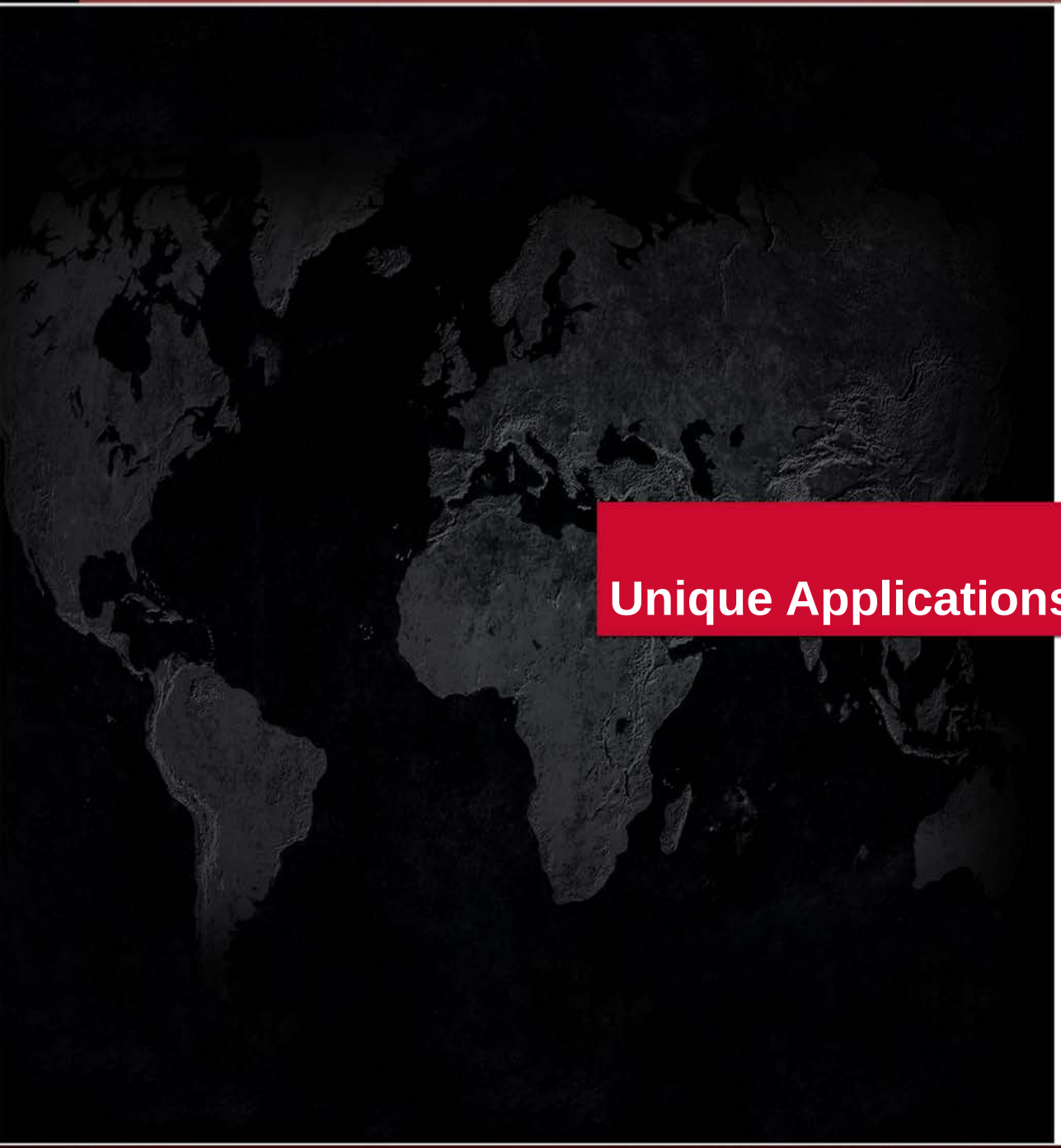
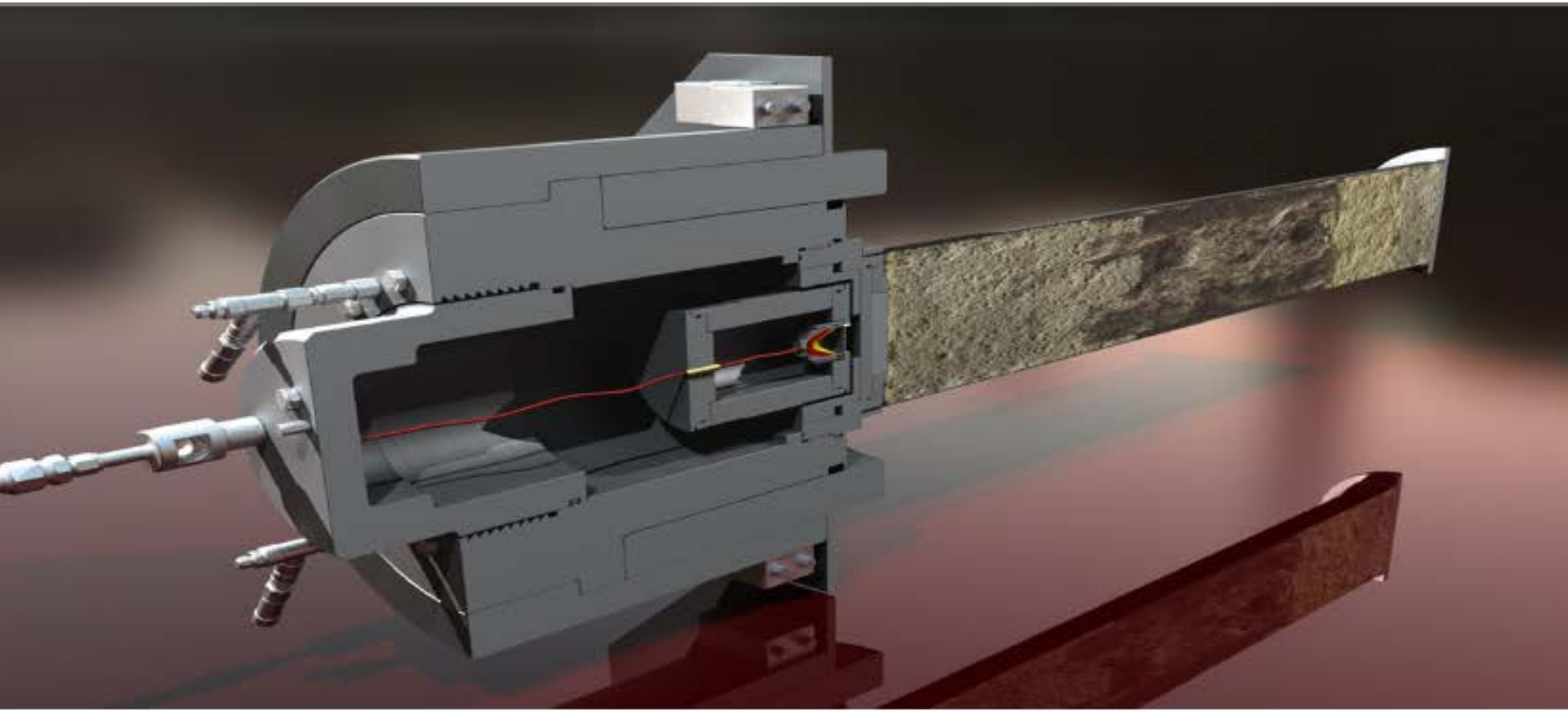


