

Artificial Lift
R&D Council



ALRDC Gas Lift Workshop

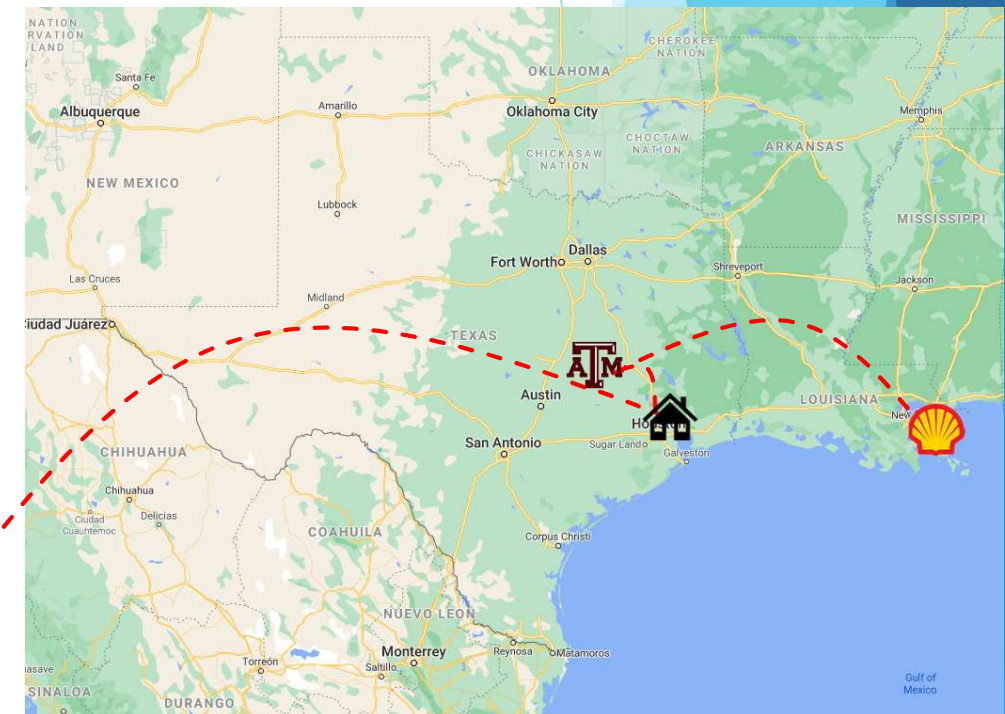
June 10, 2021

Contents

- ▶ About me
- ▶ My experience working with gas lift
- ▶ Looking ahead, what's next

About me

- ▶ Grew up in Houston (The Woodlands)
- ▶ Petroleum Engineering at Texas A&M
- ▶ Production Engineer at Shell in Deepwater Gulf of Mexico
 - ▶ Supporting Perdido Spar
 - ▶ Offshore to Ram Powell TLP
 - ▶ Supporting Ursa TLP
- ▶ Appointed as a Shell associate Subject Matter Expert (aSME) in Gas Lift



“

... breathing new life into many
of its old and struggling
wellbores

”

October 2012

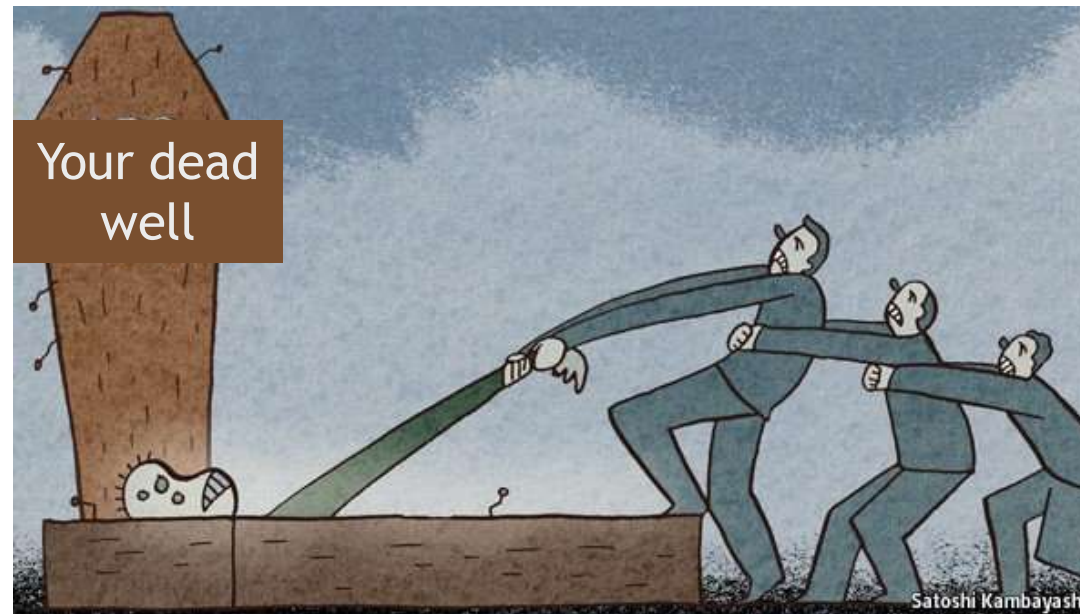


“

... Innovative Technique to Liven Dead Wells

”

