



CoThink
the motivactors

Context

On April the 20th 2010 the Deep Water Horizon encountered a blowout. The Blow Out Preventer should have prevented the following disaster but only partly worked. In this Event Map based on the US CSB animation we explain the chain of events.

Location

Macondo well in the Gulf of Mexico

Author

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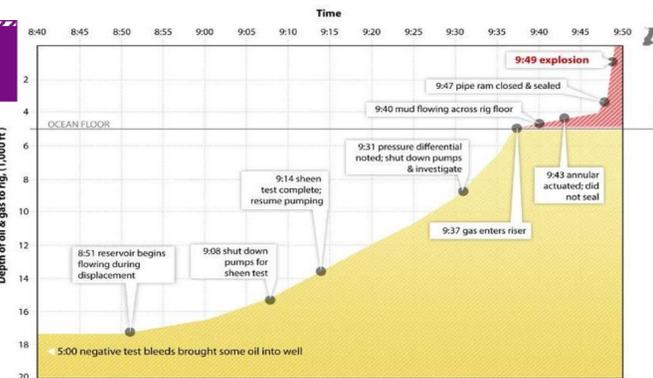
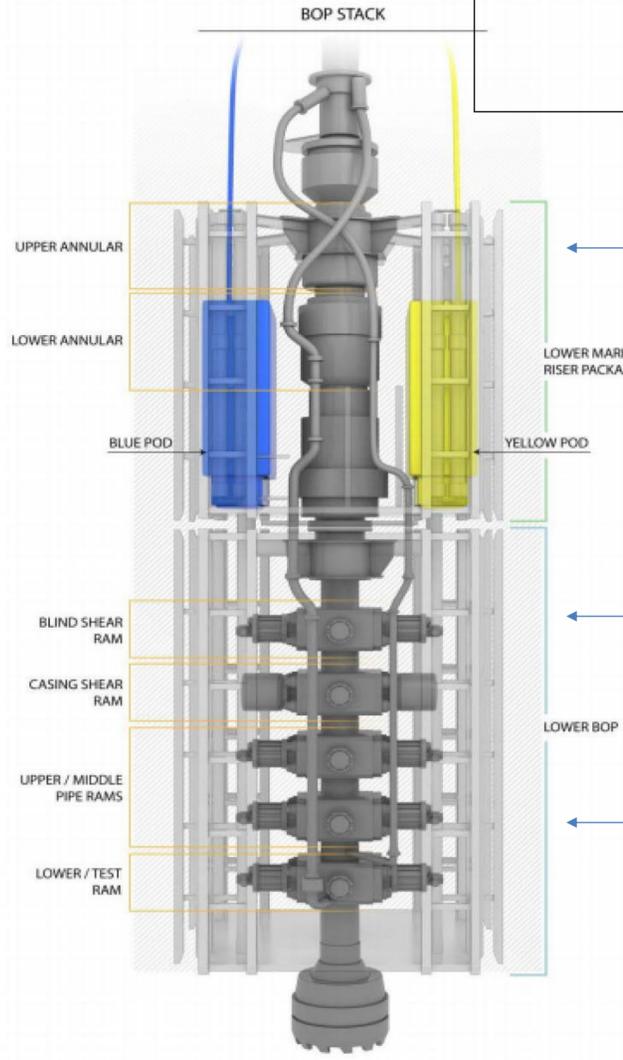
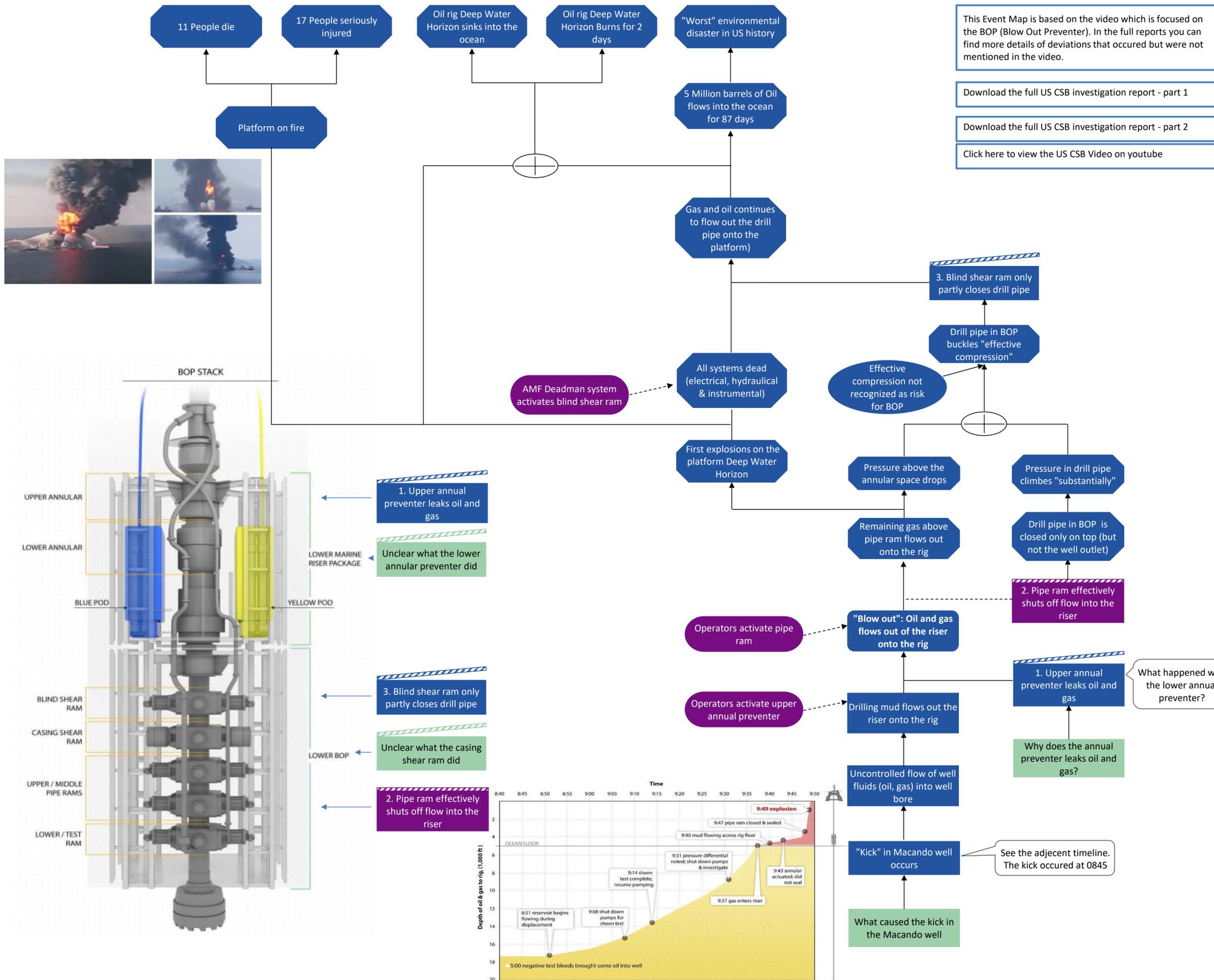
Date of last update

