

The regulatory framework for shale gas

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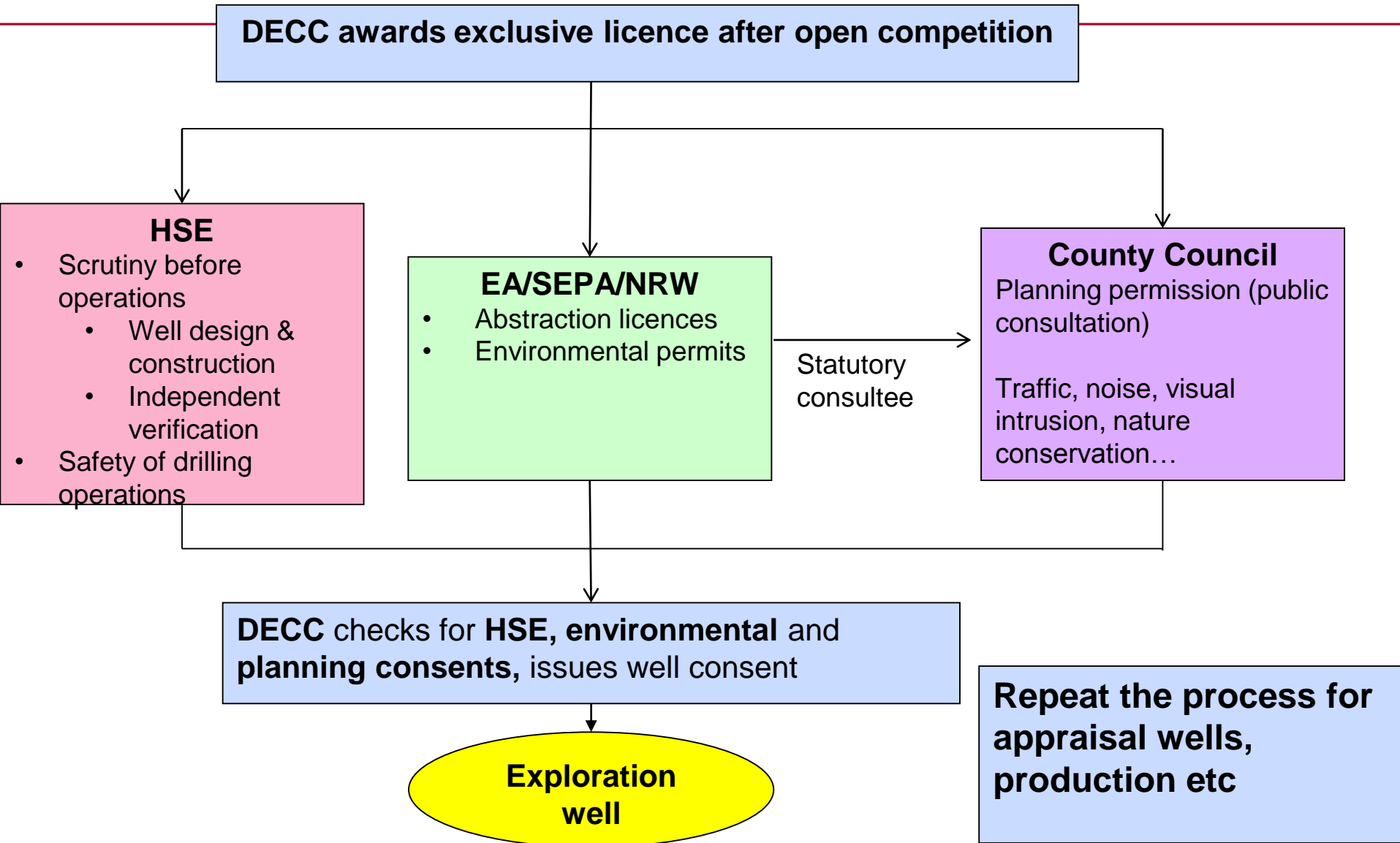
Health and Safety Policy – Shale Gas

