

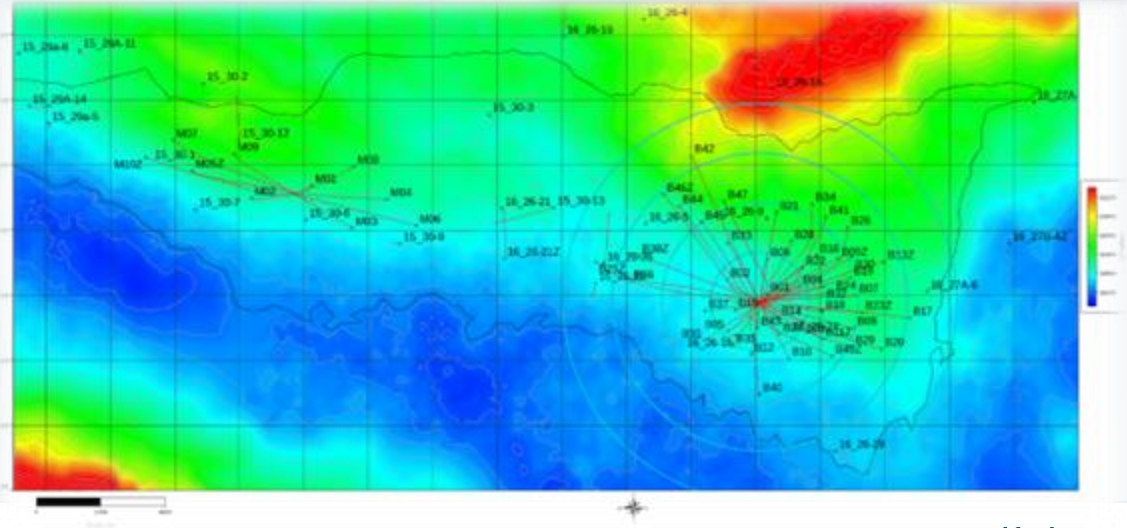
# Successfully Bringing Coiled Tubing Back To Britannia

Duncan Innes  
Harbour Energy  
Well Services Engineer

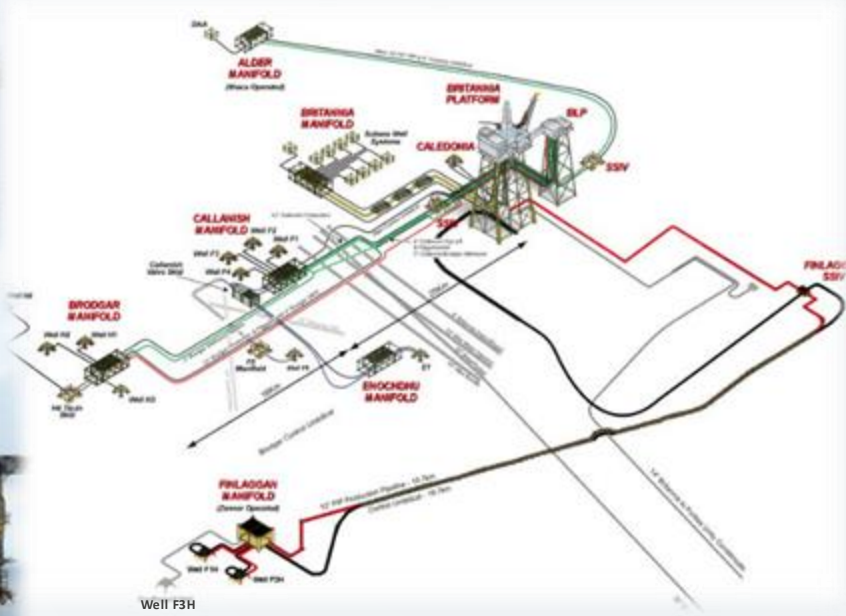


# Greater Britannia Area Field Overview

- Britannia field discovered in 1975.
- Britannia field lies 210km NE from Aberdeen in block 16/26.
- Facility installed / commercial production began 1998 from platform and subsea based Britannia manifold wells.
- Largest natural gas and condensate field in the North Sea at the time.



