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INSTRUCTOR: LEE DENKE

OIL & GAS CONSULTANT

ENERGY EXPOSITION & SYMPOSIUM - SHORT COURSES

JUNE 26 - 27, 2019 | GILLETTE, WY | WYOMING CENTER, CAM-PLEX

\$25 each class or **\$100** for all courses

QUICK HIT, ONE HOUR COURSES

These courses are short-short courses, designed with the Expo attendee in mind! The idea is to provide an hour or two of training that is a quick-hit, succinct, immediately useful capsule of information just for you. As well, these courses are a sampler from Platte River Group, LLC's longer courses. Have a need to train others in your organization, perhaps people you are onboarding, or targeting for advancement? Ask about a training course!

COURSE 1: OIL INDUSTRY OVERVIEW

Do you market to several industries, including the oilfield?

- How is the industry structured?
- Learn how the oil and gas industry is segmented. Where does it change from upstream to midstream?
- What is changing in oil & gas? Where are the lines blurring?
- How do temperatures & pressures vary?
- What are typical organization charts?
- What regulatory pressures drive new construction?
- What is "midstream water," and why does it seem to be part of "upstream?"

COURSE 2: DRILLING & FRACTURING

We drill the well, then we "complete" it. Most of the time, "completion" is fracturing ("fracking").

- Describe circulation, cuttings removal, logging and other rig operations.
- How do they drill sideways to make horizontal wells?
- How is fracturing done? What is the difference between plug and perf vs. sliding sleeve fracturing?
- What are frac hits?
- What logistics are typical in these operations? What is some of the jargon that is typical?
- How have innovations made some equipment obsolete, while making opportunities for other equipment?
- How have millennials and other entrepreneurs made business opportunities?
- How have sources of materials shifted comprehensively from one region of the country to another, and why?
- How much water is used for fracturing, and where do people get it? What are the logistics of the water?

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COURSE 3: CHANGES IN THE OILFIELD

What are some of the biggest changes, and biggest drivers of change?

**These topics are subject to change*

- How can we do more than say “we’ve got to manage change?”
- Regulations are sure to drive change. Is it possible to see new regulations coming, and prepare for them?
- The Big Crew Change has happened. How is this driving change?
- How did the downturn drive changes in our business?
- How is unconventional (shale) development different from conventional development?

COURSE 4: OIL WATER SEPARATION FACILITIES

What are typical processes in the facilities, and how can I understand what I’m seeing when I’m in the field?

- Transitioning from another industry, such as municipal wastewater or refining, requires adjustment to new operating conditions. How can you leverage what you know, and learn new jargon quickly?
- What is the sequence of operations in the plants?
- What’s a Free Water Knock Out (FWKO)? How is that different from a Heater Treater?
- Pollution control is a problem for oil and gas operators. What can be done to solve this problem?

COURSE 5: WATER RECYCLE OR DISPOSAL

We hear a lot about water recycling, yet most of the water seems to go down injection wells. What’s the deal?

- What is done at a typical injection well site?
- What are some possible uses for recycled water?
- Is it realistic to recycle water or not? In what cases do people recycle water?
- What would you have to do to recycle water?
- Can you recycle water, given the water rights constraints?
- There are complex recycling plants that clean the water to a high spec and discharge to rivers, but there are also simple plants that go through a few tanks and discharge to a dry wash in Wyoming. What’s up with that?
- Did EPA really shut down all the water disposal in California? Could that happen here?
- What is the impact of salinity in the water? How salty is it?

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COURSE 6: GAS

Gas is either a product or a nuisance. Why?

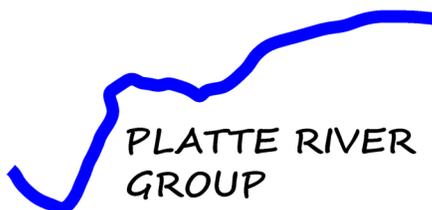
- What are typical producing conditions for gas?
- What is wet gas? What is dry gas?
- You can make Liquid Natural Gas and haul it in trucks. You don't need a pipeline. Why not do that everywhere?
- What's the difference between Liquid Natural Gas and Natural Gas Liquids?
- What is drip gas? Is drip gas good or bad? Can I run my car on it?
- Why do we need a gas plant? It looks like a refinery – don't you send oil to the refinery?
- What are hydrates? How can we get rid of them?
- Why would you ever flare the gas instead of selling it?

TARGET AUDIENCE

- Sales and business development professionals
- Managers, especially those moving from other aspects of industry to upstream oil and gas
- Environmental, health, and safety personnel
- Operations and production personnel
- Other professionals in the oil and gas industry

INSTRUCTOR

Lee Denke started off by getting a bachelor's in electrical engineering from the University of Wyoming, then took a job cementing, acidizing and fracturing wells with Schlumberger in Worland, Wyoming, and has worked in California, North Dakota, and the Rocky Mountain area. Additional jobs included both subsurface and facilities engineering, as well as project management for Texaco, Aera and Berry. Lee understands the contract side of the business as well, having worked for the consulting firms TJ Cross, Ken Small, and Processes Unlimited. Lee currently works as a consultant in downhole and facilities operations and is licensed as a mechanical engineer in Wyoming and Colorado.



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