



Dynamic Gas Lift

► Tony W. Hord

ALRDC Gas Lift Workshop
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Dynamic Gas Lift

Artificial Lift
R&D Council



Tony W. Hord, Retired

Completion and Well Management
Principle Artificial Lift Engineer,
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35.5 Years with ExxonMobil, 46
year in the Petroleum Industry



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If I knew then what I know now what would I have done differently?

- What have I learned from 46 years in the petroleum industry?
- Are we teaching the right things to the next generation?

What is the Vision for Future Gas Lift?

- Technology - equipment, automation?
- Data - AI (artificial Intelligence), Smart Gas Lift?

A Career in Artificial Lift

PADI - NAUI Certification 1974

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What have I learned from 46 years in the petroleum industry?

- As is life, Once a well has been drilled & completed, it begins to deplete.
- The life cycle of the oilfield is 20 years
- Artificial lift is at the heart of long-term oil & gas production.
- Gas Lift offers a wide range of opportunities for oil & gas production.

Belmont Island Supervisor 1993

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Are we teaching the right things to the next generation?

Fundamentals

Design
Surveillance
Troubleshooting
Optimization
Well testing

On the Job Training

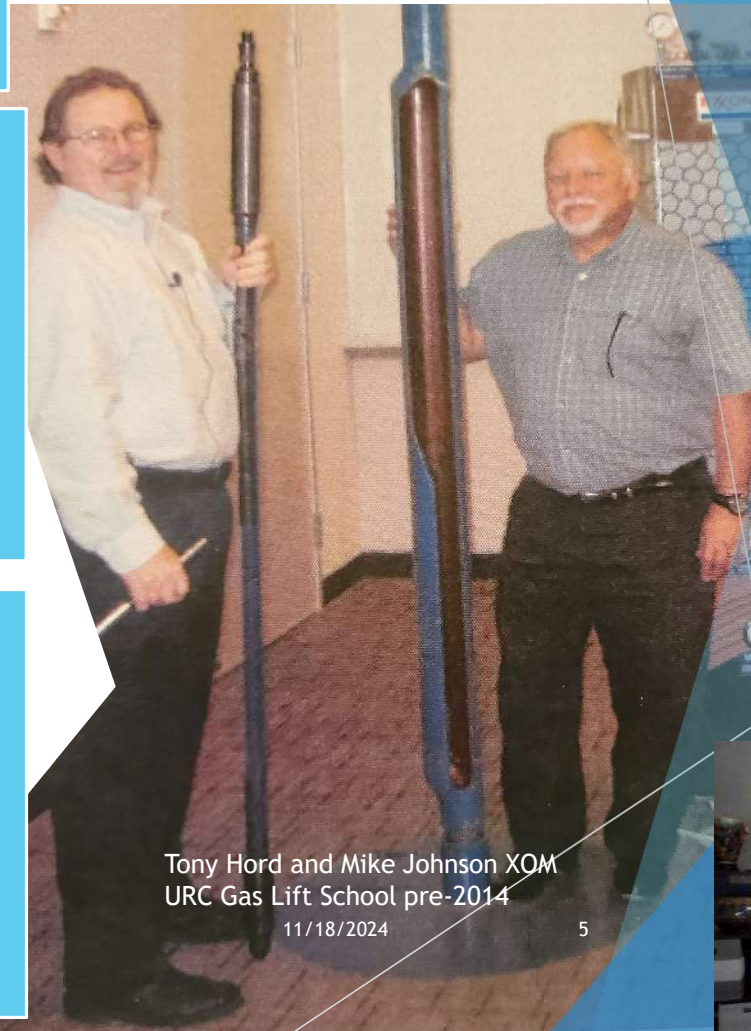
Surveillance
Recording
Well Testing
Optimization

Detailed specific disciplines

Metering
Orifice sizing
Gas lift designing

Career Development

Gas lift principles
Best Practices
Project & gas lift design



Tony Hord and Mike Johnson XOM
URC Gas Lift School pre-2014

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If I knew then what I know now what would I have done differently?

- Keep things simple, effective, efficient and profitable.
- Plan, develop and execute for the future.
- Network more, ALRDC, API, SPE, SWPSC and other Industry workshops

Building CO2 Gas Compression
Stations 1983

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What is the Vision for the future of Gas Lift?

