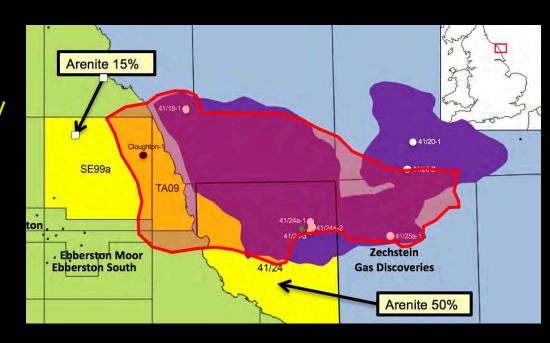


The Cleveland Dome Gasfield how a giant gasfield just got
bigger! An investment opportunity
to develop a proven field

Mike Cooper

Arenite Petroleum Limited



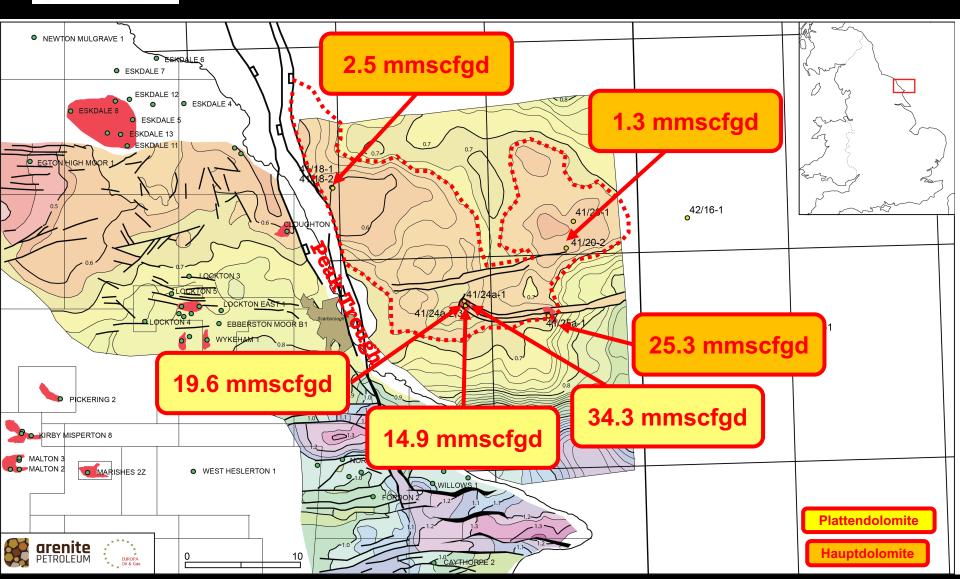
DEVEX 2017

Gordon Suite, AECC Aberdeen

16:05 - 16:25 hrs



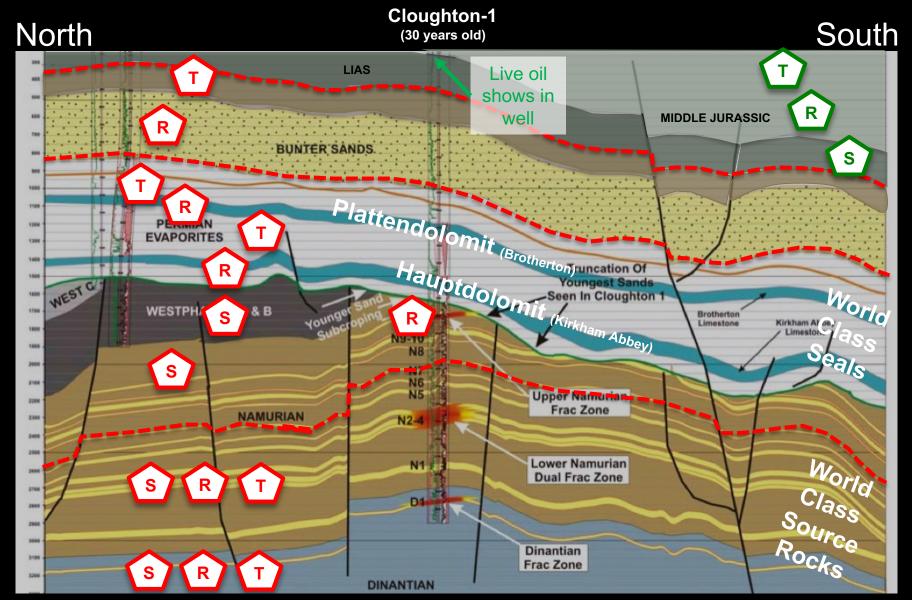
Maxwell Gasfield – 7 wells with Zechstein gas, 6 flowed on DST



