

Precaution related to vessel-operations at Deepsea Nordkapp on NO7322/6-1 S, Shenzhou, PL722

General precautions when drilling intervals with risk of H2S

As a precaution when drilling intervals with risk of H2S gas, DPO shall notify the vessels at standby to be located upwind from the rig, as H2S will be spread over a large area in the event of ventilation thru derrick vent line.

Cargo operations when drilling intervals with risk of H2S

Before vessels go inside the 500m safety zone, a risk evaluation shall be performed.

The risk evaluation shall consider the following criteria:

- Ongoing drilling operation and risk of gas during the planned cargo operation.
- Cargo operations shall not be executed when:
 - o Circulating H2S
 - o Detection of H2S at the surface/installation.
- Wind direction, wind speed and forecast in the timespan for the cargo operation.
- Possibility to adjust rig heading, to make wind more favorable for the vessel.
- If hose/bulk transfer, consider which side is optimum for the vessel with regards to gas exposure.

The risk evaluation to be performed by DPO in corporation with SSL/OIM. The result of the evaluation to be communicated and discussed with the vessel before entering the 500m zone.

Monitoring during cargo operations

During cargo operations, DPO will monitor the weather conditions and communicate with the driller in regards to change of operation and risk of H₂S gas. If any changes to the initial risk evaluation, DPO will notify crane operator and vessel. Together they will evaluate the risk or which risk reduction measures to implement before proceeding.

Indication of gas at vessel

If indication of gas at a vessel during cargo operations, the vessel shall notify the Deepsea Nordkapp bridge immediately. Ongoing cargo operation to be aborted, vessel to move away from the unit.

Plume from Gas dispersion Study and distance from the rig (x-axis in meters):

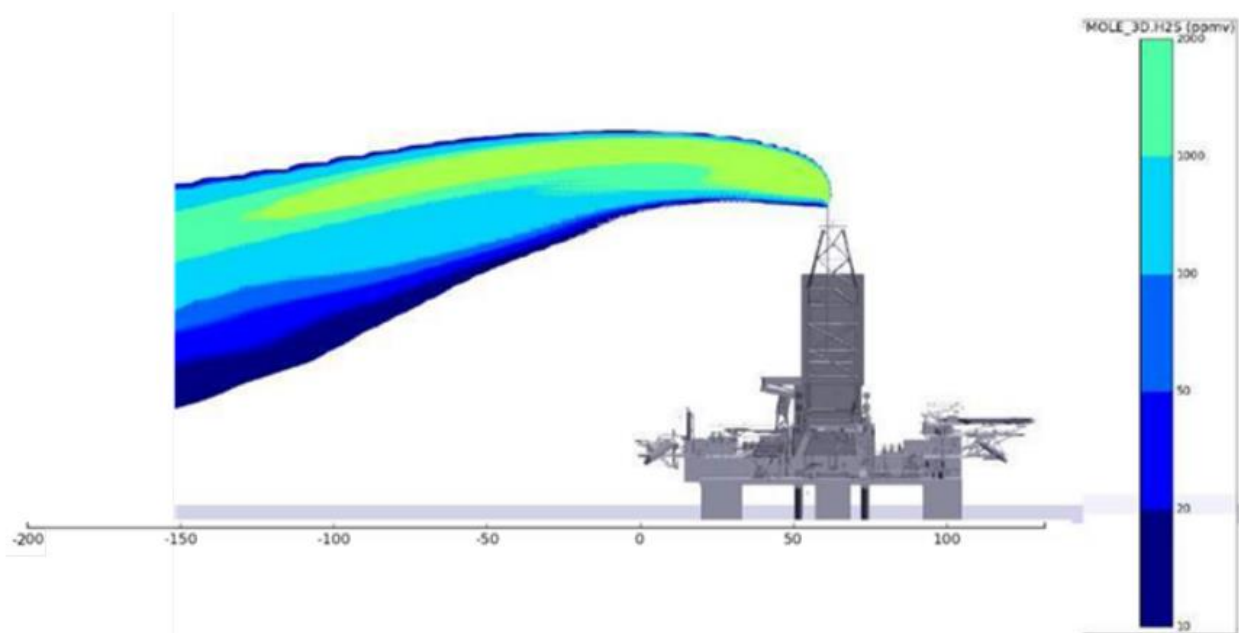


Figure 6-6 – Plume of H₂S with 5 °C release during 1 m/s