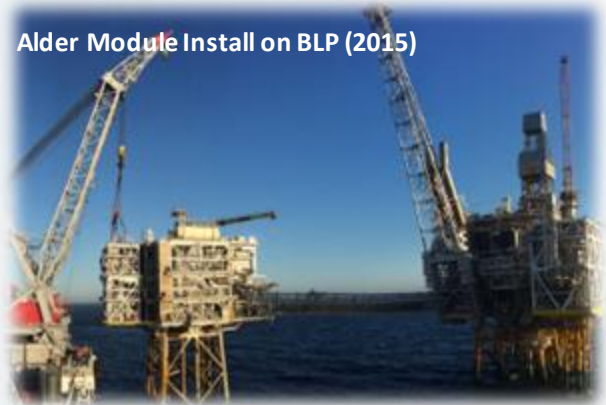
# GBA Production Enhancing Work Timeline



Enochdhu Towhead / Manifold (2015)



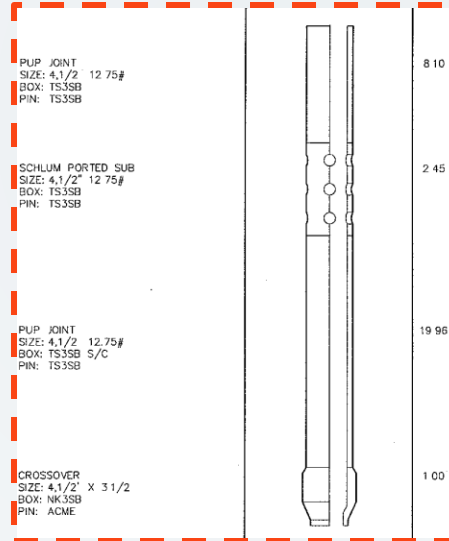
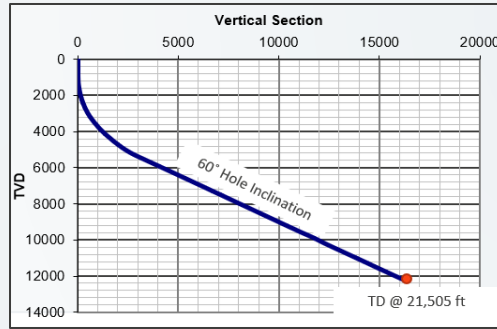
Alder Module Install on BLP (2015)



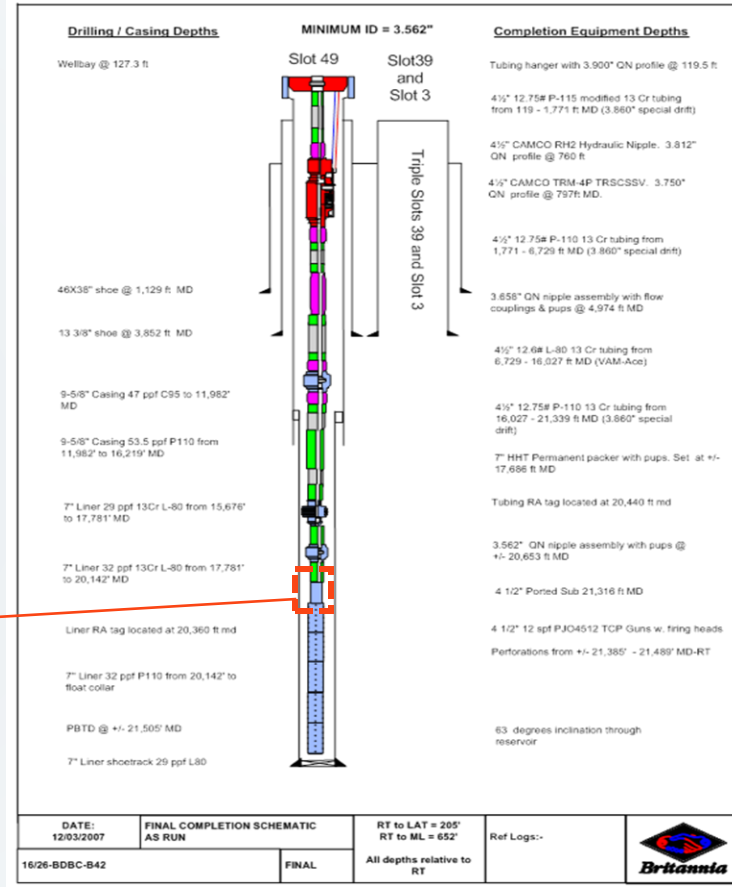
# B42 Coiled Tubing Intervention

# B42 Well Construction

- Triple slot well sharing with B43/B45 utilising triple close proximity wellhead (CPW) and tree.
- TD at 21,505 ft MD / 12,275 ft TVD.
- Well builds to 60° deviation at 6,500 ft and maintains through reservoir.
- TCP guns still attached to end of 4.5" tubing. Not adequate sump for release.
- Well produces through a 2.45 ft orifice sub at 21,316 ft.



