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# Integrated Artificial Lift Excellence: Technologies, Operations, and the Digital Future

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**Integrated Artificial Lift Excellence:  
Technologies, Operations, and the Digital Future**



# Gas Lift for the Digital Era

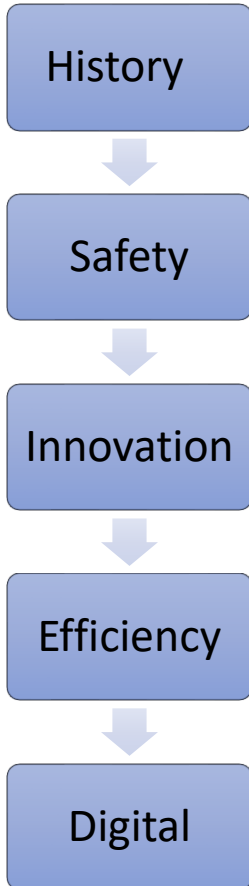
Abdel BenAmara

Silverwell





# Evolutionary Milestones in Gas Lift Technology



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**Early Beginnings (1797-1864):** Compressed air first used to lift fluids, enabling production from shallow wells

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**Safety Transition (1920s):** Natural gas replaced air injection, greatly reducing explosion risk

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**Mechanical Advancements (1930s-1940s):** Spring-operated valves enabled deeper, controlled injection — foundation of modern gas lift

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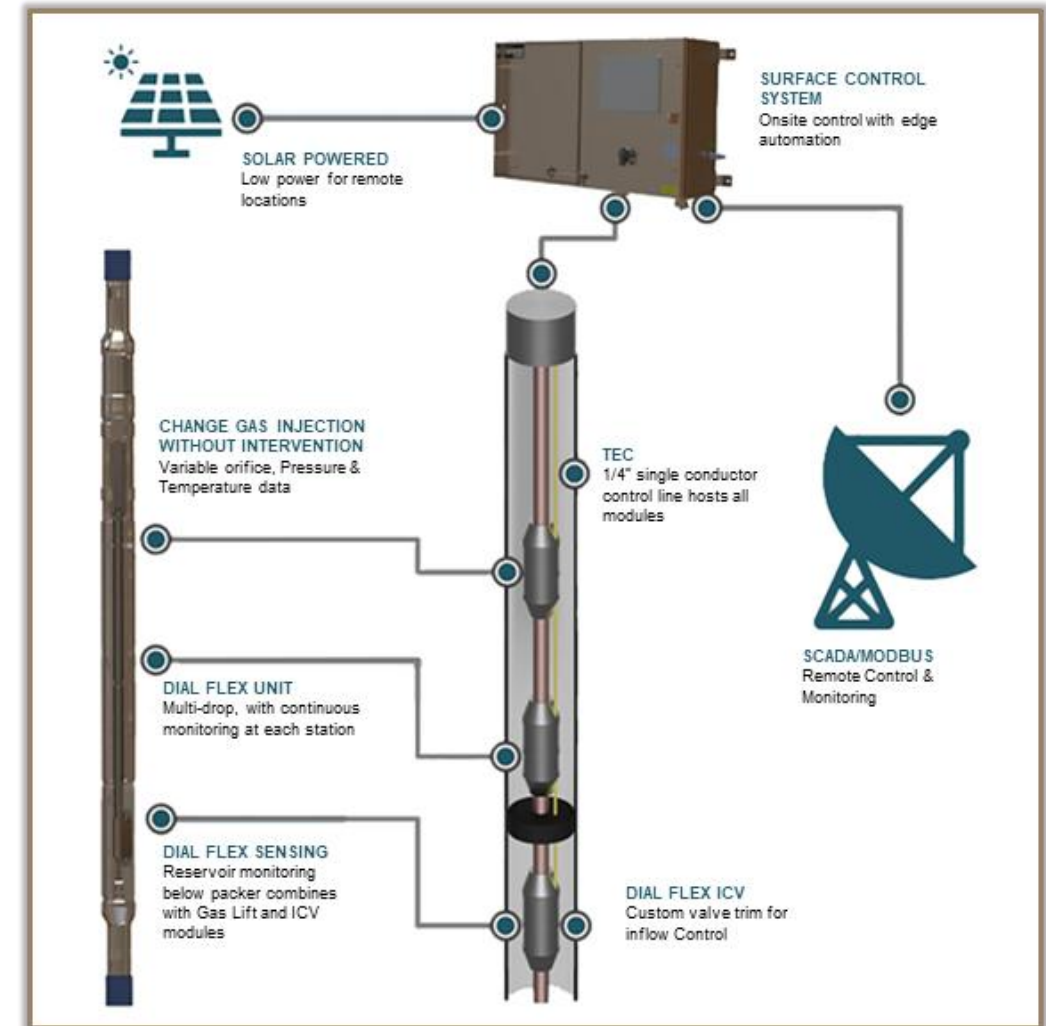
**Operational Efficiency (1950s-1990s):** Wireline-retrievable valves allowed deep injection without costly workovers.

