

# Safety Alert Dropped Object – Mud Hose Lifting Collar Insert

## Event description

A new mud (Kelly) hose was installed in the derrick during SPS. During the yardstay multiple DROPS inspections were performed in the derrick by rig crew & a 3<sup>rd</sup> Party rope access team. The rig sailed to location & completed 3 off 17-1/2" top hole sections. During drilling top hole sections multiple DROPS inspections were performed by the rig crew. On commencement of casing running in the first hole, one half of the hose lifting collar insert (ref Fig 2) detached from the hose end connected to the topdrive & fell to drill floor landing within the red zone.

Insert weight = 3.1kg      Drop height = 16m      Energy = 486J

## Identified causes

When the new hose was connected to the top drive, the lifting collar inserts remained attached to the hose end on the top drive. The hose had been in storage for 5 years with the lifting collar assembly attached.

The new hose was a different design. All personnel (rig crew & 3<sup>rd</sup> party rope access team) involved in installation of the new hose & performing DROPS inspections, believed the attached lifting collar inserts were an integral metal collar (ref Fig 1). The new hose design (ref Fig 3) incorporated a space between the hose end & the coupling for installation of the lifting collar inserts.

Removal of the old mud hose & installation of the new hose was performed by multiple parties. The rig crew were not involved with removal of the lifting collar & therefore did not appreciate the assembly comprised of 4 component parts.

## Recommended actions

- Equipment pre-installation inspection to identify design changes.
- Identify single discipline responsible for quality control of full scope of work.
- Raise awareness within industry on this event resulting from hose end connection design.



Fig 1

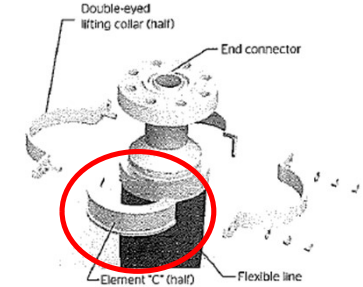


Fig. 16 Lifting the line from the crate using the lifting collar

Fig 2

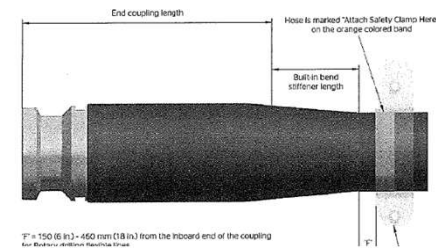


Fig 3

LINE OF FIRE



Keep yourself and others out of the line of fire

Installation	COSLPioneer
Date	03 April 2023
Reference	Synergi No : 256826