History of Well Integrity

A History of Well Integrity in the Operations Phase and its Business Impacts to the Oil and Gas Industry

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In today’s webinar, we will cover these key areas:
This is where it all began....

- Spindletop 1901
- Well construction
Well integrity in the construction phase
What have the last 2 events got in common?

They occurred in the CONSTRUCTION PHASE. This presentation concerns the OPERATE PHASE.
Elgin/Franklin – HPHT leak to atmosphere
Onshore USA – Salt cavern blowout
Piper Alpha – UKNS – July 1988
What have these last 5 events got in common?

• They all occurred in OPERATING wells.

• Most people automatically think of Deepwater Horizon when blowouts are under discussion, and there is a huge difference -:
  • Construction phase – well has BOP’s, mud/kill fluid and reservoir pressure is NOT intentionally brought to the surface
  • Operate phase – well has Christmas tree and valves, and reservoir IS intentionally brought to the surface

• Today we will discuss well integrity in detail and gain a better understanding of well integrity in the operate phase and its history.
Well lifecycle and ownership

- Design & construction
- Well production
- Well intervention
- Well intervention
- Well Decommissioning

Well handover at various stages:
- 0 years
- 5 years
- 10 years
- 15 years
- 20 years
- 25 years
A History of Well Integrity

Source of 15 SCF/Min where does the leak rate come from?

15 SCF/Min. It is my understanding this originates from the ability of one man to put out a fire with a portable fire extinguisher.

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Questions & Answers

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