## 16/26 - B42 (BDBC) FINAL COMPLETION SCHEMATIC





# B42 Production and Intervention History

## Production History:

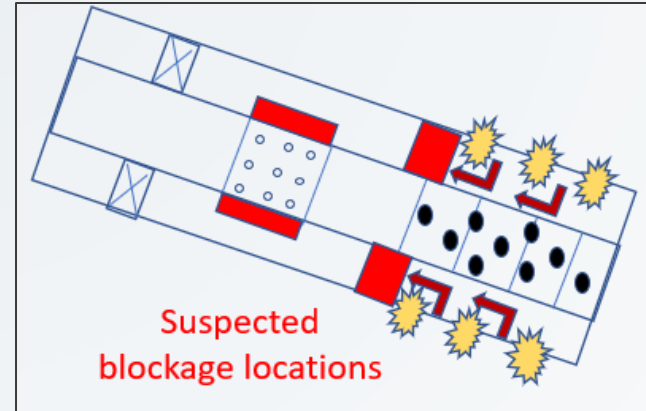
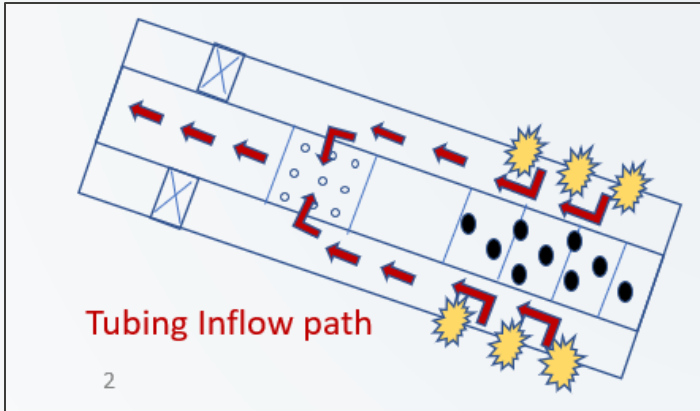
- Steady continuous producer which ceased flowing in April 2021.

## Intervention History:

- December 2021:
  - E-line milled down to 21,335 ft (no major milling).
  - 2 x samples obtained.
  - Gas condensate column in well, top at 10,100 ft.
  - Well remained offline.

