





SPE-195751 Galapagos Field Redevelopment (NW Hutton And Darwin) in the East Shetland Basin

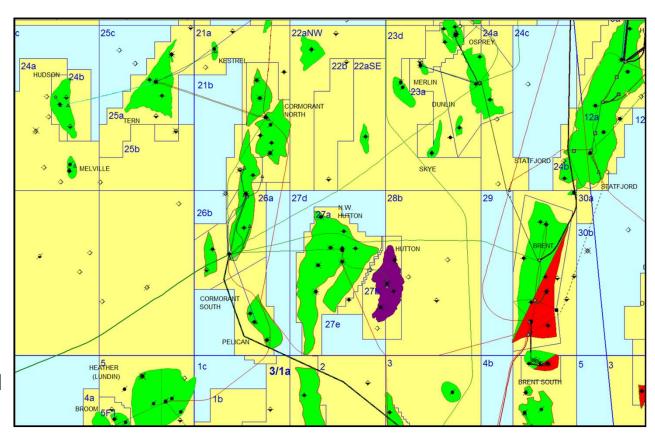
JEB TYRIE, BRIDGE PETROLEUM LIMITED

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Location UKCS BLOCK 211/27

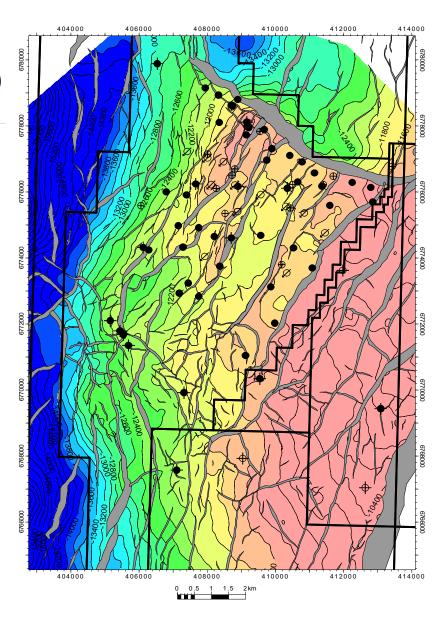
- Galapagos Field Development
- East Shetland Basin
- BRENT Province
- Re-development of North West Hutton and extended to Darwin
- Concept Select
 - FSPO
 - 4 Sub-Sea Drill Centres
 - Horizontal wells
 - Artificial Lift
 - Flow Control Valves
- 90 mmstboe in base case
 - Low risk brownfield development, supplemented by well understood greenfield area



The Problem

Galapagos Structural Map

- Compartmentalised Terraces
- Full throw faults down to zero throw
- NW Hutton
 - 11 Exploration / Appraisal wells (1970s)
 - 52 Production wells (1983-2002 CoP)
- Darwin
 - 3 Exploration / appraisal wells (2013)
 - 2 successful oil wells in south

