

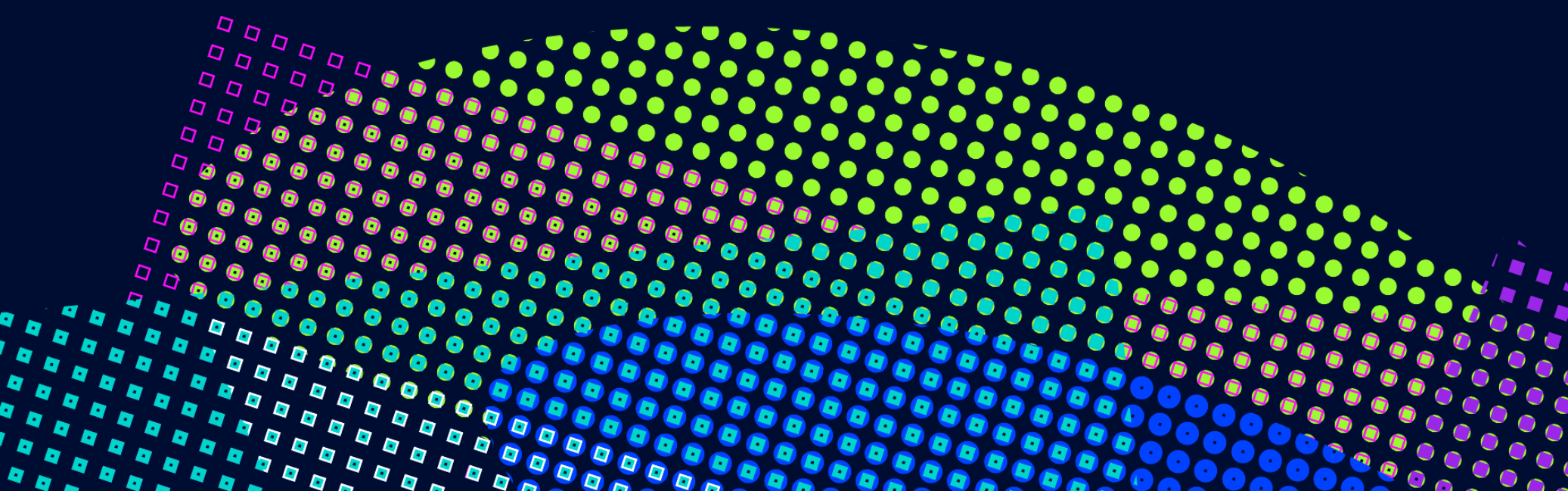


# Integrity Diagnostics for CCUS Wells - TechByte

Remke Ellis

TGT

23.02.22



# Spectral Acoustics to evaluate effective placement and containment of gas for CCUS

TGT

- Spectral Acoustics Theory
- Case Study 1 – Injector Well with SAP
- Case Study 2 – Gas Storage Well with Storage Leak



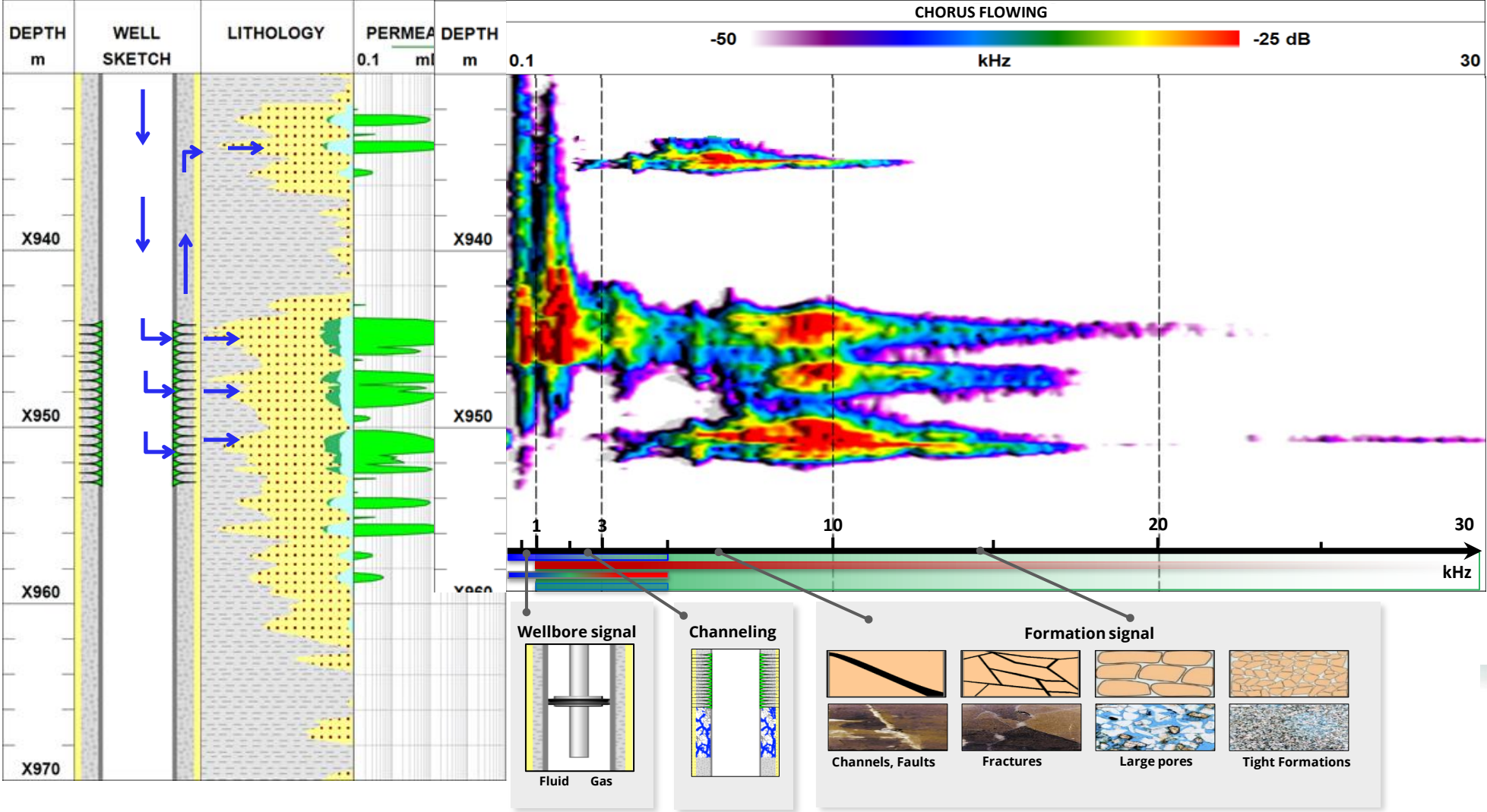
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# Chorus – interpretation fundamentals