- ▶ Dynamic
- ▶ Progressive
- ▶ Energetic

Inland Louisiana well

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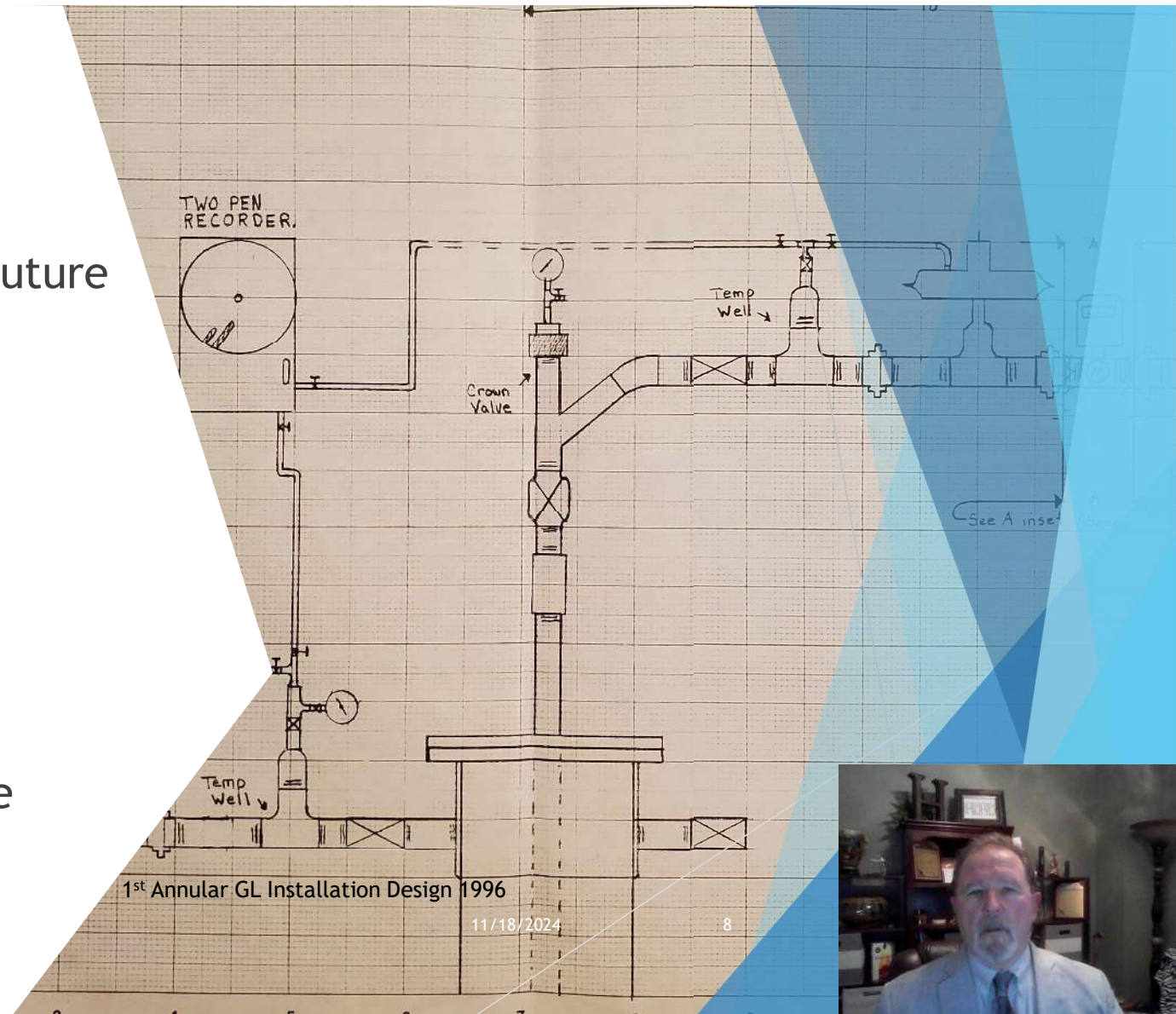
What is the Vision for the future of Gas Lift?

