



# Safety Alert

From the International Association of Drilling Contractors

ALERT 04 – 27

## DROPPED OBJECT – AIR TUGGER HOOK

### WHAT HAPPENED:

The hook from the tubular pull back tigger in the derrick fell to the drill floor while tripping out of the hole. The tigger hook was of a design with a clevis pin through the hook attachment eyes held in place by a cotter pin. The cotter pin had been installed prior to the start of the trip out of the hole. It is assumed that the pin was defective and came away; allowing the clevis pin to back out of the chain loops and allowing the tigger hook to fall to the drill floor. The weight of the hook was approximately 7ozs (210gms) and fell from a height of approximately 90 feet (28m).

### WHAT CAUSED IT:

1. Design of the hook attachment eyes requiring use of the clevis pin secured by a cotter pin.
2. Visual inspection only conducted prior to use – not physical inspection.

### CORRECTIVE ACTIONS: To address this incident, this company did the following:

1. Replaced hook arrangement with new design featuring improved safety features. (see photos). New design has clevis pin through the hook attachment eyes. The securing roll pin can only be inserted from one side and has no external surfaces exposed to possible interference. Removal of the attachment pin can only be achieved by first driving out the roll pin and then driving out the clevis pin.
2. Update JSA to include physical inspection of equipment prior to use.

#### Old Style Hook:



#### New Style Hook to be used:



**The Corrective Actions stated in this alert are one company's attempts to address the incident, and do not necessarily reflect the position of IADC or the IADC HSE Committee.**

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