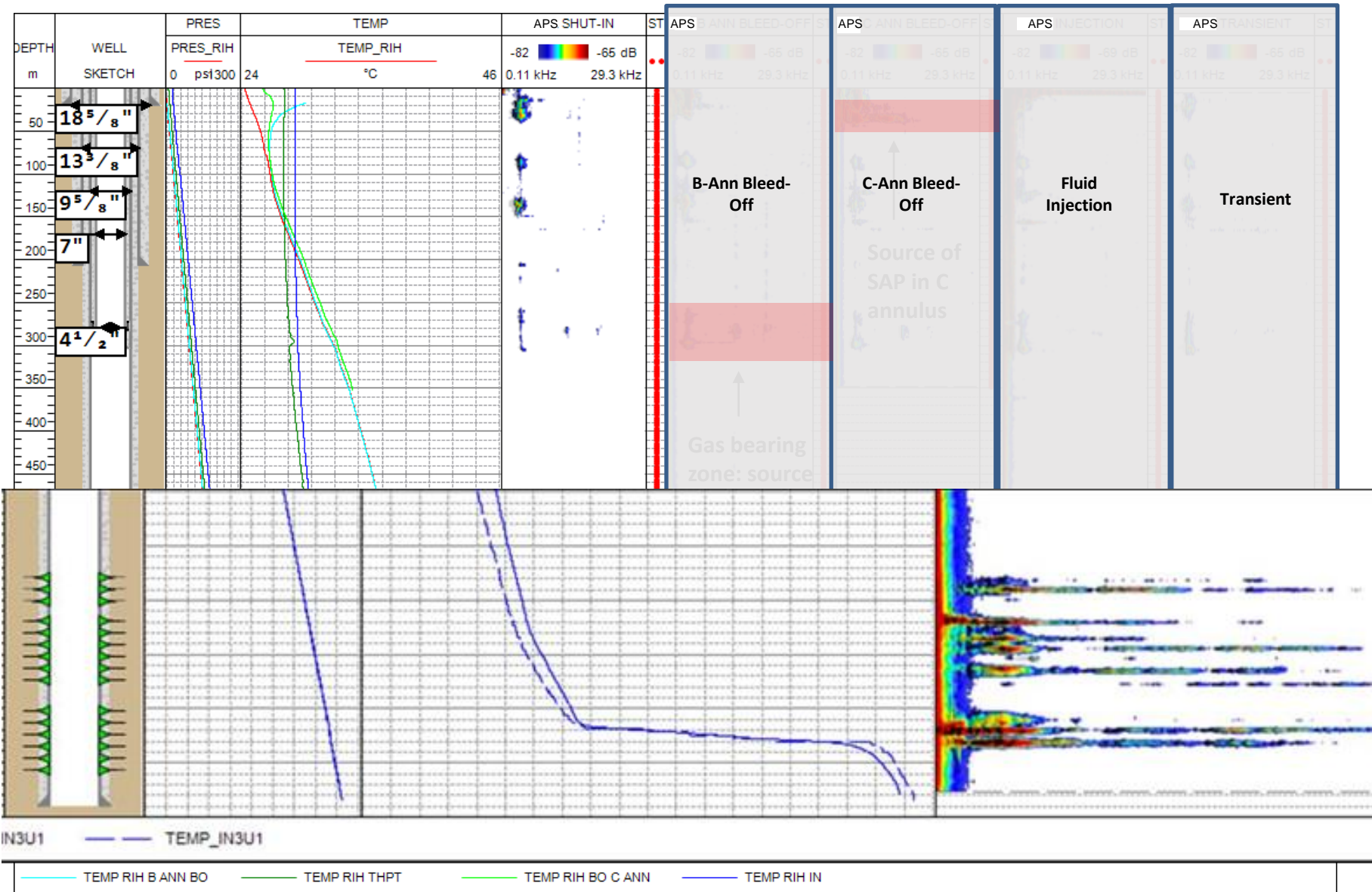
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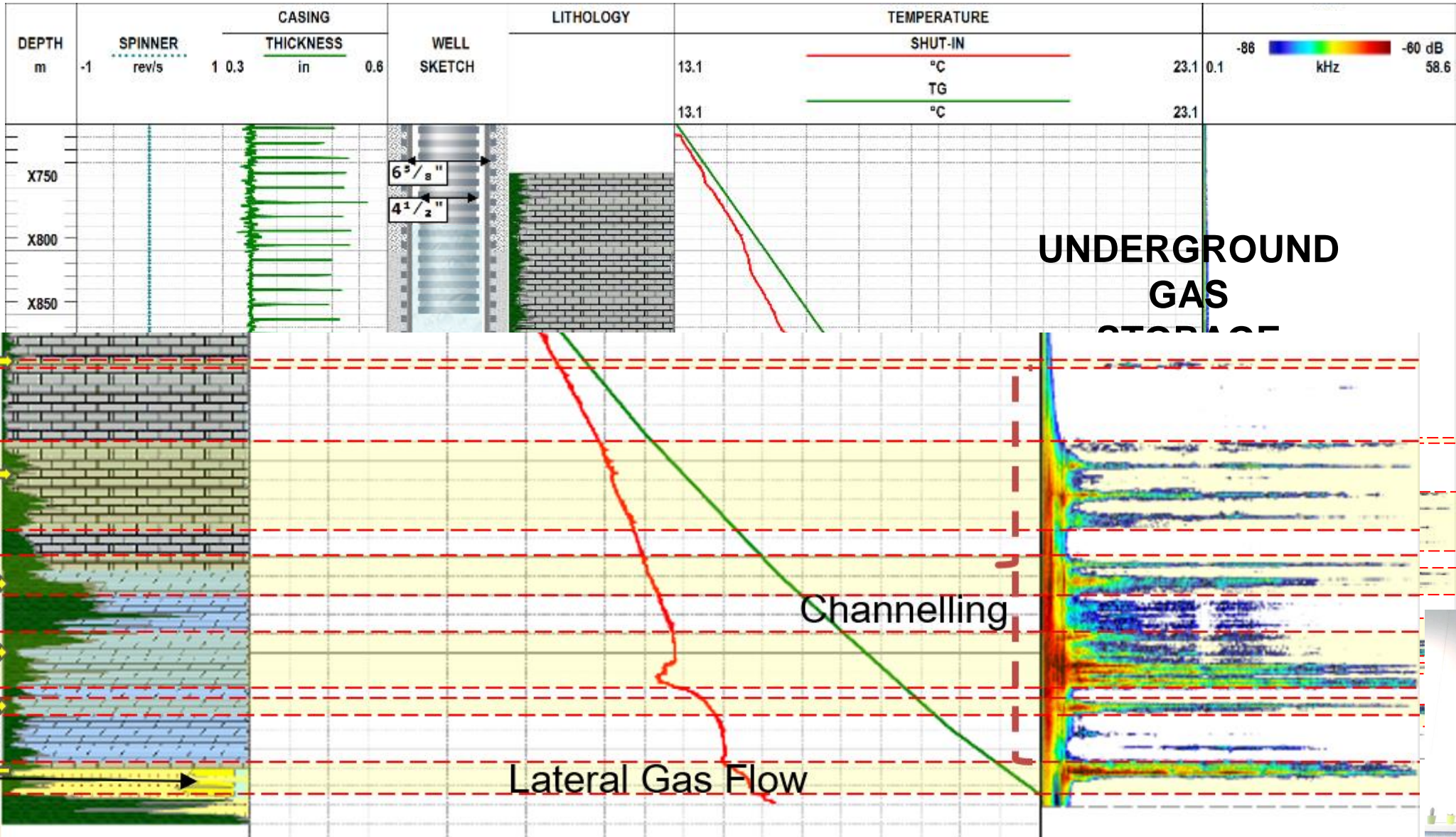
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# Case Studies







# Spectral Acoustics to evaluate effective placement and containment of gas for CCUS

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- Evaluating Target Zone & Out of Zone Injection
- Detecting Cross Flow Behind Pipe (gas leaks)
- Identifying Source & Route of Sustained Casing Pressure Fluid



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