Michael Hampton, Planning Staff Officer in Reno (775) 355-5314.

Geothermal Energy Association – Survey: U.S. projects underway could double geothermal power output – <http://geo-energy.org/publications/pressReleases/2006%20US%20Geothermal%20Update%20Release.pdf>

- ◆ “A new survey shows a major surge in developing geothermal power projects in the U.S. Some 45 projects are underway that could nearly double US geothermal power output according to the Geothermal Energy Association (GEA) – the industry trade group.” Karl Gawell attributes this activity to a combination of state renewable standards and federal production tax credits. For more information, contact Gawell (202) 454-5264

- ◆ The **2006 Update on US Geothermal Power Production and Development** is available on the GEA website at: <http://www.geo-energy.org/publications/reports/2006%20Update%20on%20US%20Geothermal%20Power%20Production%20and%20Developmentx.pdf>

Geothermal Resources Council – Securing Our Energy Future - 2006 Annual Meeting, Sep 10-13 – Town & Country Resort, San Diego, CA - <https://www.geothermal.org/meet.php>

- ◆ GRC 2006 Annual Meeting and Geothermal Energy Association Trade Show. For registration information and/or meeting transactions, contact Geothermal Resources Council • P.O. Box 1350 • Davis, California 95617 • USA • Phone (530) 758-2360 • Fax (530) 758-2839 • E-mail: grc@geothermal.org
- ◆ The GRC is pleased to announce the placement of **Curt Robinson Ph.D.** as Executive Director of the GRC. Curt will be located in the GRC offices in Davis, CA. GRC staff support will continue with the services of Ms. Estela Smith and Ms. Sasha Bessom. Curt has over twenty-five years of progressive experience in communications, public outreach, government relations, program and resource development, and finance and administration management. Curt can be reached via email at: crobinson@geothermal.org

Public Utilities Commission of Nevada - <http://www.puc.state.nv.us/http://pucweb1.state.nv.us/PUCN/CommissionInfo.aspx?Util=PressReleases>

- ◆ April 3, 2006 – Notice of Electric Utilities’ Annual Report on Compliance with Renewable Energy Portfolio Standard – Sierra Pacific Power Company and Nevada Power Company filed an Annual Report with the PUC of Nevada, Docket No. 06-04002, regarding their actions to comply with the renewable energy portfolio standard for 2005. The companies report compliance with the non-solar portfolio standard and non-compliance with the solar portfolio standard. The report is available for public review at the offices of the Commission: 1150 East William Street, Carson City, Nevada 89701 and 101 Convention Center Drive, Ste. 250, Las Vegas, Nevada 89109 or via the NPUC website

College of Engineering Receives Additional Funding from NREL to Perform Three New Renewable Energy Studies at Redfield Campus

- ◆ Three proposals for work to further understand and develop renewable energy in a power plant environment have been selected for funding by the Department of Energy, through its National Renewable Energy Laboratory (NREL). The proposals were submitted in October 2005 by faculty at the College of Engineering at the University of Nevada, Reno in response to an expression of interest that was issued by the UNR-Renewable Energy Center, an element of the Great Basin Center for Geothermal Energy. Selections were made by NREL. The NREL selection process used both internal and external evaluators who are recognized experts in the topic areas for each project.
- ◆ Dr. Kwang Kim received notifications of funding for two of his projects, “Surface Treatment for Enhanced Geothermal Power Plant/Condenser Performance,” and “Geothermal Derived Hydrogen Production and Compression.” Dr. Tzahi Cath received notification of funding for his project titled, “Zero-Liquid Discharge Systems for the Recovery of Cooling Tower Water in Geothermal Power Plants.” Awards will be for a period of 14 months from the execution of the contract. Contractual arrangements are currently in progress between NREL and the University of Nevada, Reno for these projects

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
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- ◆ 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>
- ◆ **California Geothermal Energy Collaborative** - <http://cgec.ucdavis.edu/>
“The overall goal of the California Geothermal Energy Collaborative (CGEC) is to expand the sustainable use of geothermal resources to meet California’s energy needs. The CGEC coordinates activities with the geothermal industry, local, state and federal agencies, and other entities to focus statewide geothermal activities.”
- ◆ **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/gpw/>
- ◆ **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.earthscan.co.uk/>
- ◆ **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/gthome.htm>
- ◆ **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 Renewable Energy and Energy Conservation Task Force website** - <http://www.nevadarenewables.org/?section=home>
- ◆ **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/>
- ◆ **Winnemucca BLM Geothermal Resource Leasing Proposal Website**
<http://www.nv.blm.gov/Winnemucca/geed/default.htm>

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