

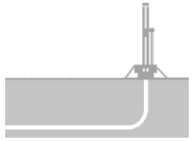
Next Generation Dissolvable Technology



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Frac Plugs Operations Challenges



Lateral Length

Coiled tubing reach is limited. Mill-out stump accumulation towards bottom stages. Large coiled tubing units may not access all the well sites.



Reliability

The addition of coiled tubing increases the operational risk and occurrence of loss time. Common issues include stuck parts, buckling and lock-up.



Economics

Cost associated with coiled tubing service can amount to \$1.7M for a 6-well pad. Lost production opportunity due to mill-out > \$1.5M.



Current Designs

Composite plugs require mill-out. Dissolvable designs are long and take time to dissolve. They have a relatively small bore and can restrict flowback.

Next Generation Dissolvable Frac Plug

We are creating the next generation dissolvable frac plug with a focus on:

- Reliability

 - Performance of all functions all the time

- Predictability

 - Precise and fast dissolution timing, predictable operations

- Economics

 - Reduced cost of operations, sensible pricing

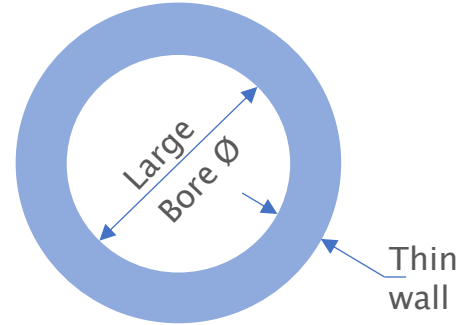
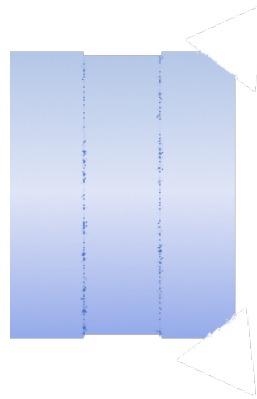


Eliminate Coil Tubing Mill-out (and Clean-out in certain instances)

Displace composite plugs, run dissolvable plugs only

Less Material, Large Bore

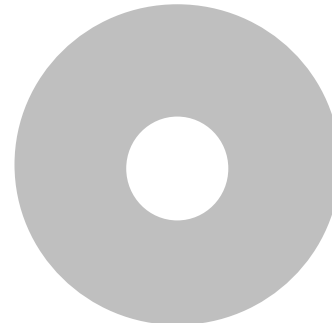
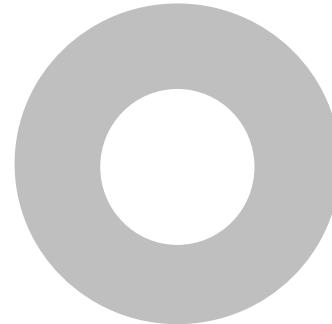
Solgix
Extremis