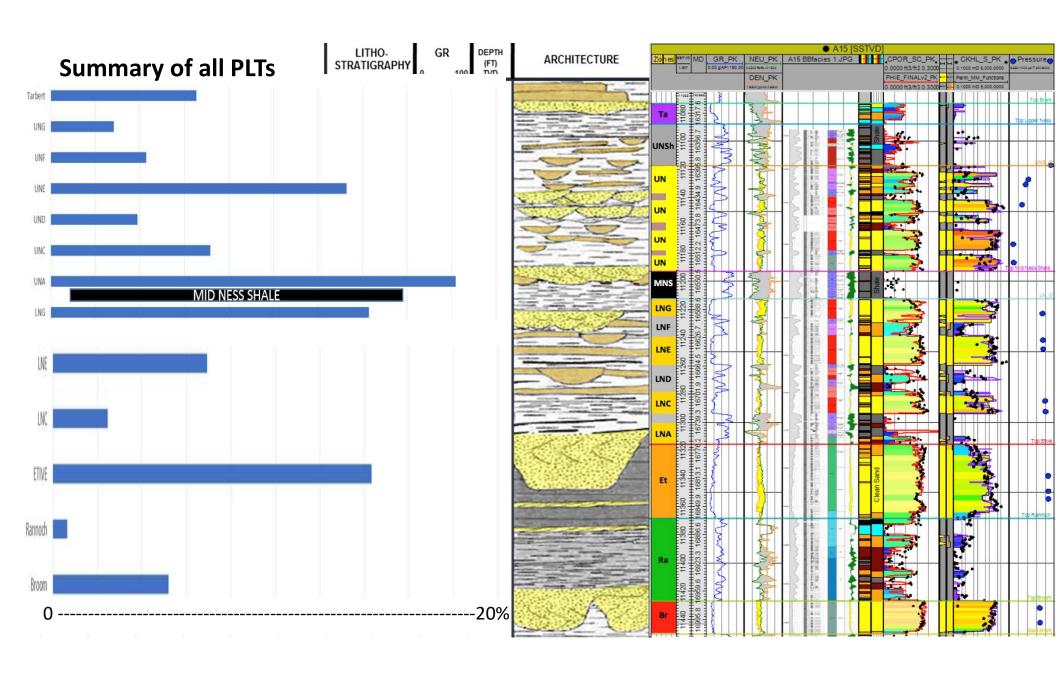


DATA

- 2008/2014 Seismic
- Logs / Cores
- RFTs / PLTs
- Production Data
- BHP
- Studies, papers

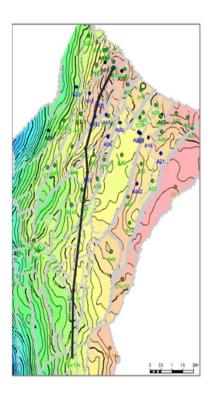
LITHO-STRATIGRAPHY ARCHITECTURE (FT) TVD TARBERT FORMATION UPPER NESS MEMBER 12000 GROUP LOWER NESS MEMBER BRENT 12100 ETIVE FORMATION RANNOCH FORMATION 12200 BROOM FORMATION

