

A.A.D.E.

Monthly Technical Forum
February 18, 2010

Speakers

Mike Woods
Chris Ellis
Mark Steffen

Topic

Geothermal

Time

5:30-Social Hour
6:30-Dinner
7:00-Presentation

Place

Coconut Joes Banquet Hall

Cost

\$20 if RSVP

RSVP

Ariana Enriquez
334-3600 or
Ariana.Enriquez@Halliburton.com

2009-10 Board of Directors

OFFICERS

President	Carl Simonson	Chevron	654-7206
1st VP	Frank Hutton	Oxy of Elk Hills	412-5346
2nd VP	Dennis Lovett	Terra-Gen	760-764-1300
Treasurer	Bud Frederick	Driltek	327-3021
Secretary	David Arias	Halliburton	334-3601

CHAPTER REPRESENTATIVE

Lonnie Kerley Plains Exploration 395-5204

STEERING COMMITTEE

Regan Braseth	Chevron	654-7523	John Hood	Vintage	869-8000
Brad Elliot	Seneca Res.	391-3545	Jason Mundorf	SJ Bit	834-3233
Jim Fox	Driltek	327-3021	Jeff Quintana	Oxy	412-5382
Travis Adams	GEO	325-5919	Pat Sullivan	Halliburton	334-3600
Dave Guerrero	J.D. Rush	392-1900	Tim Zdarko	Aera	665-5356
Fred Holmes	Key Energy	763-1537	Kevin Jeffries	SLB	

From the President

This month's technical meeting is focusing on the geothermal side of the drilling business. I'll

be the first to admit that I really don't know that much about this side of the industry, but I'm as curious as anyone and I thought it would be a

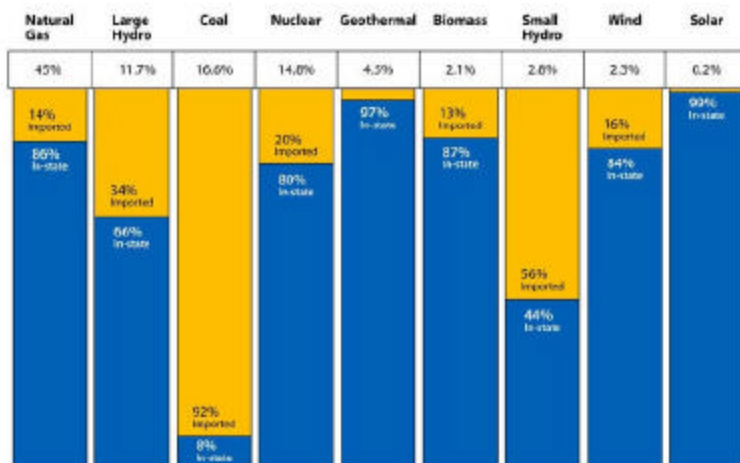
good idea to share a little information with our members in preparation for the meeting.

A little research shows that California contains the largest amount of geothermal generating capacity in the United States. We have three major geothermal energy produc-

ing areas: The Geysers in Northern California, Coso Hot Springs and the Imperial Valley. Geothermal energy produced 4.5% of California's energy in 2007. That may not seem like a significant amount, but it was far ahead of all the other renewable sources like wind and solar. See figure ES-1, courtesy of the California Energy Commission. Now, consider that California has mandated that 33% of all electricity be generated from renewable sources by 2020, up from 13.5% in 2008 (Fig. ES-2.). It seems logical that geothermal could play a significant role in meeting California's renewable energy goal.

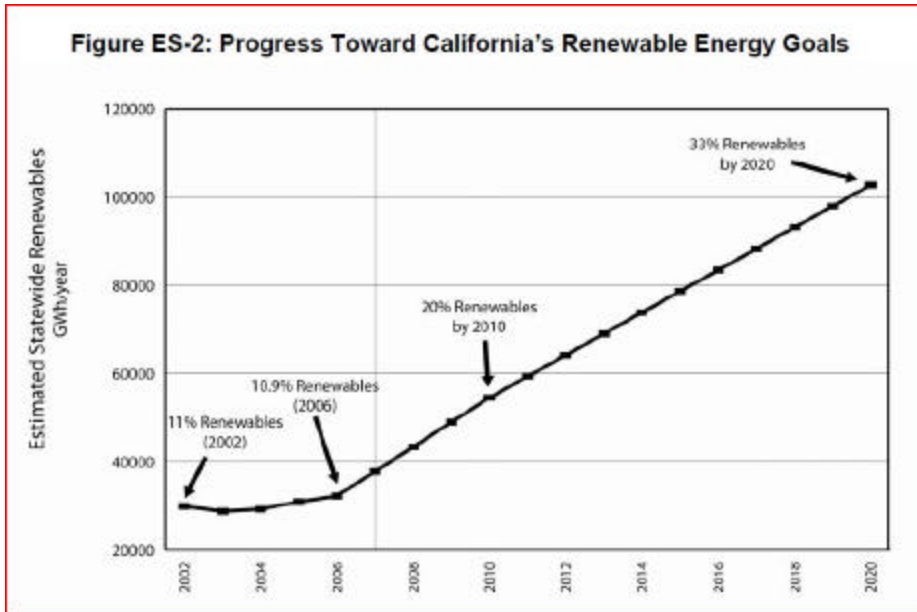
(continued on page 2)

Figure ES-1: California's Electricity Mix - 2007



Source: California Energy Commission, Gross System Power Report 2007

Figure ES-2: Progress Toward California's Renewable Energy Goals



(Continued from page 1)

If you want to learn more about the technical side of the geothermal drilling, please join us at this month's technical forum. Again, we are meeting at Coconut Joe's Banquet room. I hope to see you all there.