Short – 3.4” Long



Leading Dissolvable Plug #1



Comparison with equal
proportions for 5.5”
casing plugs



Leading Dissolvable Plug #2

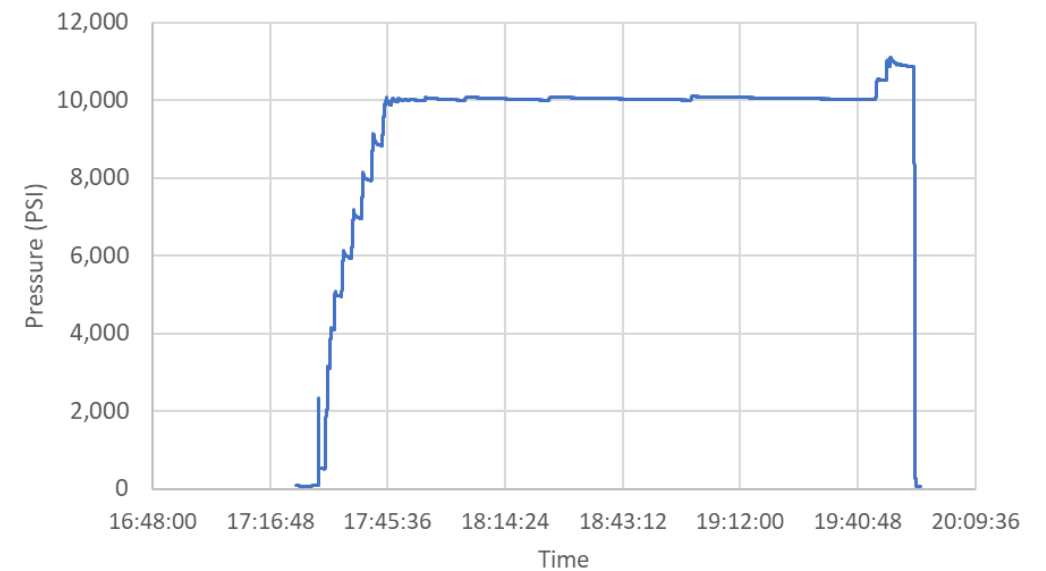
Robust and Tested

Large overlap (ball OD to bore) allows durable seal integrity

Metal-metal seal can withstand re-seating

10,000 PSI tested no leak

Uses standard setting tool and procedure

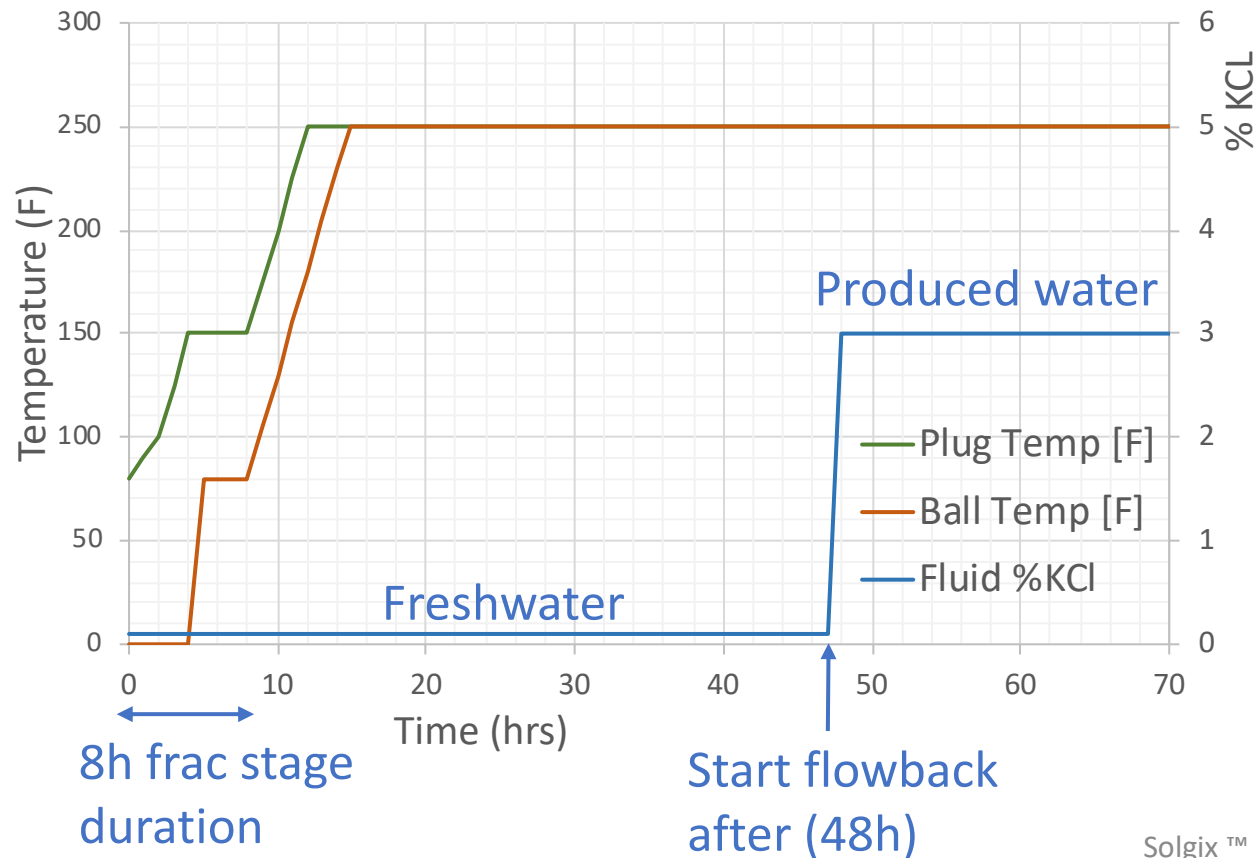


10,000 PSI test in water with a 2-hour hold – no leak

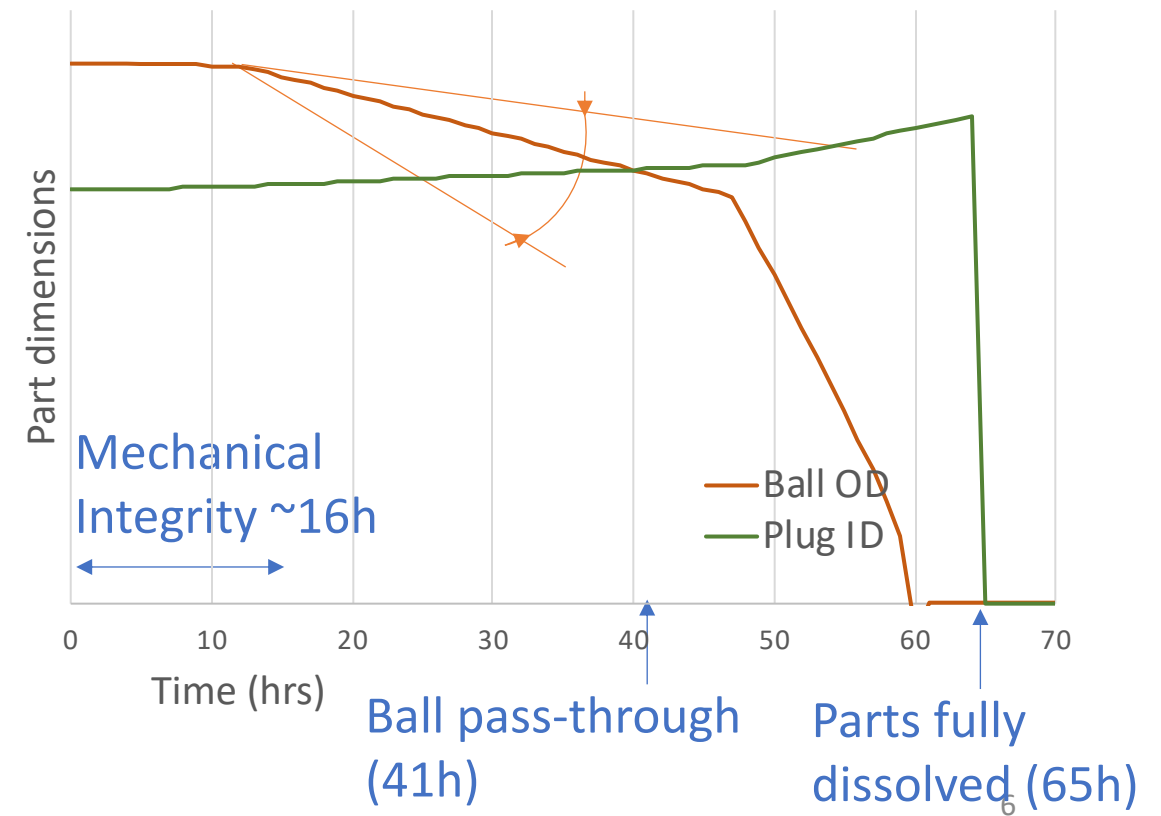
Predictable, Tailored Dissolution