Health & Safety Executive

Health and Safety Executive's role

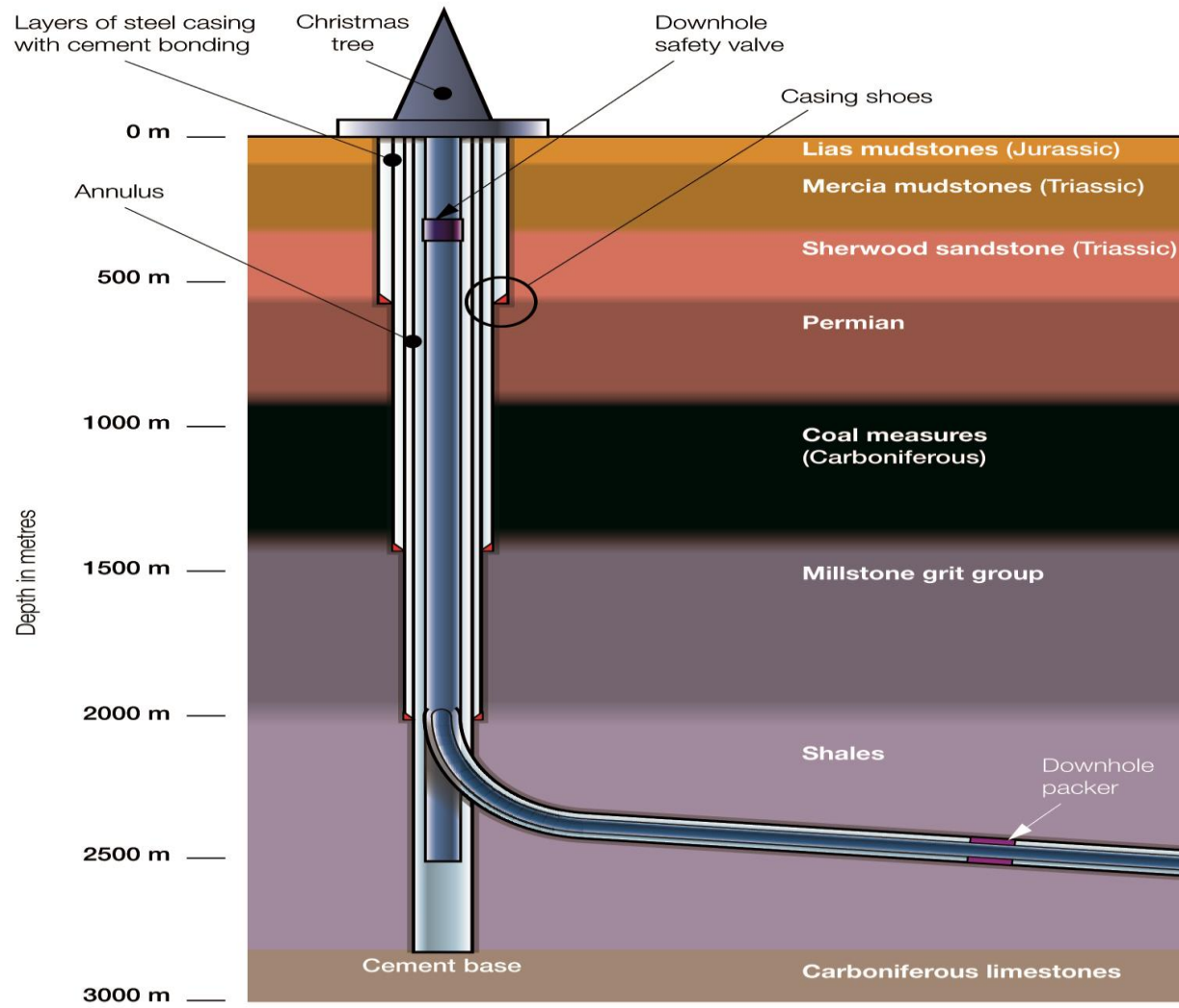


Regulatory landscape for unconventional gas



So what are the main hazards?

