

SAFETY ALERT - #04 - 2010

WORKER INJURED WHILE SERVICING COIL REEL DRIVE CHAIN AND ROTATING JOINT

Function: Coil Tubing Servicing	Release Date: March 22, 2010
Incident Type: Injury Incident	Country and Region: Canada, Northern Alberta

Summary:

A worker was injured, while lubricating a coil tubing reel drive chain that was in motion.

Description of Incident:

While performing a coil tubing clean out on a well, a worker was injured as he was lubricating the coil reel drive chain. The worker stood beside the moving reel and sprayed chain lubricant onto the chain. The can of lubricant began to lose pressure, in response the worker moved closer to the drive chain. A spoke on the reel caught the workers arm; his arm was pulled into the support pedestal, which resulted in a severe laceration to his forearm.



Recommendations for Preventing Future incidents:

- Preventive maintenance must not be performed on any moving equipment. When maintenance is required during a well servicing operation the coil tubing reel and rotating joint must be stopped and secured from any unintentional movement.
- During maintenance operations communication needs to be maintained between the equipment operator and maintenance worker to ensure all personnel are clear of the hazardous area before the operator reactivates the equipment.

Recommended Equipment Modifications (Engineering Controls)

- Companies may wish to consider installing remote or automatic lubricating devices on the coil tubing reel drive chain to prevent unintentional access to moving equipment.

Other Recommendations (Other Controls)

- Companies may wish to install a barrier around the coil tubing reel to limit or prevent unintentional access to the area near the rotating equipment.
- All coil tube companies should review their procedures for equipment servicing during coil reel drive chain and rotating joint servicing operations, and revise as needed.
- Coil tube companies may wish to place warning signs to indicate to new workers, other workers, or visitors that rotating equipment hazards are present.
- Companies may wish to use an approved reflective tape or reflective paint to help workers identify when the reel is in motion.



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Other Information:

This alert has been reviewed by the Intervention and Coil tubing Association (ICoTA) and will be forwarded to the IRP 21 Coil Tubing Operations working committee.

Contact:

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DISCLAIMER:

This Safety Alert is designed to prevent similar incidents by communicating the information at the earliest possible opportunity. Accordingly, the information may change over time. It may be necessary to obtain updates from the source before relying upon the accuracy of the information contained herein. This material is presented for information purposes only. Managers and supervisors should evaluate this information to determine if it can be applied to their own situations and practices.