

# Rough

The Journey from  
Storage to  
Production

*centrica*

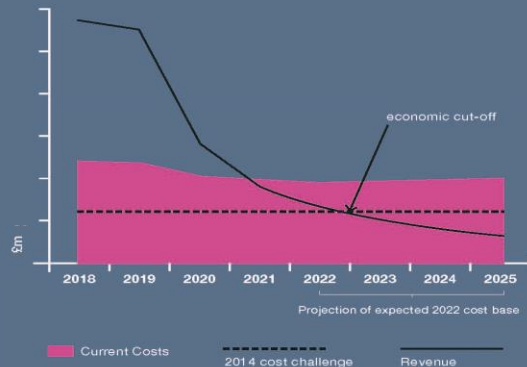
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# Ensuring the Future



Reducing end of life cost base to 2014 levels could unlock further production



## Our vision

To be the safest and most reliable team in the Southern North Sea

**Our purpose is**  
To maximise the potential of our assets and people for the good of the UK

## Our values



## Our strategy

– how we will achieve this



### Make it last

Everyone has a part to play. The lower our costs, the longer we will be here.

### Make it work

Make it work is about implementing and embedding a set of structured and integrated work processes in key areas of our business underpinned by a set of critical behaviours to give us the best efficiency and effectiveness in the SNS.



### Make it safe

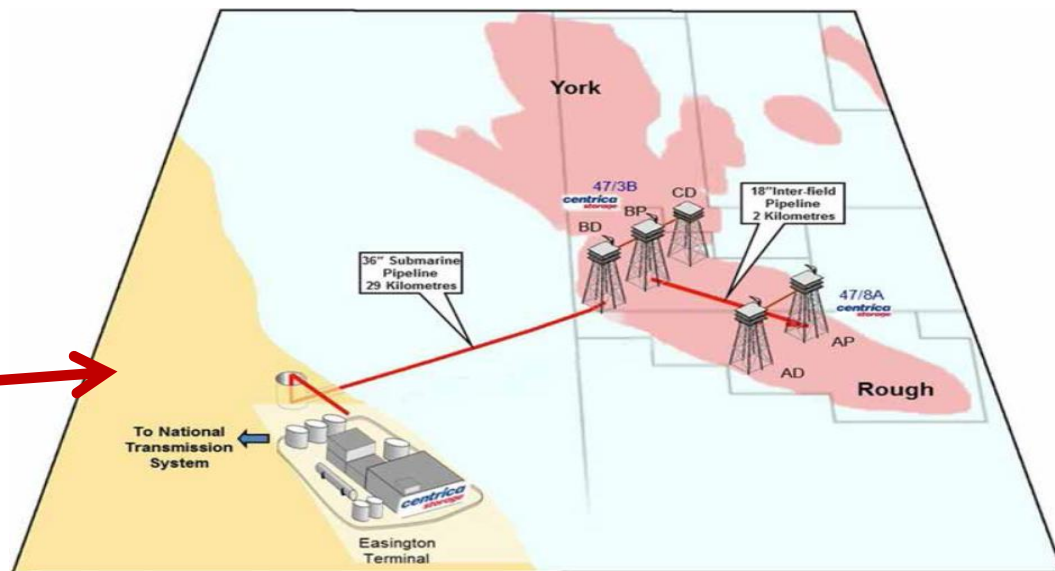
Make it safe is about continuing the fantastic journey that has been our culture of care, continuing to drive our safety performance to be the best in the SNS.