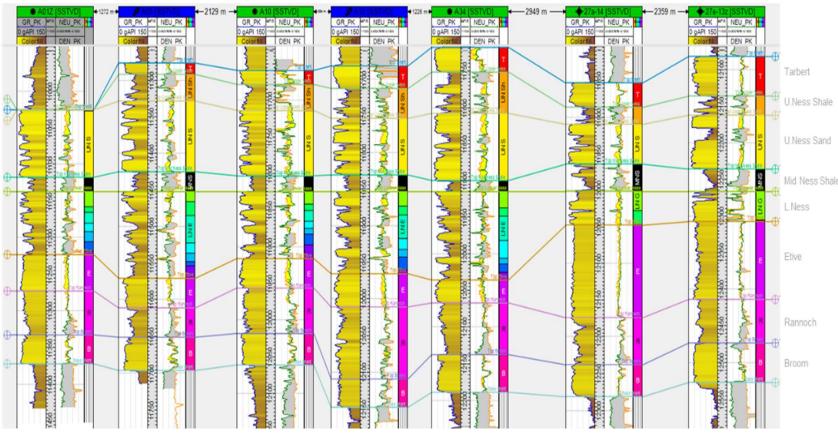
Modified from Flint et al 1999



Correlation – NORTH SOUTH

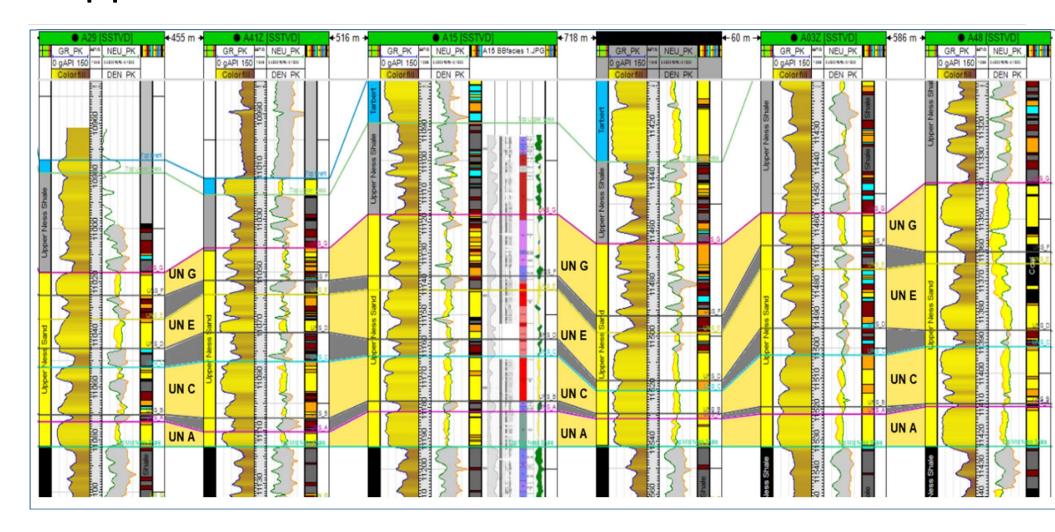
Flattened on Mid Ness Shale





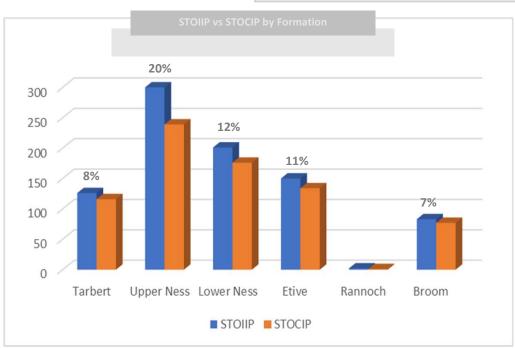
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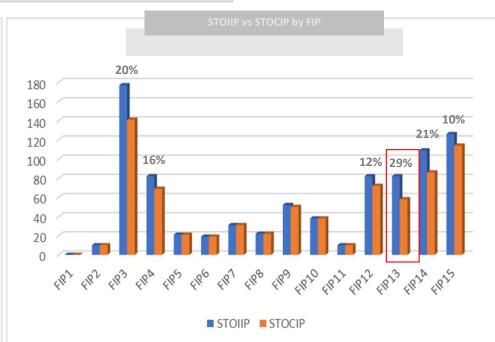
Upper Ness Correlation