Diagram of typical shale gas well - testing phase (illustrative only)



The health and safety regulatory regime



How does HSE conduct interventions?



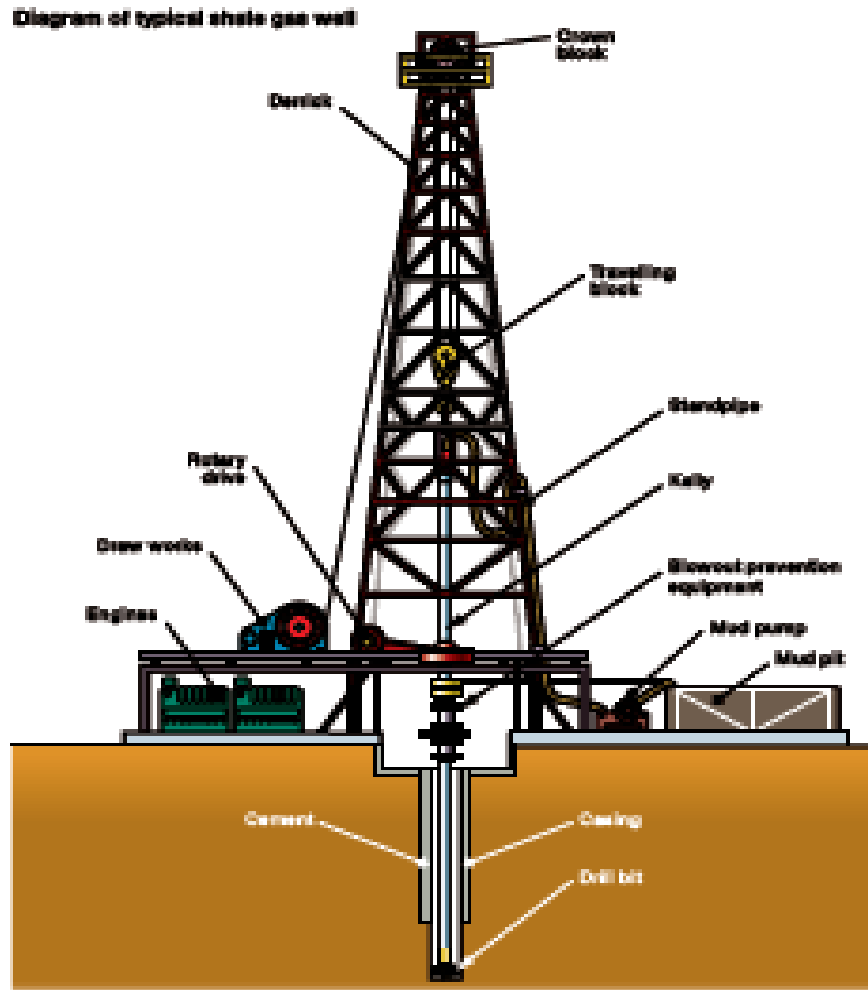
Industry standards

**Inspection activity –
wells and operators**