**All of this is underpinned by our passions...**

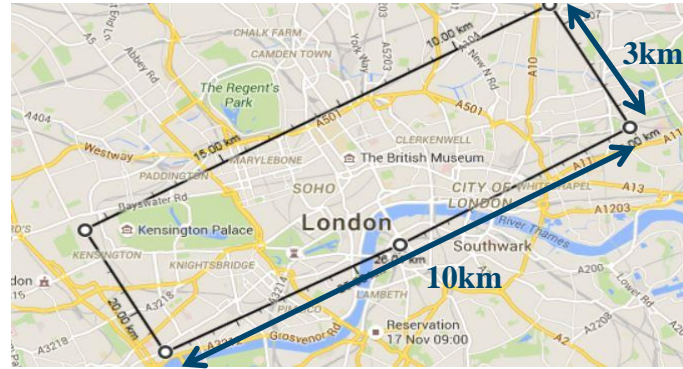
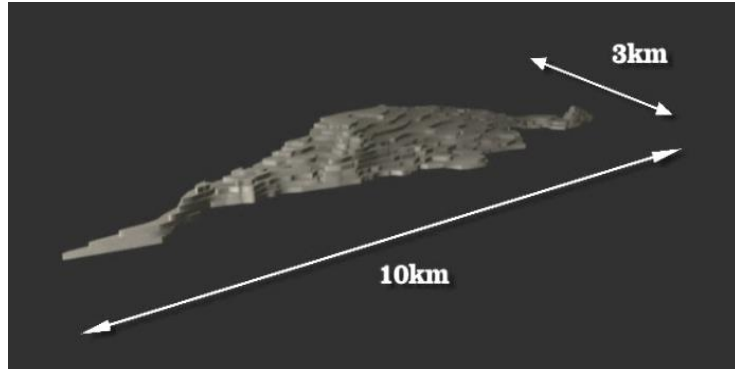
We are passionate about the safety and wellbeing of our people and building a legacy that we can all be proud of



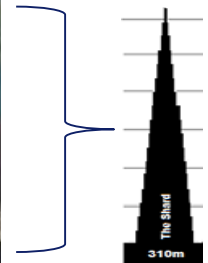
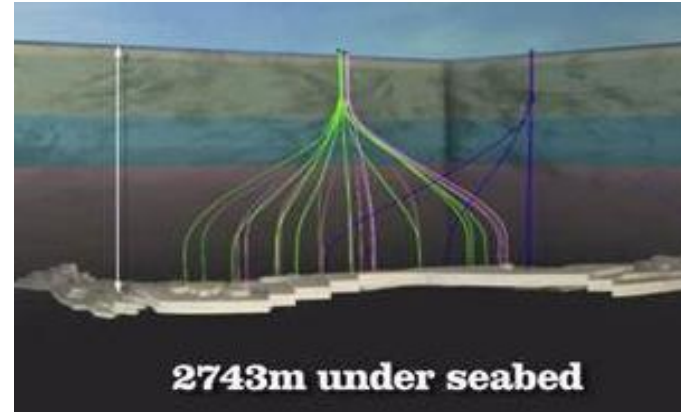
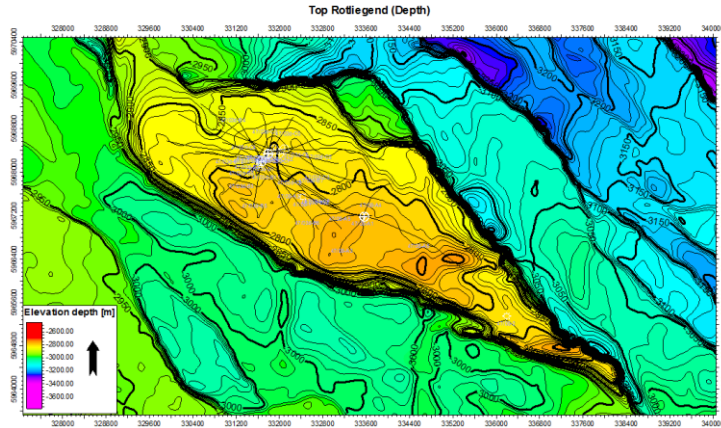
# Centrica Storage- Rough