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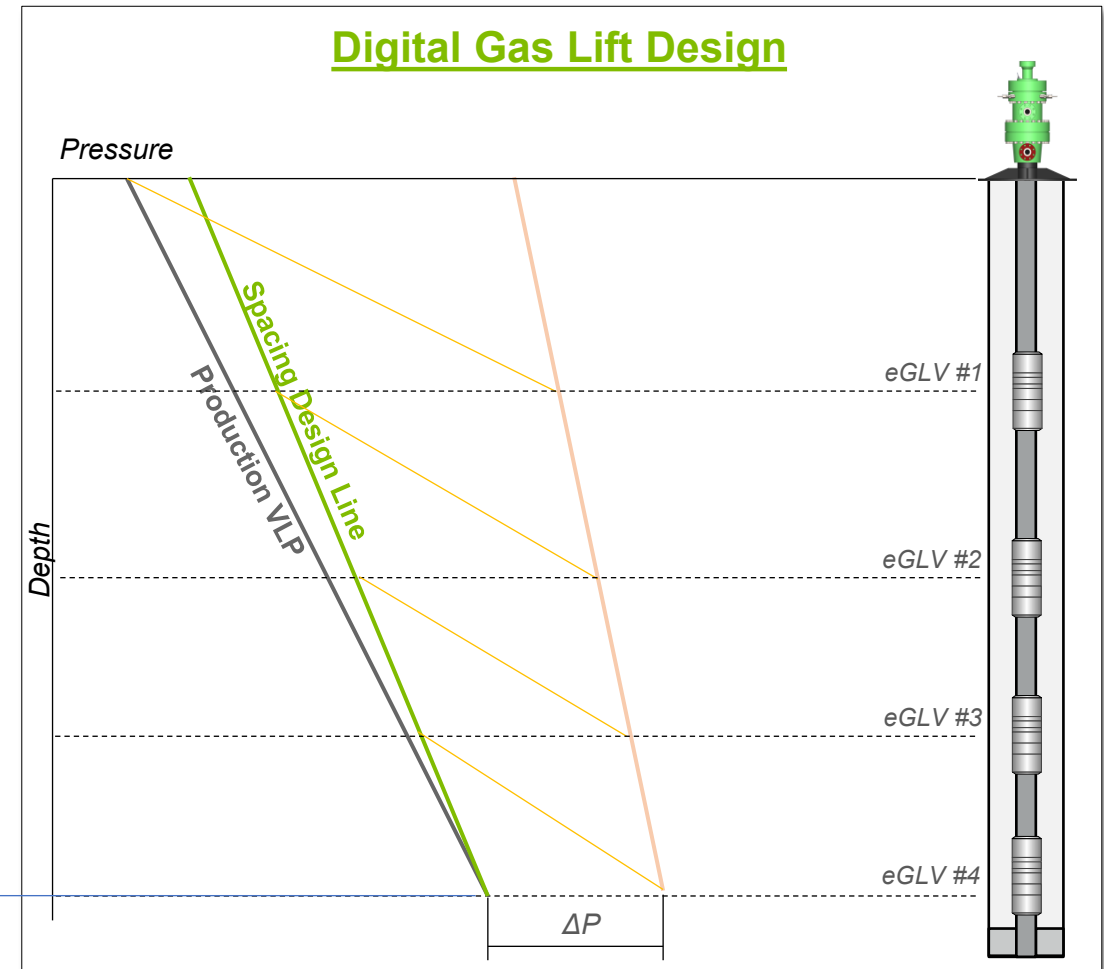
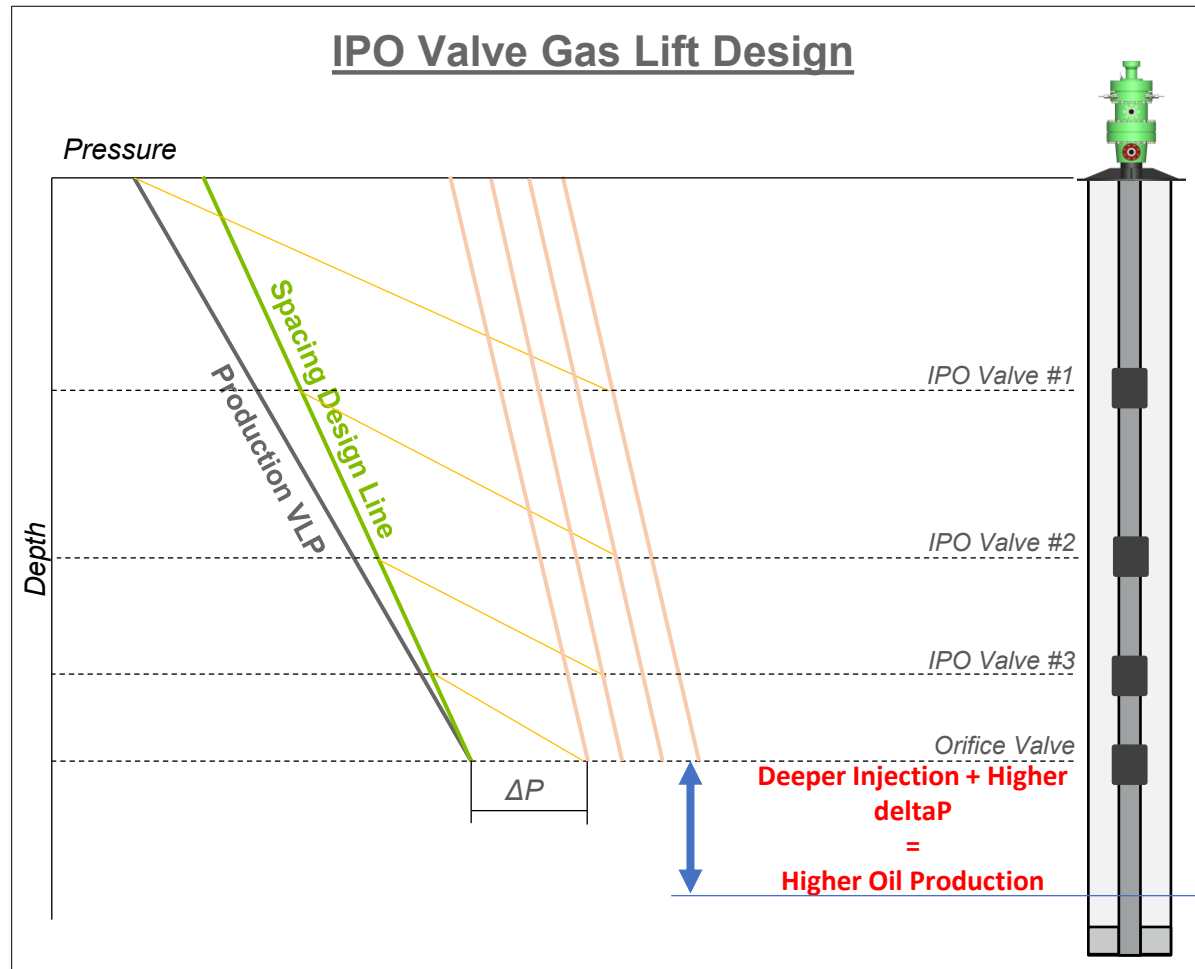
**Digitalization and Smart Technology (1990s-Present):** Smart automation gas lift systems deliver remote monitoring and optimized production