Unique Applications - Section IV

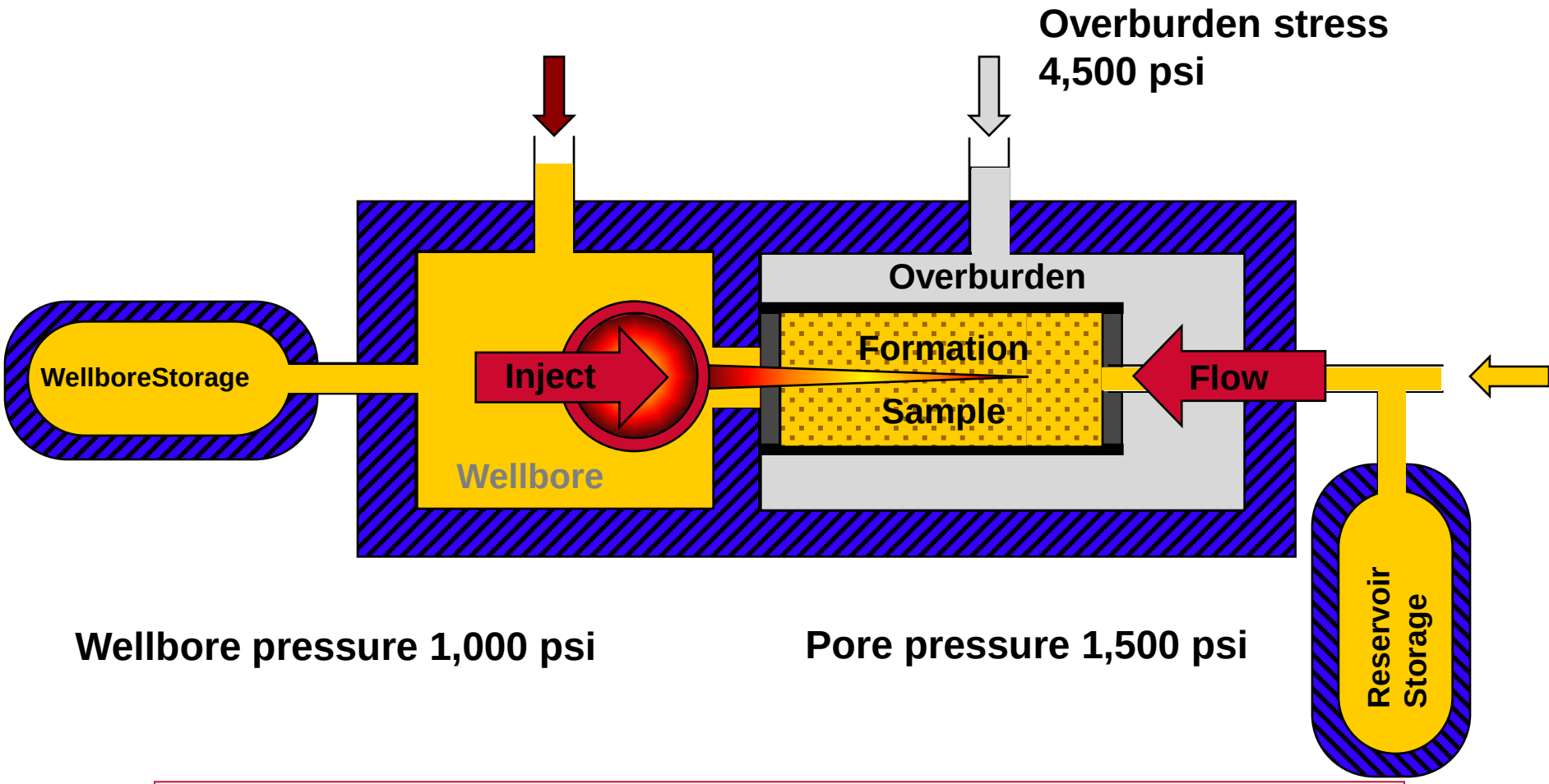
Darren Barlow
Regional Technical Manager

HALLIBURTON

Basics of Section IV

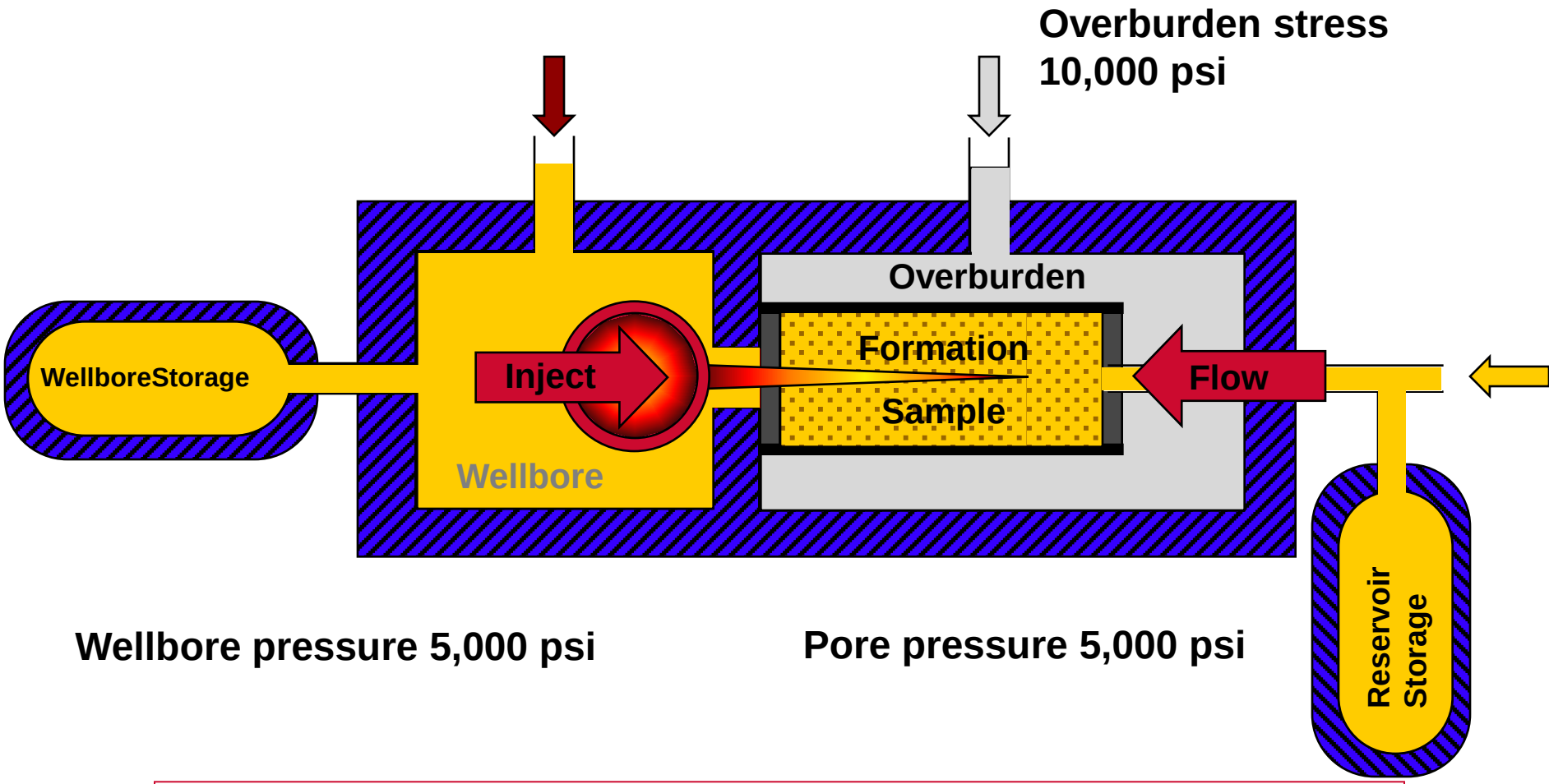


Perforation Flow Laboratory Schematic



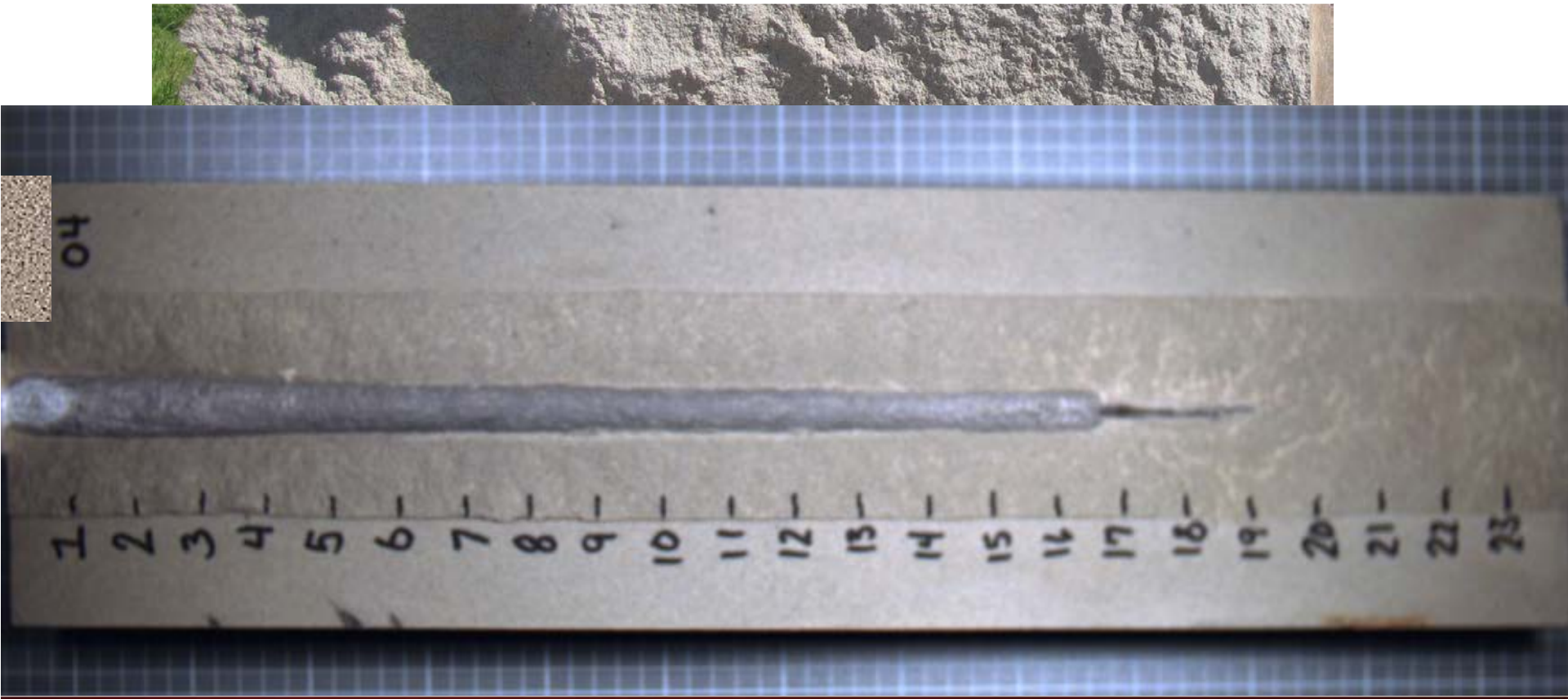
Net Effective Stress = Overburden – Pore Pressure