Lifecycle approach

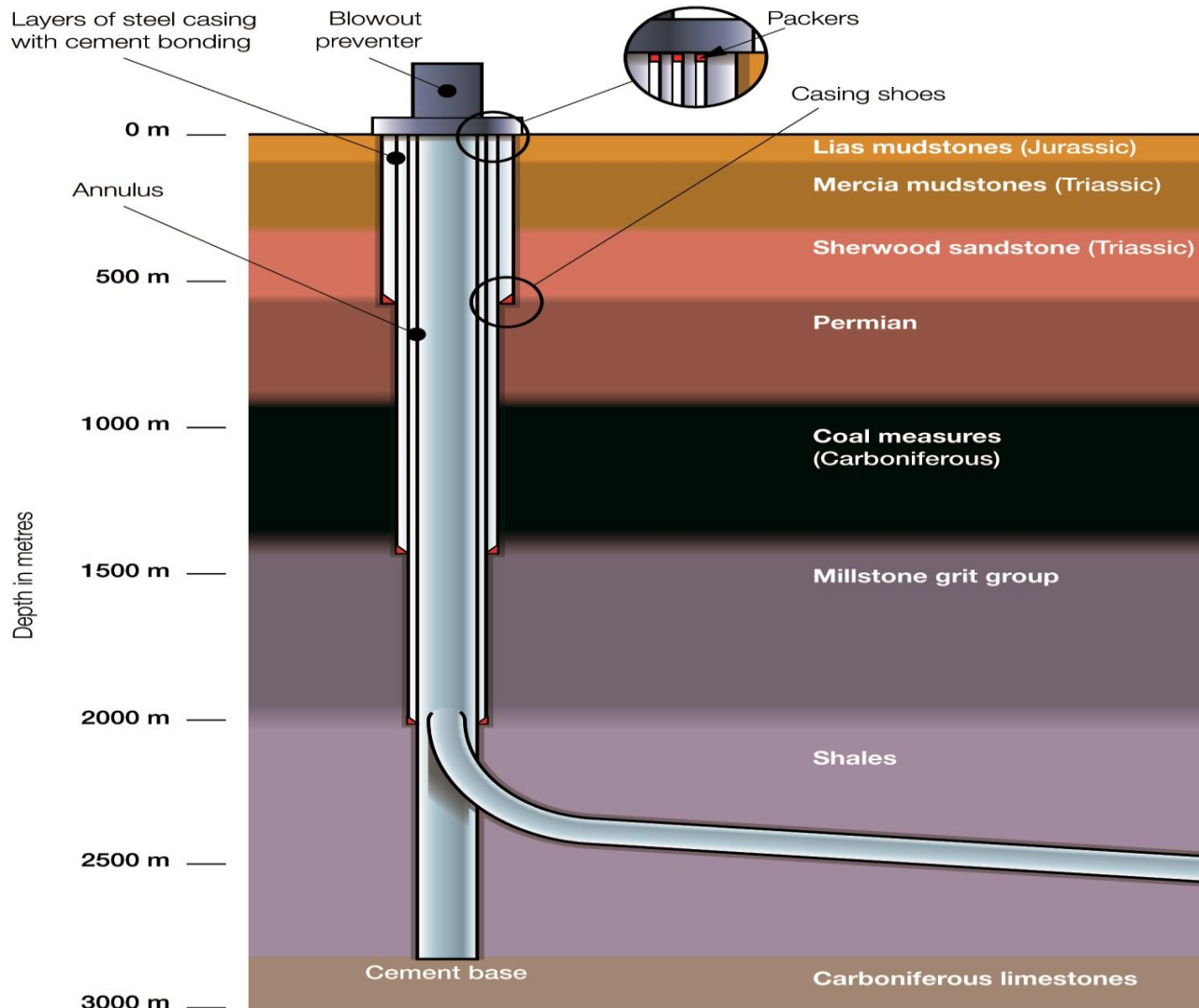
Joint Regulation

Designing the well - notification



Designing the well - notification

Diagram of typical shale gas well - construction phase (illustrative only)