# Pioneering Digital Gas lift

Features	Benefits
<ul style="list-style-type: none"> <li>• Variable orifice size at any depth</li> <li>• Deeper injection</li> <li>• No deviation limitation</li> <li>• No well intervention</li> <li>• Pressure and temperature data</li> <li>• Remote monitoring and control</li> <li>• Intelligent field-wide management</li> </ul>	<ul style="list-style-type: none"> <li>Eliminate intervention</li> <li>Reduce OPEX</li> <li>Mitigate instabilities</li> <li>Enhance recoveries</li> <li>Optimize production</li> <li>Reduce HSE risk</li> </ul>



# Increased Production through Deeper Injection



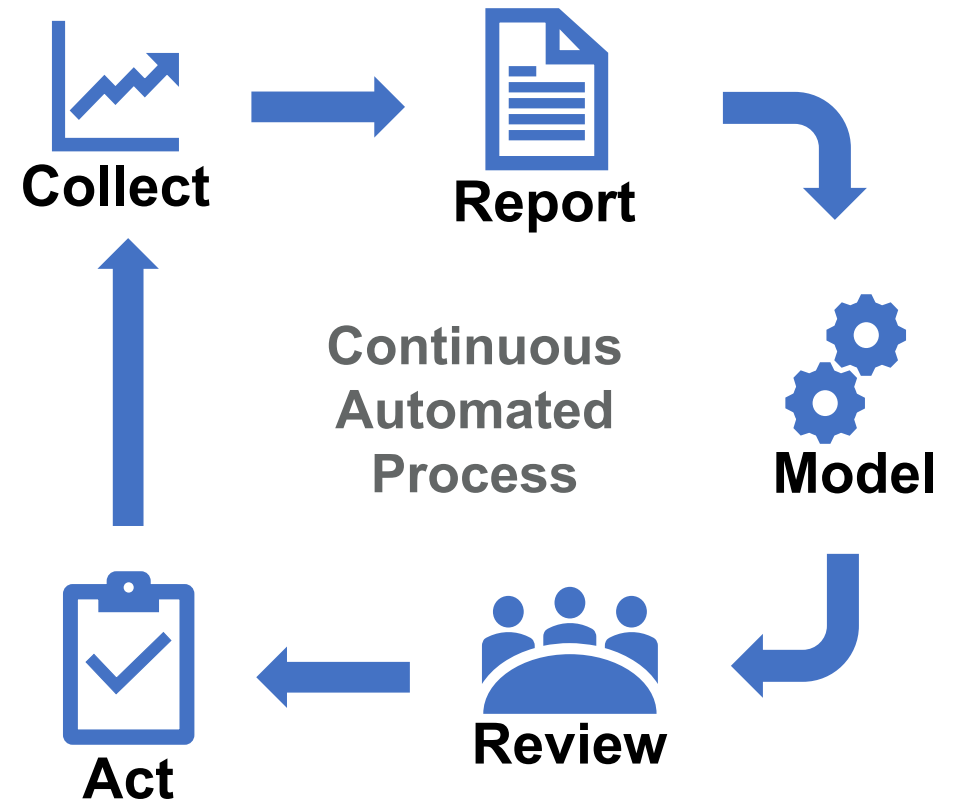


# Reducing OPEX & Preventing Production Deferralment

## Gas Lifted Well Optimization Process

- Identify issues & short list optimization candidate
- Further investigation through FBHP/SBHP studies
- Schedule intervention
- Execute the intervention
- Well test to obtain production data
- Run modelling using data from well test
- Repeat optimization cycle

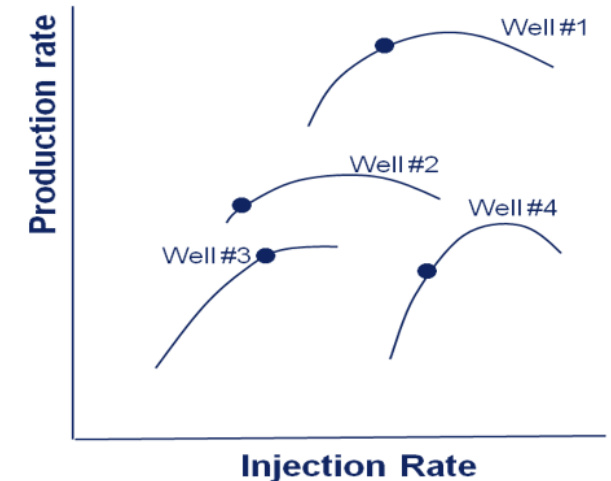
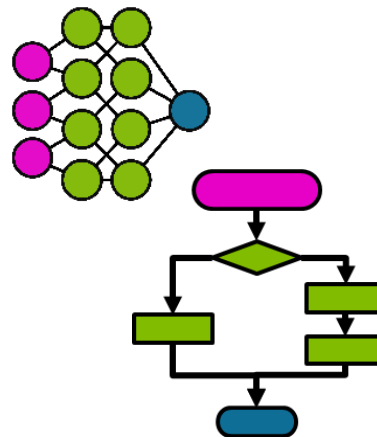
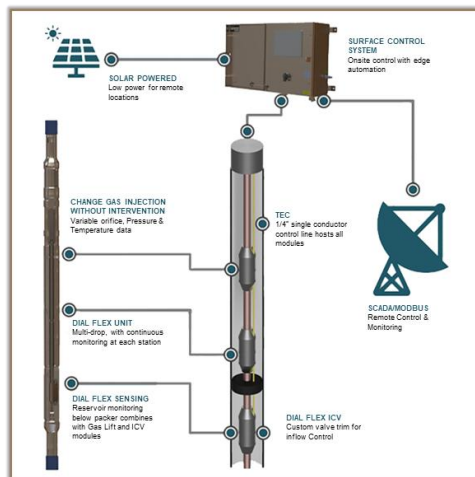
Total Gas Lift Optimization Cycle used to take **Weeks to Months** has been **Reduced to Minutes** using Digital Gas Lift



