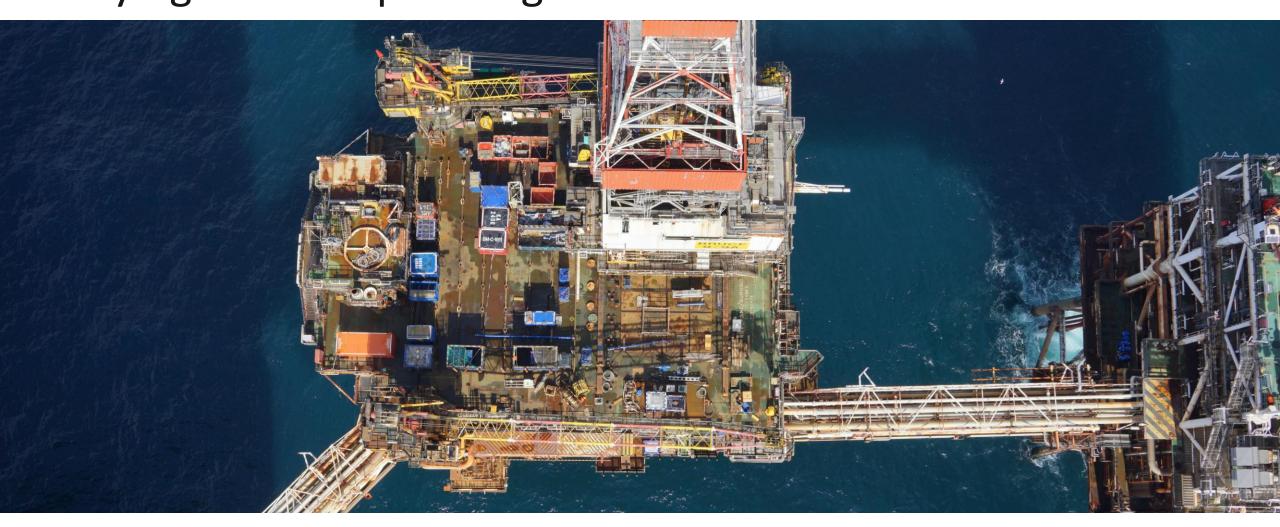
SPE WELL DECOMMISSIONING – Playing with the past to gain the future





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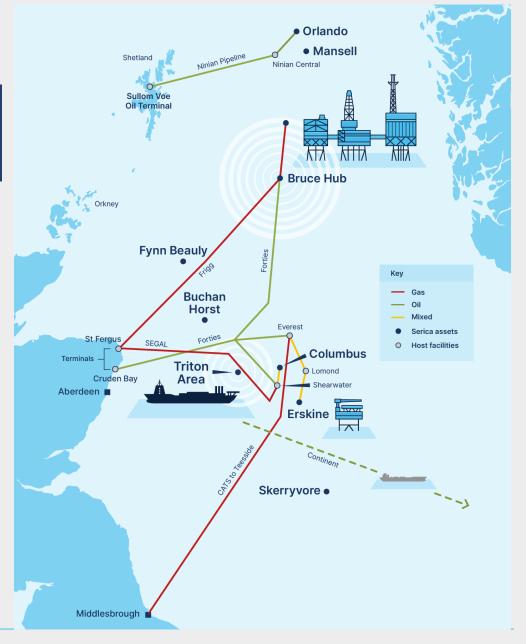
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A LEADING UK OIL & GAS COMPANY

Our Purpose:

"To contribute responsibly towards meeting the world's energy needs through the safe and efficient production of hydrocarbons"

- Founded in 2004, now one of the UK's top 10 producing oil & gas companies, with 2025 production predicted at 33-37,000 boepd
- 75% of the UK's energy needs are met from oil & gas.
 Serica's Bruce platform contributes 5% of the UK's gas production, strengthening the stability of UK energy security
- Diversified portfolio; virtually 50/50 oil/gas from two UK North Sea hubs
- Promoting a strong, empowered and respectful culture amongst our 200+ staff
- Supporting a UK-wide supply chain (over £1bn spent since 2015)
- A strong commitment to ESG with emissions below the UK North Sea average