# The Rough Reservoir



Rough covers  
an area of  
 $30\text{km}^2$



At a depth of ~ 9  
times the height  
of the Shard  
under the seabed

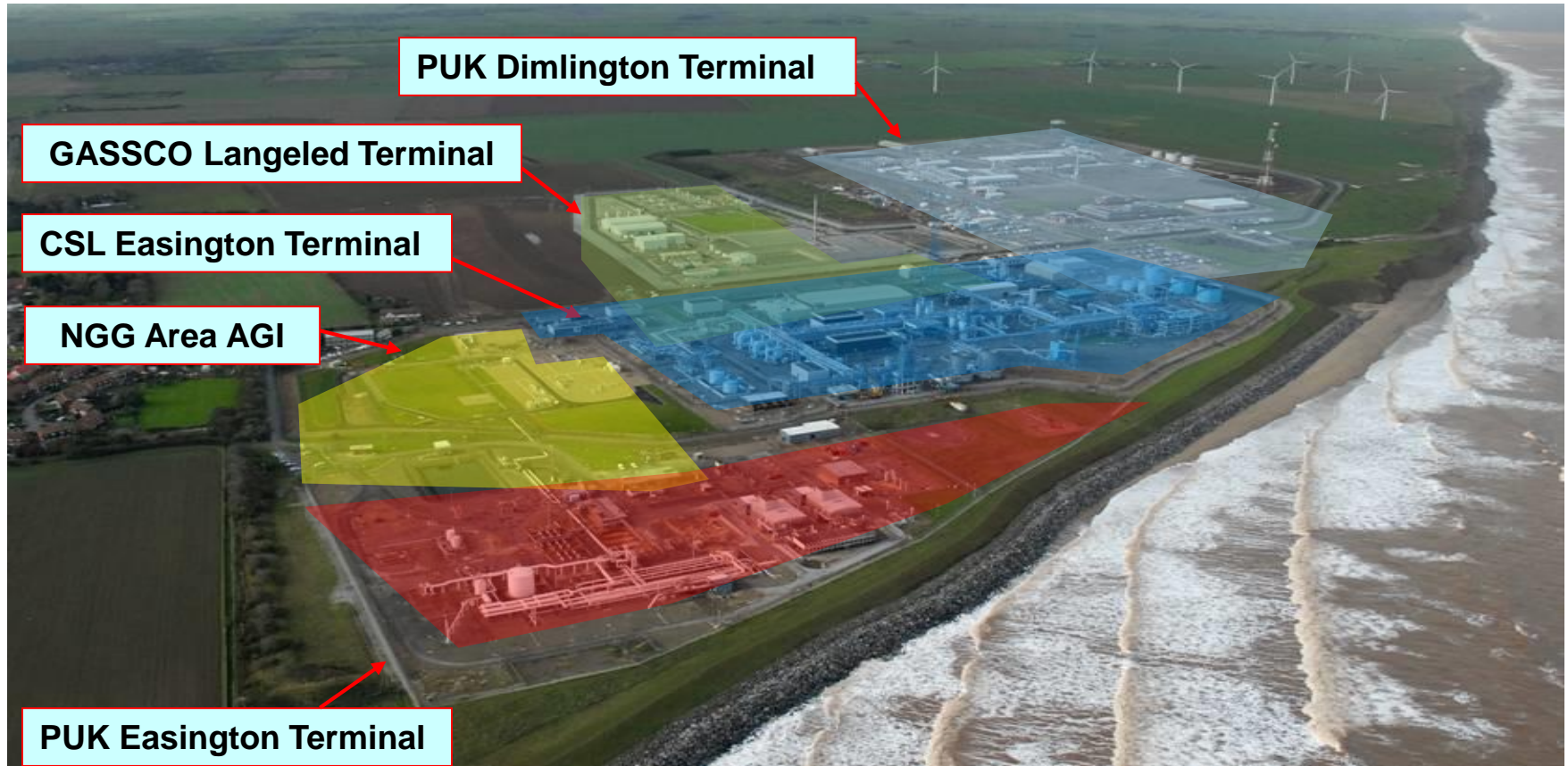
# Rough 47/3B, 47/8A and Easington Terminal