Carl Simonson
 office: (661)654-7206
 Email: csim@chevron.com

About the Speakers:

Mike Woods – Senior Oil & Gas Engineer – DOGGR

I received my BS degree in Petroleum Engineering from the University of Texas in 1984 and began working for the DOGGR in 1989. I worked as a field engineer in the Coalinga and Bakersfield offices from 1989-2001, when I was transferred to El Centro and became the geothermal district engineer for 8+ years. Starting February 1, 2010 (just this month), I transferred to our headquarters office in Sacramento to head a new unit called Engineering and Research. Mostly this unit's duties include our GIS (mapping) and EDP (electronic data processing) and reservoir engineering (reserve estimates).

Chris Ellis – Site Manager – Coso Operating Company

Christopher Ellis, Site Manager for Coso Operating Company, has been at the Coso Project since 1988. During his tenure, he has held various positions with the company encompassing all aspects of facility operations, maintenance, construction, and administration. Prior to being promoted to the Site Manager position in November of 2006, Mr. Ellis had served in management and leadership roles including Assistant Site Manager, Maintenance Manager, Construction Supervisor, Warehouse Supervisor, Purchasing Agent, and Maintenance Planner. He was directly involved in the start-up on eight of the nine power plants at Coso. He obtained his formal training and education in the US Navy's Nuclear Power Program after attending the University of Arizona.

Mark Steffen – Drilling Manager – Calpine

Graduated from Colorado School of Mines in 1975 as a Petroleum Engineer. Worked as production and drilling engineer in Oil & Gas industry for ten years with several companies in California and Mid-continent. Started in Geothermal industry in 1983. Worked as drilling engineer/manager for succession of companies involving projects in California, Utah, Nevada, and Mexico. Presently working and located at the Geysers Geothermal project in Northern California.

NEWS BRIEFS

News Briefs – January 2010

A quick announcement before starting with the news briefs. I (Travis Adams) will be stepping in for Bob French on the AADE steering committee and will be writing the News Briefs. My journey in Bakersfield started in 1989 after leaving the Imperial Valley. This led me to attend North High School from 1990-1994. After finishing high school I attended Bakersfield College for two years. Continuing my education at San Diego State Univ. finishing with a degree in Business Administration four years later. (Yes it took me four years to finish two years of school. Spent a little too much time at the beach). After moving back to Bakersfield I worked in the Hospitality industry before going to work with GEO Drilling Fluids. Moving into the Oil and Gas industry was a great move. Over the last seven years I have ran mud throughout California

from Brawley to Grimes working for many of the operators in California. I moved into the office at the beginning of 2009 and have been handling regional sales since. I just want to thank our local oilfield family for the great mentoring over the years.

We want to thank John Daniel for a great presentation! I think we all left feeling positive about the year and the forecast for our industry. The AADE sporting clay shoot went very well and the weather was beautiful. We will be having another shoot in May so be looking for the sign up sheet. This months meeting will be held at Coconut Joes Banquet room again and directions can be found in last months newsletter for those who didn't attend. The AADE meetings are a great place for networking and we need to encourage attendance. Do not forget to

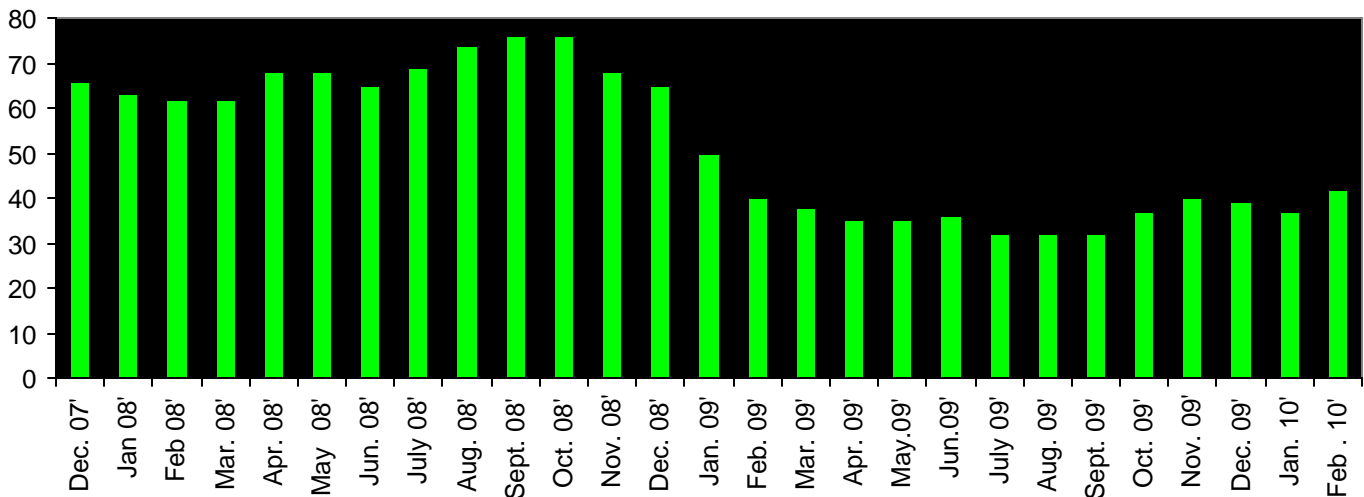
RSVP to Ariana, for your chance at the \$50 lucky member of the month prize.