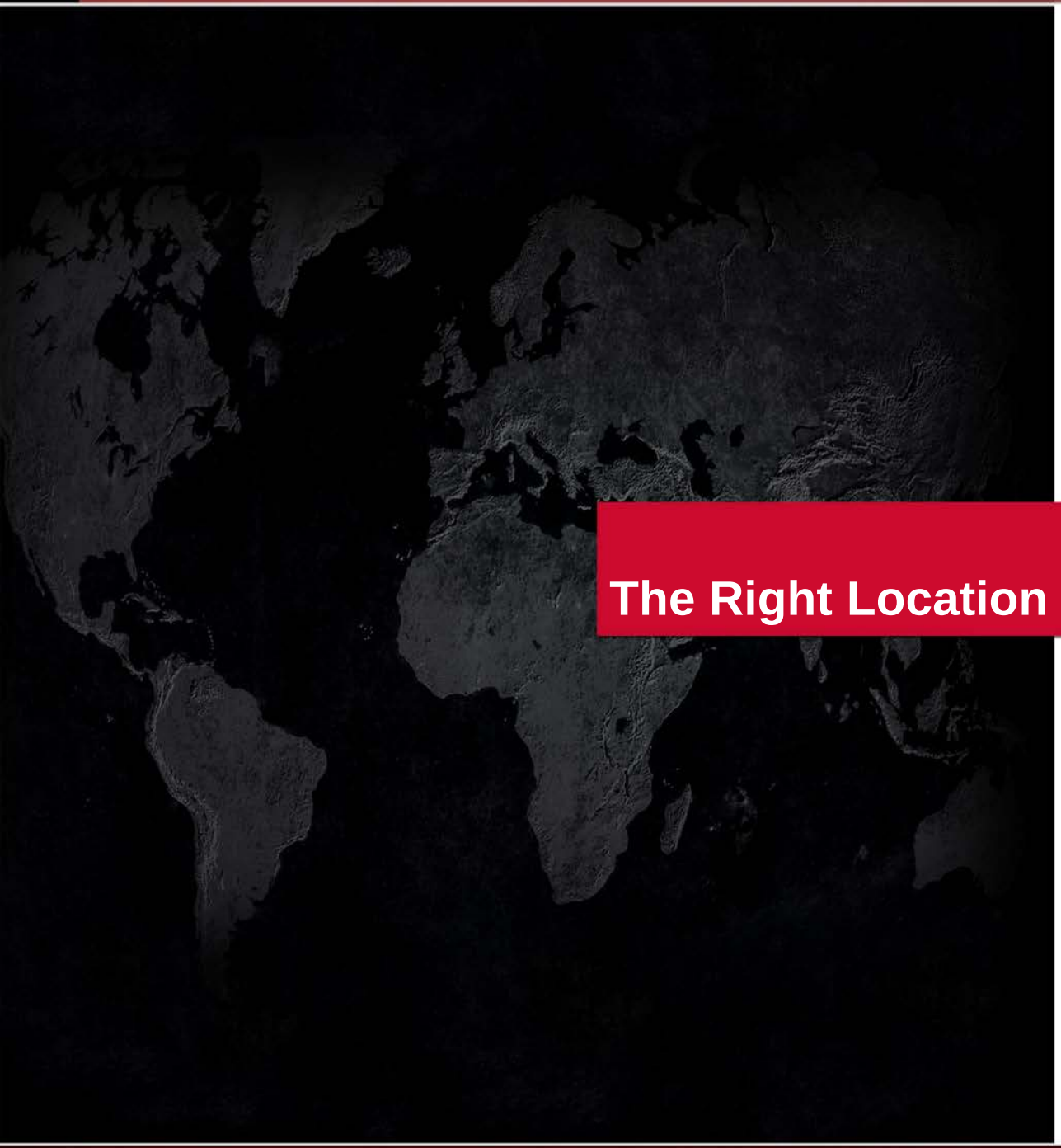
Perforation Flow Laboratory Schematic



Net Effective Stress = Overburden – Pore Pressure

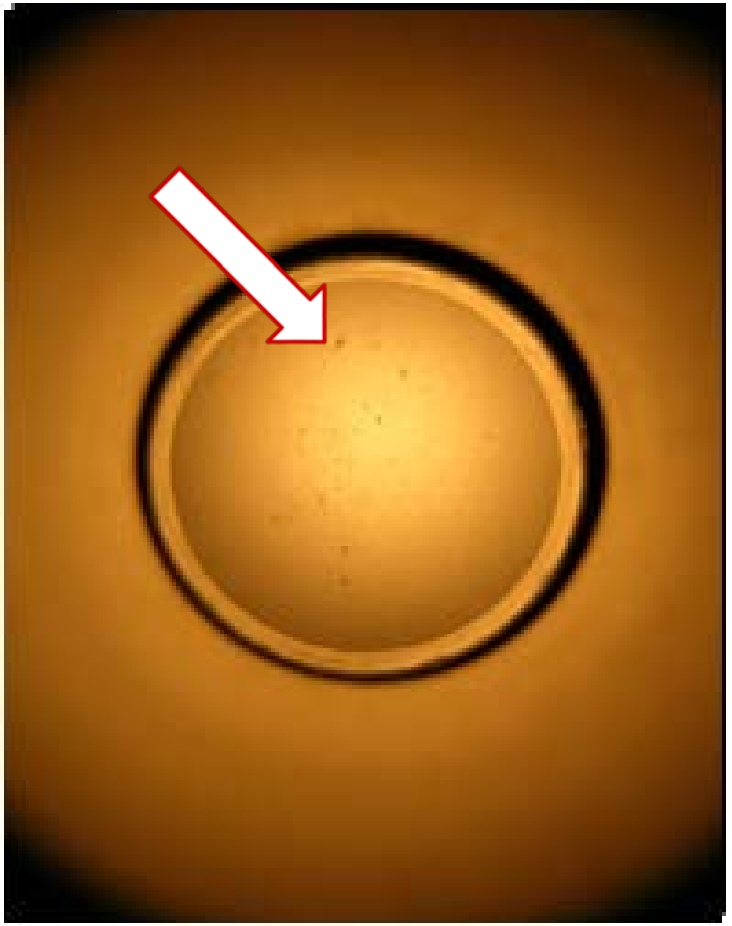
Cement Data Vs. Section IV



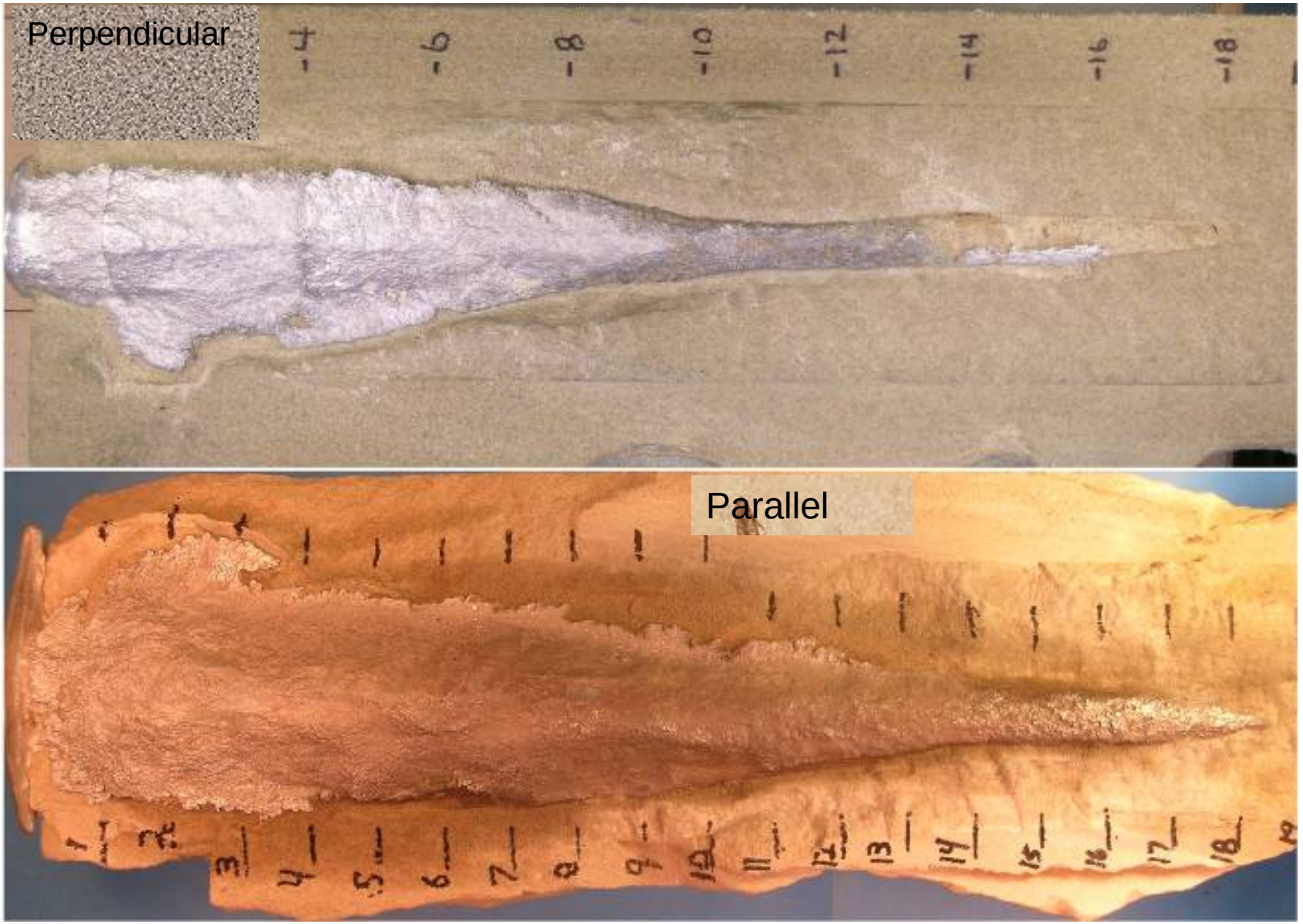