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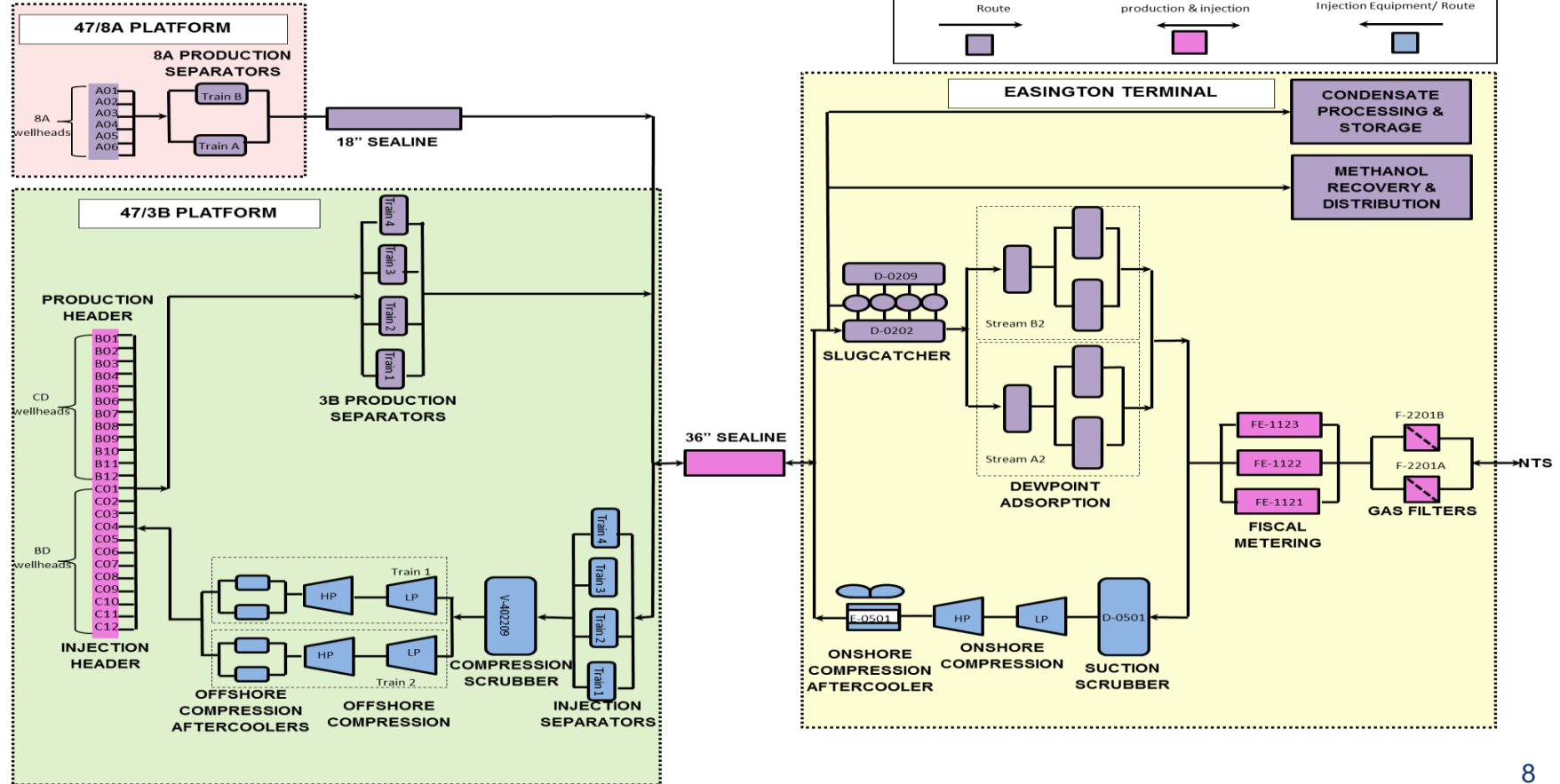
# Easington Hub