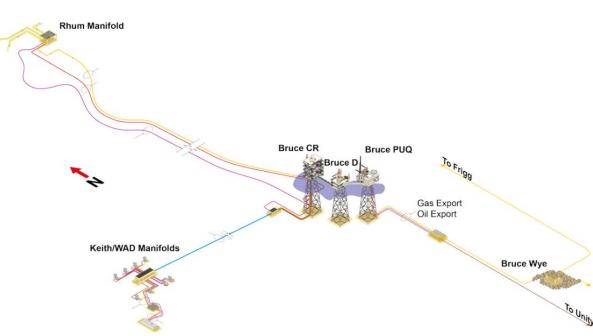


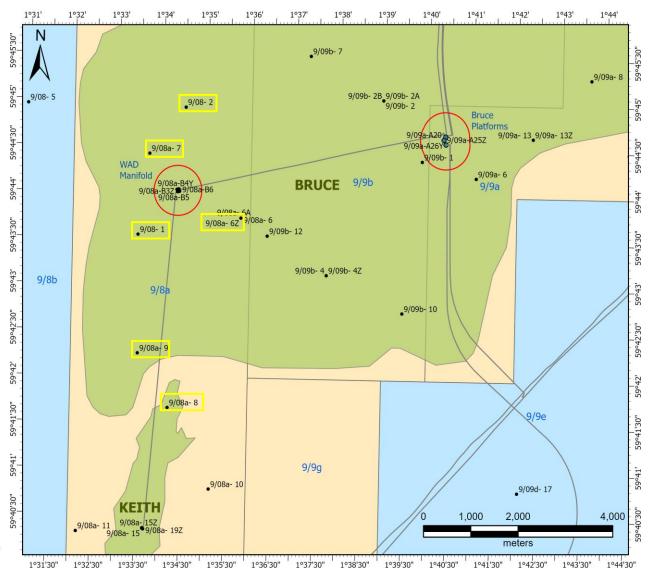
Todays Plan

- Past Quick history of the E&A Keith wells Serica decommissioned 2023/2024
- Present Noise
- The Future Technology

The Past - 'Older' E&A Wells

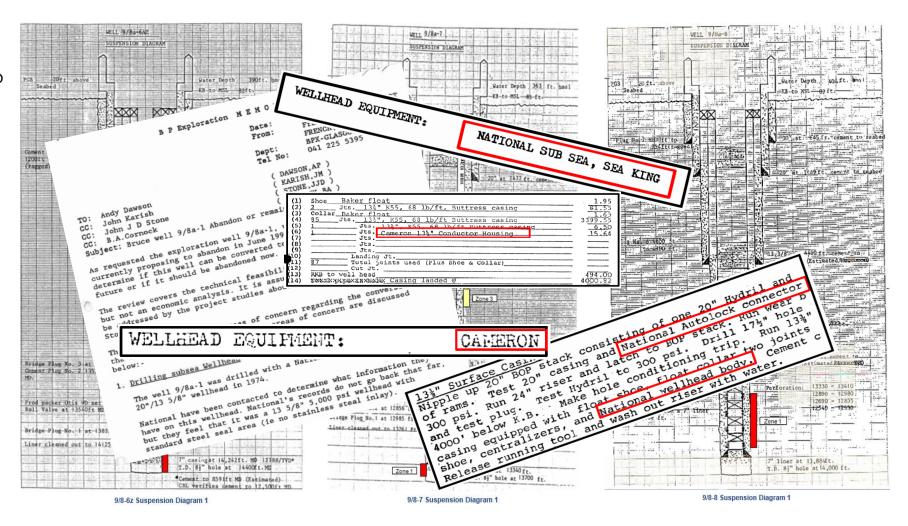
- Plan to inspect as well as plug and abandon Keith
 - 9/08a-1 (Spudded 1974)
 - 9/08a-2 (Spudded 1974)
 - 9/08a-6z (Spudded 1982)
 - 9/08a-7 (Spudded 1982)
 - 9/08a-8 (Spudded 1983)
 - 9/08a-9 (Spudded 1984)