Constructing the well - weekly report



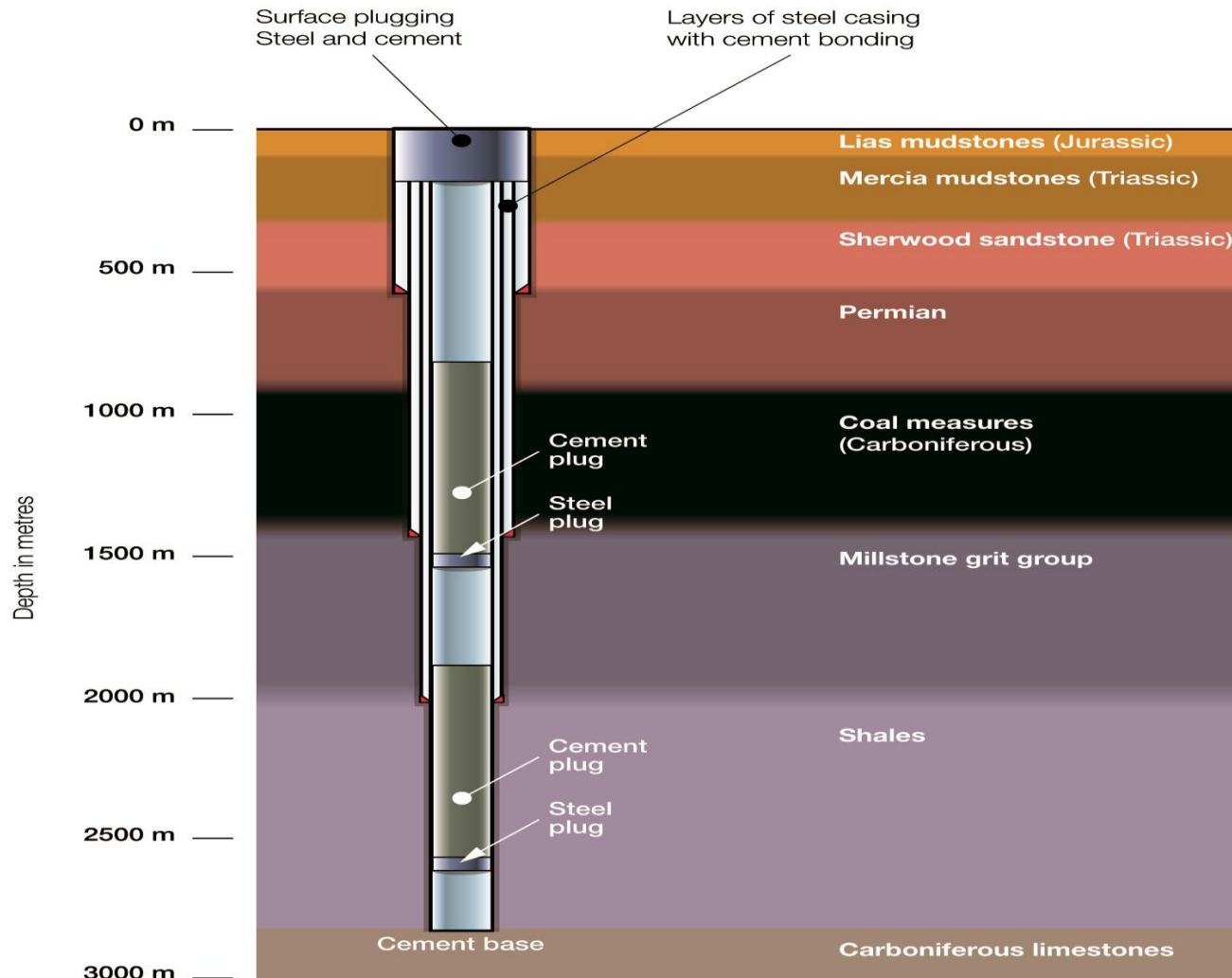
Details of:

- activity since the work started or since the last report,
- the diameter and depth of the borehole,
- the diameter and depth of the casing,
- drill fluid density

Purpose - to check against information in the notification and that the pressure in the well and the well's stability is as expected.

Decommissioning/ Abandonment

Diagram of typical shale gas well - abandonment (illustrative only)



The independent well examiner

- Important quality control for the industry
- Independent competent person
- Assess well design, construction and maintenance.
- Review the proposed and actual well operations to confirm they meet the operator's policies and procedures, comply with HSE's Regulations and follow good industry practice.
- HSE checks that the operator has these arrangements in place for the complete lifecycle of the well from design through to final plugging and decommissioning

Summary



- The health and safety regime
- How HSE regulates
- How HSE and other regulators work together
- Independent Well Examiner