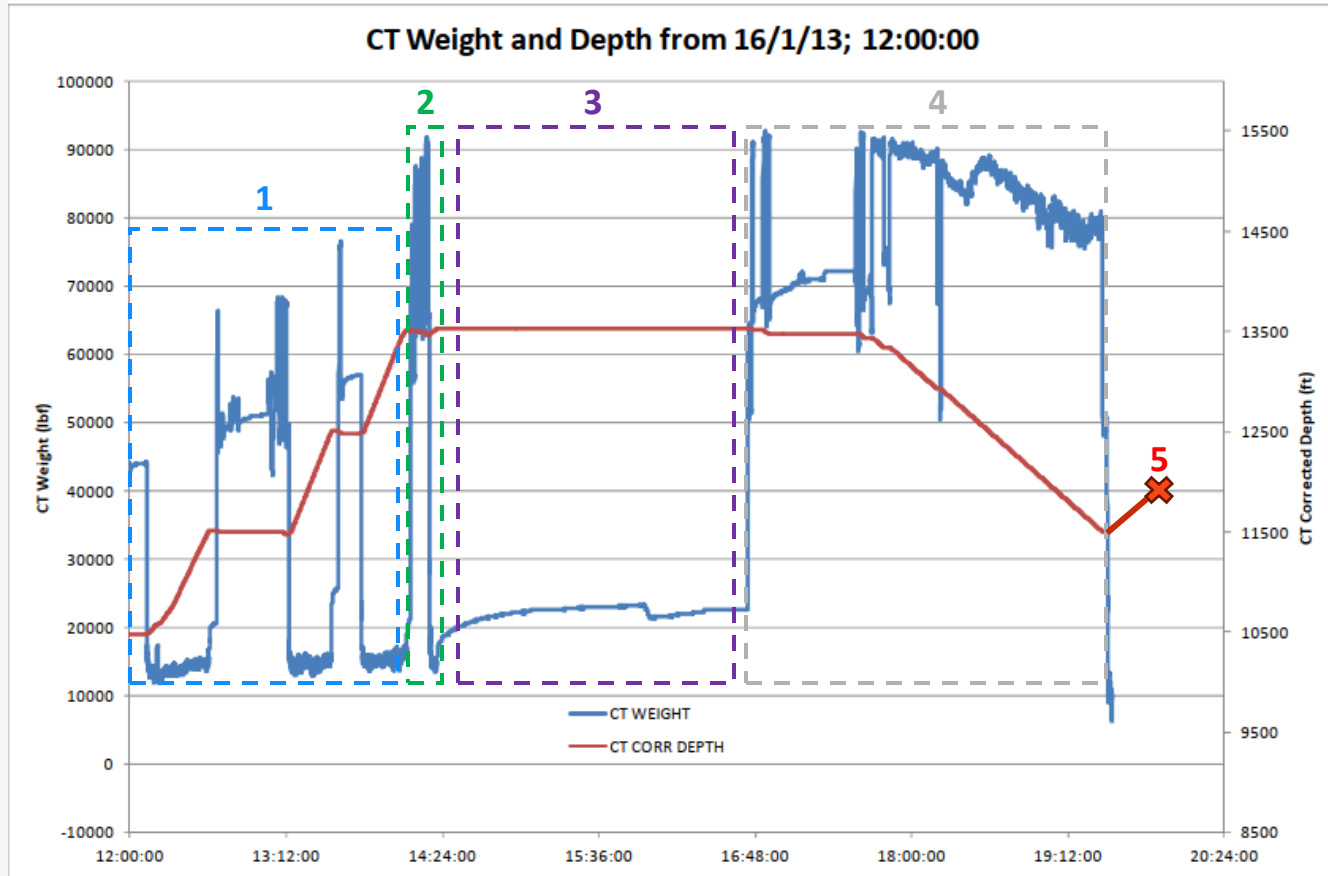
## Opportunity:

- Perform a tubing perf / scale squeeze / N2 unload to bring well back online.