Plattendolomite Time Structure Map (with Peak Trough)

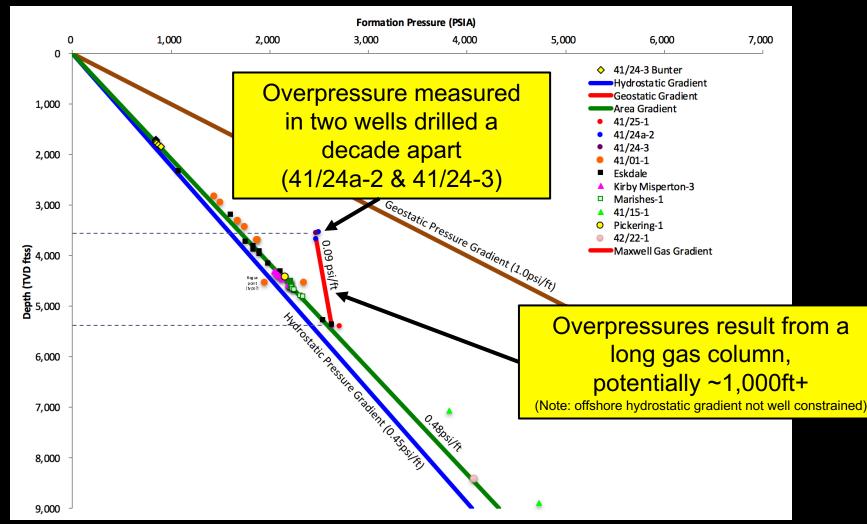


Cleveland Basin - Stacked Petroleum Systems





Evidence for a long gas column

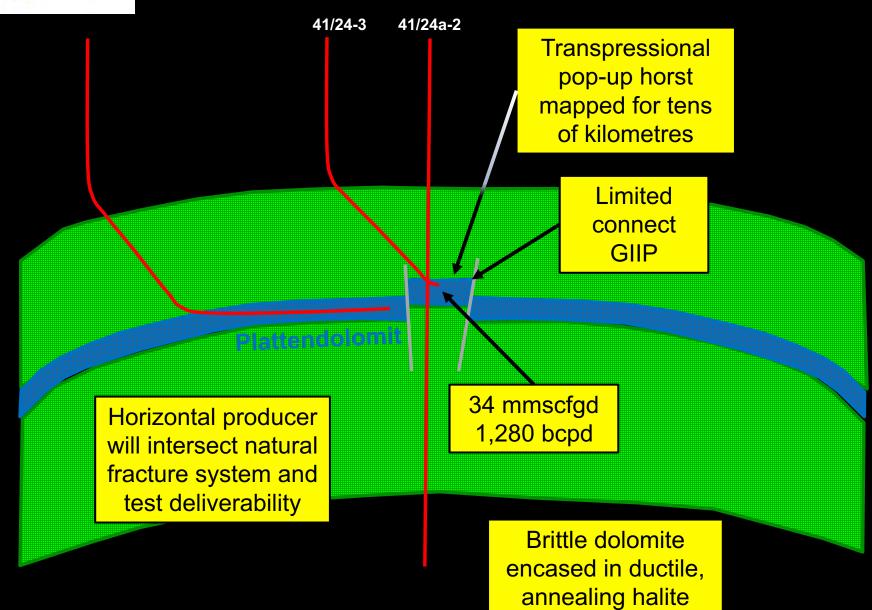


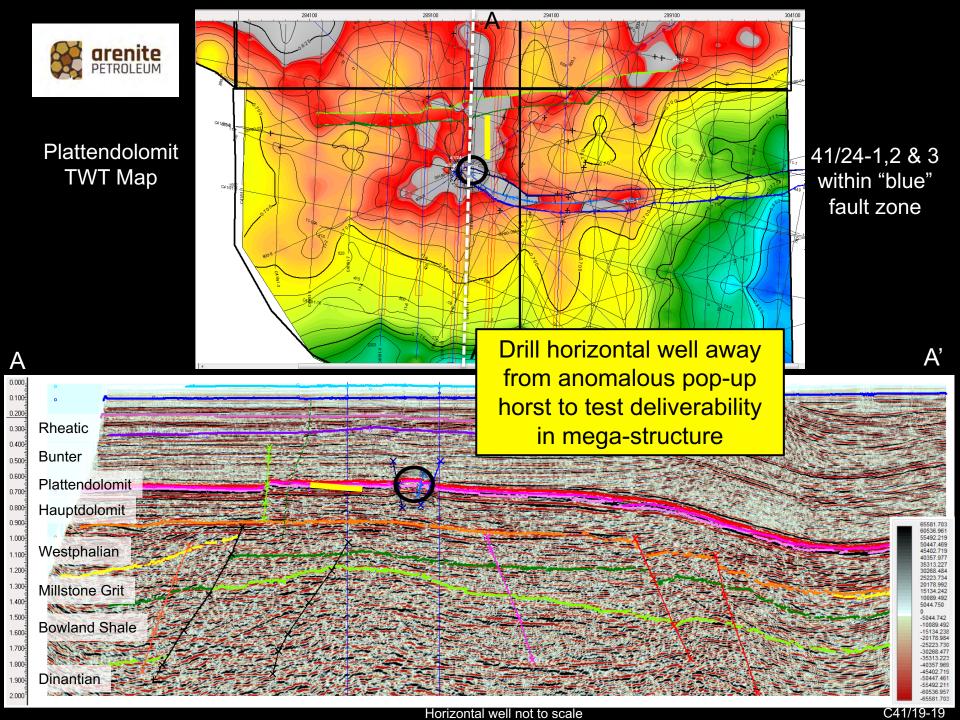
Most offshore well operations in the basin pre-date the RFT tool

Ryedale fields gas column heights in range 140-250ft, possibly up to 400ft if Malton stratigraphic trap is assumed