Here is something of interest for this month that many of you may like to attend:

*The annual dinner meeting and program for the West Kern Oil Museum in Taft is February 27th. The Key note speaker will be **HAL BOPP WITH THE CALIFORNIA DIVISION OF OIL AND GAS IN SACRAMENTO.** Title of Hal's speech is **Oil History in California.** I will send out the flyer from the Museum as soon as it comes out telling the time and how to get tickets. This event is open to everyone. **SAVE THIS DATE IF YOU CAN.***

(continued on page 4)

Monthly Rig Count Onshore California



* Data based on Munger Report

Lucky Member of the Month—Justin Trahan

Justin Trahan is part owner of Gas Well Supply, the Trahan family business. He is a salesman/chemical engineer for the company. Gas Well Supply provides services in California, Wyoming, Texas, Colorado, Pennsylvania and West Virginia. The Trahan's have been involved in this industry since the early 80's. Justin has been a part of the family business since 2005. He worked as a Field Service Engineer for Baker Inteq from 2003-2005. Justin graduated from Oregon State University in 2003 with degrees in both Chemistry and Biology. Justin currently resides in Bakersfield with his dogs Koufax and Cynder and will be married to Kristi Bratcher in May of 2010.

(continued from page 3)

All of us on the AADE Board want to wish everyone a Happy and Prosperous New Year!!

Travis Adams

Office: (661)325-5919

Email: travis@geodf.com

AADE CALENDAR—2010

- | | |
|-------|-------------------------|
| 2/18: | Monthly Technical Forum |
| 3/19: | Golf Tournament |
| 4/15: | Monthly Technical Forum |
| 5/20: | Clay Shoot |

This schedule is tentative and may be subject to change



AMERICAN ASSOCIATION OF DRILLING ENGINEERS MEMBERSHIP APPLICATION

DATE: _____

Chapter Affiliation *(please check one of the following)*:

Appalachian	Dallas/ Fort Worth	Houston	Lafayette	New Orleans	West Coast	Denver	Permian Basin	Mid- Continent	Anchorage Alaska
\$25.00	\$20.00	\$25.00	\$15.00	\$20.00	\$15.00	\$25.00	\$15.00	\$25.00	\$20.00

_____ Last Name _____ First Name _____

_____ Company _____ Title _____ Business Phone _____

_____ Address _____ Fax _____

_____ City _____ St. _____ Zip Code _____ E-Mail Address _____

Business Type: *(Please circle one)*

- (10) Oil and Gas Producer (20) Engineering/Operations Consulting (30) Environmental (40) Equipment/Service Supply Company
 (50) Consumable Product/Service Supply Company (60) Drilling Contractor (70) Governmental or Regulatory Agency (80) Other

Job Function: *(Please circle one)*

- (A) Management (B) Engineering (C) Operations (D) Technical Support/Service (E) Research and Development
 (F) Field Service/Technician (G) Training (H) Purchasing (I) Marketing/Sales (J) Other

AADE FORM No. 020 (8/94) Rev. 08/20/2009

Member No. _____

Mail Form and Payment direct to appropriate Chapter(s).

CHAPTERS:

APPALACHIAN:	Attn: Colby Fuser c/o Halliburton 400 Southpoint Blvd Ste 410	Canonsburg, PA 15317
NEW ORLEANS:	PO Box 51929	New Orleans LA 70151 - 1929
LAFAYETTE:	PO Box 80023	Lafayette LA 70598 - 0023
HOUSTON:	PO Box 107	Houston TX 77001-0107
DALLAS/FT. WORTH:	PO Box 214322	Dallas TX 75221 - 4322
WEST COAST:	PO Box 9953	Bakersfield CA 93389
DENVER:	Attn: Rick Davis - c/o Weatherford - 410 17th Street, Ste 400	Denver CO 80202
PERMIAN BASIN:	PO Box 51038	Midland TX - 79710
MID-CONTINENT:	PO Box 720992	Oklahoma City OK 73172-0992
ALASKA:	PO Box 93538	Anchorage AK 99509-3538

AADE NATIONAL HEADQUARTERS: (Do not mail Dues Payment to this address)

P.O. Box 107, Houston, TX 77001-0107 281-293-9800 Fax: 281-293-9800 carolynberry@att.net