Challenges

- Lack of information
- How good are the records?
- Inconsistent information
- Age of wells
- Availability of equipment
- Time of Year



Develop a plan, scope & timeline



Acted fast and assembled a team with extensive decommissioning experience



Interrogated our data & developed our strategies, a mixture of vessel & rig abandonments



Developed our decommissioning plan, recognising areas of potential scope growth



Maintained close dialogue with our partners, regulators and internal stakeholders



Received approval of our E&A Wells Decommissioning plan in May 2022



Seizing Opportunities in the Supply Chain...use it or lose it

- Targeted approach: multi-operator campaigns, doing things in order, gathering data to ensure certainty
- Negotiated contract terms to complete operations during winter months
- Working with the supply chain and applying new technology to strive for efficiency







2022

Getting it done in the field...



Wellhead surveillance/Subsea laser scanning (Savante)



Vessel based P&A and wellhead recovery



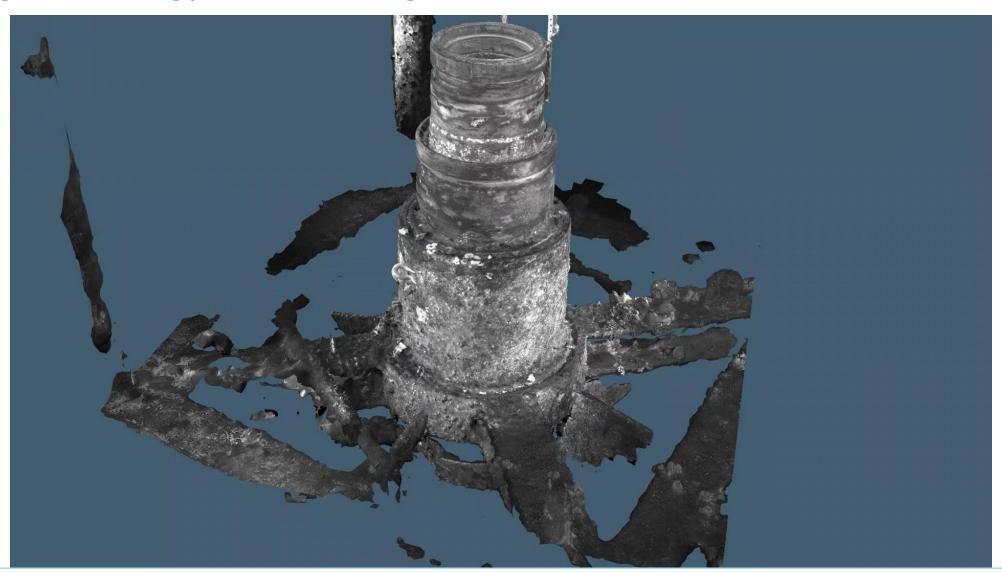
World first – 5 casing strings/single cut (Claxton)