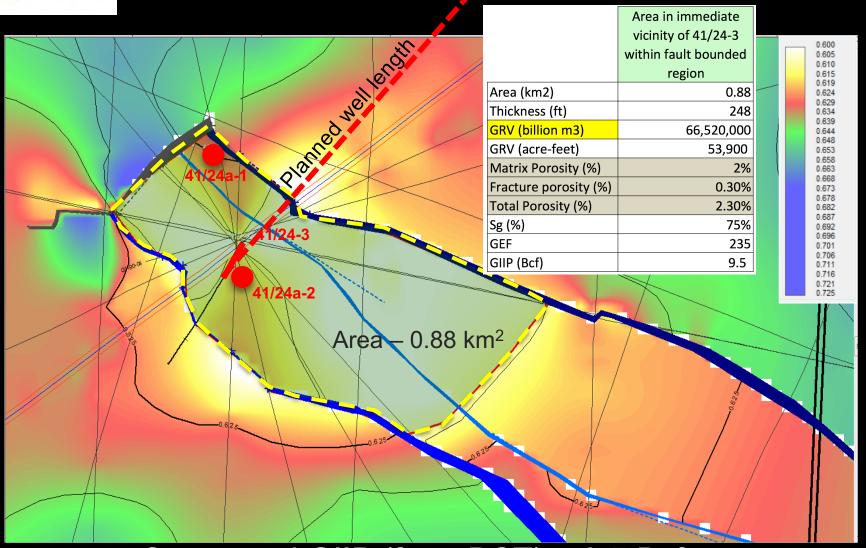
Geoseismic Conceptual Model







Plattendolomit TWT map showing 41/24-3 horizontal well



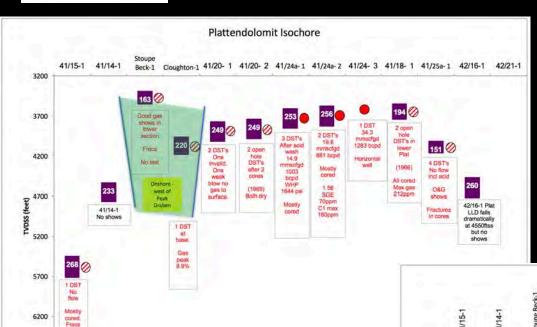
Connected GIIP (from DST) = 9.5 Bcf

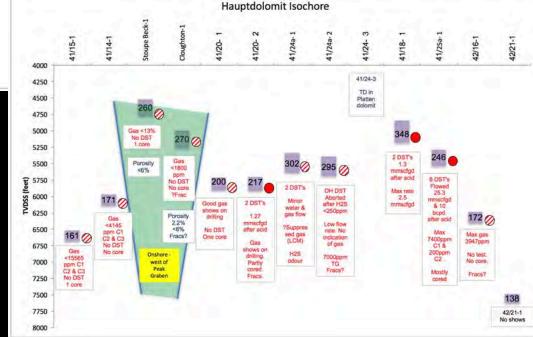