# Playing our Part- Maximising Economic Recovery

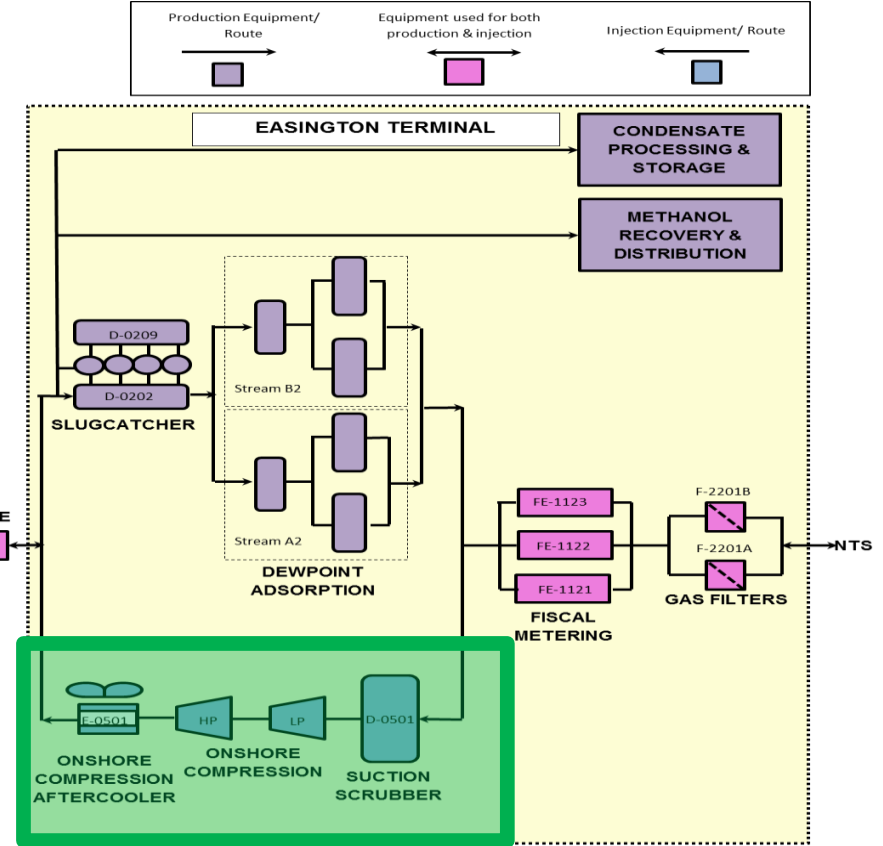
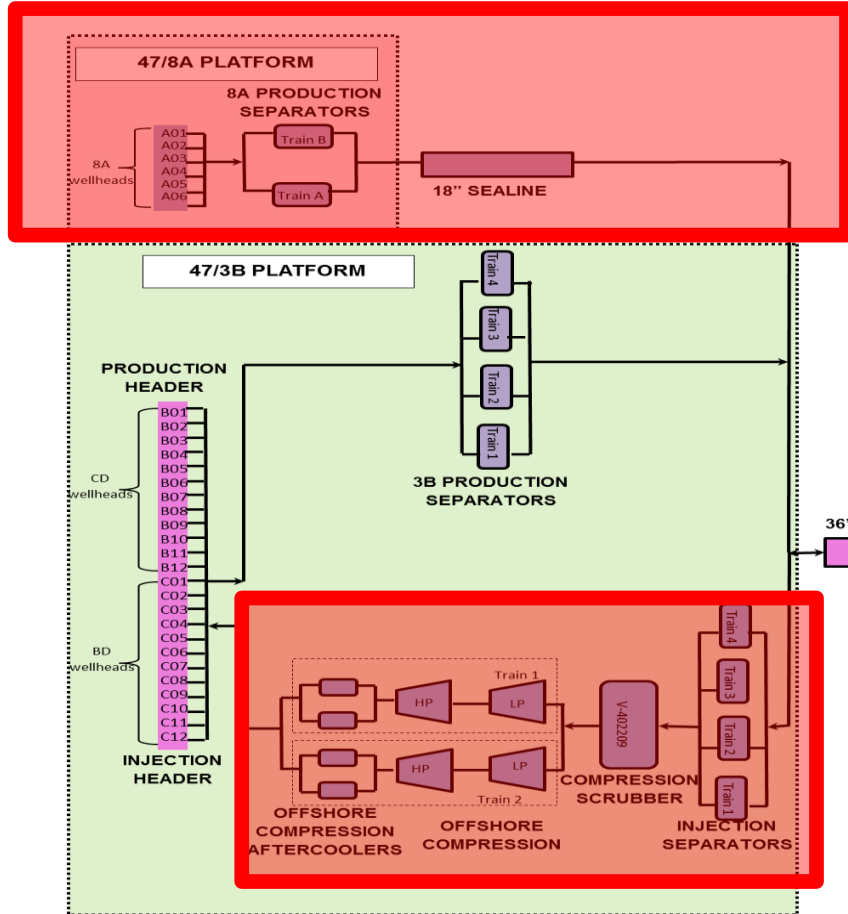
- Maximise Economic Recovery
  - Reduce Cost (Reduce footprint)
  - Seek third party business (Increase utilisation of spare capacity)
  - Optimise and enhance production from Rough (Increase utilisation of capacity)
  - Currently forecasting Rough economic cessation of production at end of 2022

