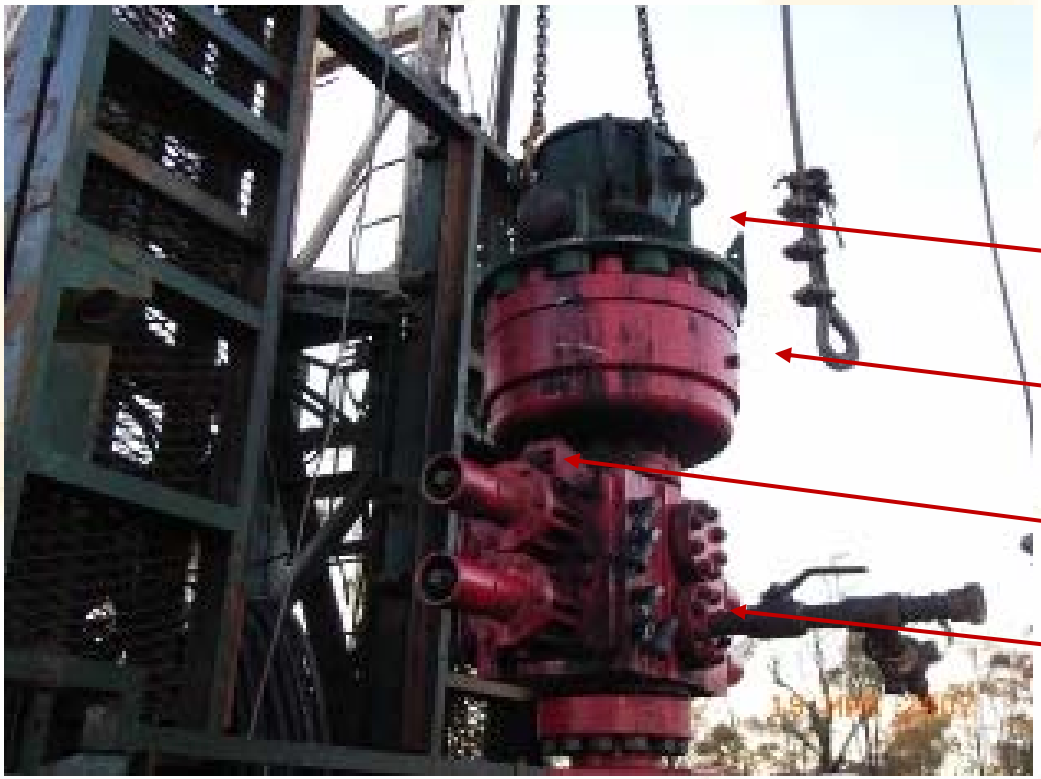
TDC 01 – BOP Toppling

- Close-up of lifting lugs



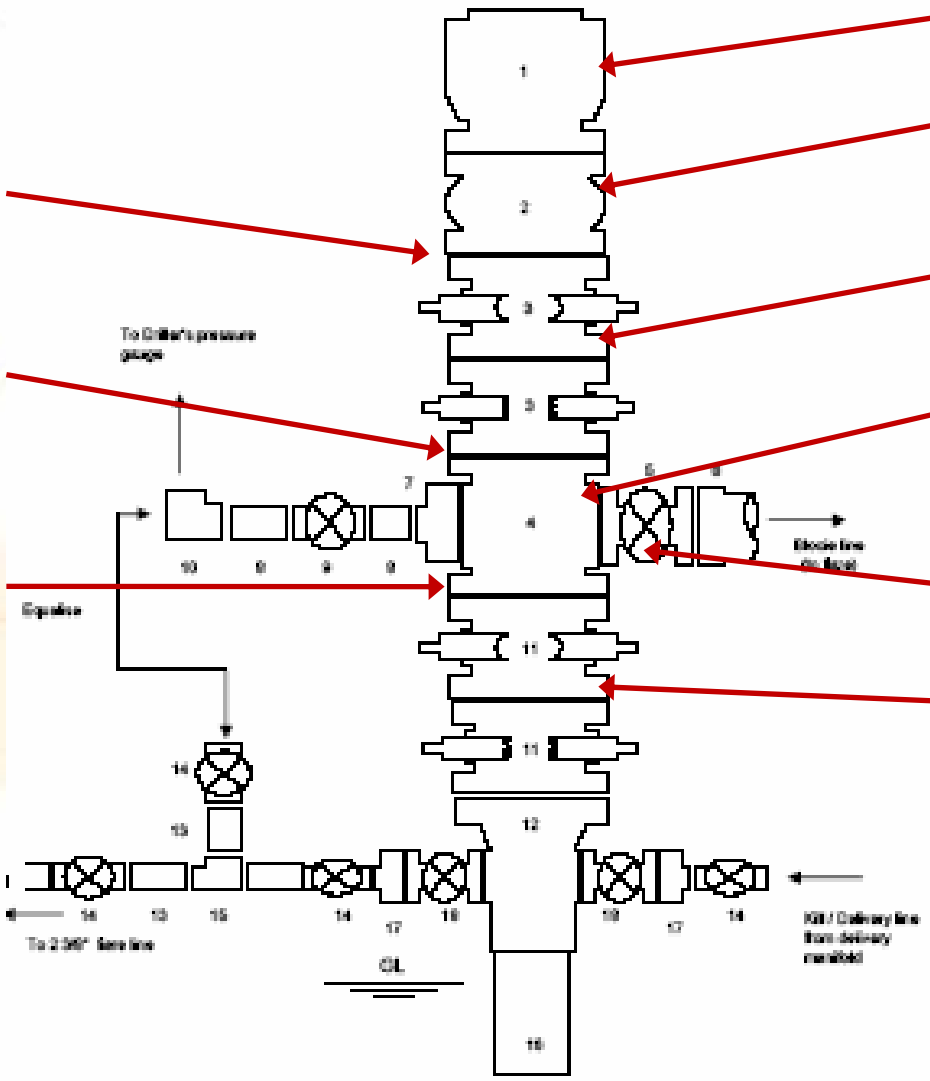
Rotating head

Annular BOP

Lifting Lugs

Double gate BOP

TDC 01 – BOP Toppling
CSG Cavitation Stack



Lift Lug

Incident Break Point

Normal Break Point

7.1/16” 3k Rotating Head

7.1/16” 5k Annular

7.1/16” 5k Double Gate

7.1/16” 5k Flow Cross

7.1/16” 5k HCR

7.1/16” 5k Double Gate

TDC 01 – BOP Toppling

Incident

- Incident occurred at 23:30hrs 18 March 2007 on Spring Gully 25
- The well had been cavitated, PCP Stator & tubing had been run and the BOP removed
- Due to an error in the downhole completion equipment the tubing had to be recovered
- To save time breaking down the BOP to the normal work-over configuration of annular and two rams, the top half of the cavitation BOP was utilised consisting of rotating head, annular and two rams
- Usually the cavitation BOP is broken **below** the 7” flow cross / HCR valve and has more weight below the lift point than above, in this case the HCR valve was not required so the BOP was broken **above** the 7” flow cross / HCR

Origin energy

TDC 01 – BOP Toppling

Incident

- The usual lifting pad eyes were used to pick up the top half BOP
- The BOP toppled over due to the weight of the rotating head causing the BOP to become top heavy
- Fortunately no-one was injured and no equipment damaged occurred

TDC 01 – BOP Toppling

Investigation

- A JSA was done the night before for the removal of the complete cavitation stack
- There was no SOP or JSA for the installation of the top half cavitation BOP
- No-one identified the issue of incorrect weight distribution on the usual lifting pad eyes
- The rotating head has lifting eyes on the top however there was no record of safe load limits

TDC 01 – BOP Toppling

Outcomes

- Crew was debriefed on the incident at crew change (midnight)
- Crew was advised to stop work if any practice is unsafe and the requirement for JSA's when circumstances or plans change was reinforced
- Field safety advisor spent 2 days on rig providing JSA training
- SOP for rig up / rig down of cavitation stack revised and reviewed every time
- Lifting eyes on rotating head found to be certified for lifting the head only

Origin energy