Temporary Guidebase and gravity base assemblies recovered

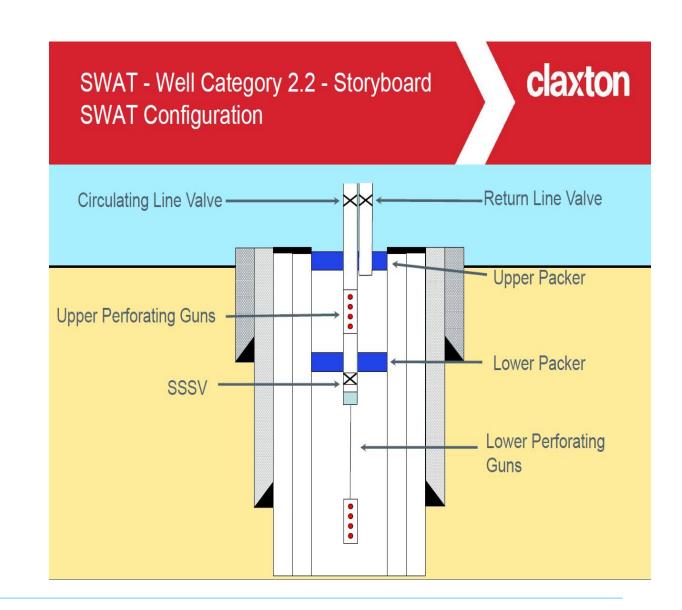


Using technology...when its right



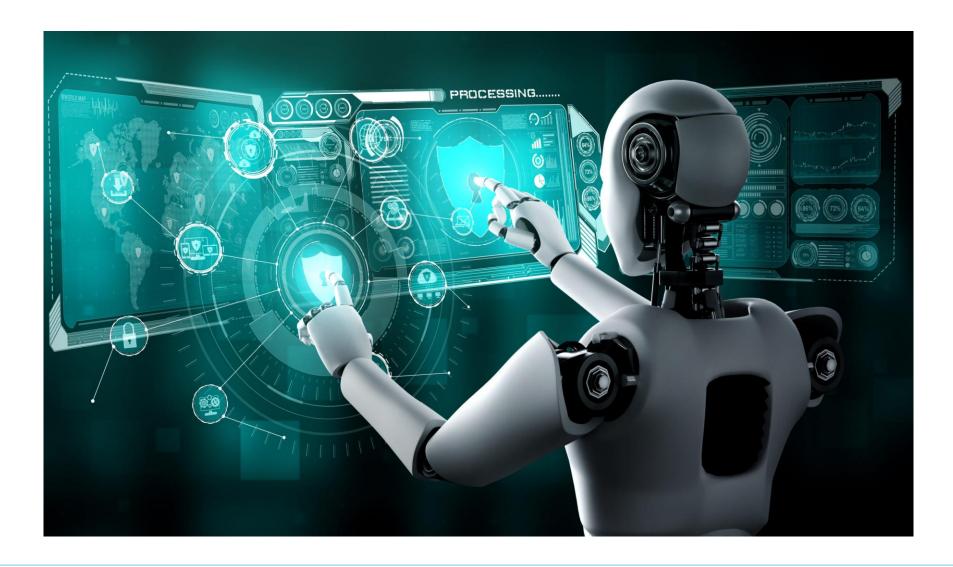
The Present - Noise

- Marine Mammel Observers
- Passive Acoustic Monitoring
- Sea state
- Time of year
- Storms
- Short days
- Light levels
- Visibility
- Defined Mitigation Zone
- 10 dB Breathing
- 20 dB Leaves rustling
- 30 dB Whisper (light snoring)
- 40 dB Rain (Refrigerator)

