
Incident Review



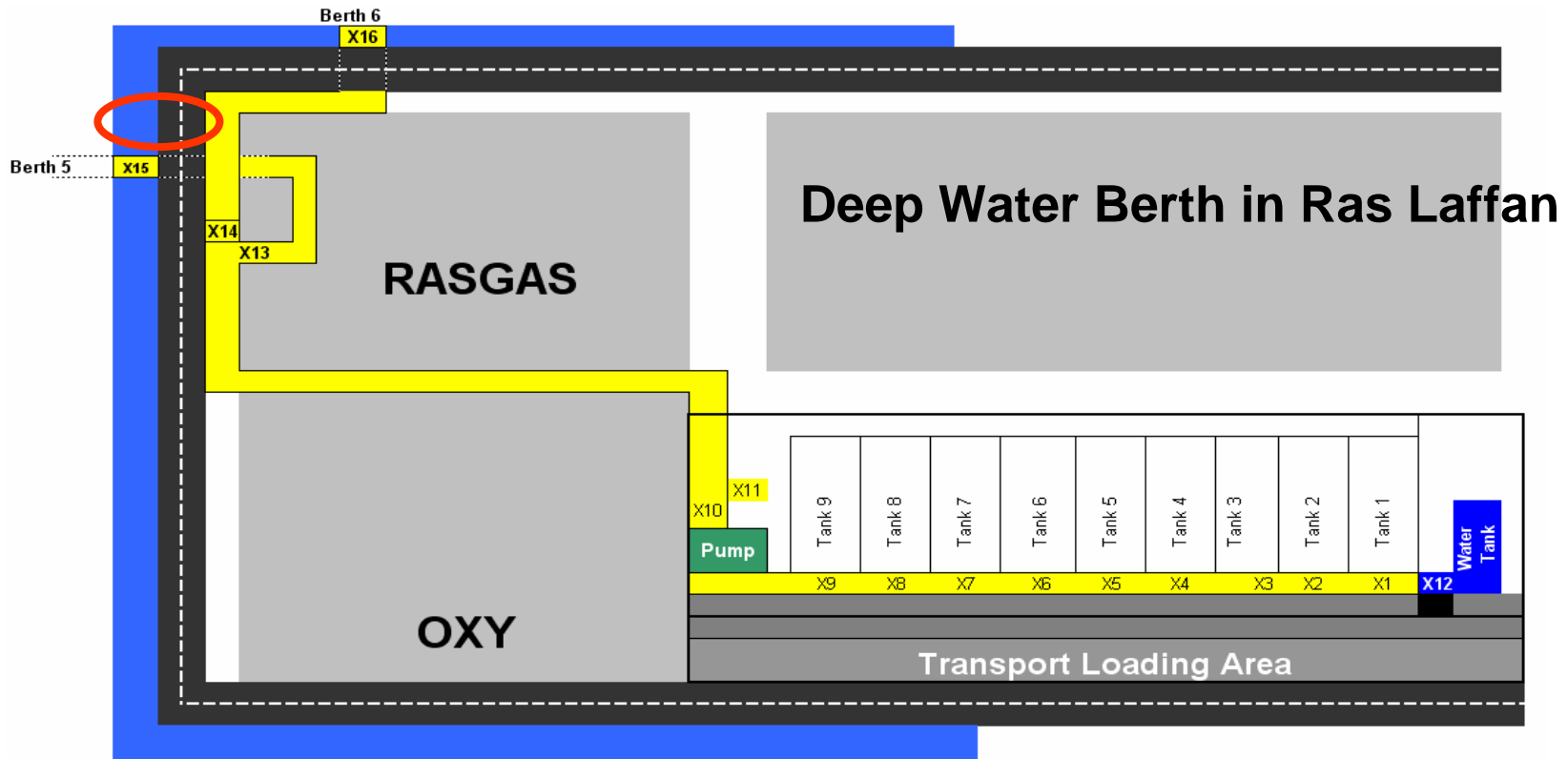
Agenda

- Incident Location
- Incident Description
- Incident Investigation
- Causes
- Action Items

Incident Location



Acid Spill while loading



Incident



QHSE

just live it



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Immediate Cause



- Did not follow agreed job procedure
- Using equipment improperly
- Personnel too close to acid line

Root Cause



- Inadequate Leadership/Supervision, giving inadequate procedure
- Lack of knowledge / lack of experience, applying duct- tape on king nipple
- Inadequate Leadership/Supervision, Inadequate identification and evaluation of loss exposure



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Loss of Control



Management System Element

- Business Processes – Acid Transfer Procedure
- Risk Management Process
Better utilization of HARC + JSA

Action Items



- JSA to be modified, attendants to be listed and signatures required, ✓
- Acid loading procedure to include no valve operation with pump running ✓
- Only one hose to be used to connect acid plant with vessel. Acid Transfer Hose to be of integral design ✓
- Incident review on both stimulation vessels ✓
- No other operation while loading acid ✓
- Tech Alert (King Nipple) to be placed on both vessels ✓