STOIIP and Remaining Oil MMSTB

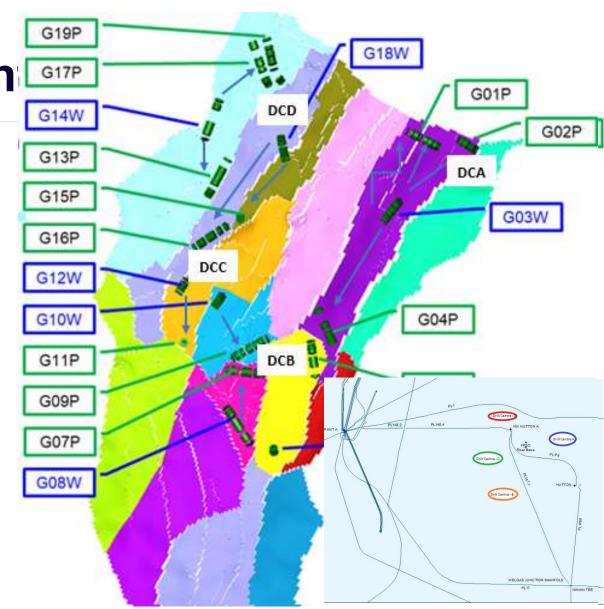
P90-P50-P10: 790 -- 883 -- 937





Field Developmen

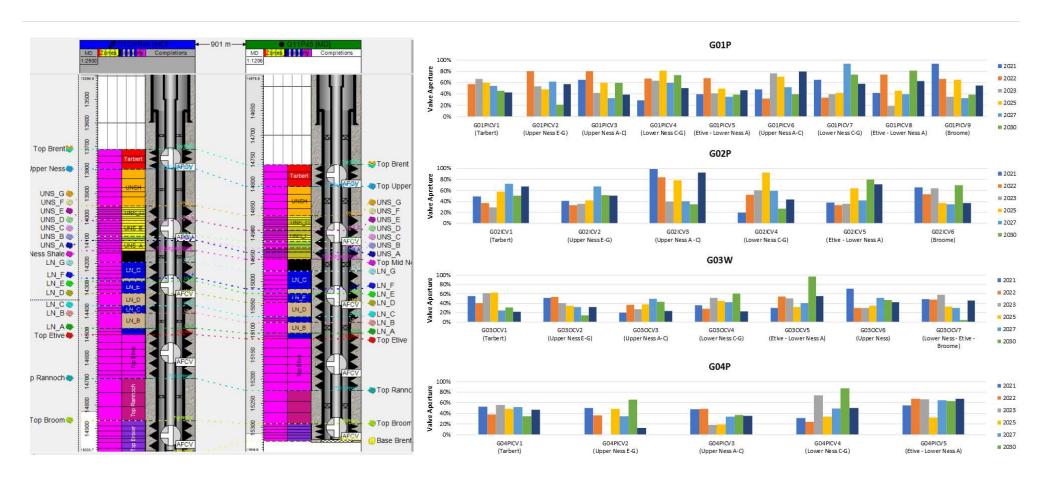
- 4 Drill Centres
- Producer Injector Pairs
- Horizontal Wells
 - 3000 ft md cf 350 ft tvd
- Differential Pressure risk
- Use inclination of formation to simplify wells
 - Cut all zones
 - Straight reservoir section



The Challenge

- 20 years of Production History -- 20 years shut-in
- Monitor forecast performance against History Match Simulation Model
 - New wells, new information(?)
 - How much performance?
 - What parameters?
 - Model updates, how often?
- 75 FCV on Injectors and Producers
 - 5 Injectors 11 Producers
- Set FCV valve position for X months ahead (?)

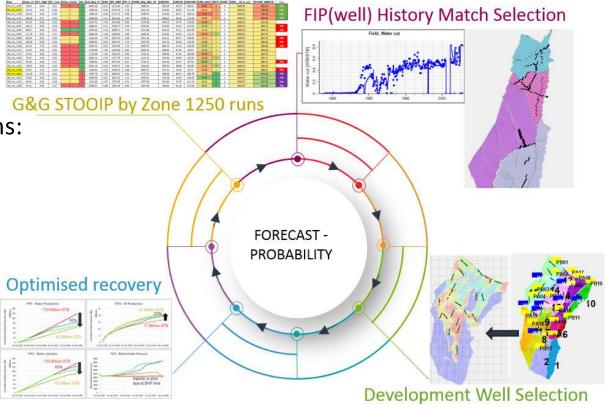
FCV Completion and Optimised Valve Positions