The Right Location

Location



Sanding Production



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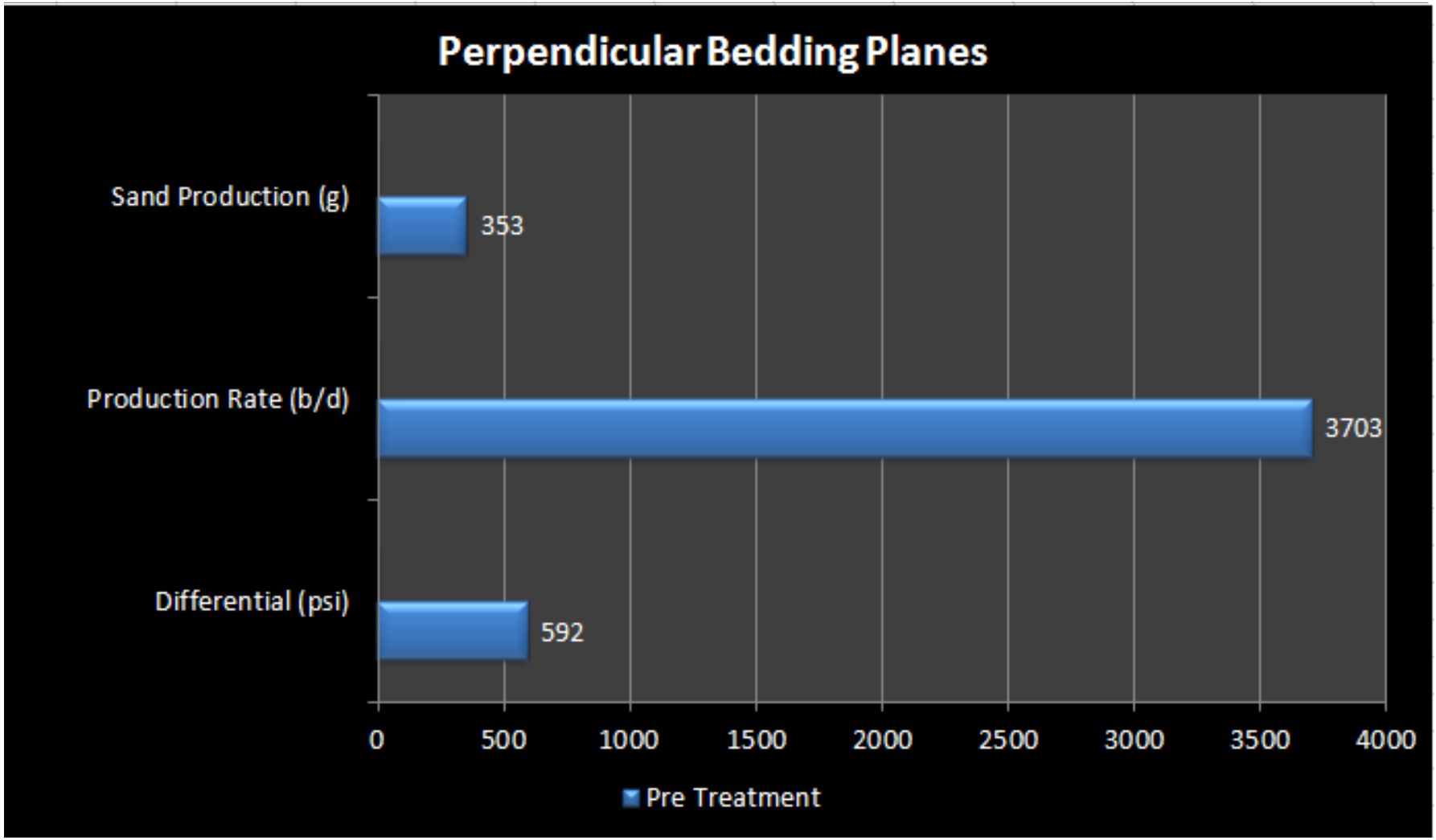
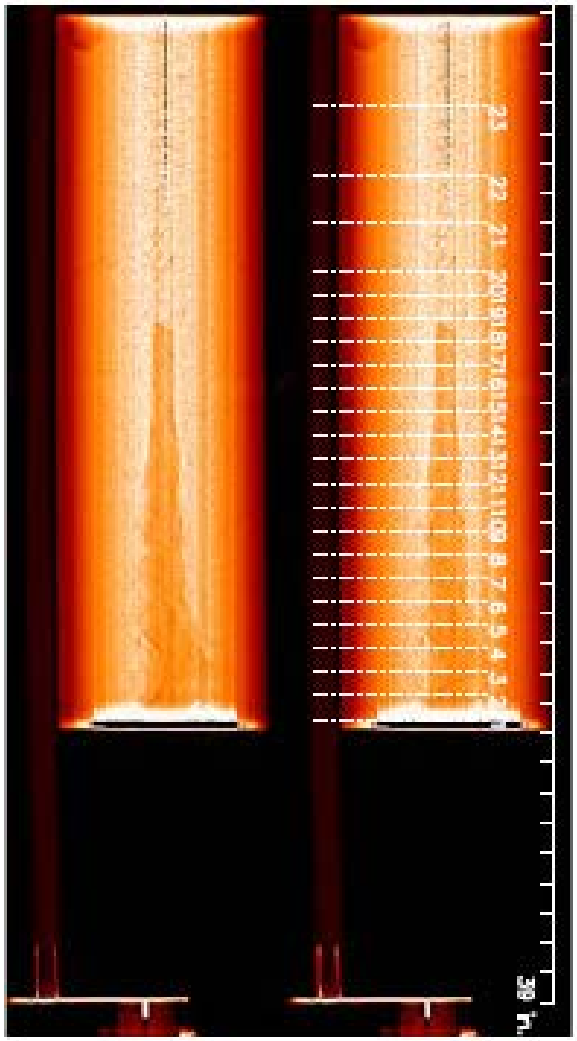
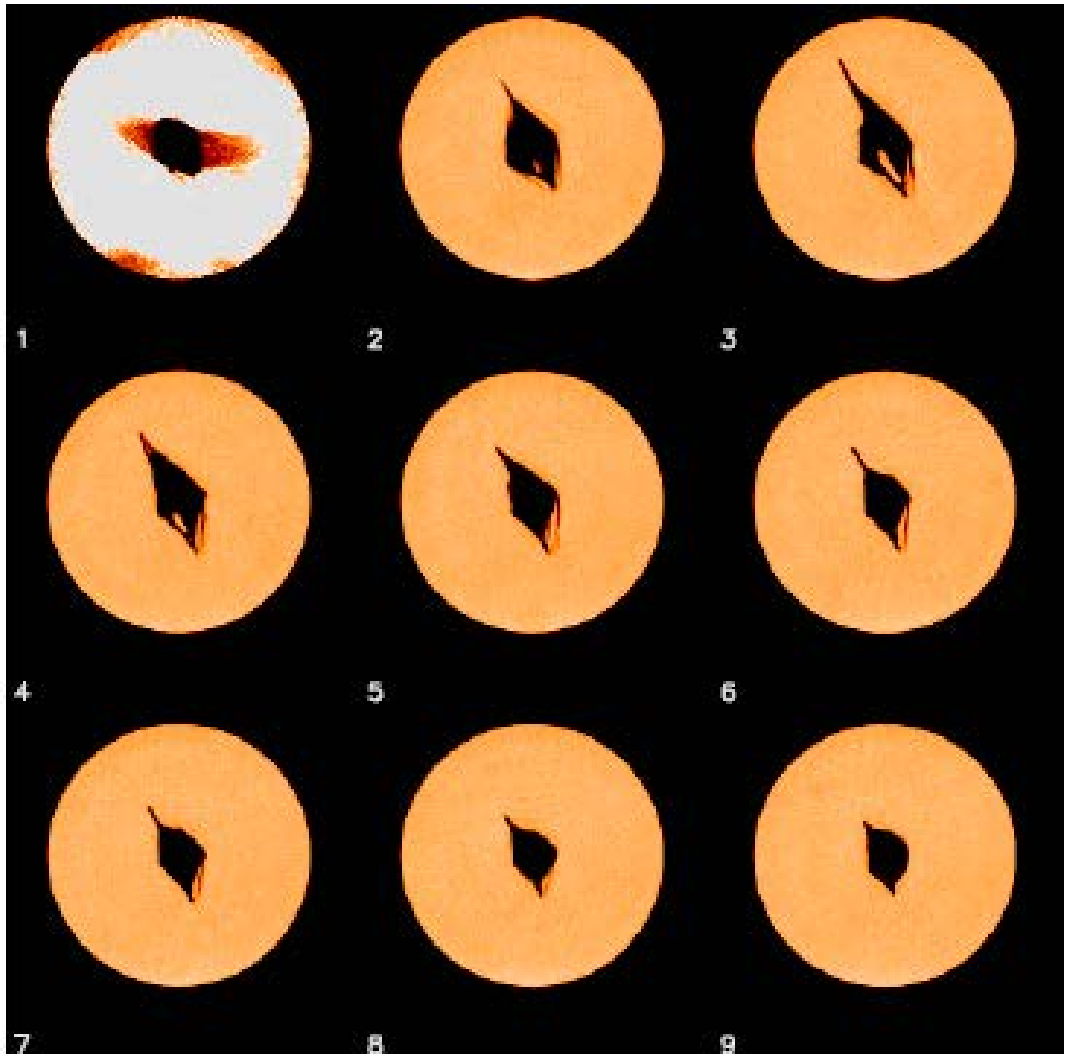