# B19 Coiled Tubing Incident (2013)

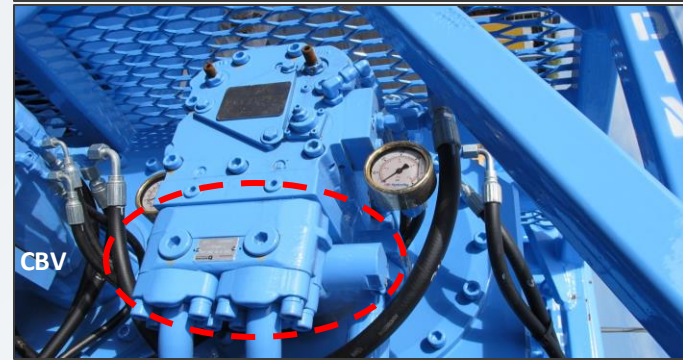
# Britannia Coiled Tubing History






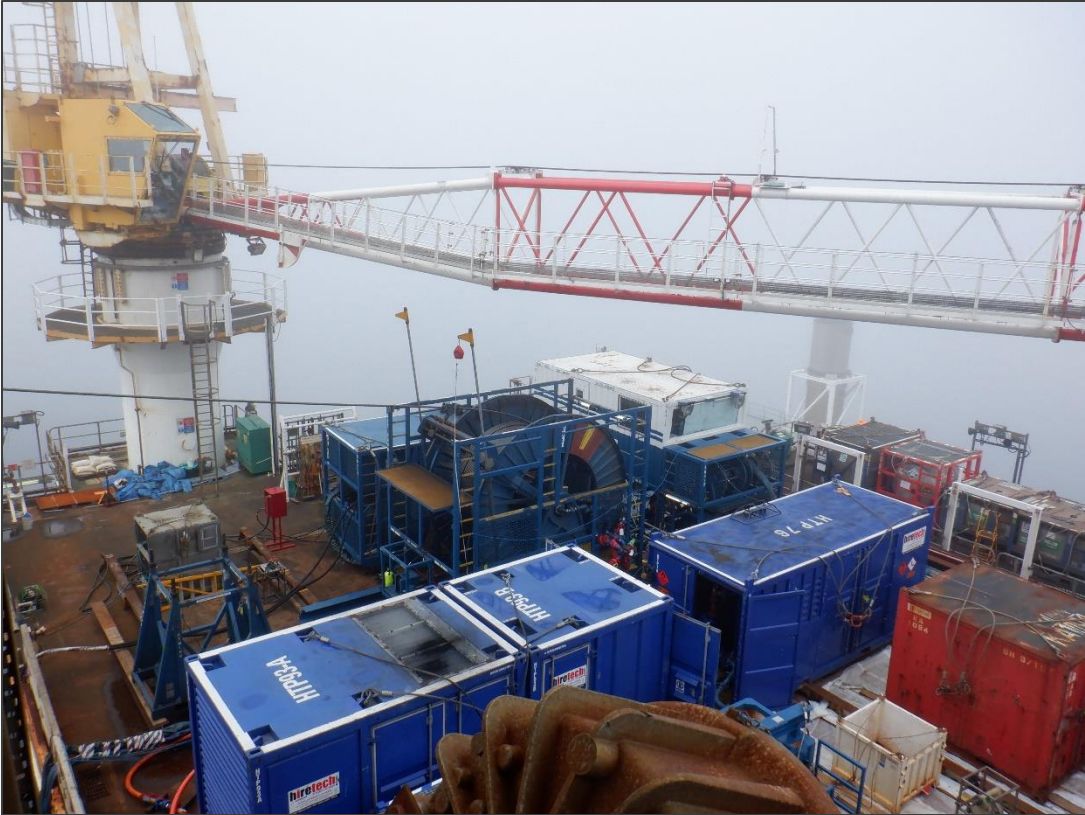
# Britannia B19 Coiled Tubing Learnings

- Well Operations Risk Assessment (WORA).
- Failure mechanisms from B19 understood.
- Pre-job SIT.
- Equipment service / maintenance history.
- Early platform engagement / transparent planning process.

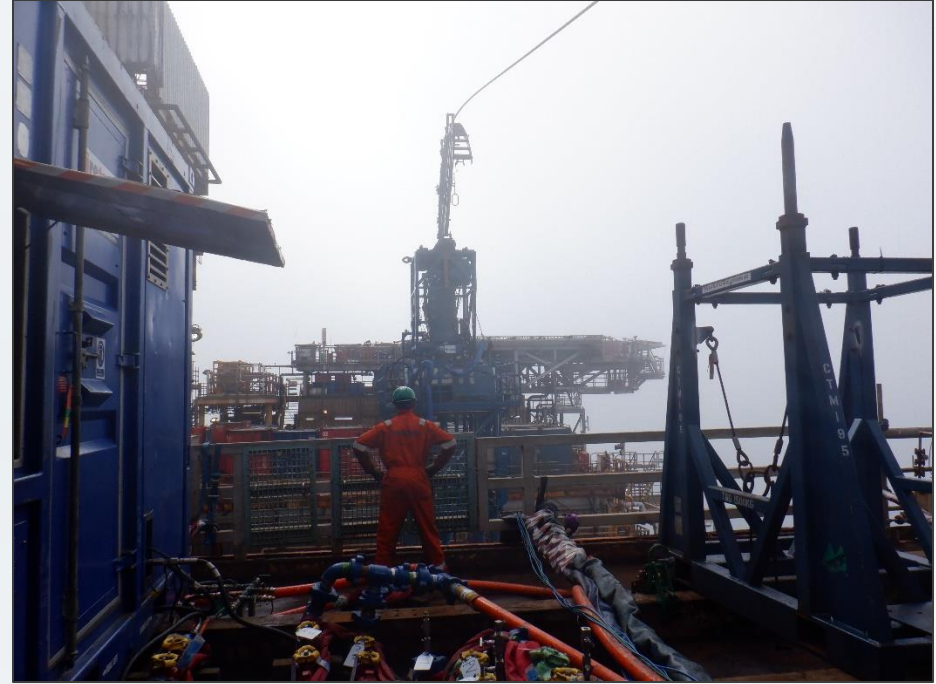


	<b>WELL OPERATION RISK ASSESSMENT</b>	Ref: CT Runaway
		Revision: 1
To:		WORA Ref: 32/23
From:	Duncan Innes	
Date:	29 <sup>th</sup> March 2023	
Subject:	Coiled Tubing Runaway – Lessons Learned from Britannia 16/26-B19	

# Coiled Tubing Scale Squeeze Execution







**BY LEARNING FROM THE PAST, WE PREVENT INCIDENTS**  
**LIKE THE B19 RUNAWAY RE-OCCURRING!**

**THANK YOU!**