21-2-2018

Status description

The causes identified by the US CSB also apply to other BOP's in operation. The US CSB warned manufacturers of the risks of effective compression in drill pipes in BOP's.

CoThink Event Map: Blowout on Deep Water Horizon



This Event Map is based on the video which is focused on the BOP (Blow Out Preventer). In the full reports you can find more details of deviations that occurred but were not mentioned in the video.

[Download the full US CSB investigation report - part 1](#)

[Download the full US CSB investigation report - part 2](#)

[Click here to view the US CSB Video on youtube](#)

Legend

- Event (Blue hexagon)
- Effect (Blue rounded rectangle)
- Known cause (Blue rounded rectangle)
- AND (Circle with cross)
- OR (Circle with diagonal line)
- Contributing circumstance (Blue oval)
- Broken barrier (Blue hatched rectangle)
- Owner (Grey oval)
- Unknown cause (Green rounded rectangle)
- Analysed cause (Green rounded rectangle)
- Contributing circumstance (Green oval)
- Broken barrier (Green hatched rectangle)
- Possible action (Yellow rounded rectangle)
- Possible barrier (Yellow hatched rectangle)
- Chosen action (Yellow rounded rectangle)
- Chosen barrier (Yellow hatched rectangle)
- Implemented action (Red rounded rectangle)
- Implemented barrier (Red hatched rectangle)
- Proven action (Purple rounded rectangle)
- Proven barrier (Purple hatched rectangle)
- Additional info, question or action (Speech bubble)