BLOWOUT CONTINGENCY STUDY

ASSET: Offshore Shallow Gas Well
PROJECT REQUEST: A blowout-contingency study for an offshore shallow gas well
PROJECT GOAL: To permit the killing of a well with a single relief well without sacrificing the size of the completion bore

WHAT WE DID
Add Energy’s well-control and flow-simulation specialist modelled the worst-case-blwout scenario using the planned wellbore schematic and predicted reservoir properties.

A single relief well with the Relief Well Injection Spool (RWIS) installed on its wellhead was used in the simulations to pump kill mud into the target wellbore. Several iterations were made using different kill muds and hardware configurations to achieve a successful kill.

RESULTS
The study demonstrated that a prolific worst-case blowout scenario could in this case, be killed with a single relief well using the RWIS due to a significant increase in kill mud pumping capacity.

INCREASED KILL MUD INJECTION RATES BY 260%
REDUCED REQUIRED RIGS FROM 4 to 2
REDUCED REQUIRED INTERCEPTS FROM 4 to 1

Add Energy and Trendsetter Engineering have combined expertise to provide market leading engineering and hardware support services to the industry’s most challenging problems in a nimble and responsive environment.

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