Conoco 1991 failed to reach TD (370ft of planned 3000ft)



6700

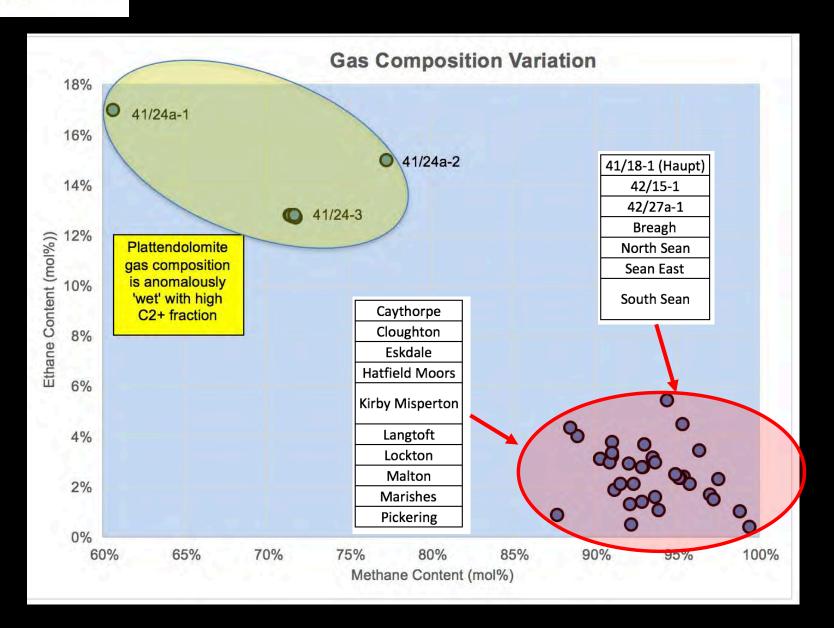
The Maxwell Gasfield – DST's & shows, all released wells





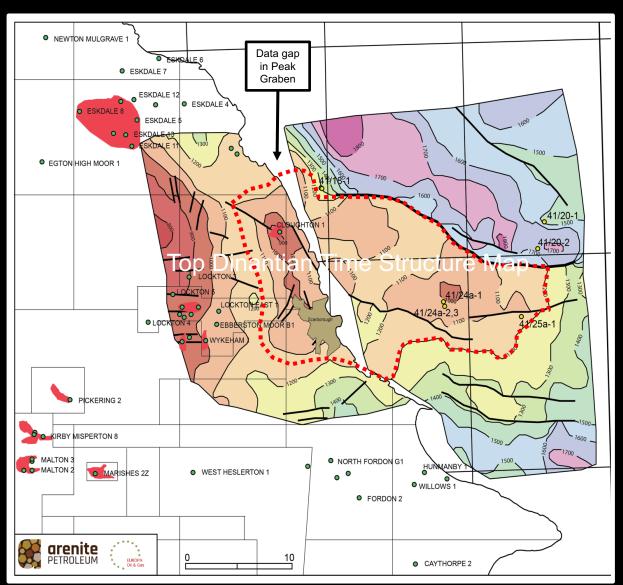


Maxwell Plattendolomite gas sourced from Zechstein?



