



DATE: February 17, 1994

SUBJECT: Jarring with the Top Drive

SERIAL NUMBERS: All

DISCUSSION: It is imperative that top drive users exercise *care and caution* when using a top drive during and after a jarring operation.

- RECOMMENDATION:**
1. Due to the changing parameters of jarring operations (depth of hole, drill string, free point, type of jars, etc.), it is impossible to establish firm limits or guidelines for jarring with the top drive. Every situation will have to be evaluated on individual merits with due consideration of the costs of abandoning a well.
 2. Canrig advises against using surface jars whenever possible, as the risk of damage to the top drive will increase.
 3. After any jarring operation the top drive should be thoroughly inspected according to the following guidelines:
 - 3.1 Perform a thorough visual examination of the top drive looking for any signs of damage.
 - 3.2 Visually inspect the mud inlet piping.
 - 3.3 Check all wire locked bolts for damage or broken wires. If broken wires are detected, retorque the bolts according to Bulletin # 29 and re-wire. Replace damaged wires.
 - 3.4 Check all external bolts and nuts that are not wired for tightness. Any bolts found to be loose should be removed, coated with Loctite 242 Threadlocker, reinstalled and retorqued according to the specifications in the manual or Product Bulletin # 29.
 - 3.5 Check all guards, vents and covers for tightness.
 - 3.6 Ensure that all safety cables are properly and securely attached.
 - 3.7 Visually examine the inside of the junction box(s) for loose components.
 - 3.8 Open the motor brush access covers and check that all bolts are tight and all brushes are correctly positioned. Also ensure that the condensation heater is secure.
 - 3.9 Check that all electrical plugs are properly engaged and secured.
 - 3.10 Check the seals at the bottom of the rotary manifold to ensure they are properly in place.

4. The top drive hoisting load path is designed according to API Specification 8C; it can be treated in much the same manner as any API hoisting equipment. The main difference is that the top drive has many accessories bolted on; these should be checked for loose bolts, etc. as described above.
5. Jarring operations can be done with the load connected to either the quill or the elevators.

INFORMATION:

For further information contact:

Field Operations Manager
Canrig Drilling Technology Ltd.
14703 FM 1488
Magnolia, Texas 77354
Phone: 281.259.8887
Fax: 281.259.8158