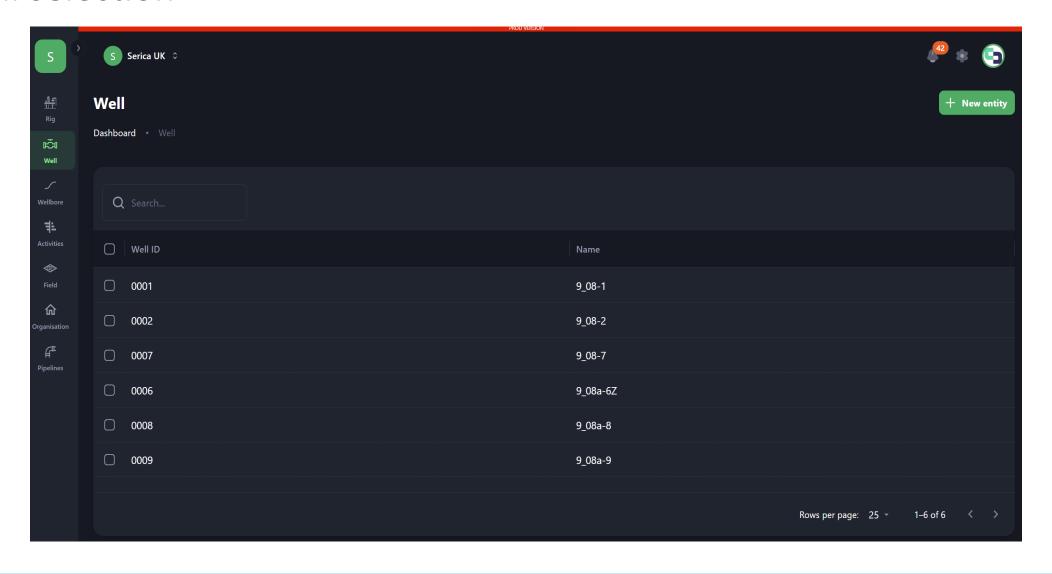


18 January 2022

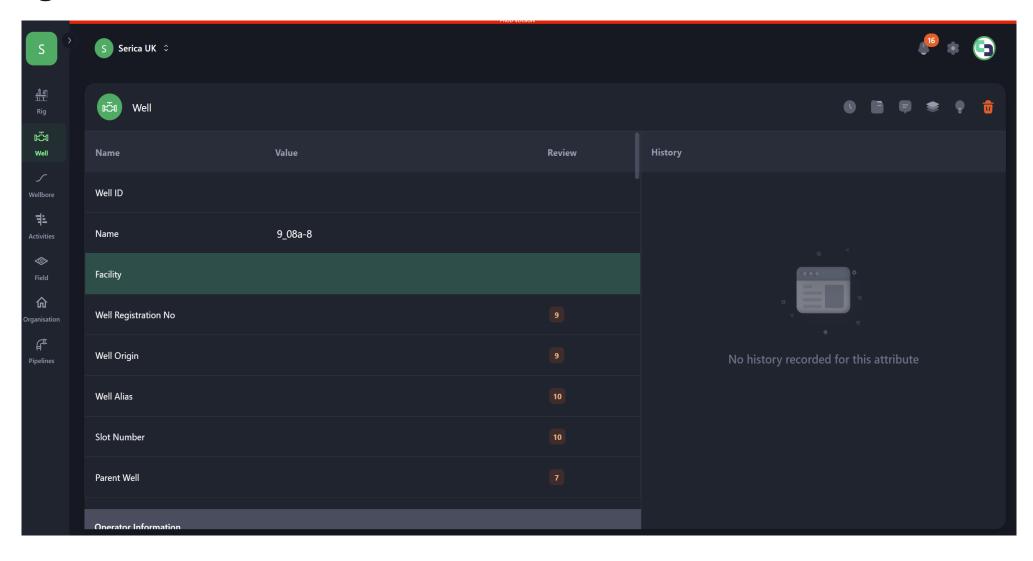
The Future - Al



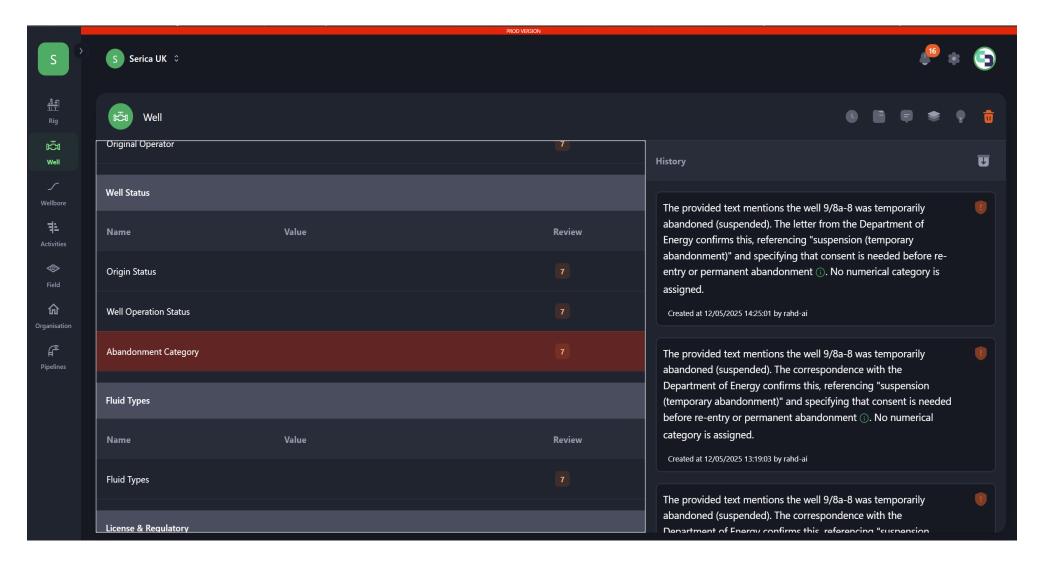
Well selection



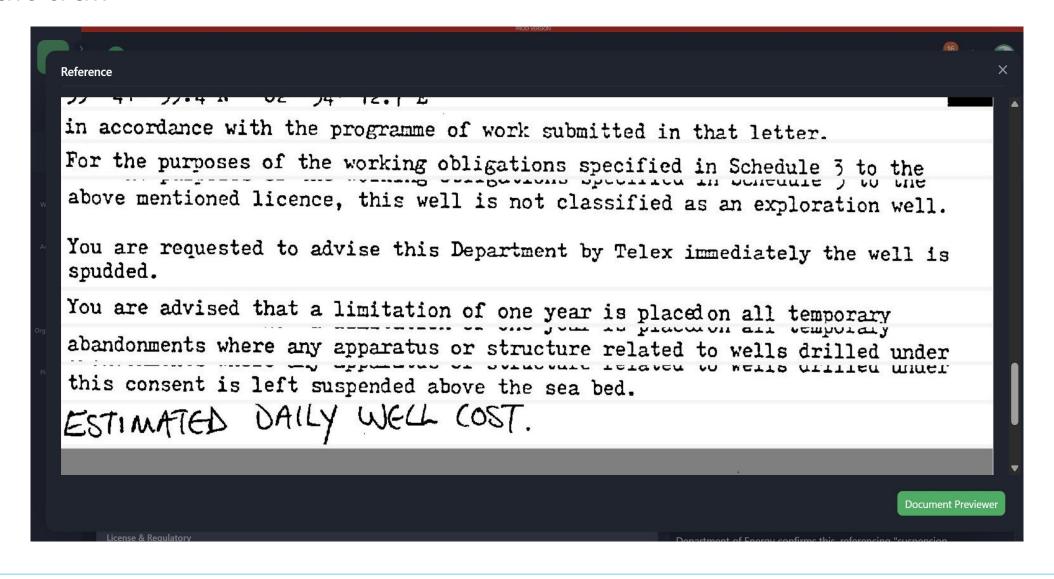
Drilling down



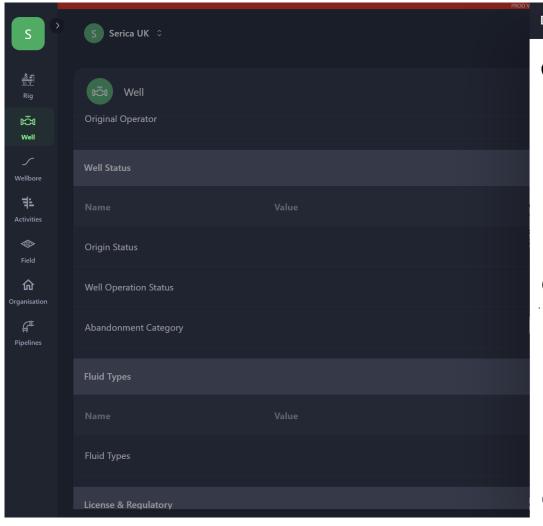
Data Audit



Audit trail



Audit trail



Document Previewer

Dear Sir

PETROLEUM AND SUBMARINE PIPELINES ACT 1975

Production Licence No P. 209

With reference to the telex dated 28 July 1983, I can inform you that the Secretary of State gives his consent under the provisions of Model Clause 17(2) of Schedule 2, Part II to the above Act, to the suspension (temporary abandonment) of well No 9/8A-8 at the location:

in accordance with the programme of work submitted in that telex.