Erosion of the Perforation





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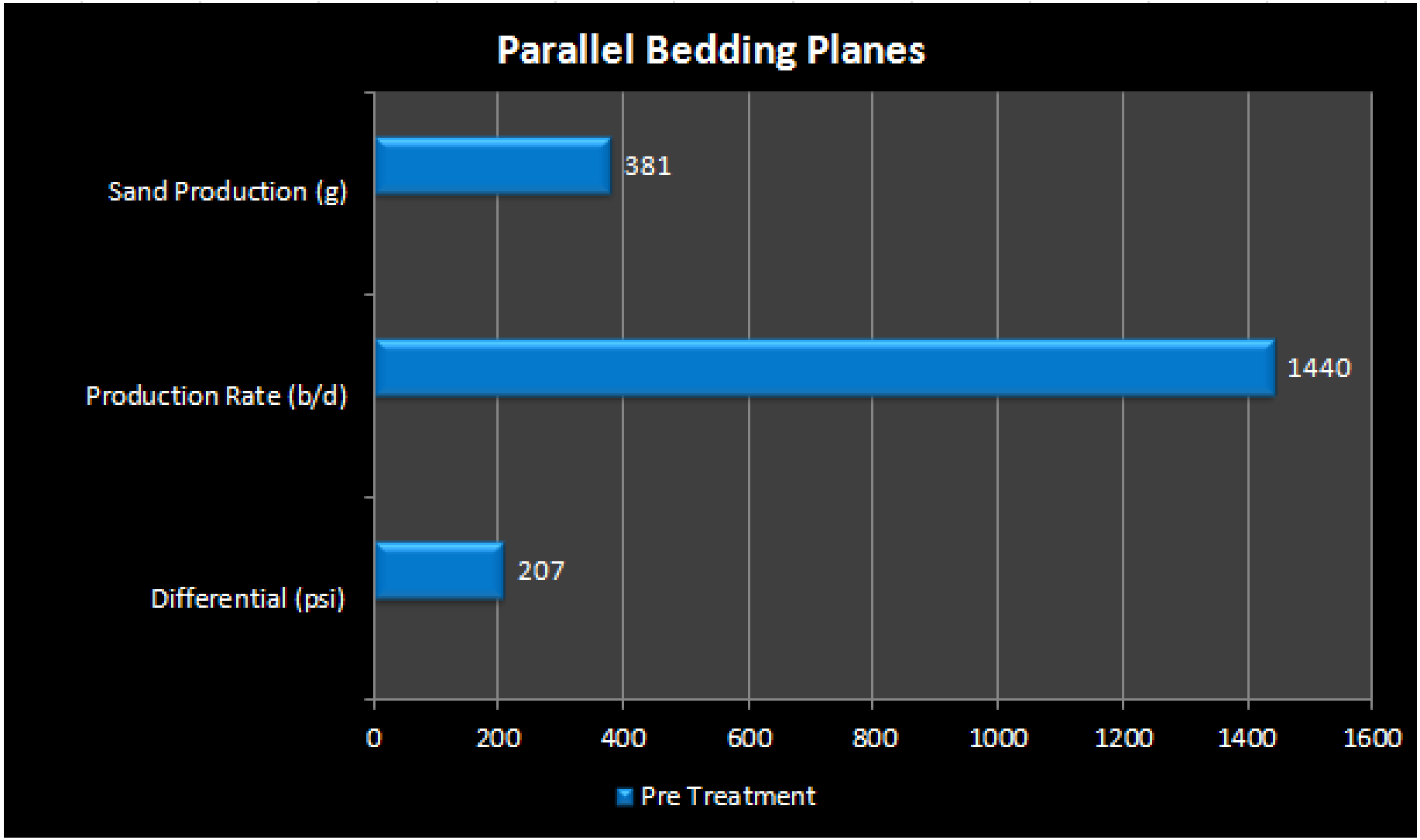
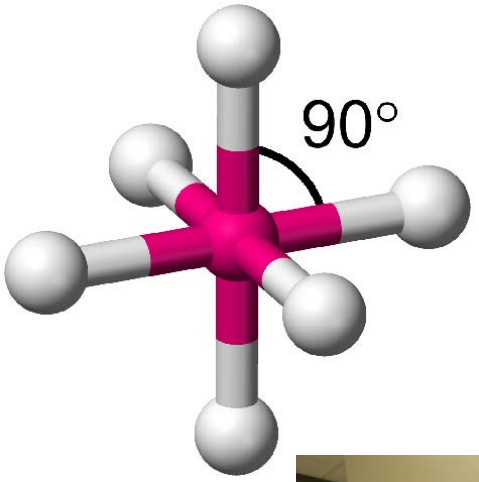
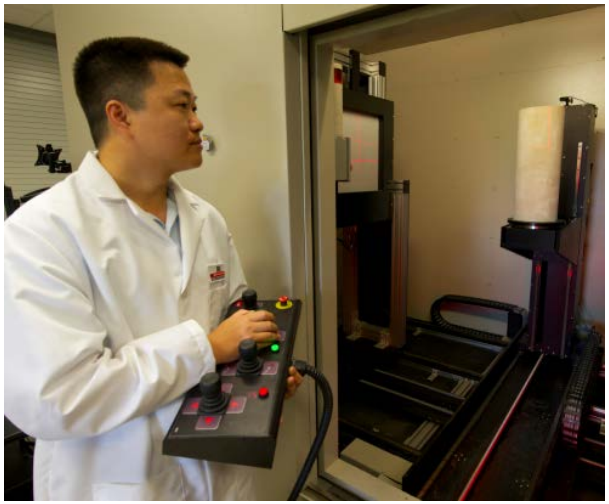
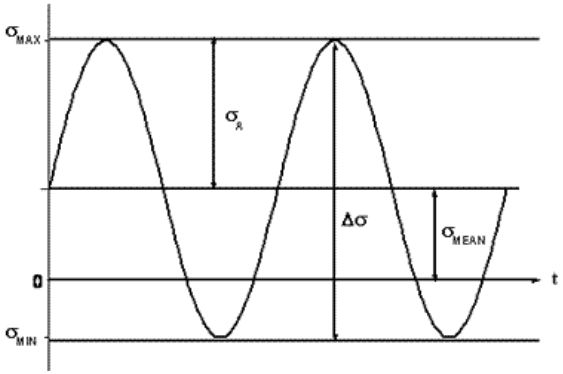
Sanding Production