Exposure of Dissolvable parts

Ex. Job Profile: 250F BHT, 80F Surface Water Temp, 8h stage duration

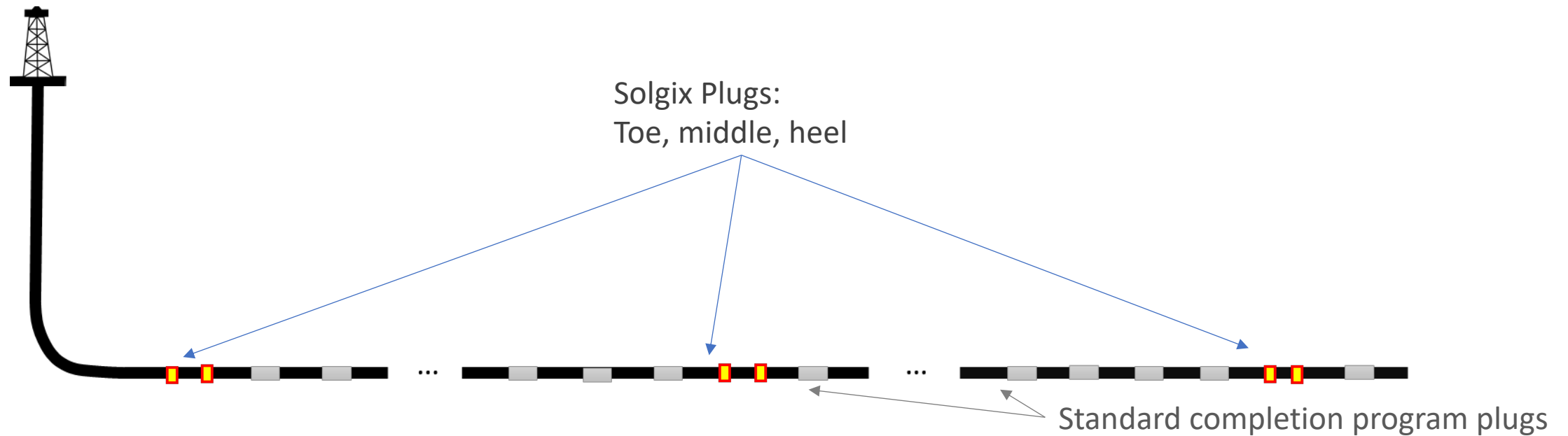


Key Parts Dissolving Behavior in Example job profile



Pilot Testing

Looking to partner with innovation driven customers
2 to 3 wells, 3 to 6 plugs/well



The Team

Background in O&G E&P
Service Companies

Sylvain, CEO



Technology and product
development

Greg, CTO



Field deployment and market
introduction

Question?

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