



The UK voice for onshore oil and gas exploration

National Geophysical Survey Seminar

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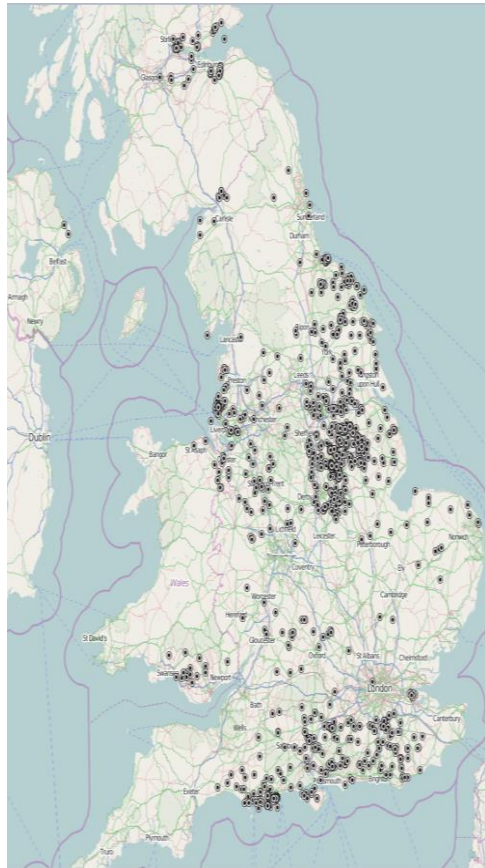
4th April 16

Take away points.....

- History
- Shale Potential
- 14th Round and seismic surveys
- Importance of sub-surface data



UK Onshore – building on history

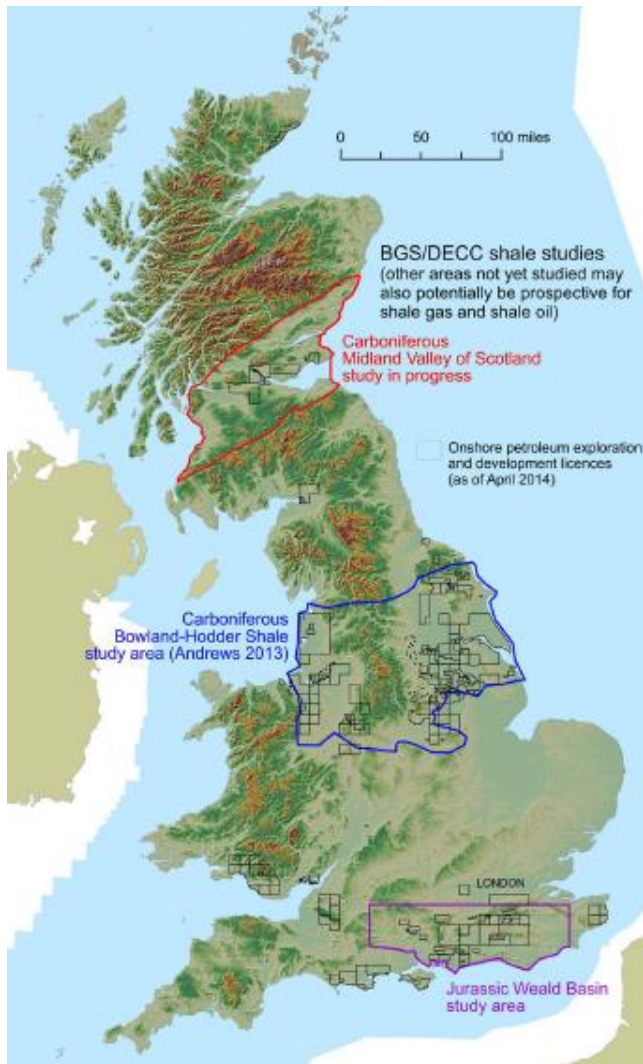


- First production from oil shales in Scotland in 1851
- First gas well 1896 Heathfield railway station in Sussex
- >2,100 wells drilled onshore
- Wytch Farm Largest onshore oilfield in Western Europe
- Sherwood Forest during WWII, 3.5 million barrels produced onshore during war
- Currently, 230 operating wells onshore
- 8 million barrels of oil equivalent per year – enough for 1 million cars



