



Drill Line Contact with Retainer BoltNear Miss

SAFETY ALERT ISSUE #: 20-2011

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Details

Release Date: November 2011 Incidence Type: Near Miss Country and Region: Alberta, Canada

For more information on this event, please contact: safety@enform.ca

Description of Incident:

- At the time of the incident, the driller was working the drill string and was about to make a connection.
- He heard a noise coming from the drawworks; the rig manager was in the doghouse and went to investigate the noise. He noticed that the retainer bolt for the dog nut anchor plate on the TSM 7000 drawworks had backed out.
- Eventually, the bolt was out far enough that it produced friction on the drilling line causing two of the six strands to break.

What caused it:

• As the drilling line came around it would touch the bolt and spin the bolt out, a little each time, due to improper torque values upon installation of the bolts.

Corrective Actions:

• Drilling operation was immediately shut down to tighten the retainer bolt and fix the drill line.

Preventive Actions:

- Ensure daily visual check captures the drill line anchor plate.
- The 5/8" by 1-1/2" counter sunk head bolts have to be torqued to 150-180 ft-lbs, when installed.
- If the bolt holes are slightly worn; you can use Teflon tape or use Locktite 243 (blue) to help ensure the bolts do not back out, after being torqued up.
- If the wear plates are being changed out, new threaded holes should be created, if the old threaded holes are showing any signs of wear.
- If the bolts are showing any signs of wear, they are to be changed out immediately.
- Note: The bolts should wear more than the threaded holes, as the drum material is much harder

By industry, for industry