Matching the Reservoir



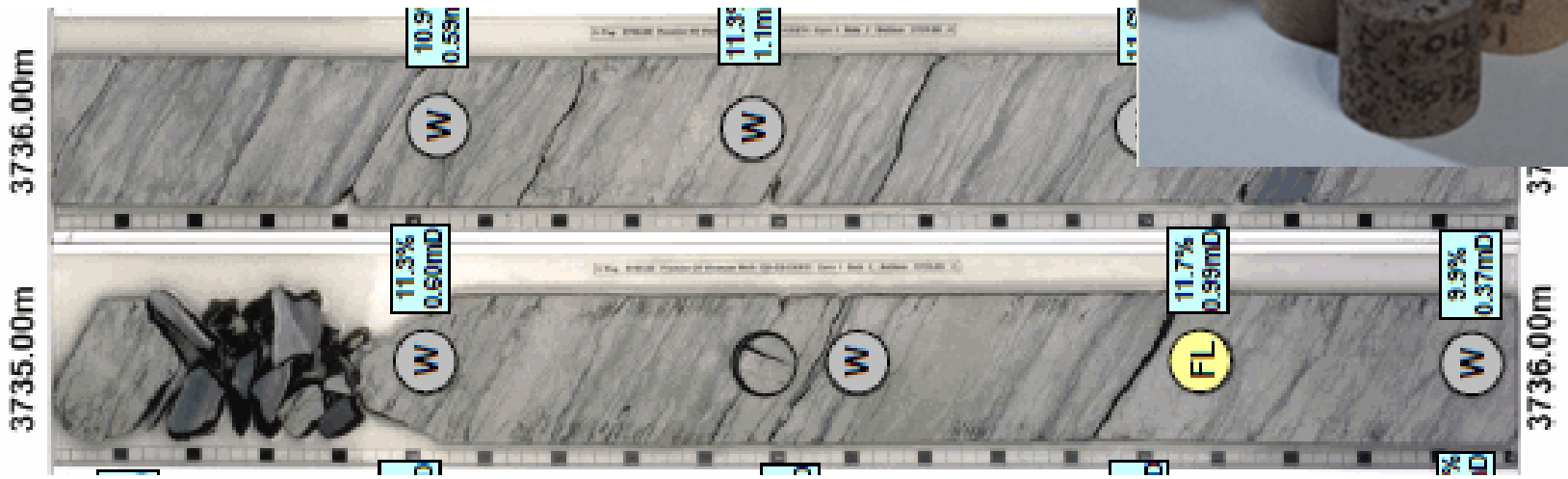




Kill Weight Fluid Analysis

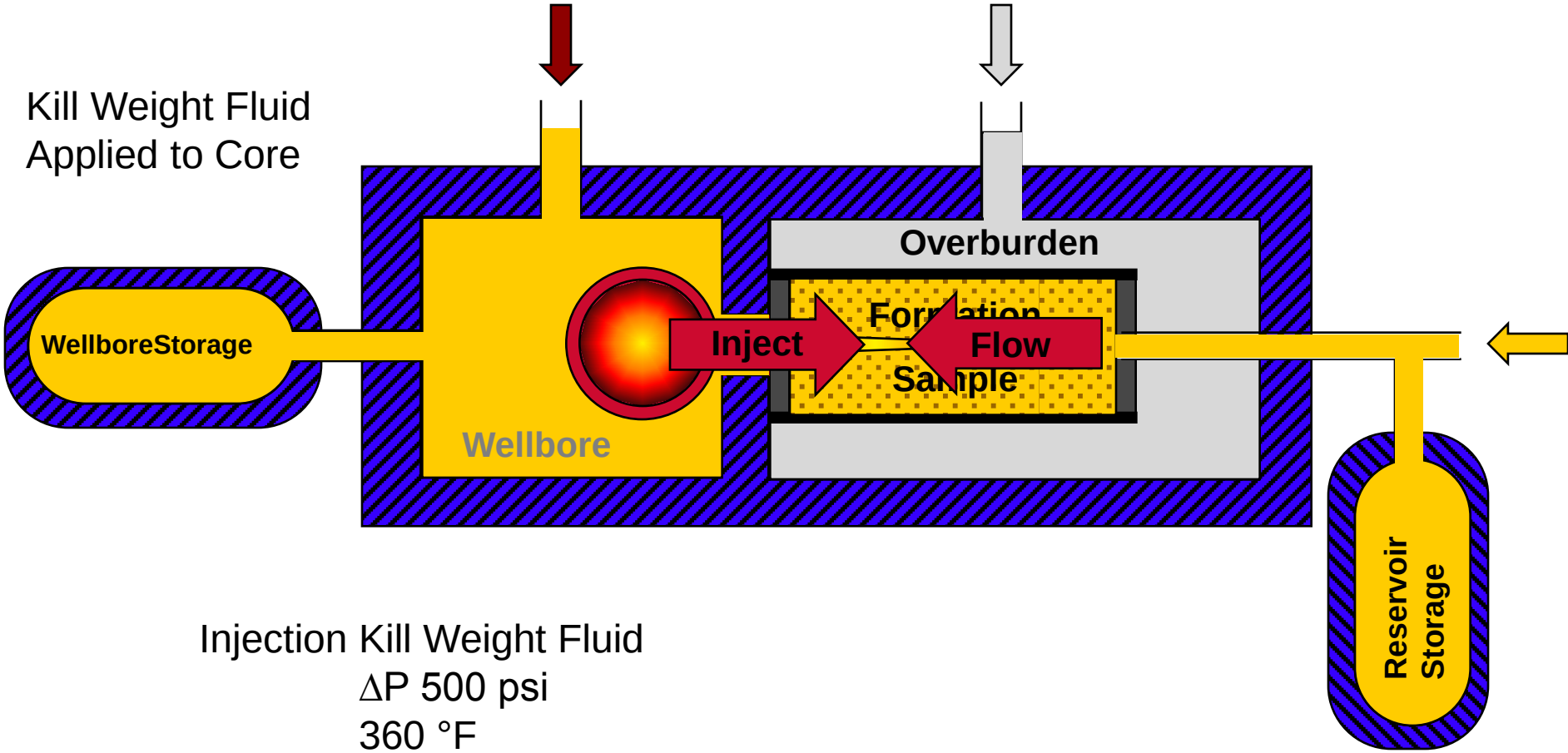
Limitation of Permeability testing

- Core Analysis
- High Grading
- Full core Analysis



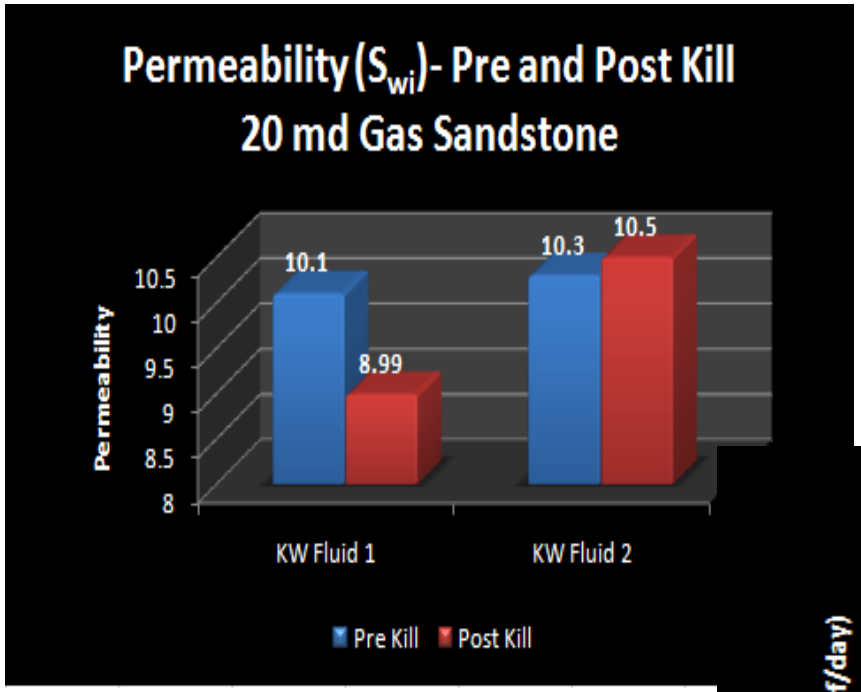
Kill Weight Selection – Return Permeability Analysis