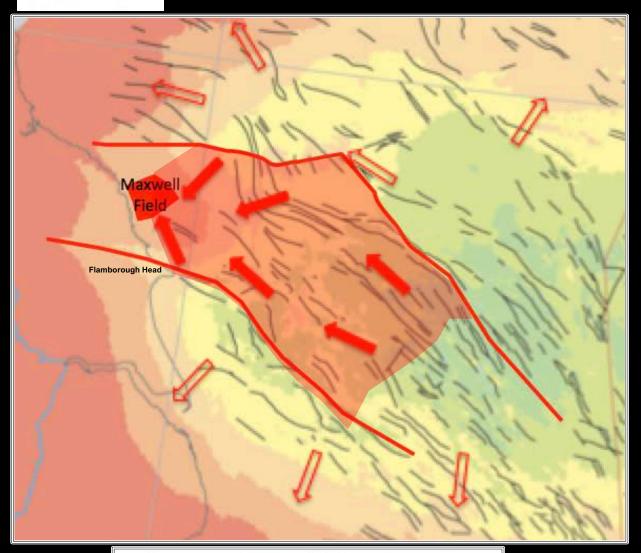


The Cleveland Dome Gasfield (Carboniferous)



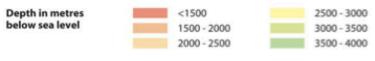


Enormous Carboniferous Gas Drainage Kitchen



A plunging nose and associated regional high since at least mid-Miocene.

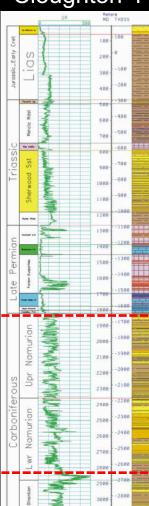
Drainage area is >1 UKCS Quadrant

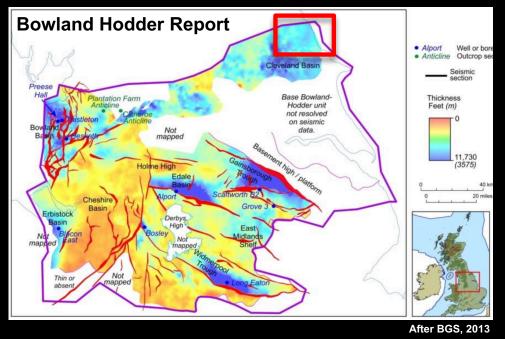




Mature shale & coal source rocks throughout

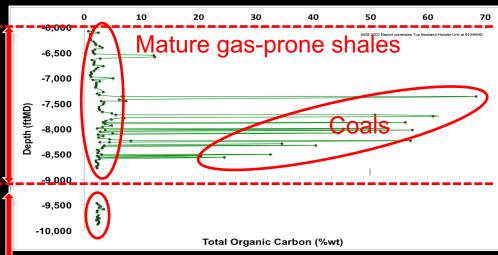
Cloughton-1





3,000ft Namurian Shales & Interbedded

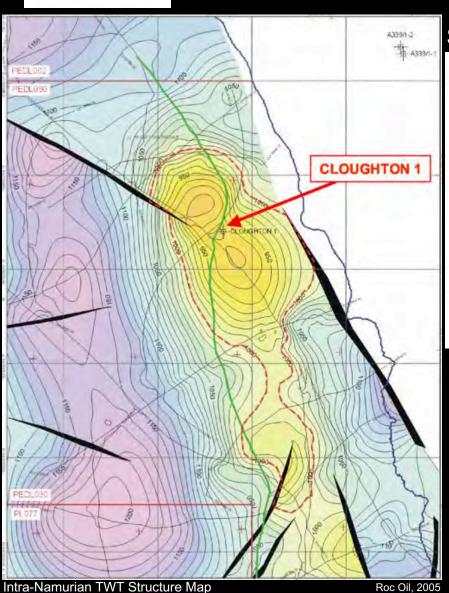
BGS Bowland-Hodder Report



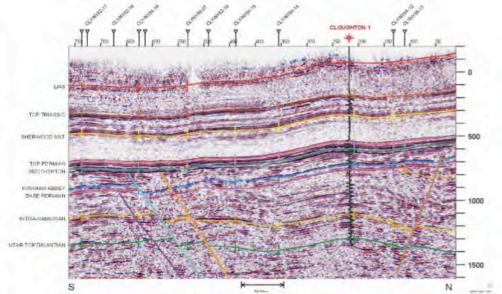
Base Carboniferous?