Please advise this Department by Telex immediately the work has been carried out giving the date when all subsea work is completed.

You should submit a schematic of the suspended well, drawing attention to any deviations to the programme for which consent is given.

I remind you that the Secretary of State's consent will be necessary before this well is re-entered or permanently abandoned.

A time limitation for suspension above the mud line was attached to the consent to drill this well. Your intentions with respect to this suspended well should be submitted to this Department for consideration during May 1984 as previously advised.

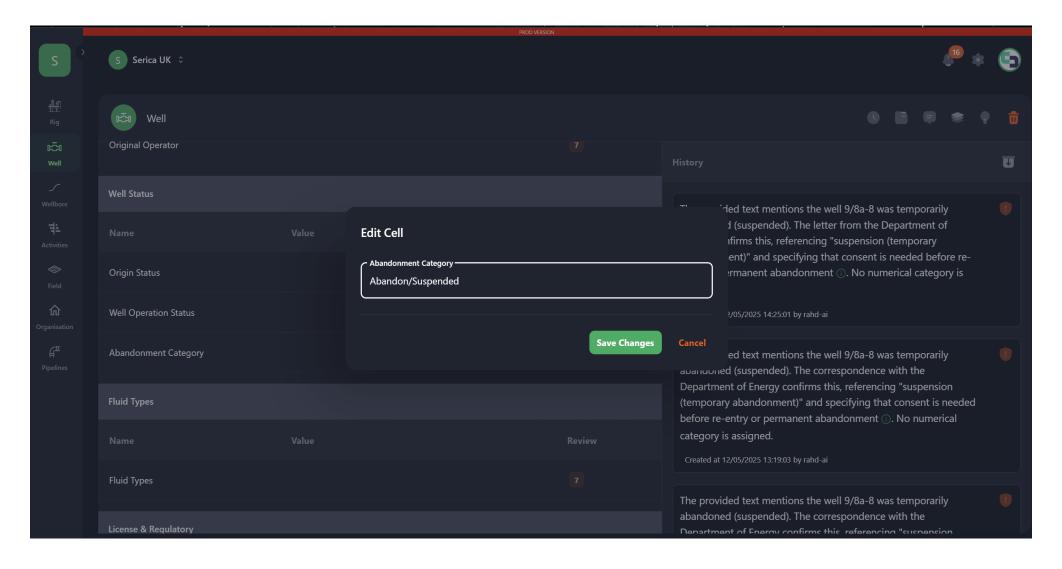
The expiry date will be one year from the date of completion of the suspension programme.