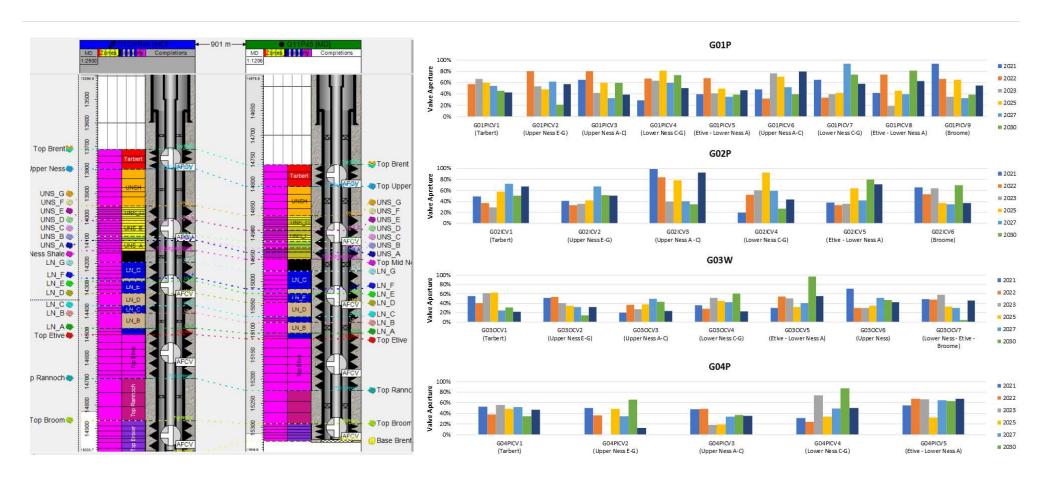
The Solution

Forecast

- 250 uncertainty runs were conducted, excluding structure:
- Range of 796 888 943 mmstbo
 - Upscaled 16 cases P90/P50/P10 bins:
- Forward models selected on match to history without further edits
 - FIP and well
 - Cumulative oil, cumulative water,
 - BHP and RFT



FCV Completion and Optimised Valve Positions

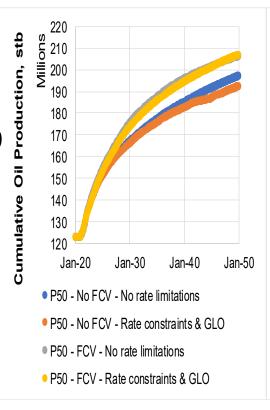


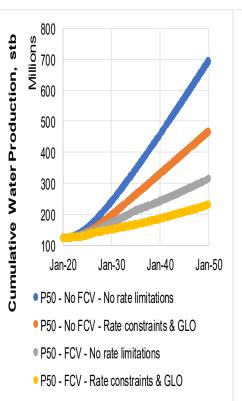
How to Shrink the Facilities (FSPO Case)

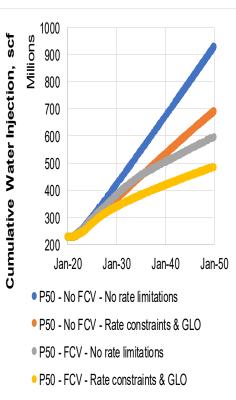
FCV

- Monitoring
- 90 → 45 MBL/D
- → Smaller Boat!

Constraints	Oil mmstb	Water mmstb	Injection mmstb
P50 - No FCV	197	692	926
P50 - No FCV Rate & GLO	192	465	688
P50 - FCV	207	312	595
P50 - FCV Rate & GLO	207	230	484







Monitoring

- Monitor forecast performance
 - History Match Simulation Model
- New wells, new information(?)
 - Logs, RFTs, (no DST or core)
- How much performance?
 - Every 3 months
- Model updates, how often?
 - · Initial 6 month rebuild based on
 - New wells
 - · Pressure Pulse tests
 - · Automated History Match quarterly
 - Rates, Water Cut, BHP, THP
 - Weekly data
 - Rebuild annually

- 75 FCV on Injectors and Producers
 - 5 Injectors 11 Producers
 - PLT every day!
 - Rate and BHP per zone
 - Water cut to 40%
 - Tracers as back up
 - Production test for Scale and rate monthly
- Set FCV valve position for 1 year (?) ahead
 - Optimisation is demanding
 - · Automated work flow
 - Use Forecast windows and FIPs
 - 1 year ahead