# Footprint overview

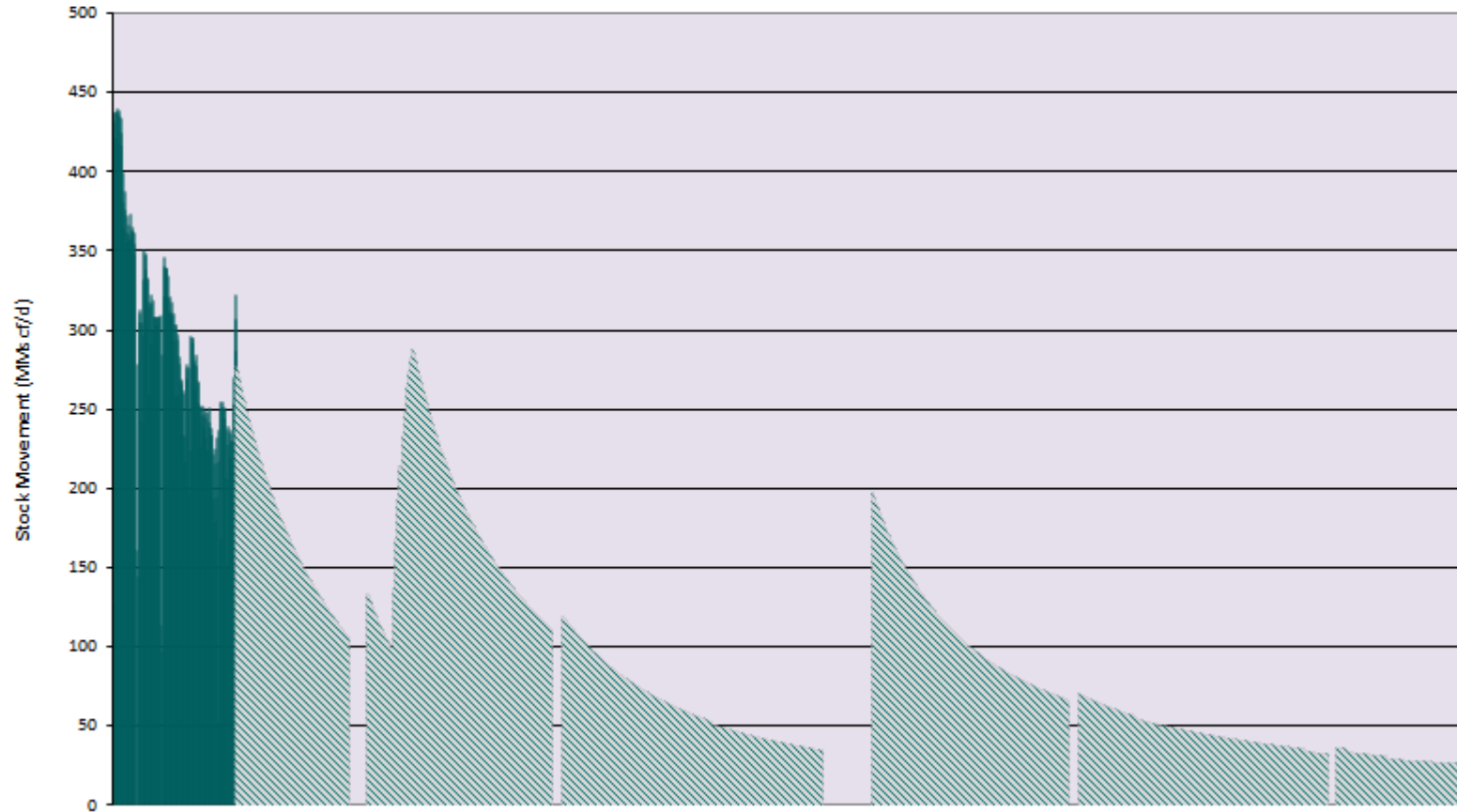