# Automation, AI and Optimization

A fully autonomous Gas Lift Production optimization system can offer:

- Automated well unloading and production optimization.
- Drawdown control and water cut management.
- Mitigation of injection pressure instabilities.
- Gas metering at depth.
- Ability to build robust Machine Learning (ML) models faster.
- Feed data hungry AI systems with unique well & field specific training sets earlier in the field life cycle.
- Optimize with less overhead.



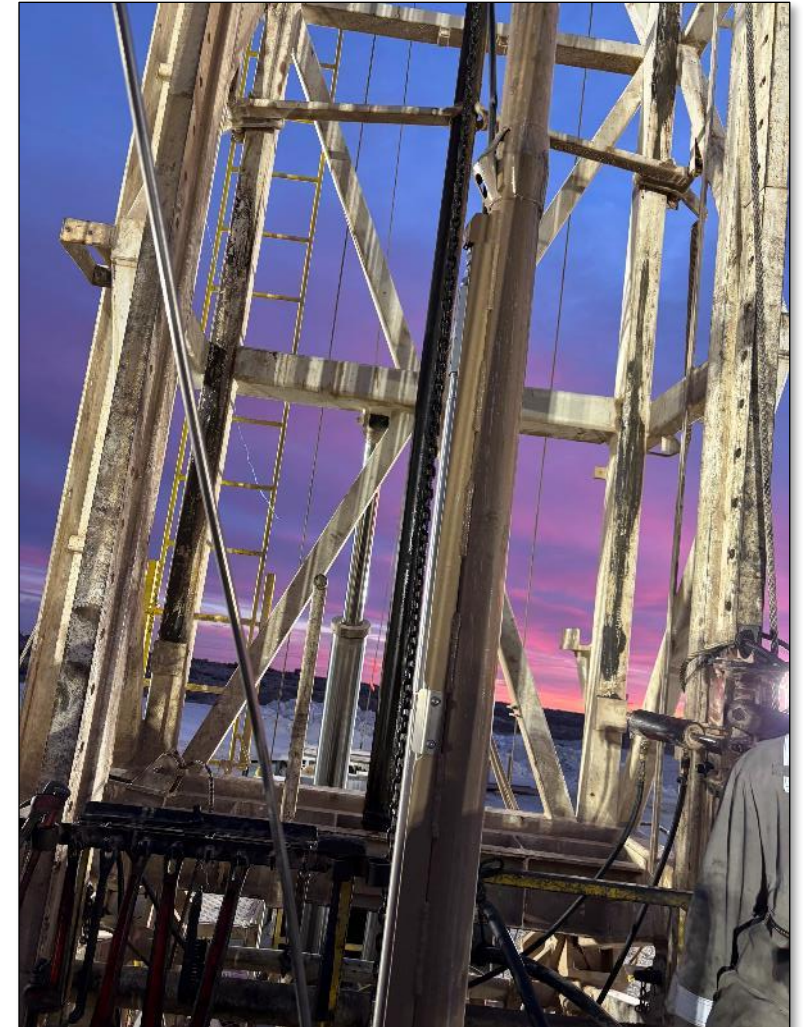


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# Case Story Unconventional Wells USA

- Systems installed in US Permian basin **since 2018**
- Production **uplift** ranging from **16-30%**
- Well **downtime reduced by 26-45%**
- Fully **autonomous well**. Automated production optimization without human intervention





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**Thank you**