

Safety

ALERT

Dropped Object – Mud Hose Lifting Collar Insert

Alert 24-8

WHAT HAPPENED:

A new mud (Kelly, Rotary) hose assembly was installed in the derrick during Special Periodic Survey (SPS). During the yard stay multiple Dropped Object Prevention Scheme (DROPS) inspections were performed in the derrick by rig crew & a 3rd Party rope access team. The rig sailed to location and completed three off 17-1/2" top hole sections. During drilling of the 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 assembly end connected to the top drive and fell to drill floor landing within the red zone.

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

CONTRIBUTING FACTORS:

When the new hose assembly was connected to the top drive, the lifting collar inserts remained attached to the hose end nearest the top drive. The hose assembly had been in storage for 5 years with the lifting collar assembly attached. The new hose assembly was a different design. All personnel (rig crew and 3rd party rope access team) involved in installation of the new hose assembly and performing DROPS inspections, believed the attached lifting collar inserts were an integral metal collar. The new hose design incorporated a space between the hose end and the coupling for installation of the lifting collar inserts. Removal of the old mud hose assembly and installation of the new hose assembly was performed by multiple parties. The rig crew were not involved with removal of the lifting collar and therefore did not recognize the lifting collar assembly comprised of 4 component parts.



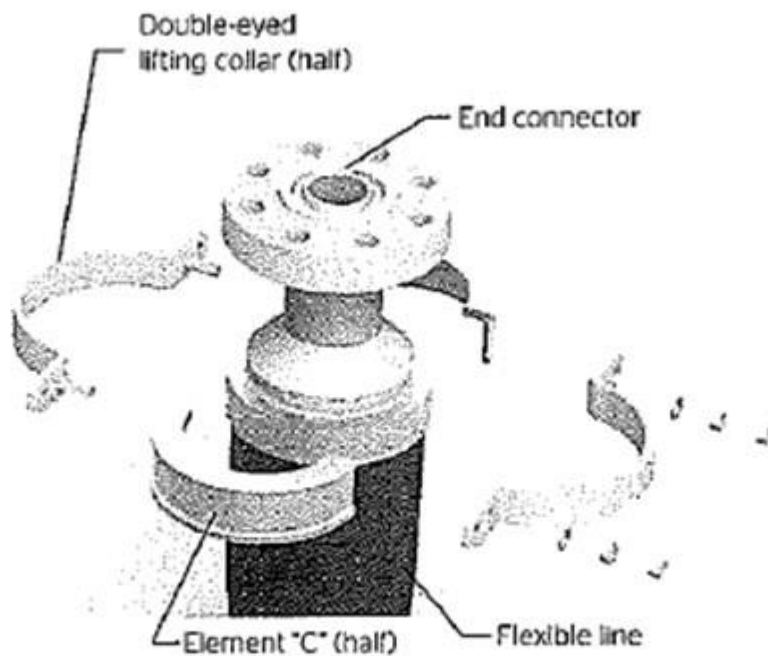
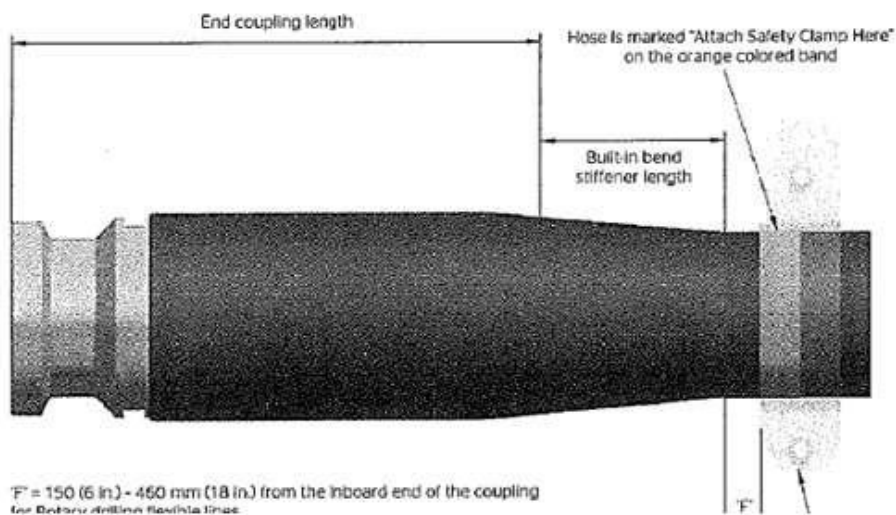


Fig. 16 Lifting the line from the crate using the lifting collar



LESSONS LEARNED:

- 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.