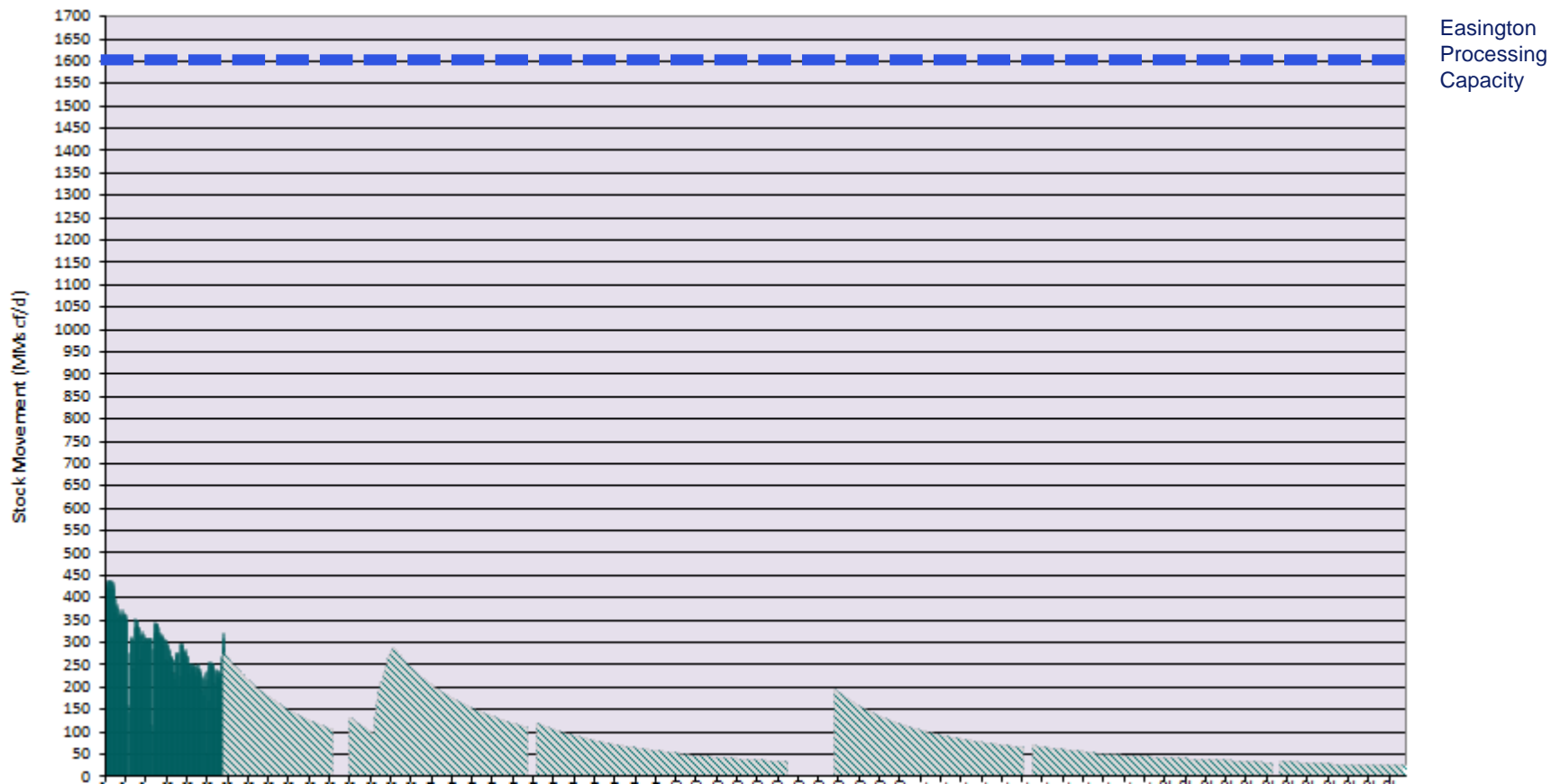
# Footprint Reduction and repurpose onshore compressor



