

## What Happened

- A 10lb sledgehammer was dropped approximately 40ft to the rig floor. The area was barriered off and controlled therefore no personnel were on the rig floor at the time.

## Why It Happened

- A roughneck was using the sledge hammer to loosen the cement hose connection from the side entry sub. Once this was completed the roughneck lowered the sledge hammer to hang from his lanyard and the tool dropped to the rig floor.
- On closer examination it was evident that the Tools-Aloft kit had been supplemented with rig manufactured lanyards. The lower karabiner is normally attached directly to the cable, in this case a spring ring was used to connect the components. The spring ring failed when subjected to the weight of the hammer.

## Actions Taken

- Checked Tools-Aloft safety equipment inventory and removed rig manufactured / modified items from inventory.
- Incorporated inspection of Tools-Aloft equipment into routine weekly derrick inspection checklist process, to ensure long term mitigation.
- Segregated lanyards for light weight Tools-Aloft equipment and heavier weight equipment.

## Lessons Learned

- All sites advised to consider implementing the above actions.

**Details of failed equipment**