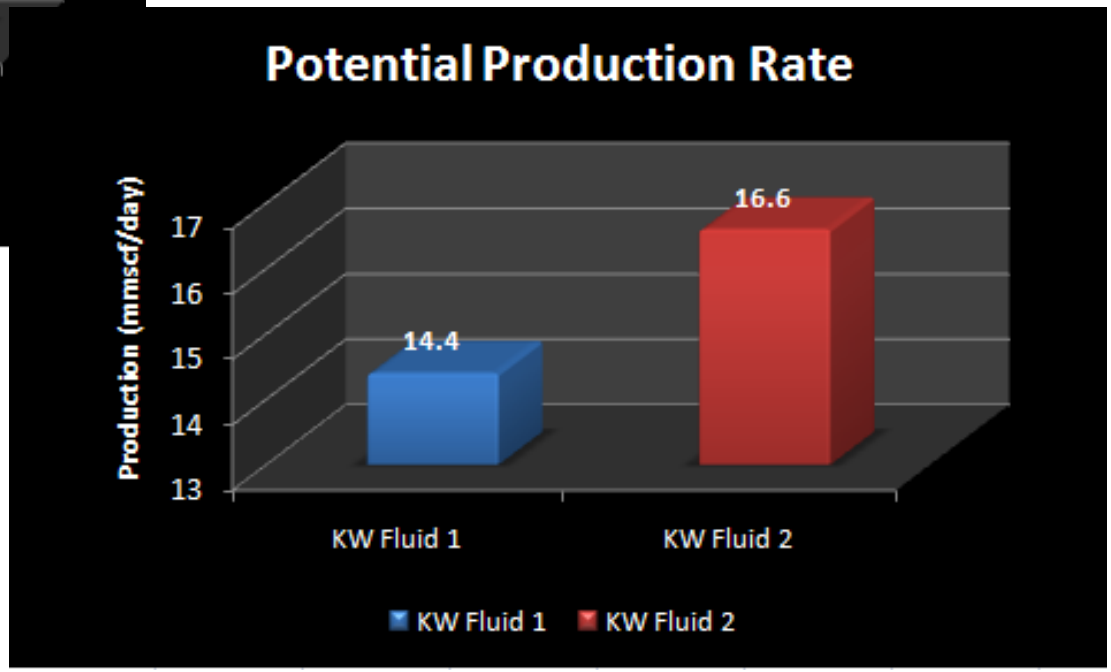
Kill Weight Fluid
Applied to Core



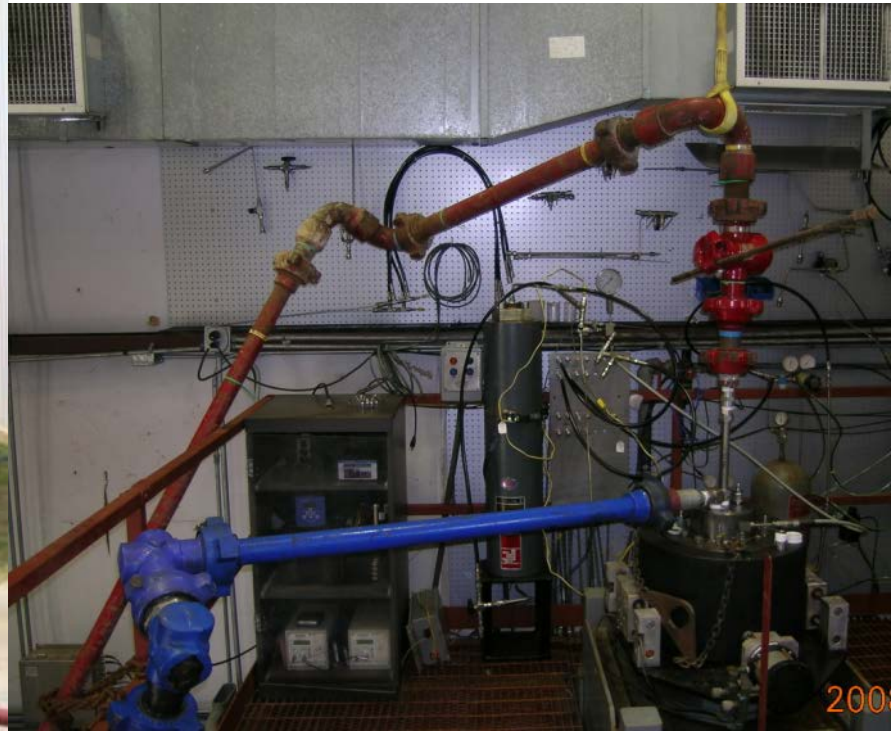
Injection Kill Weight Fluid
- ΔP 500 psi
- 360 °F
- 7 Days with Periodic Circulation