# Capacity- Shape of Production



# Capacity- Shape of Production





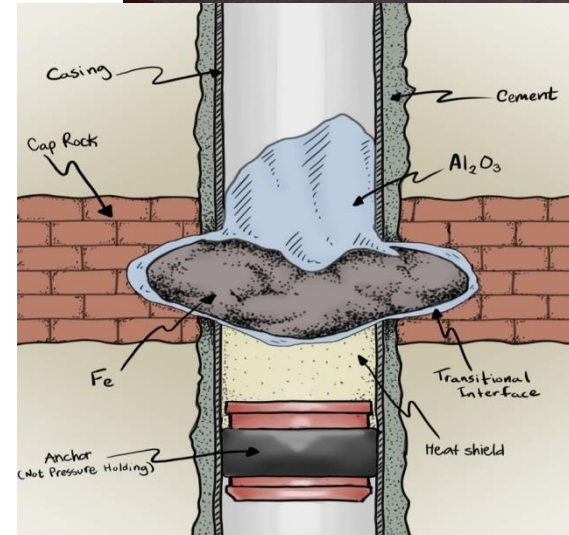
# Third Party Gas Processing and operating services

- CSL have a track record in third party gas processing and providing operating services
- Amethyst
- Langede Reception Facility
- York

CSL have recently been announced as onshore processing terminal for Tolmount field via Humber Gathering System

# New Technology- Thermite Well Abandonment @ Caythorpe

- Collaboration between CSL, Spirit Energy and Interwell to trial a new Thermite Abandonment Technology at CSL Caythorpe onshore site, supported and partially funded by the Oil and Gas Technology Centre
- Trial of Thermite Plug is being conducted in Caythorpe well 2 prior to it being permanently abandoned
- Exothermic reaction creates circa 3000°C heat input to melt wellbore components and surrounding rock, leaving a solid plug 2M in length in the well
- First trial in the UK
- Plug to be deployed during April and then performance monitored for 6 months



# Questions

