

DROPPED OBJECT SEDCO 703



Date: 15th September 2007
Client: Chevron Texaco

SEQUENCE OF EVENTS

- Operation : Rig up Schlumberger to allow a “String Shot”
- “Normal” hook-up: Sheave is hung in the elevators
 - For this operation the sheave is secured to a “Fish Plate” assembly located directly below the crown.
 - This allows the drill string to be moved and tension applied while carrying out the back off operation.
- TSTP reviewed and crew conducted verbal THINK plan prior to commencing the task.
 - (Chevron Safety Advisor and Schlumberger rep were present at this meeting)
- Sheave hoisted into the derrick and secured to the “Fish Plate” assembly
- Sheave needed to be turned 180 deg
- Crew member hoisted (Why ?)
- Dropped object while hammering on the line retainer securing mechanism

The potential for a dropped object was noted during the crew THINK plan hence no personnel were working below and the rig floor and cat walk areas were cleared, the channel piece on descent struck the V Door ramp (missing the drill floor) and landed on catwalk



Stainless Channel



Adjustment for line retainer bars

Wire line retainer bars



Broken Weld

Channel section in place

Missing Channel

Channel



Conclusion and Corrective Measures

- **Poor engineering design and Safety standard i.e. fracture of 8 tack welds along stainless steel plate**
- **No secondary fall restraint on the Wire line retainer mechanism.**
- **Schlumberger QA package in need of revision.**
- **Shock loading transmitted from indirect hammering.**
- **Arms on sheave should have been moved into the horizontal position prior to the sheave being hoisted into position.**
- **Australia wide Alert was initiated by Schlumberger (worldwide); reinforcement of channel**
- **Schlumberger looking into sheave modification**
- **Stainless Steel channel protects the headed bolt from debris and locking headed bolt when tightening wing nut.**
- **channel appears to serve no real purpose and should be removed.**
- **New sheave (different design) was sent offshore on next supply vessel**
- **After Action Review : TSTP modified to reflect the checking of sheave components and accessories prior to being hoisted into the derrick**