Cloughton-1



South North



Bow Valley, 1986 well

Tested 3 Carboniferous intervals –flowed at sub-economic rates.

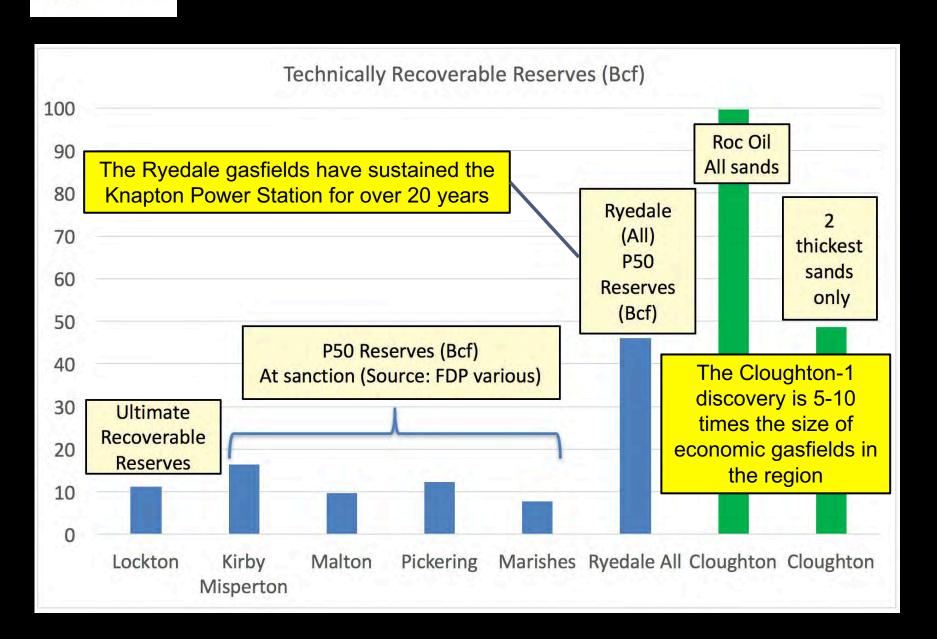
No stimulation carried out.

The entire section is gas-bearing.

>300ft vertical relief. 3000 acre closure

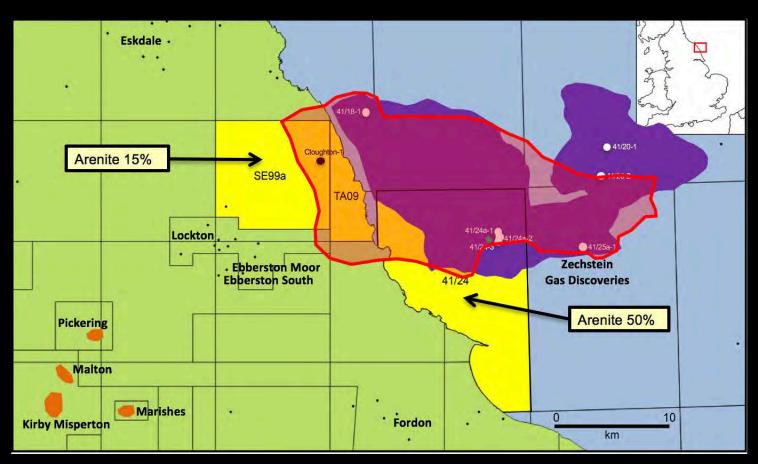


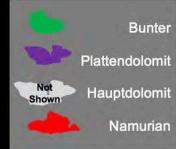
Cleveland Basin Economic Gasfield Size





Summary Map & Reserves Estimates





Plattendolomit Hauptdolomit Carboniferous 600 Bcf 220 - 420 Bcf

50 - 100

40+ Tcf GIIP

Bcf

(Cloughton, proven, conventional)
(No reserves estimated at this time)

- Two proven gasfields:
 - Maxwell Zechstein (conventional)
 - Cleveland Dome Carboniferous (unconventional)
- Seeking operator to progress appraisal & development.
- Next step: Acquire 3D seismic? Proof of concept well(s)
- Well results imminent:
 - e.g. Kirby Misperton, Ravenspurn Deep and other unconventional well tests



For further information on the Cleveland Dome & Maxwell gasfield opportunities:

info@arenitepetroleum.com