Yours faithfully

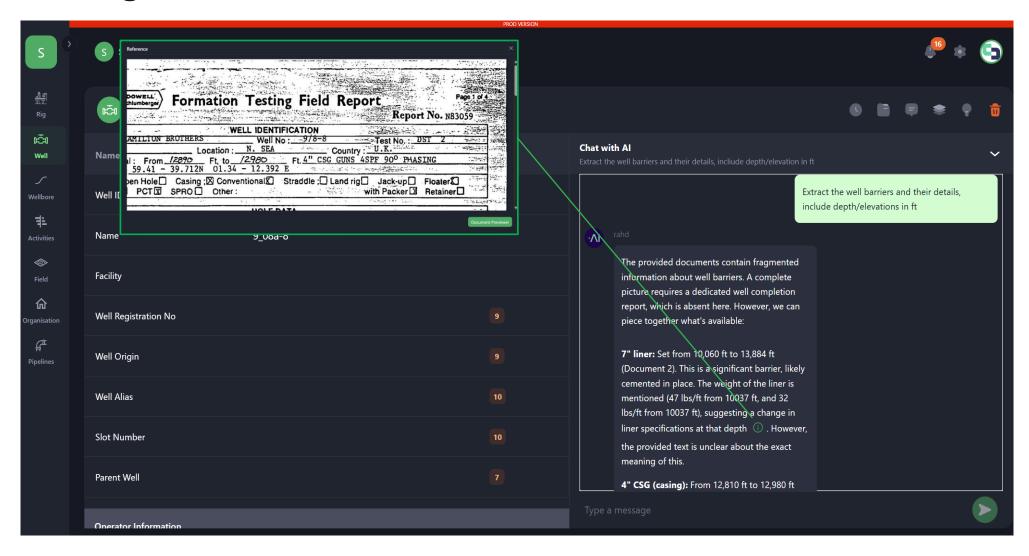
PETER ROBINSON

SENIOR PETROLEUM INSPECTOR

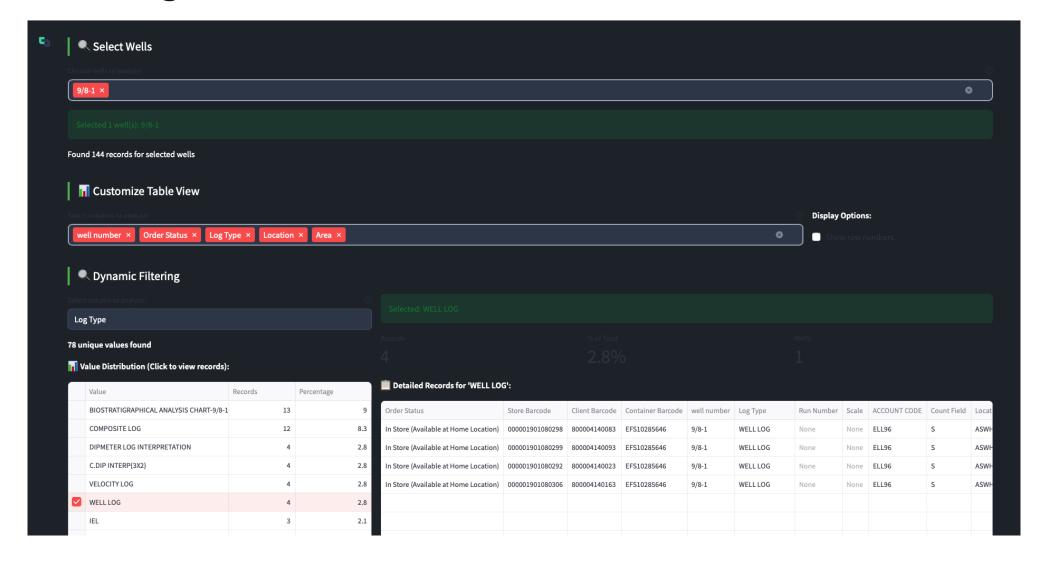
Al – Human validation



Data Interogation



Archive Storage Retrieval



AI - why?

Adjacent benefits

- Ability to have a digital dataset which can be accessed and searched by all moving away from 'tribal knowledge' or data tied up in hard copy/archives
- Opportunity to have a single field- or basin-wide searchable view across the wellstock
- Better, earlier understanding in the decom lifecycle of well complexity, risk and likely cost....rather than 'rough order of magnitude' budgeting
- Audit trail to accurately refer to sources of data, and rationale for P&A decisions being made
- Reduction in uncertainty, estimation & effort/price contingency between Operators and Supply Chain when issuing and tendering for decom contracts
- Move towards proactive system-generated recommendations; which wells have similar characteristics and are suitable for lower-cost P&A
- Move towards standarised data collection and sharing between stakeholders in the decom lifecycle
- Reduction in scarce engineer time spent on low-value (and unsatisfying) document & data review
- Lower-cost approach to accelerating decom campaign planning when availability of skilled resource and Budget \$ for non-revenue generating activities is tight

Conclusion

• The Past, Present & Future:

Failures of the past are what our knowledge of today is built on. Everything we know about success is based on mistakes we have made, but only if we learn from them!