SPE 160841, April 2012



My experience in gas lift



- Late-life, low producing
- Simple, reliable system
- Gas lift to manage slugging, loaded up wells



- Development hub in its prime
- Complex system, expanding subsea
- Gas lift to maximize efficiency for high potential completions

Gas lift today

- Breadth of experience
- Focus on optimization
- Business impact
- Tight and active community
- Exciting things ahead...

Evolution in Deepwater



- Late-life, low producing
- Simple, reliable system
- Gas lift to manage slugging, loaded up wells



- Development hub in its prime
- Complex system, expanding subsea
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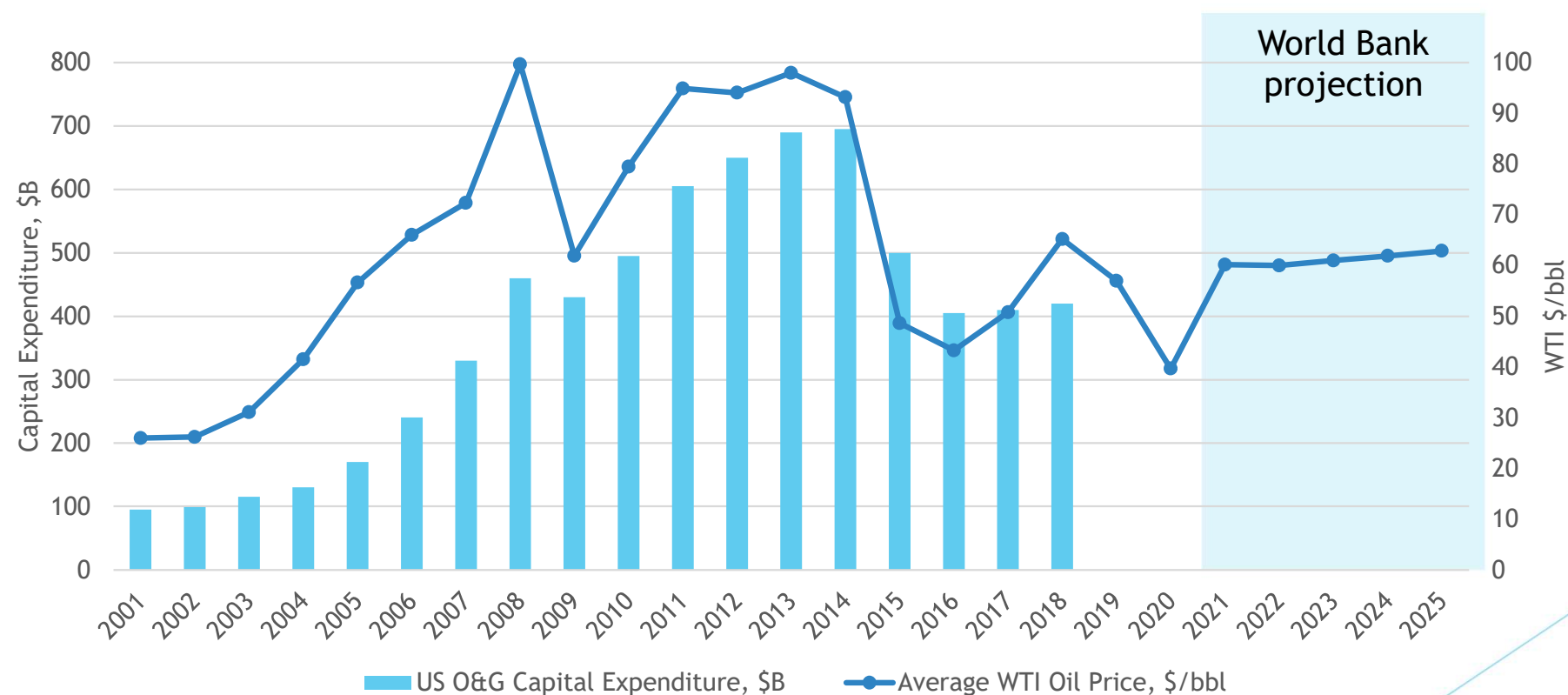


- New major facility under construction
- Newly developed technology for extreme conditions
- Gas lift underpinning significant reserves



What's Ahead

Lower price future > less capital for major new developments > maximizing value of existing assets with artificial lift and optimization



How will we adapt?



Take advantage of digitalization/data analytics



Become more sustainable operation



Build a pipeline of expertise

Thank you!