Return Permeability Testing

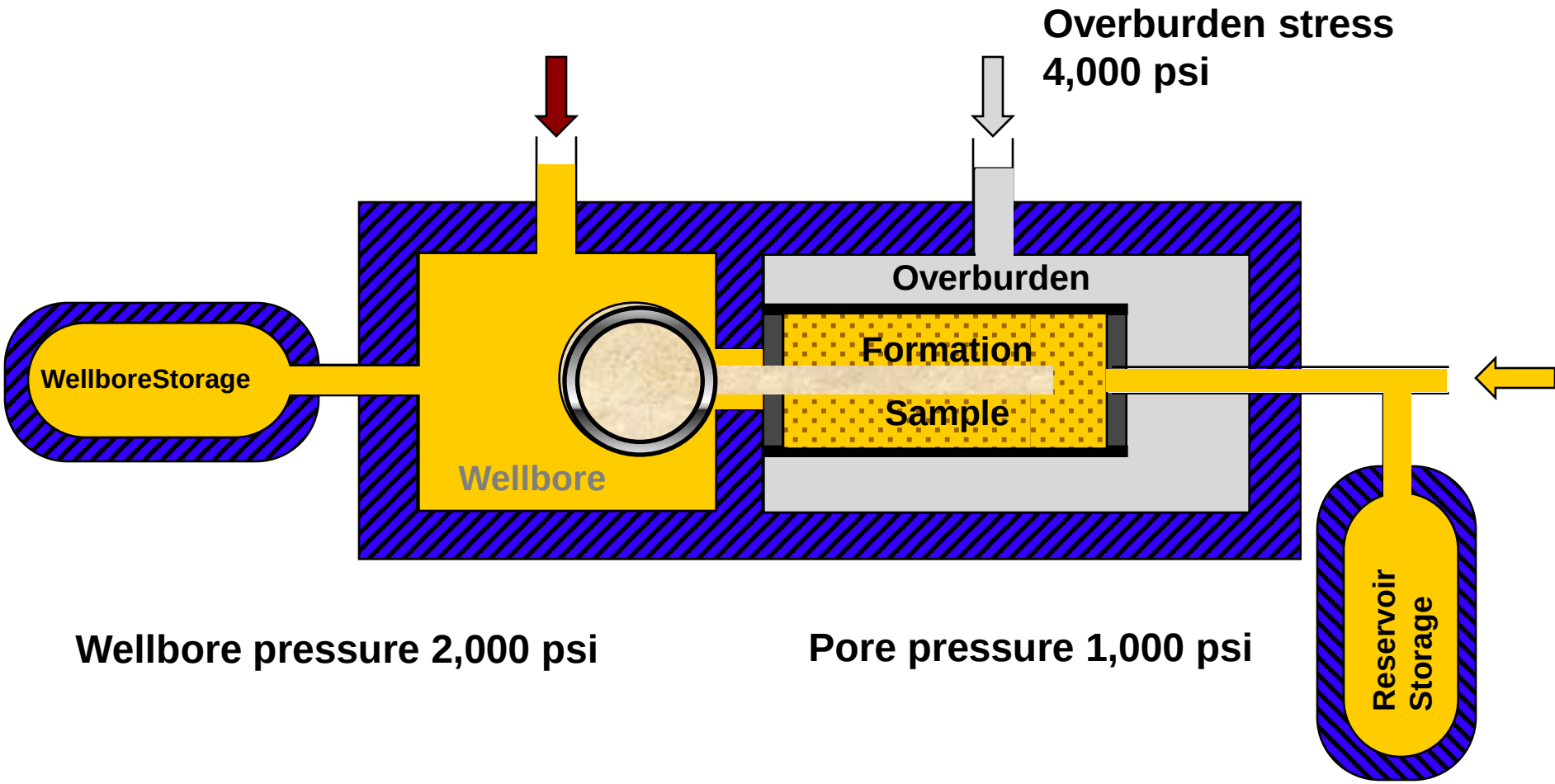




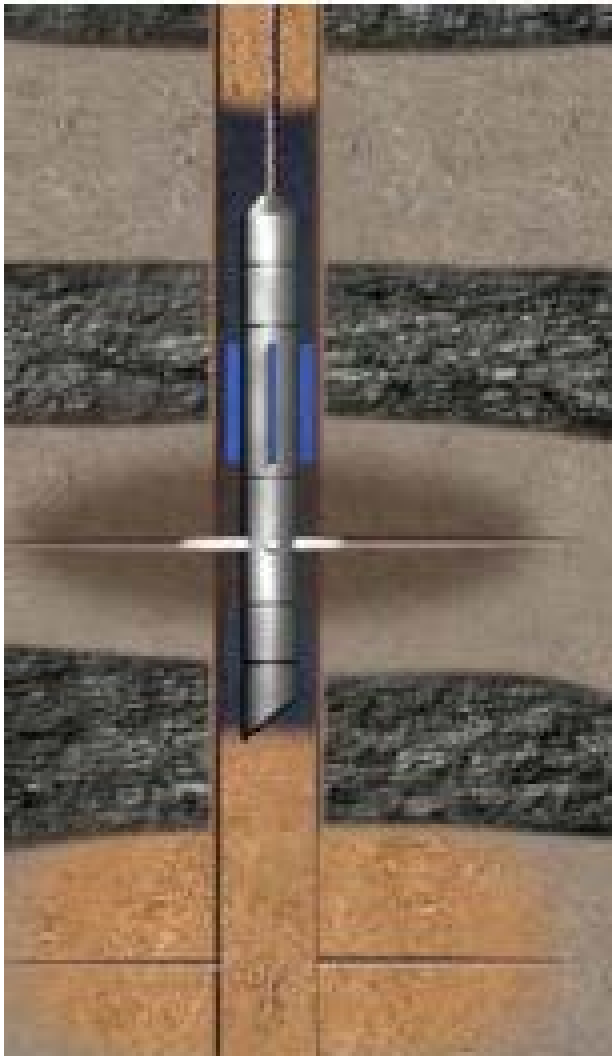
Jetting



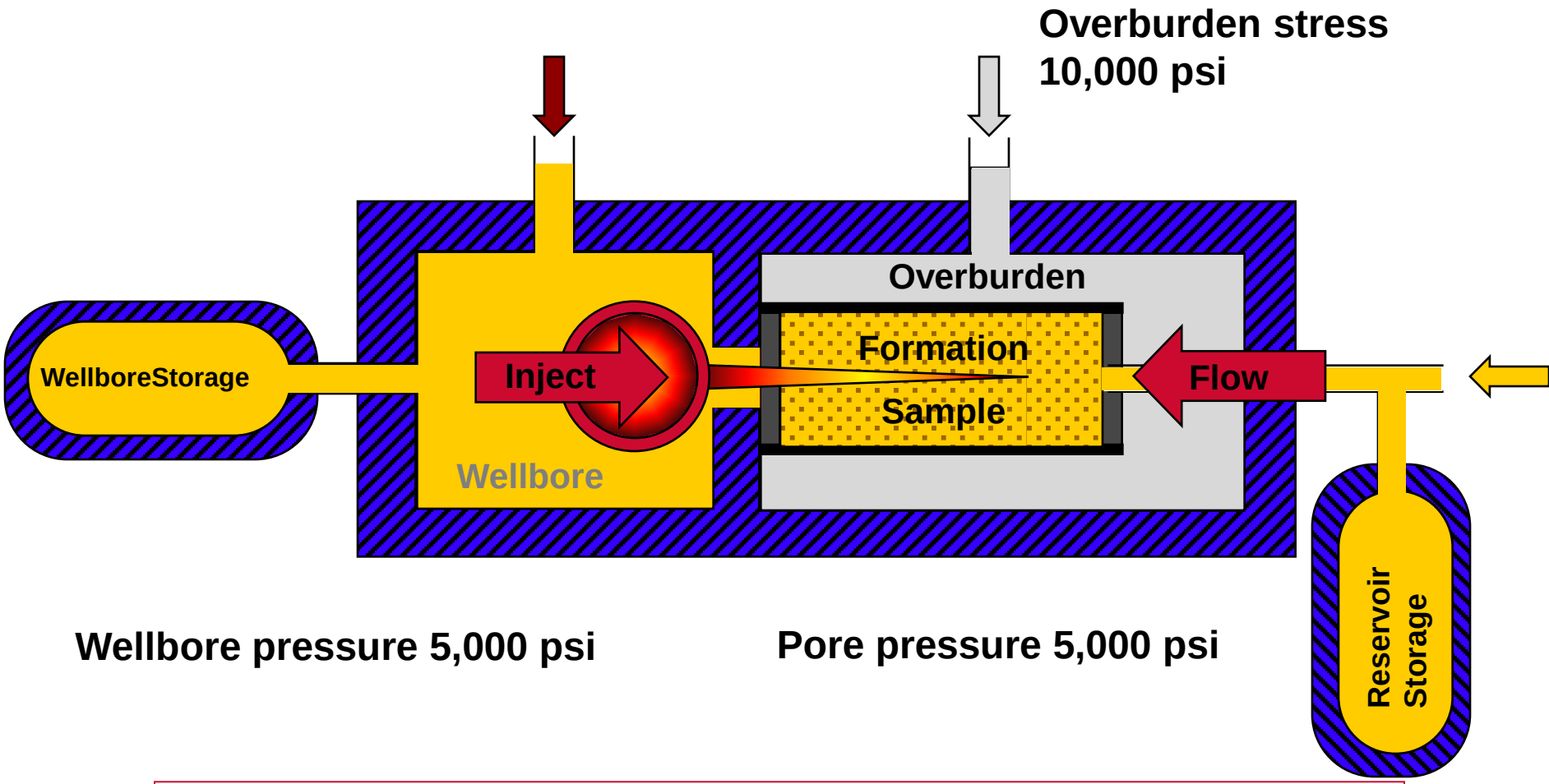
Perforation Flow Laboratory Schematic



The effects of Jet Perforating on Coil



Perforation Flow Laboratory Schematic



Net Effective Stress = Overburden – Pore Pressure

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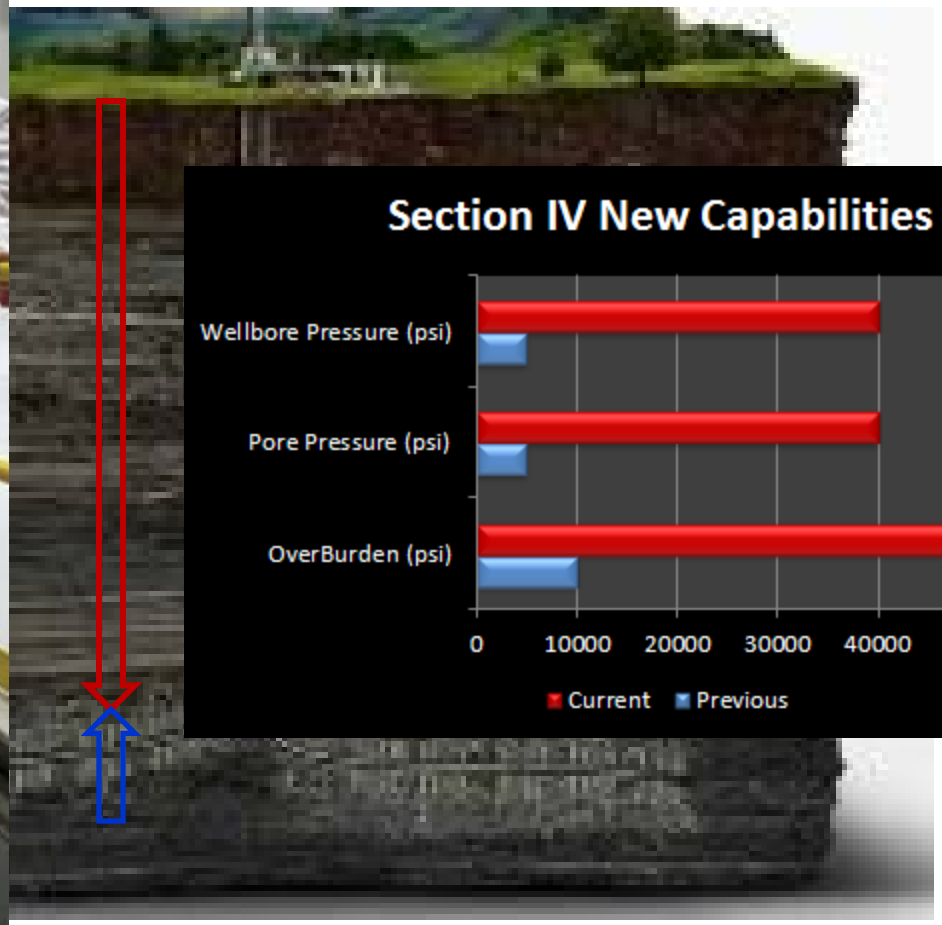

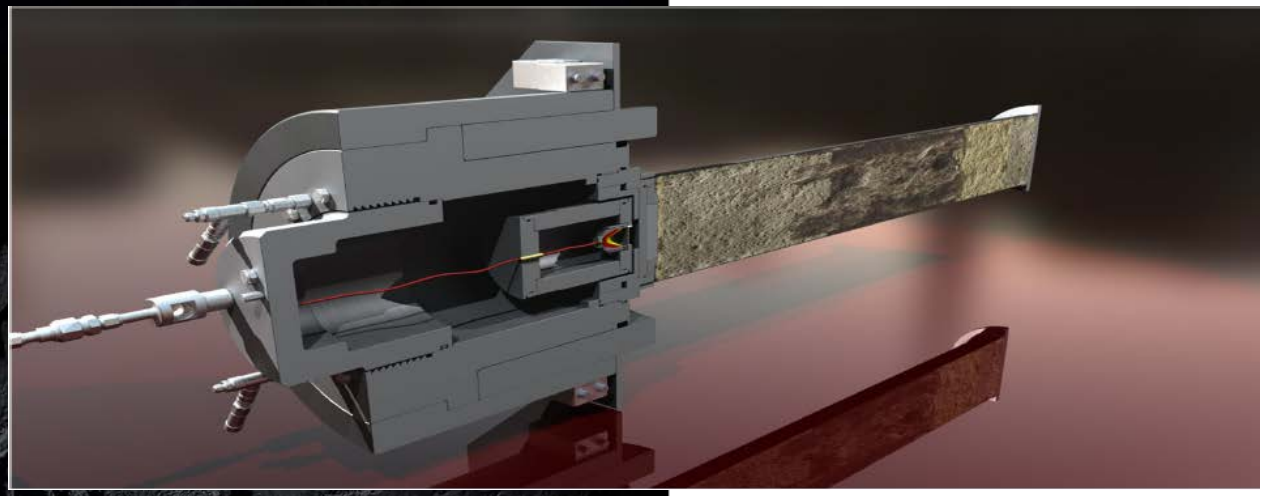

Summary

What Challenges do you have for Section IV

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Perforating