Onshore oil and gas industry has long history of operating safely in environmentally-sensitive sites and close to where people live

Shale gas potential: UK resources



British Geological Survey assessments

Study area	Shale gas resources (trillion cubic feet)	Shale oil resources (billion barrels)
Bowland	1,329.0	-
Weald	-	4.4
Midland Valley	80.3	6.0
TOTAL	1,409.3	10.4

10% of the shale gas resources equal to nearly 50 years of UK consumption

Onshore oil and gas: Licence areas

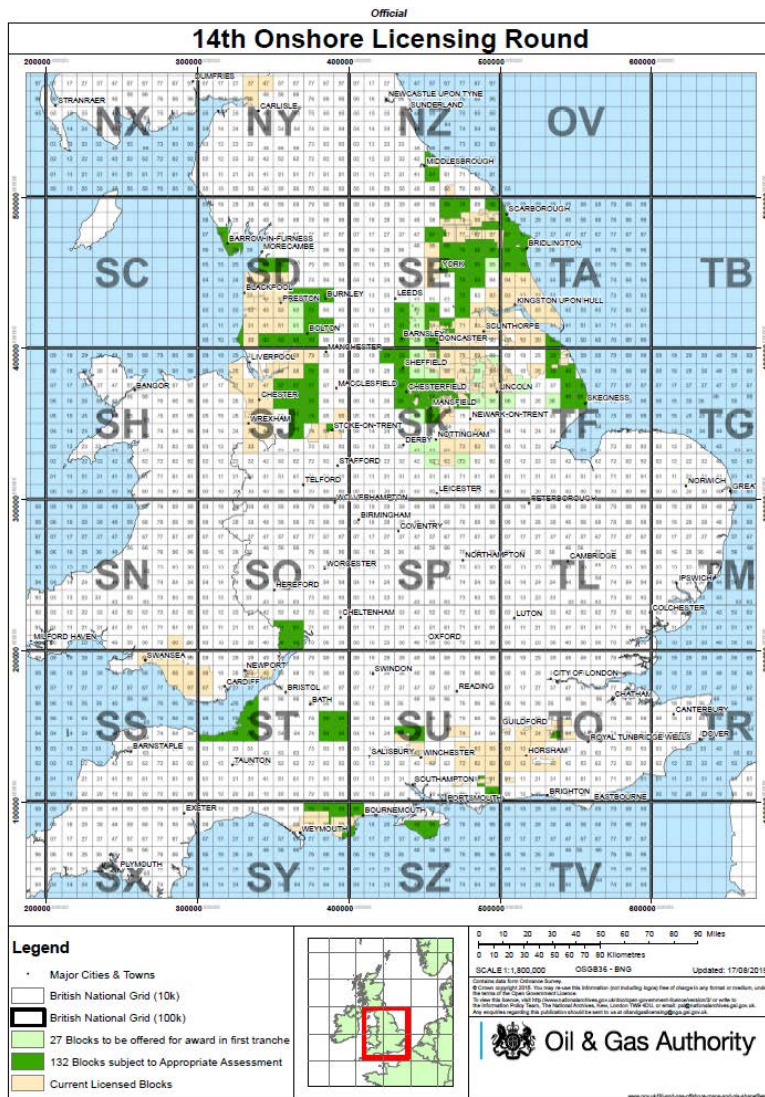
14th Round (conventional and shale)

Firm commitments

- 34 wells (vertical or deviated)
- 14 horizontals
- '2D' surveys in 47 Blocks
- '3D' surveys in 30 Blocks

Drill or Drop

- 58 wells



Importance of Subsurface Data

Why seismic surveying is important?

- **Pin points where drilling could take place; ...**
 - **shale thickness, faulting, and aids identification of confining layers of other types of rock.**
- **Identifies geological structures and obstacles to operations (Frac Consent from SoS and Env. permits).**
- **The US are now using this technology to good effect with increasing recovery rates**



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