Technology

- ▶ Equipment
- ▶ Automation

Data

- ▶ AI - artificial intelligence
- ▶ Smart Gas Lift



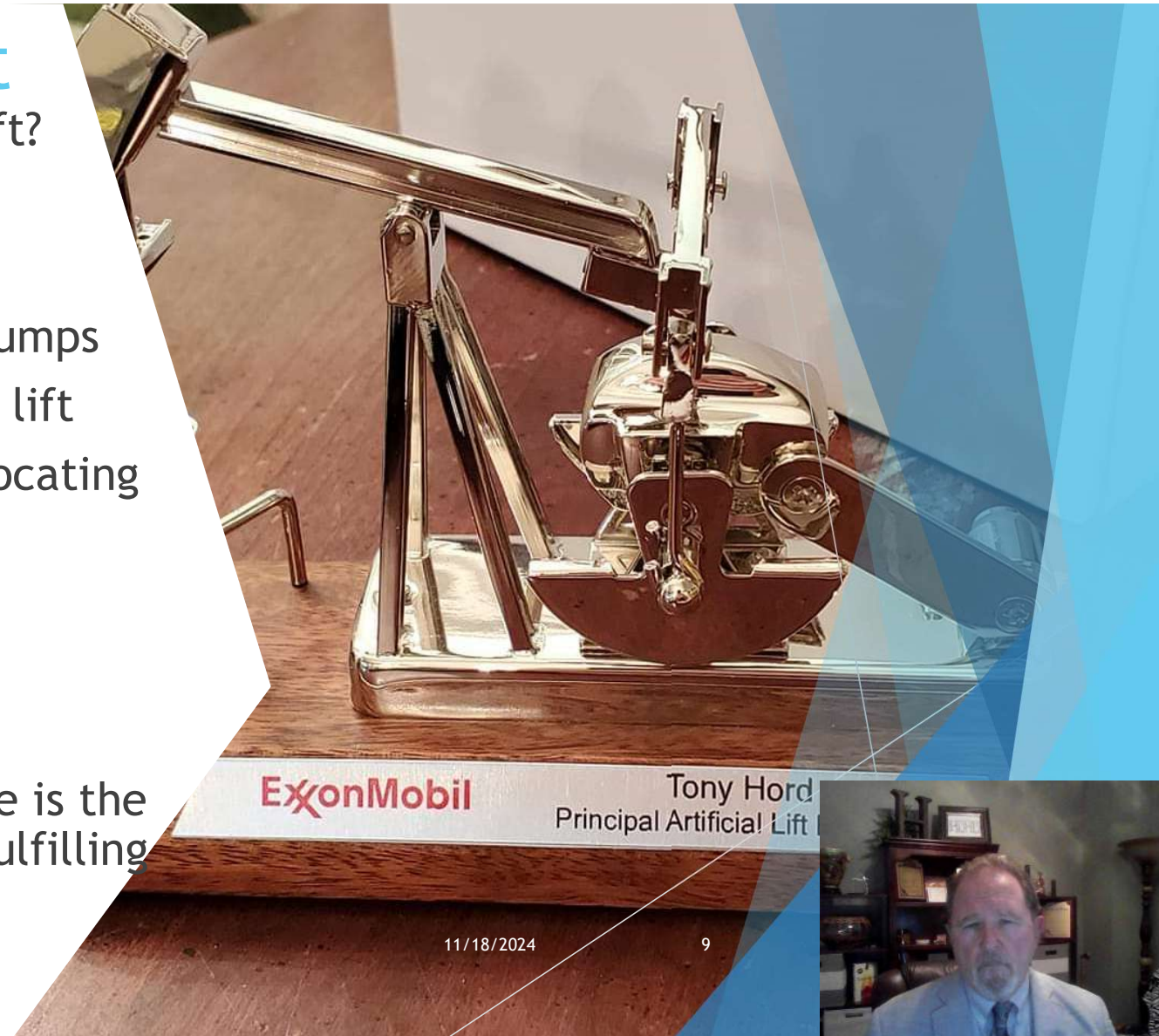
Dynamic Gas Lift

A Career in Artificial Lift?

Multiple types of artificial lift

- De-liquification
- ESP, electrical submersible pumps
- Gas Lift and intermittent gas lift
- Hydraulic lift, jet and reciprocating pumps
- Plunger Lift, GAPL, PAGL
- Progressive cavity pumps
- Sucker rod pumping

A promising & exciting future is the beginning of a satisfying & fulfilling career!



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